# EzDent-i

# **User Manual**

Version: 3.1

ENGLISH



# Introduction

This manual provides detailed information on how to use EzDent-i. This document may not be reproduced in any manner without the prior written consent from the publisher.

It is recommended that users read this user manual thoroughly before using the program in order to learn the installation of EzDent-i S/W and the functions of the operating system.

For supplementations, this manual is subject to change without prior notice. A printed manual distributed along with the product may not include contents specific to the latest version of the product. For additional information pertaining to this manual and the product, please contact us at:

#### **Contact Information**

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#### About this document:

- Manual Name : EzDent-i User Manual
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- Relevant EzDent-i Version : 3.1

#### **User Notification**

- This manual is subject to change without prior notice for supplementation.
- Several functions of EzDent-i might be limited to use depending on countries and languages.
- This document may not be reproduced in any manner without the prior written consent from the publisher.
- To maintain seamless operation, user must read and follow the instructions prior to using EzDent-i.
- For the optimal use of EzDent-i, the user must comply with the system requirements.
- When transferring patient data such as images or information, laws and regulations on personal information in the country of use must be obeyed.



**Product Information** 

Product: Dental Imaging Processing Software For X-ray System Model: EzDent-i 801-ho, Vatechnetworks Bldg.,13, Samsung 1-ro 2-gil, Hwaseong-si, Gyeonggi-do, Korea Ewoosoft Co., Ltd. Website : www.ewoosoft.com MADE IN KOREA Parc de Haute Maison 4/6 Allee Kepler, 77420 Champs sur Marne, France VATECH Global France SARL.

SN Serial No. : Marked On The Product

Software Version : Marked On The Product

#### Standard

EzDent-i complies with the following international standards and regulations.

	Manufacturer
EC REP	Authorized representative in the European County.
SN	Serial Number
Rx only	Prescription only
CE 1639	CE Marking
$\wedge$	Caution
Ĩ	Consult Instructions for Use

The prescription use statement as required by 21 CFR 801.109(b)(1)

"Caution: Federal Law restricts this device to sale by or the order of a physician or any other practitioners licensed by the law of the state in which that person practices to use or order the use of the device."

Unique Device Identification (UDI)





#### Cyber Security

Before installing the EzDent-i you must follow the instructions below for cyber security.

The instructions help to protect the program against cyber security threats such as viruses and malware.

- Prior to installing and using EzDent-i, scan your computer system with anti-virus and antispyware programs from a trusted source.
- Install, set up and enable adequate anti-virus software.
- Maintain up-to-date anti-virus software.
- Make sure that your OS has the latest security updates applied.
- Turn on your PC's firewall.
- Windows Vista, 7, 8 or higher has a built-in firewall that is turned on by default.

If you have any cyber-security-related concern or problem, please contact our customer support on the phone or via e-mail at the contacts listed below:

- Tel.: +82-1588-9510
- E-mail: gcs@vatech.co.kr
- Website: <u>http://www.ewoosoft.com/</u>

# Main Features of EzDent-i

EzDent-i is a dental imaging software solution that stores, analyzes and helps in the process of diagnosing patient images that have been acquired through VATECH dental equipment.

- Manage Patient Information
- Capture and store intraoral X-ray images.
- Provide tools for image processing and View function for Patient image view
- Process images to enhance their diagnostic value with dental-specific tools and consultation animations.
- Create a record with patient images in Report Mode.

EzDent-i can be used in a networked environment. If EzDent-i is installed in several computers, the patient and image database can be shared among them and used on different workstations.

#### Indications for Use

EzDent-i is a dental imaging software that is intended to provide diagnostic tools for maxillofacial radiographic imaging. These tools are available to view and interpret a series of DICOM compliant dental radiology images and are meant to be used by trained medical professionals such as radiologist and dentist.

EzDent-i is intended for use as software to acquire, view, save 2D image files, and load DICOM project files from panorama, cephalometric, and intra-oral imaging equipment.

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# Chapter 1. Installing EzDent-i

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# 1. What is EzDent-i?

EzDent-i is a Dental Imaging Software that enables users to save, manage, diagnose, and acquire patients' images. EzDent-i is equipped with management and processing system for various images. Images can be acquired directly from equipment that EzDent-i currently supports. In addition, images can be imported from other digital sources.

# 2. PC System Specifications for EzDent-i

- Recommended Server PC specifications
  - CPU: Intel Core i5-7600 @ 3.50GHz or higher
  - RAM: 4GB or more
  - HDD: 1TB or more
  - OS: Windows 10 or later
  - Display: 1280 ×1024 or higher
  - Wired Network : 1G ethernet LAN (CAT 5E cable) or higher
  - Wireless Network : 802.11ac or higher
- Minimum Server PC specifications
  - CPU: Intel Core i3-4150 @ 3.50GHz
  - RAM: 2GB
  - HDD: 500GB
  - OS: Windows 7
  - Display: 1280 ×1024
- Recommended Client PC specifications
  - CPU: Intel Core i3-2100T @ 2.50GHz or higher
  - RAM: 4GB or more
  - HDD: 15GB free space or more
  - OS: Windows 10 or later
  - Display: 1280 ×1024 or higher
- Minimum Client PC specifications
  - CPU: Intel Core2 Duo E7200 @ 2.53GHz
  - RAM: 2GB
  - HDD: 11GB free space
  - OS: Windows 7
  - Display: 1024 ×768

# 3. Installation

#### 3.1 Installation of EzServer

To use all functions of EzDent-i v3.1, installation of EzServer v4.1 or higher is required. The version of server can be viewed from the name of server installation file.

1. Execute MultiInstallUtility.exe to install EzServer and Ez3D-i for Windows. The prompt for selecting installation mode will be shown

MultiInstallUtility.exe

2. Multi Install Utility window for selecting installation mode will be shown.

Multi Install Utility - v1.0.1		-		×
Multi Install Utility				
Install Items       ✓ ExServer       ✓ ExServer       ✓ ConsultData       ✓ ImplantDB       ✓ EzDent-i       ► EzDri       ► ExDritho       ✓ Consult License Activator       ✓ Additional       ✓ ExPicker       ✓ Upgrade Tool	Installed - - - - -		Sta	ırt
<		> 0%		
> Loading install,list, > - 15 items were added,		E		

- In section A, users can select and install options on EzServer.
- In section B, users can install EzDent-i.
- In section C, users can activate the Consult License.
- In section D, users can install EzPicker or UpgradeTool.
- In Section E, users can view the installation progress.
- 3. After selecting programs to install, click the [Start] button.

#### 3.1.1 [Server] Installation of EzServer

1. Once the installation is started, click the [Next] button.

EzServer - InstallShield Wizard	×
	Welcome to the InstallShield Wizard for EzServer
	The InstallShield Wizard will install EzServer on your computer. To continue, click Next.
	< <u>B</u> ack Next> Cancel

2. Set the destination location of the program. It is recommended that you use the default path and click the [Next] button to proceed.

Choose D	stallShield Wizard Destination Location Ider where setup will install files.		×
	Install EzServer to: C:\Program Files\WATECH		Change
InstallShield -		<back next=""></back>	Cancel

3. When EzServer is completely installed, click the [Finish] button to complete installation.



- not uninstalled automatically when EzSever is uninstalled. Please unistall PostgreSQL separately when needed.
- 4. When the installation of EzServer is complete, the other components will automatically start installing. If users did not select any other components, the installation is finished

#### 3.1.2 [Server] ConsultData installation

1. To install Consult Data, click the [Next] button.

Consult Data - InstallShield Wiz	ard
	Welcome to the InstallShield Wizard for Consult Data
	The InstallShield Wizard will install Consult Data on your computer. To continue, click New.
	<back next=""> Cancel</back>

2. To continue click the [Next] button, followed by the [Install] button to proceed.

Consult Data - InstallShield Wizard	×
Ready to Install the Program The wizard is ready to begin installation.	
Click Install to begin the installation.	
If you want to review or change any of your installation settings, click Bar the wizard.	sk. Click Cancel to exit
InstallShield	
Kack Insta	all Cancel

3. When the installation of Consult Data is complete, click the [Finish] button.

#### 3.1.3 [Server] ImplantDB Editor installation

1. To install ImplantDB, click the [Next] button.

	Welcome to the InstallShield Wizard for ImplantDBEditor The InstallShield Wizard will install ImplantDBEditor on your computer. To continue, click Nest.
	<back next=""> Cancel</back>

	If Implant DB is not installed, the list of implant model cannot be seen while conducting implant simulation. Please install Implant DB to use implant simulation function.
	Implane         Implane <t< td=""></t<>
NOTE	Crean Criter White *  Set as default.  OK Caneel

----

2. Click the [Install] button to start instation.

ImplantDBEdit	or - InstallShield Wizar	d			×
-	nstall the Program I is ready to begin installati	on.			22
Click Insta	I to begin the installation.				
If you wan the wizard	t to review or change any i	of your installat	ion settings, clia	:k Back. Click	Cancel to exit
InstallShield —			< Back	Install	Cancel

3. Please wait until the installation process is complete.

ImplantDBEditor - InstallShield Wizard	×
Setup Status	4
The InstallShield W/zard is installing ImplantDBEddor	
InstallShieldCan	cel

4. Enter the IP address and port number for Implant DB Server.

🔲 In	nplant DB Server Info Setting
	P Address
	127, 0, 0, 1
	Port
	5432
	Ok Cancel
<u> </u>	

5. Please select company/companies you want to install. By checking [Select All], you can install all implant models of all companies ImplantDB provides.

nst	all			
	Company	Installed Ver.	Package Ver.	10
7	31	0000/00/00	2017/03/09	
~	AB Implant		2017/03/09	
7	ALLFIT	0000/00/00	2017/03/09	
~	Alpha8io	0000/00/00	2017/03/09	
7	Alphatech	0000/00/00	2017/03/09	
7	Anthogyr	0000/00/00	2017/03/09	
Y	8ego	0000/00/00	2017/03/09	
7	Bicon	0000/00/00	2017/03/09	
7	Biodenta		2017/03/09	
2	BioHorizons	0000/00/00	2017/03/09	Ę

6. Please select [OK] to process installation.



7. Please click [Finish] to complete the installation of ImplantDB Editor.

ImplantDBEditor - InstallShield	Wizard
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed Implant/DBEditor. Click Finish to exit the wizard.
	< Back Finish Cancel

8. Click the [End] button to close Multi Install Utility window.

Iulti Install Utility		
istall Items	Installed	C End
<ul> <li>EzServer</li> </ul>	Installed.	
✓ EzServer	-	
ConsultData	Installed.	
✓ ImplantDB	Installed.	
EzDent-i	-	
Ez3D-i		
Ez3D-i	-	
DAVIS Toolkit for 3D	-	
EzOrtho		
DAVIS Toolkit for Ortho	-	
Consult License Activator		
Consult License Activator		~
		>
		100%
Start running : EzServer #1/3		
– Finished,		~
Start running : ConsultData #2/3		
- Finished, Start running : ImplantDB #3/3		
- Finished.		
All jobs finished		

### 3.2 Installation of EzDent-i

#### 3.2.1 [Client & Console] EzDent-i installation

- 1. When installing EzServer and EzDent-i coincidentally, the installation of EzDent-i automatically starts. When installing EzDent-i only, click the EzDent-i button in section B and click the [Start] button.
- 2. Click the [Next] button to start the installation when the InstallShield Wizard window appears.

EzDent-i - InstallShield Wizard		×
$\overline{\mathbf{N}}$	Welcome to the InstallShield Wizard for EzDent-i	
	The InstallShield Witzard will install EzDent-i on your computer. To continue, click Next.	
	< Back Next > Cancel	

**3.** The License Agreement' window will be shown. If the conditions are acceptable, select [I accept the terms of the license agreement] and click [Next] button.

EzDent-i - InstallShield Wizard	×
License Agreement Please read the following license agreement carefully.	X
"EzDent-i" of EW00S0FT	^
END USER LICENSE AGREEMENT FOR EWOOSOFT SOFTWARE	
This EWODSOFT End-User License Agreement ("EULA") is a legal agreement b you (either an individual or a single entity) and EWODSOFT Co., Ltd. and for the EWODSOFT software accomparying this EULA, which includes the accompary computer software, and may include associated media, pinited materials and any "E2Dent" of selectronic documentation "E2Dent". By onstalling the "E2Dent", by to be bound by the terms of this EULA. If you do not agree to the terms of this EU may not install or use the "E2Dent". You call lock of the "I agree" button is a symb- signature that you accept the terms of the EULA.	ing ou agree JLA, you
I accept the terms of the license agreement	Print
I do not accept the terms of the license agreement	
nstallShield	
< Back Next >	Cancel

4. After specifying the location to install the program, click the [Next] button to go forward.

EzDent-i - b	nstallShield Wizard		×
Choose I	Destination Location	1	And and a second second
Select for	older where setup will install files.		
	Install EzDent-i to:		
	C:\Program Files (x86)\VATECH		Change
nstallShield			

- 5. Select the type of EzDent-I you would like to install.
  - If users need to acquire images from Extra-oral imaging system such as Pano, Ceph or CT, select [EzDent-i Console] and click the [Next] button.
  - If users need to acquire images from Intra-oral imaging system such as IO Sensor or IO Camera, select [EzDent-i Client] and then click the [Next] button.

Dent-i - InstallShield Wizar	d			
Select Features Select the options you wan	t to install.			22
Select the features you wa	nt to install, and	deselect the featur	es you do not wan	t to install.
Client (For any other car	ses.)			
Console (PCs linked to a	a compatible extr	aoral X-ray device.	]	
Description				
Console: Select this opti device.	ion if this PC will	be used to control	a compatible extra	oral X-ray
Client: Select this option includes PCs connected				e. This
stallShield				

6. The installation is automatically progressed.

EzDent-i - InstallShield Wizard	×
Setup Status	2
EzDent-i is configuring your new software installation.	
Installing	
InstallShield	
	Cancel

**7.** After installation of EzDent-i Console is complete, select [Yes, I want to restart my computer now] and click the [Finish] button. Then, the PC will be restarted.



It is highly recommended to restart the PC to apply system changes resulted from the installation.

# 4. Updating EzDent-i

# 4.1 Updating EzServer

The following section describes the update process for EzDent-i Server.

To update, double click and open the provided executable files.

 To update DB (Database) or File Server, Open EzServer.exe relevant with operation type of PC.



• To update Consult Data, open ConsultData.exe.



To update ImplantDB, open ImplantDB.exe.

# ImplantDB.exe



For the more information in details, please contact to Customer Support Center of VATECH.

\_\_\_\_\_

# 4.2 Updating EzDent-i

To update EzDent-i in a client or console PC, execute the EzDent-i.exe. Follow the installation method for the subsequent steps.



# 5. Uninstalling EzDent-i

To uninstall EzDent-i:

- 1. Click the Start button on the following window.
- 2. Click [All Programs] and then click [Control Panel]. Click [Uninstall a program].



#### Programs

#### Uninstall a program

3. User can verify the programs related with EzDent-i such as EzDent-i, PostSQL 9.2, Implant DB, EzServer and ConsultData. Double click one by one and uninstall the programs.



4. First, Double click EzDent-i and then select [Yes] button to proceed to uninstall.

🗾 EzDent-i

5. When the message appears to verify if user wants to delete the program or not, click the [Yes] button.



- 6. When EzDent-i uninstallation is completed, click the [Finish] button.
- To continue uninstalling EzDent-i, go back to [Uninstall Program] and Double click ImplantDB



8. Select the [Yes] button to proceed to uninstall.



- 9. When ImplantDB uninstallation is completed, click the [OK] button.
- **10.** To continue uninstalling EzDent-i, go back to [Uninstall Program] and Double click EzServer and then, select the [Yes] button to proceed to uninstall.



- 11. When EzServer uninstallation is completed, click the [Finish] button.
- **12.** To continue uninstalling EzDent-i, go back to [Uninstall Program] and Double click ConsultData.

Consult Data

- 13. Select the [Yes] button to proceed to uninstall.
- 14. When ConsultData uninstallation is completed, click the [Finish] button.
- **15.** To continue uninstalling EzDent-i, go back to [Uninstall Program] and Double click PostgresSQL 9.2.

PostgreSQL 9.2

16. Select the [Yes] button to proceed to uninstall.

🧶 Quest	tion
?	Do you want to uninstall PostgreSQL and all of its modules?
	Yes <u>N</u> o

17. When PostgresSQL 9.2 uninstallation is completed, click the [OK] button.



- **18.** When Consult Data uninstallation is completed, click the [Finish] button. Once the programs such as EzDent-i Client, Implant DB, Consult Data, EzServer, PostgreSQL 9.2, are uninstalled, EzDent-i is completely uninstalled.
- **19.** After uninstalling EzDent-i, it is highly recommended to restart the PC.

# 6. License Activation

To use EzDent-i normally, activate the license. To activate the license, three options are given.

Dongle Key User (Regular User)

```
    I will activate my license with USB Dongle Key.
    (For regular users)
```

 $\rightarrow$  Select the dongle key option for successful authentication of the EzDent-i product. The Internet connection is not required when using the USB dongle key.

License Key User (Regular / Demo User)

I will activate my license with License Key.
 (For regular or demo users)

 $\rightarrow$  Select the license key option to authenticate the EzDent-i product or its demos. It can be used only where an internet connection is available.

Trial Version User (Trial User)

```
    I will try this software.
    (For Trial Users : days left until it expires(30))
```

 $\rightarrow$  If you do not have either one of these two keys, select the trial option to test the EzDent-i product for 30 days. It can be used where an internet connection is not possible.

Refer to the following sections to activate the three license options above.

#### 6.1 For Regular Users: Activating License with a USB Dongle Key

1. Connect the USB Dongle Key to the PC, and open VTNL.exe



 To open VTNL program, install ADB.exe file first. If the executable file is not installed, the installation process of ADB program will automatically start when opening VTNL program.

Edit Help		
License Informa	ation	
Clinic Info	Certifications   Volume	
Clinic	: [11	
Dr.	1 ewoo	
Email	: soft@soft.com	
Country	8	
Install Loc.		
Log Window		
14:40:44:363 14:40:45:159 14:40:45:174	Application Path: F:/ VTNL started	

3. Open EzDent-i.



4. The following [LICENSE ACTIVATION WIZARD] window appears if you have not activated a license previously.

License Activation Wizard			<b></b> X
Please select how you will activate your license.			
I will activate my license with USB Dongle Key.			
(For regular users)			
I will activate my license with License Key.			
(For regular or demo users)			
I will try this software.			
(For Trial Users : days left until it expires(30))			
	Back	Next	Cancel

5. Select the dongle key (first) item, and then click the [Next] button.

Jcense Activation Wizard			
Please select how you will activate your license.			
<ul> <li>I will activate my license with USB Dongle Key.</li> <li>(For regular users)</li> </ul>			
I will activate my license with License Key. For regular or demo users)			
I will try this software.			
For Trial Users : days left until it expires(30))			
	Back	Next	Cancel

6. When the following [VTLICENSE PLUGIN OPTION] window appears, select the license key from the list and install by clicking the [OK] button.

	Package Tune	ol.(Used/Tota	Availability	 	
-	Patient/Acquisi…	0/5	YES		

7. After clicking the [OK] button, the following [VTLicense Activation Wizard] window appears. Once the license has been activated, click on the [Finish] button to complete your activation. EzDent-I will then run automatically.

etrieving the VTNL address. erforming VTNL Activation.	
etrieving the license file.	
TNL Activation is successfully done.	

8. Once the license has been activated, the user's PC will appear on the list of [Certifications] in the [VTNL] window.

icense	Information				
Clinic	Info Certifications	Volume			
Gran	ted Users				
	PC Name	MAC	Ib	Product	Issue Date
1	win7_32_test-PC	and the second second second	-	EzDent-i	2020-07-02
2	win7_64_test-PC	-	100.000	Ez3D-i	2020-07-02
3	win7_32_test-PC	and the second of	and official and	EZORTH	2020-07-02
4	win7_64_test-PC	statistics in the second	-	CNSLT	2020-07-02
07-20 0 07-20 0 07-20 0 07-20 0 07-20 0 07-20 0	0:42:47.049 (1) 0:42:47.065 (2) 0:42:47.080 (3) 0:42:47.138 Permissio 0:42:47.187 Transmitti 0:42:47.206 A license	n granted to win7,32,t ing a license file file has been sent! lume0B: win7,32_test- lume0B: win7,32_test- lume0B: win7,32_test-	EZORTH, CNSLT, v est-PC	_64_test-PC, 1 win7_32_test-P win7_64_test-PC	
		ansfered successfully!			

9. The dongle license key number appears on the list of [Volume] in the [VTNL] window.

Cli					
201	inic Info   Ce	rtifications	Volume		
	Configurations	unconorro			
1					
	Product	Users	Volume	Addons	
	1 EzDent-	1	2	Patient/Acquisition/Viewer/Consult/Report/Analysis/Simulation/M	les
					_
E	•				,
Log	Window				,
Log 1	Window 20 00:42:47.04	9 (1)		E3, win7,641eet-PC, 1 CTODTU win7 33 tech PC 1	
Log 1 07-:	Window	9 (1) 5 (2)		E3, win7_64_test-PC, 1 E200TH, win7_22_test-PC, 2 CNST, win7_24_test-PC, 1	,
Log 1 07-2 07-2 07-2	Window 20 00:42:47.04 20 00:42:47.06 20 00:42:47.08 20 00:42:47.13	9 (1) 5 (2) 0 (3) 8 Permission	n granted 1	EZORTH, win7_32_test-PC, 2 CNSLT, win7_64_test-PC, 1 to win7_32_test-PC	
Log 1 07-2 07-2 07-2 07-2	Window 20 00:42:47.04 20 00:42:47.06 20 00:42:47.08 20 00:42:47.13 20 00:42:47.18	9 (1) 5 (2) 0 (3) 8 Permission 7 Transmittir	n granted t	EZORTH, win7_32_test-PC, 2 CNSLT, win7_64_test-PC, 1 to win7_32_test-PC se file	
Log 1 07-3 07-3 07-3 07-3 07-3	Window 20 00:42:47.04 20 00:42:47.06 20 00:42:47.08 20 00:42:47.13 20 00:42:47.18 20 00:42:47.20	9 (1) 5 (2) 0 (3) 8 Permission 7 Transmittir 6 A license f	n granted t ng a licens tile has bei	EZORTH, win7_32_test-PC_2 CNSLT, win7_64_test-PC, 1 to win7_32_test-PC se file en sent!	
Log 1 07-: 07-: 07-: 07-: 07-: 07-:	Window 20 00:42:47.04 20 00:42:47.06 20 00:42:47.08 20 00:42:47.13 20 00:42:47.18 20 00:42:47.20	9 (1) 5 (2) 0 (3) 8 Permission 7 Transmittir 6 A license f 9 UpdateVol	n granted t ng a licens tile has bei umeD8, w	EZORTH, win7_32_test-PC, 2 CNSLT, win7_64_test-PC, 1 to win7_32_test-PC se file	

# 6.2 For Demo Users, Activating License with a License key



For activating license using the license key, an internet connection must be available with the PC.

1. Select the second option from the [LICENSE ACTIVATION WIZARD] window.



2. Enter the EzDent-i user information and license key provided. And then click the [Next] button. You must enter more than 3 characters to activate the [Next] button.

icense Key	FEGY7pa	FIEefwl	LxgRsyf	dfieowk	CPkDSdj	linding .	From Clipboard		
Jinic (Company)	Vatech Clinic								
lame	Dr. Vatech								
mail	gcs@vatech.c	gcs@vatech.co.kr							
	Republic of Korea								
Collecting Inform	ation on Users a	nd Use Agreen about users. F	or installation an				smation on Users and		
EzDent-i may col	ation on Users a llect information Otherwise, it is li set out in the fo	nd Use Agreen about users. F mited to install ollowing collect formation, item	or installation an and make a use ing purpose. collected and st	of EzDent-i. Usi prage place			ermation on Users and e used for a purpose		

**3.** Copy the license key with <Ctrl+C> keys, and click the [From Clipboard] button for easier input.

4. Upon the successful activation, the [LICENSE ACTIVATION WIZARD] window will appear, including the remaining days. Click the [Finish] button to end the activation.

🗇 I	Jcense Activation Wizard	×
	Validating the license key	
	Processing your activation.	
	The license activation was completed.	
	Back Next	Finish
	DOLK	

- 5. Restart EzDent-i after the license activation.
- 6. The user can check the information of the license by clicking [Main menu > About].

	Version	Open Source License Info
Main Menu	ver.3.1.0.0 Console	1.DCMTK
EzDent-i	Company	COPYRIGHT
pen	EWOOSOFT Co., Ltd.	
Jen -	License	<ul> <li>Unless otherwise specified, the DCMTK software package has the following copyright:</li> </ul>
port	Activated as trial version. 73day(s) left until it expires.	Copyright (C) 1994-2011, OFFIS e.V.
port CT File	Available modules :	All rights reserved.
port to 3rd party	Patient/Acquisition/Viewer/Consult/Report/ Twain/DicomPrint/DAVIS	This software and supporting documentation Notice
alysis		Copyright (C) 2013 by Ewoosoft Co., Ltd. All rights reserved.
e Information		Warning: This software is protected by copyright laws and international treaty provisions.
ttings		The act of copying or distributing part or all of the software without prior written permission is
1X Layout Editor	(01)08800019700197	strictly prohibited by criminal and civil law and copyright violations will be prosecuted. Important Notice :
oout		The implant models included in the database of

# 6.3 30 Day Trial Users

1. Select the third option in the [LICENSE ACTIVATION WIZARD] window and click the [Next] button.



2. Your 30 day trial version of EzDent-i will begin.



When 30 days have passed, the user needs to activate the dongle key license or demo license again. If user doesn't have a license, please contact a customer support center of Vatech.

# 7. License Deactivation of EzDent-i

Only legal users can deactivate the licenses. The number of users is limited with one license. So if more licenses are required, users must deactivate the current license. Perform the following steps to deactivate.

1. Click the EzDent-i main button outlined below. Main Menu appears then, click [About].

Main Menu EzDent-i
Open
Export
Export CT File
Export to 3rd party
Analysis
File Information
Settings
FMX Layout Editor
About

2. When the [ABOUT] window appears, click the [Deactivate] button at the bottom of the window.

ABOUT		×
Version	Open Source License Info	
ver.3.1.0.0 Console	1.DCMTK	
Company	COPYRIGHT	
EWOOSOFT Co., Ltd.	Unless otherwise specified, the DCMTK	
License	software package has the following copyright:	
Activated as trial version. 73day(s) left until it expires.	Copyright (C) 1994-2011, OFFIS e.V. All rights reserved.	
Available modules : Patient/Acquisition/Viewer/Consult/Report/ Twain/DicomPrint/DAVIS	This software and supporting documentation	
(01)08800019700197	Copyright (C) 2013 by Ewoosoft Co., Ltd. All rights reserved. Warning: This software is protected by copyright laws and international treaty provisions. The act of copying or distributing part or all of the software without prior written permission is strictly prohibited by criminal and civil law and copyright violations will be prosecuted. Important Notice : The implant models included in the database of	
Activate Deactivate	еОК	

3. A window will appear that confirms the deactivation. Click the [OK] button.



NOTE

**4.** After the license is deactivated, the number of users will decrease under the [Volume] tab in the [VTNL] window.

💷 Ne	etw	/ork	License Server - (	Copyright	(C) 2013-	-2015 by EWOOSOFT - v1.0.6.0		
<u>F</u> ile	E	dit	<u>H</u> elp					
	License Information							
	Clinic Info Certifications Volume							
ſ								
	Configurations							
			Product	Users	Volume	Addons		
		1	EzDent-i	0	2	Patient/Acquisition/Viewer/Consult/Report/Analysis/Simulation/Mes		
		4						
1	Log	g Wir	ndow					
ſ	07	7-20	00:42:47.049 ()	L)		E3, win7_64_test-PC, 1		
			00:42:47.065 (2	2)		EZORTH, win7_32_test-PC, 2		
			00:42:47.080 (3		arapted t	CNSLT, win7_64_test-PC, 1 to win7_32_test-PC		
			00:42:47.138 P 00:42:47.187 T					
			00:42:47.206 A					
						vin7_32_test-PC, ≣		
			00:42:47.365 U 00:42:47.381 L			Iready registered user. Updates the RefCnt to 2		
	07	-20	00.42.47.381 L	icense tra	nsiered su	rccessiuny:		
		-	-					
	P		To rea	ctivate	the li	cense, refer to 'Installing Chapter1. EzDent-i $ ightarrow$ 6. L	icense	
ì	-	4				need more copies of license, contact the customer s		
## 8. Consult Database License Activation

To use the animated contents under the Consult tab, you must activate your consult database with license. There are three methods to activate the license.

Dongle Key User (Regular User)

I will activate my license with USB Dongle Key.
 (For regular users)

 $\rightarrow$  Select the dongle key option for successful authentication of the Consult database. The Internet connection is not required when using the USB dongle key.

License Key User (Regular or Demo User)

I will activate my license with License Key.
 (For regular or demo users)

 $\rightarrow$  Select the license key option to authenticate the Consult database demos. It can be used only where an internet connection is available.

Trial Version User (Trial User)

I will try this software.
 (For Trial Users : days left until it expires(30))

 $\rightarrow$  If you do not have either one of these two keys, select the trial option to test the Consult database for 30 days. It can be used where an internet connection is not possible.



- If you have a license, you are able to use all contents. But if you do not register the license, only the contents that the user adds to the DB are available.
- Trial version users are able to use all contents for 30 days. After 30 days, only the contents that the user adds to the DB are available.

Refer to the following sections to activate the three license options above.

## 8.1 For Regular Users: Activating License with a USB Dongle Key

- 1. Open MultiInstallUtility.exe while VTNL is running.
- 📑 MultiInstallUtility.exe
- 2. Select Consult License Activator and click [Start] button.

Multi Install Utility - v1.0.1		-		×
Multi Install Utility				
Install Items	Installed	^	Sta	art
✓ EzServer				
EzServer	-			
ConsultData	-			
ImplantDB	-			
EzDent-i	-			
✓ Ez3D-i				
Ez3D-i	-			
DAVIS Toolkit for 3D	-			
> EzOrtho				
Consult License Activator	-			
✓ ☐ Additional				
EzPicker	-	~		
<		>		
		0%		
> Loading install, list, > - 14 items were added,				

**3.** The [Consult Data License Activator] window will appear, including the license information. Check the information and click the [Activate] button.

	t Data License	THURTLE	01.41,0,1,0	
Licen	se Information			
	activated yet,			
-	Activate		Deactivate	

4. Select the dongle key (first) item, and then click the [Next] button.

License Activation Wizard	×
Please select how you will activate your license.     Please select how you will activate your license.	]
<ul> <li>I will activate my license with License Key.</li> <li>(For regular or demo users)</li> </ul>	_
	Back Next Cancel

5. When the following the [VTLICENSE PLUGIN OPTION] window appears, select the license key from the list and install by clicking the [OK] button.

	icense Plugin Opt			×
	-	Vol.(Used/Total)	Availability	
1	Premium/	0/4	YES	
				1
_				
			ОК	

6. After clicking the [OK] button, the following the [LICENSE ACTIVATION WIZARD] window appears. Once the license has been activated, click on the [Finish] button to complete your activation. EzDent-I will then run automatically.



# 8.2 For Regular or Demo Users, Activating License with a License Key



For activating license using the license key, an internet connection must be available with the PC.

1. Select the second option from the [LICENSE ACTIVATION WIZARD] window.



2. Enter the EzDent-i user information and license key provided. And then click the [Next] button. You must enter more than 3 characters to activate the [Next] button.

license Key	FEGY7pa         FIEefwl         LxgRsyf         dfieowk         CPkDSdj         From Clipboard
Clinic (Company)	Vatech Clinic
Name	Dr. Vatech
-mail	gcs@vatech.co.kr
2	Republic of Korea
Collecting Inform EzDent-i may col Use Agreement. (	
Collecting Inform EzDent-i may col Use Agreement. C other than that is 1. Collecting purp	ation on Users and Use Agreement lect information about users. For installation and use of EzDent-i,you agree with the Collecting Information on Users and Dtherwise, it is limited to install and make a use of EzDent-I. User's information collected will not be used for a purpose

Copy the license key with <Ctrl+C> keys, and click the [From Clipboard] button for easier input.

**3.** Upon the successful activation, the [LICENSE ACTIVATION WIZARD] window will appear, including the remaining days. Click the [Finish] button to end the activation.

License Activation Wizard	×
Validating the license key Processing your activation. The license activation was completed.	
	Back Next Finish

## 8.3 30 Day Trial Users

1. Select the third option in the [LICENSE ACTIVATION WIZARD] window and click the [Next] button.

License Activation Wizard	<b>×</b>
Please select how you will activate your license.	
I will activate my license with USB Dongle Key.	
(For regular users)	
I will activate my license with License Key.	
(For regular or demo users)	
I will try this software.	
(For Trial Users : days left until it expires(30))	
	Back Next Cancel

2. You can use the Consult database for 30days.



## 9. License Deactivation of Consult Database

- 1. Open MultiInstallUtility.exe.
- 📑 MultiInstallUtility.exe
- 2. Select Consult Licencse Activator and click [Start] button.

💽 Multi Install Utility - v1.0.1		-	
Multi Install Utility			
Install Items	Installed	^	Start
✓ □ EzServer			
EzServer	-		
ConsultData	-		
ImplantDB	-		
EzDent-i	-		
✓			
Ez3D-i	-		
DAVIS Toolkit for 3D	-		
> EzOrtho			
Consult License Activator	-		
✓ ☐ Additional			
EzPicker	-	~	
<		>	
		0%	
		0/6	
> Loading install list			
> Loading install, list, > - 14 items were added,			

**3.** The [Consult Data License Activator] will appear, including the license information. Check the information and click the [deactivate] button.

Consult Data License Activator v1.0.1.0	X
License Information	
Activated with USB Dongle Key,	
Activate Deactivate	

4. A window will appear that confirms the deactivation. Click the [OK] button.

Information		x
i	The license deactivation was completed.	
	Ok	

5. After the license is deactivated, the number of users will decrease under the [Volume] tab in the [Network License Server] window.

icense	Information			
Clinic	Info Certif	fications	Volume	
	igurations			
	-			
	Product	Users	Volume	Addons
1	EzDent-i	1	2	Patient/Acquisition/Viewer/Consult/Report/Analysis/Simulation/Mes
2	CNSLT	0	2	Premium/
•		m		•
_og Wint				
07-20 0	)1:53:40.747	(1)		E3, win7_64_test-PC, 1
07-20 0 07-20 0				E3, win7_64_test-PC, 1 EZORTH, win7_32_test-PC, 2
07-20 0 07-20 0 07-20 0	)1:53:40.747 )1:53:40.763	(1) (2) (3)		E3, win7_64_test-PC, 1
07-20 0 07-20 0 07-20 0 07-20 0	01:53:40.747 01:53:40.763 01:53:40.780	(1) (2) (3) Permission	n granted t	E3, win7_64_test-PC, 1 EZORTH, win7_32_test-PC, 2 CNSLT, win7_64_test-PC, 1 to win7_32_test-PC
07-20 0 07-20 0 07-20 0 07-20 0 07-20 0 07-20 0	01:53:40.747 01:53:40.763 01:53:40.780 01:53:40.859 01:53:40.910 01:53:40.927	(1) (2) (3) Permission Transmittir A license f	n granted t ng a licens ile has bee	E3, win7_64_test-PC, 1 E2ORTH, win7_32_test-PC, 2 CNSLT, win7_64_test-PC, 1 to win7_32_test-PC se file en sent1
07-20 0 07-20 0 07-20 0 07-20 0 07-20 0 07-20 0 07-20 0	01:53:40.747 01:53:40.763 01:53:40.780 01:53:40.859 01:53:40.910 01:53:40.927 01:53:41.124	(1) (2) (3) Permission Transmittir A license f UpdateVol	n granted t ng a licens ile has bee umeDB: w	E3, win7_64_test-PC, 1 EZORTH, win7_32_test-PC, 2 CNSLT, win7_64_test-PC, 1 to win7_32_test-PC se file en sentl vin7_32_test-PC, CNSLT
07-20 0 07-20 0 07-20 0 07-20 0 07-20 0 07-20 0 07-20 0 07-20 0	01:53:40.747 01:53:40.763 01:53:40.780 01:53:40.859 01:53:40.910 01:53:40.927 01:53:41.124	(1) (2) (3) Permission Transmittir A license f UpdateVol UpdateVol	n granted t ng a licens ile has bee umeDB: w umeDB: M	E3, win7_64_test-PC, 1 EZORTH, win7_32_test-PC, 2 CNSLT, win7_64_test-PC, 1 to win7_32_test-PC se file en sent! win7_32_test-PC, CNSLT win7_32_test-PC, CNSLT

# Chapter 2. Setting Up EzDent-i

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## 1. Quick Settings

The following Quick Setting Window appears when you run EzDent-i for the first time after installation. You can set Sever IP Address, Settings Location, Language, Teeth Code and DB Save Option. More details can be set in the Settings of Main Menu.

QUICK SETTINGS	×
Quick Settings	
Please select from the options below to proc	ceed
Server IP Address	Port
	43112
Search	
Settings Location	
• Local	O Server
Language	
English	•
Teeth Code	
O Universal System	• FDI System
Privacy Policy Setting	
• Enable	O Disable
Save Option	
IO Sensor	
Manual	Auto DB Save
IO Camera	
• Manual	Auto DB Save
Twain	
• Manual	Auto DB Save
ОК	Cancel

- The default port number is automatically displayed.
  - Initially installing EzDent-i v3.1 or later: 43112
  - Updating previous version: 55005
- This window appears every time you run EzDent-i until the required information is filled.

## 2. Getting Access to Settings

In Settings, users can edit different features of EzDent-i. Click the main menu and select [Setting] from the list. The Settings window will appear. This chapter explains about each setting in detail.

	SETTINGS					
	Environment	General	Database	Patient	Linkage/E-Mail	Practice Information
Main Menu EzDent-i	Acquisition	GENERAL SETTINGS Settings Location	© Server		Sync Settings	
Open	Viewer	GENERAL Language		Teeth		
xport CT File	Simulation	Font Segoe UI		Dose	System Unit rcm <sup>2</sup>	۳. ۲
xport to 3rd party	Consult	PROGRAM UPDATE			ACCOUNT MANAGEN	
ile Information	Report	HURE			Waha	yo .
ettings	Service	1				
MX Layout Editor	Others	1				
bout	- CONTA					
	Initialize Set	ttings			ОК	Cancel

## 3. Environment

### 3.1 General

Settings for Configuration, Linking with other programs, and Networking are available.

SETTINGS							х	
	General	Database	Patie	ent	Linkage/E-Mail	Practice Information		
Environment	GENERAL SETTINGS						٦	
	Settings Location			_				
Acquisition	Local	Server			Sync Settings			
	GENERAL							
Viewer	Language			Teeth Co	ode			
	English		•	FDI S	ystem	•		
	Font			Dose Ur	nit			
Simulation	Segoe UI		•	dGyci	m²	•		
							-	
Consult	PROGRAM UPDATE			USER ACCOUNT MANAGEMENT				
	None	Update N	low		Manag	er		
Report								
Service								
Others								
			_	_			_	
Initialize Setting	s				ОК	Cancel		

1. Settings Location

Decide whether to set up the EzDent-i on the network server or locally. To be the same as the server, EzDent-i should reflect any changes in the server database in real time.

On the other hand, if the setup is done locally and not linked to the server, it cannot receive data from the server machine. Therefore, the database must be synchronized with the server on a regular basis by clicking the [Sync Settings] button.

2. GENERAL

User can change the setting for the language, teeth code, date format, dose unit, and font.

Language

Select the language of EzDent-i. EzDent-i supports 16 different languages including Korean and English. After setting the language, restart EzDent-i.

		Some fonts may not be available for certain languages.
	•	The date format is automatically set depending on the selected language.

Font

Select the font type used in EzDent-i. Tahoma is recommended in EzDent-i.

Tooth Code

Select a tooth numbering system. The types of each tooth numbering system are below.

Tooth Numbering of FDI(Federation Dentaire Internationale) System

17 🕌 16 🔔 15 🔪	14		21	23	<sup>25</sup> 👃 <sup>26</sup> 🧶 <sup>27</sup> 🐰
47 🞢 46 🎢 45 🍸	44 🍞 43 🦻	42 7 41 7	31 7 32 7	33 🔪 34 🦹	35 🔨 36 🏹 37 🏹

• Tooth Numbering of Universal System

2 2 3 2 4	5	<sup>6</sup> 👌 🕇	8	9			12	13	<sup>14</sup> 🥂 15 🐰
31 📝 30 🎢 29 🍸	28 /	27 🌶 26 🔰	25	24	23	22	21	20 🥄	19 📢 18 🌾

Dose Unit

Select a dose unit of notation. (Dose unit: mGym<sup>2</sup>, Gycm<sup>2</sup>, dGycm<sup>2</sup>, uGym<sup>2</sup>, mGycm<sup>2</sup>)

- 3. PROGRAM UPDATE
- User can select the option whether EzDent-i will be updated automatically or manually.
- In case of [Auto], EzDent-i is updated automatically to the latest version of EzDent-i by VTPatchManager.
- In case of [Manual], EzDent-i is updated when user click the [Update Now] button. If User doesn't want to update EzDent-i, set this to [None].
- 4. USER ACCOUNT MANAGER

Log in with the admin account to add, modify, or delete the user accounts. The user accounts are managed under the [Settings > Environment > General > USER ACCOUNT MANAGER] option.

Restrictions on Authority by Account Types

Depending on the type of user accounts, restrictions on authority apply as below.

Account	Restrictions on Authority
Master Admin	None
Admin	None
Doctor	User Account Manager, Delete Data, Edit Consult Contents
Staff	User Account Manager, Delete Data, Transfer Data, Edit Consult Contents

- When registering a patient, you can assign an ID with the doctor account to the patient as the doctor in charge.
- If a doctor ID has been changed, the doctor ID saved in the patient information also changes.
- If a doctor ID is deleted, the doctor ID saved in the patient information is also deleted.

- When you assign 2 doctor IDs to the patient information and deleted one of them, the other ID remains on the patient information.
- Login/ Logout Option

When using the login option, you must enter the password to run the EzDent-i program.

In LOGIN	×
ID Master Admin Password	)
OK Cancel	

The logout option is only activated when you are using the login option. After the set logout time has passed, the program is automatically logged out.

Password Setting

EzDent-i requires password to delete the contents or the registered patients. The initial password is numbers 0000. Password must be at least 10 characters in length and contain at least one upper case, lower case, numeric character, and special character (excluding wihtespace). Users can change the password policy in EzServer settings. Users can set the password expiration in EzServer settings. The default value of expiration date is set to 180 days.



- Users may change the EzServer settings as below.
   Enter <u>http://localhost:43112/settings</u> into the address bar of the Internet to set the file server and DB server. (<u>http://localhost:55005/settings</u> for EzServer less than v4.0)
  - Go to Other Setting in the Server Control Panel and click [Open in Browser] button to access to the sever setting window.

Entering incorrect password for 10 times will deactivate the account. To reactivate the account, reset the password using Master Admin or contact Customer Support Center.

## 3.2 Database

SETTINGS							×
	General	Database	Patient	Ĩ	Linkage/E-Mail	Practice Information	n
	Server						
Acquisition	Address 127.0.0.1			ort 43112			
		Search Server					
Viewer	EZPICKER EzPicker IP Address						
Simulation	127.0.0.1			) Use	0	0 None	_
Consult							
Report							
Service							
Others							
Initialize Setting	gs				ОК	Cancel	

#### 1. Server

Enter the EzServer address. To search the address, click on the [Search Server] button.

2. EZPICKER

EzPicker is a program that can link a third party PMS with EzDent-i. In the EzPicker box, enter the IP address of the PC that Ezserver is installed. For more details, please refer to the Service Manual.

## 3.3 Patient

SETTINGS					>
	General	Database	Patient	Linkage/E-Mail	Practice Information
	CHART NUMBERING	3			
	Automatic				
Acquisition					
	PATIENT NAME OP1 Display Type of Pati				
Viewer	LastName FirstN	ame	•		
	RECENT PATIENTS L	IST			
Simulation	Default List View		Display	/ Limit	
	Recently Acquire	ed	▼ 15		•
Consult	Automatically Show	Patient Images			
Consuit	Enable		•		
Report					
Service					
Others					
Initialize Set	tings			ОК	Cancel

#### 1. CHART NUMBERING

Determine whether a chart number is to be generated automatically or entered manually during patient registration. Check the box for a number to be generated and entered automatically.

#### 2. PATINET NAME OPTION

Specify the patient name format.

- 3. RECENT PATIENTS LIST
- [Default List View]: Set how to list the patient in the Patient List when launching the program. You can set to list patient by the acquisition date or viewed date.
- [Automatically Show Patient Images]: When enabling the [Automatically Show Patient Images] option, the images of a selected patient are displayed on the right pane automatically after launching the program. When disabling the [Automatically Show Patient Image] option, the images of a selected patient are not displayed automatically, and users should double click the patient to display the images.

## 3.4 Linkage/E-mail

	General	Database	Patient	Linkage/E-Mail	Practice Information
	LINKAGE				
	3D Viewer		30 \	liewer Path	
	Ez3D-i			ls\VTIMSInBridge\VTIMS	
Acquisition	EZ3D-I		• [100	is (v Hivisinbridge (v Hivis	InBridge64.exe
	Second 3D Viewer		Seco	nd 3D Viewer Path	
	None		<b>•</b> ]		
/iewer	Third 3D Viewer		Third	3D Viewer Path	
	None		-		
imulation	Cephalometric An	alysis Software	Anal	ysis Viewer Path	
	Orthovision		•		
Consult	Data Group		3D N	flesh Data Viewer Path	
Lonsuit	🗹 Use				
	E-Mail SENDER IN	FORMATION			
Report	E-Mail Address		SMT	P Server Address	
	ex) example@ew	oosoft.com			
ervice	Password	Name	Port	S	ecurity
			25		Auto 🔻
				Test	
Others				itat	

Set up the 3D Viewer integration and Email setting.

- 1. LINKAGE
- When double clicking a 3D image, the patient image appears in 3D through a 3D viewer that is already linked. The user can select a 3D viewer to display a 3D image.
- EzDent-i is linked with Ez3D-i, VATECH's 3D Imaging Viewer. In case that Ez3D-i is installed, Ez3D-i is opened when a user selects a CT image in VIEWER Tab. If another 3D Imaging Viewer is linked, set the location of its exe. file.
- If the user needs to use multiple 3D Viewers, specify the path at Second/Third 3D viewer area in the subsequent fields.
- Click and select the check box of [Use] for the [Grouping of 3D Orthodontic Data] option to group the 3D orthodontic data.
- Analysis Program (Ceph Analysis Software)
   EzDent-i can be linked with a 2D Cephalometric Program. The three programs which can be linked with EzDent-i are EzOrtho, OrthoVision or V-Ceph. Set the location of program of 2D Cephalometric Program in this field.
- If the [Data Group] option is set to [Use], you can group and use the 3D orthodontic data. (There should be saved CT images for data grouping.)
- 2. E-MAIL SENDER INFORMATION

When sending a patient image or a report through email, enter the information of the sender. Enter the E-mail address and the password for that account, then enter the name of the sender in the Name field. Test the email link by clicking the [Test] button.

- The following information will be automatically filled when the user is using the domain that is predefined by EzDent-i (Gmail, Yahoo, Daum, Hanmail, Naver, Hotmail, AOL, Nate, Outlook)
  - SMTP Server Address, Port, Security

 After inputting email information, click the [Test] button to check if it operates normally.

### 3.5 Practice Information

SETTINGS						×
	General	Database	Patient	Linkage/E-Mail	Practice Information	
	PRACTICE INFORM			U. C.		٦
	Practice Name		Websi	te		
Acquisition						
	Phone Number		Fax Nu	Imber	]	
Viewer	Address					
Simulation						
Consult						
Report	PRACTICE LOGO Text Adobe Devanag	ari	● Log	go Image		
Service						
Others						
Initialize Setting	S			ОК	Cancel	

#### 1. PRACTICE INFORMATION

Enter the clinic information. On the REPORT tab, the clinic information is displayed in the header or footer.

#### 2. PRACTICE LOGO

Once you input the text and upload the clinic logo image, it appears in the bottom left of the EzDent-i screen. For the text, it appear as the name of the clinic, and for the logo image, the uploaded image will be automatically adjusted to the ratio of 200x45. The registered logo will be used in the reports as an advertisement.



You can use PNG, JPG, BMP, TIFF format for the loge image. Regardless of the uploaded image size, it will be automatically adjusted to the ratio of 200x45.

## 4. Acquisition

## 4.1 Genaral

					×
General	Console Program	Direct	tory	SmartPay	
SAVE OPTION					
IO Sensor			IO Camera		
Manual		•	Manual		•
TWAIN					
Manual		•			
IO SENSOR OPTIC	INS				
Normal Resolut	tion	•			
IO CAMERA CAPT	URE KEY				
Space	Enter		Shift	Ctrl	
CALIBRATION					
Panorama			0.005		
Conhalo			0.005		
IO Sensor			0.005		
s				ОК	Cancel
	SAVE OPTION IO Sensor Manual TWAIN Manual IO SENSOR OPTIC IO Sensor Image R Normal Resolut IO CAMERA CAPT Space CALIBRATION	SAVE OPTION IO Sensor Manual TWAIN Manual IO SENSOR OPTIONS IO CAMERA CAPTURE KEY Space Enter CALIBRATION Panorama Cephalo IO Sensor	SAVE OPTION IO Sensor Manual TWAIN Manual IO SENSOR OPTIONS IO SENSOR OPTIONS IO Sensor Image Resolution Normal Resolution IO CAMERA CAPTURE KEY Space Enter CALIBRATION Panorama Cephalo IO Sensor	SAVE OPTION IO Sensor Manual TWAIN Manual TO SENSOR OPTIONS IO CAMERA CAPTURE KEY Space Enter Shift CALIBRATION Panorama 0.005 IO Sensor 0.005	SAVE OPTION IO Sensor IO Camera Manual Manual TWAIN Manual I IO SENSOR OPTIONS IO SENSOR OPTIONS IO SENSOR CAPTURE KEY Space Enter Shift Ctrl CALIBRATION Panorama Cephalo 0.005 IO Sensor 0.005

1. SAVE OPTION

Determine whether images captured with IO sensor or IO camera will be saved in the database automatically or manually.

For the manual setting, click the [Capture] button to acquire images. Select the images desired among the acquired images and click the [Save to DB] button and store the images in the database.

For the Auto DB Save setting, click the [Capture] button to save all acquired images in the database. For this reason, the Acquisition tab appears differently during image acquisition.

#### 2. IO SENSOR OPTIONS

When the image resolution is set to [High Resolution], the image acquired with equipment that supports high resolution will be saved in high resolution mode, but this [High Resolution] option will not affect the resolution of the images that are acquired with other general equipment.

#### 3. IO CAMERA CAPTURE KEY

Set the Keyboard key which can be used as the capture key for your IO Camera.

#### 4. CALIBRATION (Image Length Adjustment)

The set calibrated values can be automatically applied to the Panorama, Cephalo or IO Sensor images that are not calibrated. To apply the calibrated value, click the check boxes to show the checkmark.

### 4.2 Console Program

Input the path of the Console S/W that you're using for image acquisition. To synchronize the image acquisition program with EzDent-i, information should be entered as shown below.

SETTINGS							×
	General	Console Program	Direc	tory	SmartPay	·	
Environment		AM tting with Console Prog	ram.				
Acquisition	Console Program F	Path		Capture Captur	Message		
Viewer	Patient Information				File Path (.ini) dows/win.ini		
Simulation	DISPLAY ACQUISIT	ION BUTTON Panorama		Cephal	o	✓ Others	
Consult	IO SCANNER PROC File path of IO Scar			Capture	Message		
Report	Patient Information	n x64/IScanEmulator.ex n File Path(.ini) iging/PatientInfo.ini	e	Output I	n Captured File Path (.xml) can/Exchanging,	/Output.xm	I
Service							
Others							
Initialize Settir	ngs				ОК		Cancel

- 1. CONSOLE PROGRAM
- Sync Capture Settings with Console Program

If this option is checked, it reflects console program's settings including the Console Program Path, Capture Message, Patient Information File Path and Output File Path automatically.

The auto sync function is not supported when no or non-compatible version of console program is installed. In that case, the user needs to enter the following items manually.

Console Program Path

Enter the location of executable file. When the image acquisition program is set as default, the location should be 'C:/VCaptureSW/exe/VCaptureSW.exe'

Capture Message

When an image is acquired it sends a message. In case of the image acquisition program, input 'Captured' in the [Capture Message] field.

Patient Information File Path

In case of the image acquisition program, 'C:/VCaptureSW/exe/PatientInfo.ini' path should be entered

Output File Path

In case of the image acquisition program, 'C:/VCaptureSW/Output.ini' should be entered.

2. DISPLAY ACQUISITION BUTTON

Disable or enable the acquisition buttons inculing CT, Panorama, Cephalo and Others on the Acquisition Tab.

3. IO SCANNER PROGRAM

Enter the location of executable file. When the IO scanner program is set as default, the location should be 'C:/I-Scan A/Ez-iScan x64/Ez-iScan.exe'.

Capture Message

When an image is acquired it sends a message. In case of the IO scanner program, input 'Ez-iScan Captured ' in the [Capture Message] field.

Patient Information File Path

In case of the IO scanner program, 'C:/I-Scan A/Exchanging/PatientInfo.ini' path should be entered

Output File Path

In case of the IO scanner program, 'C:/I-Scan A/Exchanging/Output.xml' should be entered.



The recent changes on file path or filename of the console program may not be reflected in this manual.

## 4.3 Directory

SETTINGS					×
	General	Console Program	Directory	SmartPay	
Environment	IMPORTING OPTIC	IN TO DSLR IMAGE			
	Auto Import				
Acquisition		O Not Use			
	DSLR Eye-fi Path			nages in folder al Delete	
Viewer					
Simulation					
Consult					
Report					
Service					
Others					
Others					
			_		
Initialize Setting	s			ОК	Cancel

When using DSLR, you can change the setting to import the images from the specifically set folder. Change the [Auto Import] option to [Use], and specify [DSLR Eye-fi Path].

## 4.4 SmartPay

SETTINGS					3
	General	Console Program	Directory	SmartPay	
Environment	SMARTPAY				
	SmartPay UI		Paymen	t web page URL	
	O Use	O None			
				Test	
Viewer	SMARTPAY USER	ACCOUNT			
	ID	ALSO VITI	Passwor	d	
Simulation					
				Test	
Consult	-				
consur	-				
Report					
Report					
Service					
Others					
Initialize Set	tings			ОК	Cancel

1. SmartPay UI

When the [SmartPay UI] option is set to [Use], the acquisition button in the Acquisition tab changes for SmartPay, and the [Sync Payment System] is added to the Main menu.

Input 'https://smartpay.vatech.biz/' in the [Payment web page URL] field.

2. SmartPay User Account

Enter the User Account information to use the SmartPay function. The user should create a user ID and password on the Vatech Korea web page (www.vatechkorea.com).

SmartPay is only available for the users in Korea.

## 5. Viewer

### 5.1 General

	General	Tools	Measurement	Annotation	Memo Preset
Environment	WINDOWING	TOOIS	weasurement	Annotation	Ivieno Preser
	Windowing Option		Window	Width	
Acquisition	DICOM Tag		•		
			Window	Level	
/iewer					
i cwci	OVERLAY				
	Patient InformationO	n/Off_Presentation	n Mode		
Simulation	Patient Informatio	n On	-		
	-				
Consult	RATIO ON SCREEN				
	IO Sensor Image		IO Cam	era Image	
	Fit		▼ Fit		-
Report	Captured Image				
	Fit		-		
Service					
Others					
others					
				<u></u>	
Initialize Set	ttings			OK	Cancel

#### 1. WINDOWING

When applying the windowing effect of the DICOM file to an image, select the [DICOM Tag] option to generate the values automatically, or select the [User Define] option to manually enter the windowing values. EzDent-i recommends applying the windowing effect with the value read from the DICOM Tag file.

#### 2. OVERLAY

Set the default setting of the [Patient Information Show/Hide] function on the Presentation mode.

#### 3. RATIO ON SCREEN

Select the size of the IO sensor image, IO Camera Image, and Captured Image which appears in the image view.

For example, when [Fit] is selected from the list, the image is fitted to the window size in the image view. When the Ratio on Screen\_IO sensor image is set to [40%], screen appears as shown below.







Set as 40%

### 5.2 Tools

SETTINGS	General	Tools	Measurement	Annotation	Memo Preset
Environment	MAGNIFIER	10.000	(		
	Magnifier Size				
Acquisition	300X300		•		
	GRID				
	Spacing		Line Colo	or	
	10mm				
	Line Thickness		Line Opa	icity	
Simulation	1рх		▼ 70%		•
Consult	INSIGHT				
	Navigator Size				
	300X300		•		
Report					
	-				
Service					
Service					
Others					
	-				
Initialize Set	tings			ОК	Cancel

#### 1. TOOL → Magnify & Enhance View Size

Adjust the size of the [Magnify Enhance] tool in the VIEWER tab. Adjust the size of the magnifying glass to enlarge a part of the image.





#### 2. GRID

Set the default values of grid that is used to check the asymmetry of patients on the VIEWER or CONSULT Tab. You can set the spacing, line color, line thickness or the line opacity of grid.

3. Insight

Set the default size of navigator that is used when viewing multi-framed images on the Viewer Tab.

## 5.3 Measurement

Set the properties of the [Measurement] tools shown in the VIEWER tab. Set the color and the thickness of the line drawn from the tools.

SETTINGS					×
	General	Tools	Measurement	Annotation	Memo Preset
Environment	MEASUREMENT UNI	т			
	• Show	O Hide			
Acquisition	MEASUREMENT				
	Angle Color		Profile (	Color	
	Length Color		Font Siz	e	
Simulation			14		•
			Measur	ement Line Thickness	
Consult			1px		•
Consult					
Report					
Service					
Others					
Initialize Settin	gs			OK	Cancel

### 5.4 Annotation

Set the properties of the [Annotation] tools shown in the VIEWER tab. Set the color of the line and the font size, etc.

SETTINGS					
	General	Tools	Measurement	Annotation	Memo Preset
Environment	ANNOTATION		v	,	
Acquisition	Line Type		Line Co	lor	
Viewer	STUDY INFORMATI Font Size 16	ON	Font Co	olor	
Simulation	MEMO				
Consult	Memo Line Type	Color	- •	Line Color Background Opacity	
Report			20%		•
Service					
Others					
Initialize Settings	;			ОК	Cancel

### 5.5 Memo Preset

Save frequently used phrases when using the memo tool from the VIEWER tab.

SETTINGS					
	General	Tools	Measurement	Annotation	Memo Preset
Environment	PRESET MEMO		, 	*	
	• Use	None			
Acquisition	PRESET WORDING				
	Preset 1		Preset	>	
	Caries		Suspe	_	
viewer	Preset 3		Preset 4	4	
	N.A.D		First V	/isit IO Sensor	
Simulation	Preset 5		Preset	6	
	Bone Loss		Absen	t	
	Preset 7		Preset	В	
Consult	Ectopic				
	Preset 9		Preset	10	
Report					]
Report					
Service					
Others					
Initialize Set	tings			ОК	Cancel

- 1. Input a random phrase (e.g. Tooth Extraction Case) to [Memo Preset > PRESET WORDING] and click the [OK] button at the bottom of the [Settings] window.
- 2. Move to the VIEWER tab and click the [Annotation > Memo] icon on the tool bar.
- 3. Click on the image where the user wishes to leave memo. The saved phrases in [Preset Memo] appear in a list and click the desired phrase to insert on the image.



## 6. Simulation

### 6.1 General

SETTINGS					×
	General	Preset Implant			
Environment	CANAL				
Acquisition	Default Diameter		¥	Default Color	
Viewer	Opacity 100%		•		
Simulation	IMPLANT Implant Color			Implant Insert Option Auto	•
Consult					
Report					
Service					
Others					
Initialize Settin	gs			ОК	Cancel

#### 1. CANAL

Set the properties of the [Draw Canal] feature under the VIEWER tab.

2. IMPLANT

Set the properties and insertion methods of the [Implant] feature under the VIEWER tab. In case of [Auto], user can insert the implant automatically at the specific location according to the user specified number. In case of [Manual] user can locate and insert the implant manually.

### 6.2 Preset Implant

To insert the implant, click [Insert Implant] under the VIEWER tab. The basic information for each implanted tooth is already set. In this setting, you can change the implant information. Perform the following steps to change.

1. Select the tooth considered for placing an implant and click the [Modify] button. The [EDIT] window appears.

IMPLANT S	ET											
17 🔰 16	15	14	13	12		21	22	23	24	25	26	<sup>20</sup> 🐰
47 📝 46	1 45	44	43	42	41	31	32	33	34	35	35	37

2. Select the implant company and line up of the implant to edit.

npany ser	•	Line-Up Model	
ltem	Occlusal	Apical	Length
Defined2	3.50	3.30	11.00
Defined3	3.70	3.50	10.00
Defined4	3.70	3.50	11.50
Defined5	4.10	3.75	11.00
Defined6	4.10	3.75	12.00

**3.** The information and image appear based on the selected implant properties. Click the [OK] button to change the default type of implant.

Click the checkbox of the [Set as default for all teeth] option to make the modified implant as the default implant for all teeth.



If the EDIT window does not appear, install ImplantDB. ImplantDB installation is described at 'Chapter1. Installating EzDent-i'.

## 7. Consult

## 7.1 General

Change the properties of the [Pointer] tool (  $\checkmark$  ) on the Consult tab. Set the line thickness and color of the [Pointer] tool on the Consult tab.

					×
Environment	General				
Acquisition	Pointer Thickness 2	•	Pointer Color		
Viewer					
Simulation					
Consult					
Report					
Service					
Others					
Initialize Set	tings		C	K	Cancel

## 8. Report

### 8.1 General

User can change the properties of the image box and the text box of Report tab, and show or hide ruler from the screen.

	General	DICOM Print	Tes		
invironment	RULER		160	44.	
cquisition	Show     TEXT BOX	O Hide			
iewer	Fonts Arial		•	Font Color	
imulation	Font Size 11 Text Alignment		*	Background Color	
onsult	Left		•	Boundary Line Color	•
eport	IMAGE BOX Boundary Line Styl			Boundary Line Color	
ervice		10	- •	Background Color	
Others					

To change the properties of the box, right click on the Text or Image box and select [Property] in the menu list.

## 8.2 DICOM Print

Set Dicom Print to register, adjust, delete and settings.

	General	DICOM Print	Text		
nvironment	DICOM PRINT				
cquisition	O Use	© None			
equisition .	PRINTER SETTINGS				
/iewer	Add	Modify		Delete	Calibration
newer	AE Title	IP A	ddress	Port	Size
	-				
Consult					
Report					
Consult Report Service Dthers					

## 8.3 Text

The frequently used words can be saved in Text. The saved words will be selected by right clicking. Refer to 'Chapter 8. The REPORT Tab' for more information.

SETTINGS					
Environment	General	DICOM Print	Text		
Acquisition					Add Modify
Viewer					Delete
Simulation	TEXT				
Consult					
Report					
Service					
Others					
Initialize Set	tings			ОК	Cancel

## 9. Service

## 9.1 General

To use SERVICE tab, it should be connected to teleradiology service called vatech hub. Enter the URL of vatech hub. (www. vatech-hub.com)

SETTINGS				×
	General			
Environment Acquisition	Dental Service Marketpla Website URL	ce		
Viewer	Service Plugin Show	O Hide		
	- 5HOW	- Hide		
Simulation				
Consult				
Report				
Service				
Others				
Initialize Setting	5		ОК	Cancel
	order to automa	atically download a	nd save results from	vatech hub to EzSer
	er's ID and pass	sword must be sav	red to TRAgent.	

## 10. Others

## 10.1 Privacy Policy

SETTINGS				×			
	Privacy Policy						
Environment							
	Privacy Policy Setting						
	C Enable O I	Disable					
Acquisition	Anonymize Information Displayed on Screen						
	🗌 Name	Date of Birth	🗌 Phone				
Viewer		🗌 Age	🗌 Mobile				
	🗌 Patient Photo	🔲 Gender	🛄 E-Mail				
Simulation							
	Anonymize Patient Information						
		🗌 Send E-Mail	[]] Service				
Consult							
Report							
Service							
Others							
Outlets							
Initialize Settin	ngs		OK	Cancel			

1. Privacy Policy Setting

Set whether privacy policy function is used or not. Only when this field is set to [Use], the fields below are activated.

2. Anonymize Information Displayed on Screen

Select which patient information is to be anonymized on the screen.

Only the selected items will be displayed will be replaced with asterixes("\*")

Note: This does not affect the user's input when searching for patients or adding/editing patient information.

3. Anonymize Patient Information

Users may choose to anonymize patient information when using any of the following functions. EzDent-i does not provide users with the ability to anonymize specific user information.

If the function is not selected, EzDent-i will not display the option to anonymize patient information in the user interface.

## 11. Initialize Settings

To set the Settings of EzDent-i back to the initial state, users can click the [Initialize Settings] button. Other than the items in the Database tab, all settings will be back to initial values. Thus, users should be careful before clicking the [Initialize Settings] button.

SETTINGS							×
	General	Database	Patie	ent	Linkage/E-Mail	Practice Information	
Environment	GENERAL SETTINGS						٦
	Settings Location			-			
Acquisition	• Local	Server			Sync Settings		
	GENERAL						
Viewer	Language			Teeth Co	ode		
	English		•	FDI Sy	ystem	•	
et 1.1	Font			Dose Ur	nit		
Simulation	Segoe UI 🔹		•	dGycm² 🔻			
							-
Consult	PROGRAM UPDATE			USER AG	COUNT MANAGEMI		
	None	▼ Update N	Now		Manag	er	
Report							
Service							
Others							
Initialize Setting	s				ОК	Cancel	
# Chapter 3. EzDent-i Basics

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### 1. Starting EzDent-i

1. Double click the EzDent-i icon on the desktop. The launching window appears and EzDent-i is opened.



2. EzDent-i is opened and the first screen appears.

Main Menu EzDrici			арона – з к арона – закака / 2 холого димии Дове Зан
ELECH ELECTRIC LET ELECTRIC LET PARENTS LIST Recently Acquired LECENTRY Acquired LECENTRY Viewed	Name Do Sendor/Ago Fer	230323_162522 e Jane nale/23Y3M /27/1597 Mone Details	0 Ibs At * 0 Moony At *
crós v	Own         Harr           2000003119122         Soc Daniel           2000017110117         Soc Daniel           200001710017         On Russ           200001511600         To Ni A           2000015115015         Le Sonie           2000015115015         Le Sonie           2000015116017         Her Ween	Dete of 6im 62/27/997 10/38/2000 61/14/959 61/07/2000 10/28/2000 67/12/1586	Server         30 Point         30 Point         30 Point

3. To run EzDent-i normally, EzServer must be running on the Server PC.

The operation of EzServer can be checked from the Tray icons in the lower-right corner of the desktop.

If any error message related with VTFileManager appears, check if VTFileManager is on.



EzWebServer Service is OFF

Right click on the tray icon to open Server Control Panel or to turn on/off EzWebServer Service.

## 2. Exiting EzDent-i

To exit EzDent-i, click the Exit button in the upper right corner of the EzDent-i screen.



### 3. EzDent-i Main Menu

Through the main menu, users can easily manage saved images for Open, Export or applying image processing. Also, Settings that will be applied to EzDent-i can be controlled through the main menu. To verify the detailed features of the main button, click the main button, then, the list appears.

EzDent-i		
Main Menu EzDent-i	PATIENT ACC	Main Menu EzDent-i
SEARCH  Search +  RECENT PATIENTS LIST  Recently Acquired  Recently Viewed		Open Export Export CT File Export to 3rd party Analysis File Information Settings
DOCTOR All	Chart No. 20200323_162522 20200427_112312	FMX Layout Editor About

#### 3.1 Open

Users can open images saved in the local PC by selecting Open from the main menu button.

1. On the VIEWER tab, click the main menu button and select [Open] to open an image on EzDent-i. When [Open Image File] window appears, select an image that will be opened in VIEWER tab.



2. The open image is displayed in the Workspace.



#### 3.2 Export

Users can export images saved in EzDent-i to their local PC or CD/DVD.



- 1. Click the main menu button and the click the [Export] menu or click [Export] icon(
- You can also export images to export from PATIENT tab by right-clicking on the image and selecting the [Export] option.



It is possible to select multiple images by holding the Ctrl key on the keyboard and clicking the desired images and export them.



- If you export multiple images at the same time, all images will be saved into the same file format such as BMP, JPG, PNG and TIF as well as the original file format.
  - 2. When the [EXPORT] window appears, click and select the file type.

O Local Disk		D CD/DVD	
22_8888_47613417		dom.	
File ver		ti-Frame Image	
-	Compress	to .zip file	
	Password		
		Show Password	
nonymization		Show Password	
	22_8888_47613417 File	22_8888_47613417 File File Compress	22_8888_47613417 dom File Attach Multi-Frame Image rer Compress to .2ip file

- Save File Type
  - [Local Disk] option allows for the images to be exported to the local PC.
  - [CD/DVD] option is available to export the image onto a CD by burning the images.
- Other Options
  - [Add Simple Viewer] option is to export image with the patient information.
  - [Add Image Info File] option is to export image as well as export image information to text (.txt) files.
  - [Add Multi-Frame Image] option is to export data including multi-frame image.
- Checking [Compress to .zip file] allows you to [Export] all files (images, patient information) as a compressed file (.zip).
  - put a password during the [Export] process to password-protect the exported file.
  - Password can be entered up to 12 digits.

NOTE	C	ouble click o		8	hen select [Rename] and modify le name.
	lf a tł	you have ch nd [Export] is	s one of the opt	e Privacy Policy ions chosen und	Settings (found in [Settings > Other der [Anonymize Patient Information] [Export] function.
	Γ	Save File Type	Local Disk	CD/DVD	
		DX20180122_16152	22_8888_47613417	dcm	
NOTE		Add Image Info F		ttach Multi-Frame Image	
		File Format Original		Compress to .zip file	
			,	Show Password	
			nonymization		

**3.** When the [Local Disk] option is selected, the [Export] window appears to choose the location where exported images should be saved.

T Export		×
$\leftarrow$ $\rightarrow$ $\checkmark$ $\bigstar$ This PC $\Rightarrow$ Documents $\Rightarrow$	✓ ♂ Search Documents	Ą
Organize 🔻 New folder		EE - ?
🐢 Saved Games	^ Name	Date modified ^
🔎 Searches	&\$'86CZ	5/25/2020 8:18
📑 Videos	Add-in Express	10/21/2019 1:3
💻 This PC	Custom Office Templates	9/16/2019 3:27
3D Objects	My Received Files	2/19/2020 10:3
Desktop	OneNote Notebooks	2/19/2020 10:3
Documents	Samples	4/28/2020 11:4 ¥
Folder	Select Folder	> Cancel

4. When the [CD/DVD] option is selected, the [DISK BURNER] window appears.

Disk Burner				
Volume Label				
130611_203333				
Device				
D:\ DVD A DS8A5LH				•
Disk Type		Speed		
Unknown Media Type		•		•
Data Size				
0			1	ИВ
Eject After Burning	Close Media		Burn	
				0%

- 5. After inserting empty CD/ DVD RW, select the disc option from [Disk Type]. If data exists on the CD/DVD RW, it deletes the existing data and rewrites over the data.
- 6. Click [Burn] to proceed with CD/ DVD burning. If data exists on the CD/DVD RW, the following error message may appear or the CD-ROM driver may eject the CD/DVD RW.



7. When images are completely exported out of EzDent-i, Folder is created in the CD/DVD or local PC.

### 3.3 Export CT File

CT images saved in EzDent-i can be exported out of EzDent-i as CD/DVD or file type.

1. After selecting a CT image to export, click the main button and then the [Export CT File].

You can see the download status with the [DOWNLOAD] window.

	DOWNLOAD	×
	Jncompress Files	
-	Files	
		27%
	1/1	
I F		0%

2. The [EXPORT] window appears. Click and select the [Save File Type] option.

<ul> <li>Local Disk</li> </ul>	© CD/DVD	
	dam	- fi
	dati	0
	dam	
	dan	
	dan	
	dan	
	idem	
* = 0	ompress to .zip file	
8	assword	
	Show Passwo	
ymization		
Do not apply		
	rmization	don don don don don me don don don don me don don don don don don don don don don

Users can either save CT file to local disk or export to CD/DVDs.

**3.** Checking [create zip file] allows you to [Export] all files (images, patient information) as a compressed file (.zip).

Input a password during the [Export] process to password-protect the exported file.

Password can be entered up to 12 digits.



#### 3.4 Analysis

To open a cephalometric analysis program such as EzOrtho, OrthoVision or V-Ceph, select the Analysis in VIEWER Tab. If the Analysis program is installed and linked in Settings, it will run automatically.



In order to link the Analysis Program, refer to the '2. EzDent-i Set Up  $\rightarrow$  2. Environment  $\rightarrow$  Linkage/E-Mail'.

#### 3.5 File Information

When users need to verify the image information of patient image, FILE INFORMATION option can be selected through the main menu.

1. In PATIENT tab, click the image on image which needs to be verified.



- 2. Select [File Information]
- Right click on the image and select File Information to arrive at the same window.

Cephalo	)
	Image Edit
	Copy to Clipboard
01/	Export
Panora	Export to 3rd party
	Send E-mail
100	Send Report
	Transfer Image
	File Information
01/	Delete

Click the main menu and select the [File Information] menu.

Main Menu EzDent-i
Open
Export
Export CT File
Export to 3rd party
Analysis
Settings
FMX Layout Editor
About
Help

3. The [FILE INFORMATION] window appears.

Encoding Name			
None	•	J	
PATIENT INFORM	NATION		
Chart No.	20180122_152511	Gender	F
Name	Ewoosoft^Female	Age	031Y
FILE INFORMATI	ON		
File Type	DCM	Dimension	2592 x 2252 x 1 pixels
Resolution	0.087 x 0.087 mm	Data Size	11.135 MBytes
Modality	Cephalo	Position	PA
ACQUISITION IN	IFORMATION		
Date	01/22/2018 16:15:22	kVp	88
Dose	0.379 dGycm <sup>2</sup>	mA	14.00
		_	

- When it comes to DICOM image, the patient information in the DICOM header file is displayed on the [FILE INFORMATION] window.
- In case that the type of the selected image is DCM (DICOM), File Information could differ from the patient record. This is because file information from the selected image is displayed based on header information of DICOM file.

Chart No.	20200323_162522	
Name	Doe Jane	
Gender/Age	Female/23Y1M	
Date of Birth	03/27/1997	
	More Details	
	Gender/Age	

#### 3.6 Setting

For information about changing settings, refer to 'Chapter 2. Setting Up EzDent-i'.

### 3.7 About

ABOUT	X
Version	Open Source License Info
ver.3.1.0.0 Console	1.DCMTK
Company	COPYRIGHT
EWOOSOFT Co., Ltd.	Unless otherwise specified, the DCMTK software package has the following copyright:
Activated as trial version. 73day(s) left until it expires.	Copyright (C) 1994-2011, OFFIS e.V. All rights reserved.
Available modules : Patient/Acquisition/Viewer/Consult/Report/ Twain/DicomPrint/DAVIS	This software and supporting documentation
	Copyright (C) 2013 by Ewoosoft Co., Ltd. All rights reserved. Warning: This software is protected by copyright laws and international treaty provisions. The act of copying or distributing part or all of the software without prior written permission is strictly prohibited by criminal and civil law and
(01)08800019700197	copyright violations will be prosecuted. Important Notice : The implant models included in the database of
Activate Deactivat	еОК

The [About] menu shows information of currently installed EzDent-i.

To activate the license, refer to 'Chapter 1. Installing EzDent-i -> 6. EzDent-i License Activation'.

## 4. EzDent-i Help

?

The help document provides detailed information on how to use EzDent-i.

1. Click the [Help] icon on the toolbar to view the help document.



# Chapter 4. PATIENT Tab

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### 1. Configuring PATIENT Tab

This is a tab for patient management. From here, Users are able to manage a patient's information and images.

#### 1.1 Workspace



A: These Buttons are for adding, modifying and deleting patient information.

- B: SEARCH pane is used for searching for a patient or sorting patients by acquisition date or searched date.
- C: When registering patients, the patients who are assigned to the currently selected doctor are listed.
- D: When the [Search] button is clicked in the B, the search results are listed.
- E: The detailed information of the selected patient is displayed.
- F: The images of the selected patient are displayed.
- G: The reports of the selected patient are displayed.
- H: The chart number, name, and age of the selected patient are displayed
- I: User can adjust the size of the searched image through the thumbnail slider at the bottom right of the viewer window.

### 2. Patient Searching

### 2.1 Searching for Registered Patient

1. Enter the name or chart number of the patient in the Patient Search window and click the [Search] button or press the Enter key. The search results appear.

Main Menu EzDent-I	PATIENT ACQUISITION VIEWER CONSULT REPORT	ERVICE
SEARCH Search + RECENT PATIENTS LIST Recently Acquired Recently Viewed	Chart No. 20200323 143522 © Date Name Deckine Consort Gender/Age Fense(2315M Date of Birth 03,027,1997 More Details	All  Moselity All
DOCTOR All	Chairt No.         Name         Date of Birth         DSLR           20200323_162522         Diek Jame         05/27/1997         05/27/1997           20200427_112312         Seo Dietham         10/08/2000         05/08/2000	

 Click the keyboard icon in the search box and the on-screen keyboard appears. Use the on-screen keyboard for searching a patient quickly and easily.

SEARCH	
[]	n by ALL Ber – Den Den Gen, fan Sen fan Jan (an fan fan fan fan fan fan fan fan fan f
(	Tab $q =                                      $
Search	Caps a s d f g b h h t k k l f f f h h h h h h h h h h h h h h h h

- Type the initials of saved name to search for patients. (Ex: Type "A, H" in the Search window for Audrey Hepburn)
- 2. Click the patient in the search result list to view the detail information about the patient.



#### 2.2 Advanced Patient Searching

The advanced search can result more comprehensive search outcomes through the combination of searching by imaging mode and by date.

1. Click the [+] button on the right side of [Search] button. The [SEARCH FOR PATIENT] window appears.

	SEARCH FOR PATIENT	>
	Select Modality Select Dat	e
	All Modalities	Today
SEARCH	Panorama Ye	esterday
	Cephalo	3 Days
	CT Lá	ast Week
Search +	IO Sensor La	st Month
	IO Camera	User
	Others A	II Dates
	Search Cano	:el

- 2. Select the desired condition for searching and click the [Search] button. The results meeting the search conditions appear.
- **3.** When selecting the patient, the patient information will change to the selected patient in the current tab.

#### 2.3 Viewing Recent Patient List

The patient list can be sorted by the acquisition date or the viewed date in the Viewer tab.



- Recently Acquired: Lists the patients by the date of acquisition.
- Recently Viewed: Lists the patients by the viewed date in the Viewer tab.

### 2.4 List of Patients by Doctor

When selecting a doctor name, the patients assigned to the selected doctor are sorted and listed.

DOCTOR	
All	<b>^</b>
All	
Doctor A	
Doctor B	
Doctor C	
None	

- All: Lists all of the registered patients.
- A specific doctor: Lists the patients assigned to the selected doctor.
- None: Lists the patients not assigned to any doctor.



- The user can add, modify, or delete the doctor list at [Settings > Environment > General > USER ACCOUNT MANATER].
- Only the doctor names created with the doctor account are shown on the doctor list.

### 3. Editing Patient Info

#### 3.1 Registering a New Patient

1. Click the [Add Patient] icon from the toolbar. The [ADD PATIENT] window appears.

	Chart No.*	20200525_120829
рното	Name* Gender Date of Birth	Last Name First Name Male Month Day Year 2020
Doctor 1	None	Doctor 2 None
Social ID		
Phone		
Mobile		
E-Mail		
Zip Code		
Address		

- 2. Enter the patient information to the Add Patient window and click the [Add] button. The required information includes the chart number, name, and e-mail address. For other information such as the manual input of the chart number, changing the order of the name (first and last name, or vice versa) and e-mail settings can be found on '2. Setting up EzDent-i'.
- The chart number is entered automatically, but the user can edit the chart number using alphabets, number, and '\_'. If you type alphabets in lower case, they automatically change to upper case letters, and the chart name will be saved in upper case letters in DB.
- The doctor information is required when searching for patients by doctor. In case of not assigning a doctor, it is displayed as 'None'.
- The fields for the first and last name are required.
- E-mail address of the recipient is required when the Report tab sends an email. For optional information, you can add the Social ID, phone number, email, Zip code, and address.



- The user can add, modify, or delete the doctor list at [Settings > Environment > General > USER ACCOUNT MANATER].
- Only the doctor names created with the doctor account are shown on the doctor list.
- 3. After the completion of this process, the patient appears in the patient search list. The patients added though the PMS linkage with EzBridge and Linkage.xml are displayed at the top of the patient list.
- When clicking [Hide the displayed patient Information], the patient information, patient list and image list displayed on screen are hidden. To set it back as before, search a patient using [Search] feature.

### 3.2 Viewing Registered Patient Information

To view the detailed information about the selected patient in the Patient Tab, click the [More Details] button. The [PATIENT INFORMATION] window appears.

			PATIENT INFORMATION				>
				Chart No.*	20200323_162522	2	
					Last Name	First Name	
	Chart No.	20200323_162522		Name*	Doe	Jane	
	Name	Doe Jane		Gender	Female		•
	Gender/Age	Female/23Y1M			Month	Day	Year
	Date of Birth	02/27/1007		Date of Birth	3 💌 27	1997	-
	Date of Birth	03/27/1997					
		More Details	Doctor 1	None	Doct	or 2 None	*
			Social ID				
Chart No.	Name	Date of Birth	Phone				
20200323_162522	Doe Jane	03/27/1997	Mobile	010-1234-567	78		
20200427_112312	Seo Daehan	10/08/2000	E-Mail				
20200121_095217	Kim Ewoo	01/13/1999	Zip Code				
20200525 165605	Tino Nick	01/01/2000	Address				
					Close		

Right click the chart number and the [Copy the chart number] menu appears. Click this menu to copy and paste the exact chart number.



#### 3.3 Modifying Patient Records

- 1. Search and select the patient data to modify from the list of search results.
- 2. Click the [Modify] icon in the toolbar. The [MODIFY PATIENT] window appears.

	MODIFY PATIENT				×
		Chart No.*	20200323_162522		
			Last Name	First Name	
		Name*	Doe	Jane	
		Gender	Female		•
			Month	Day	Year
$\bigcirc$		Date of Birth	3 🔻 27	▼ 1997	•
¢2	Doctor 1 Social ID Phone Mobile E-Mail Zip Code Address	None	Doctor	2 None	
		Modify	Cancel		

**3.** Modify the patient information appropriately and then click the [Modify] button. The modified patient information has been saved.

### 3.4 Deleting Patient Records

- 1. Search and select the patient data to delete from the list of search results.
- 2. Click the [Delete] icon on the toolbar. The [DELETE PATIENT] window appears. Enter the password for deleting a patient record.

	DELETE PATIENT		Х
	Chart No.	20200323_162522	
	Name	Doe Jane	
		Enter the administrator password to delete the patient. All information and image data of the patient will be deleted.	
	Password		
		OK Cancel	

3. 'Succeeded to delete' message appears and the patient record is deleted.



The initial password of EzDent-i is '0000'. The user can change the password at [Settings > Environment > General > USER ACCOUNT MANAGER].

### 4. Exporting to Acquisition Information

The information such as exposure time, kVp, mA, DAP by patient, modality, and period can be exported. The [Export to acquisition information] function allows to check the number of acquisition by modality.

1. Select the [Export to acquisition information] icon on the tool bar.



2. Select the ID and enter the password. Click the [OK] button.

Cogin Login	×
ID	
Master Admin 🔻	
Password	
	]
OK Cancel	

3. The [EXPORT TO ACQUICISION INFORMATION] window appears. Select the PATIENT, Modality, and PERIOD, and then click the [Export] button.

PATIENT	<ul> <li>All Patient</li> </ul>	Selected Patient
Modality		
All	•	
PERIOD		
Today	O La	ast Week
C Last Month	O U	ser
05/25/2020	05/2	25/2020
Patient Informatio	n Anonymization	
<ul> <li>Apply</li> </ul>	© D	o not apply

- PATIENT
  - All Patient: Export acquisition information for all registered patient.
  - Selected Patient: Export acquisition information for selected patients.
- Modality: Select modality.
- PERIOD: Select period.

EXPORT TO ACQUISIT					$\frac{n \text{formation}}{\times}$	
PATIENT	• All Patient		O Selected F	Patient		
Modality						
All	•					
PERIOD					-	
• Today	(	🔍 Last W	eek			
Clast Month	(	🔍 User				
05/25/2020		05/25/20	20			
Patient Information	Anonymization					
Apply	(	🔿 Do not	apply			

**4.** Specify the name and the saving location for the acquisition list file, and click the [Save] button. The acquisition information is saved in an Excel file (\*.csv).

4	A	В	С	D	E	F	G	Н	I	J	K	L	М
1			'User Imag	ge List									
2	·												
3				DAP SUM	(dGyCm^2	2)							
4	Panorama		: 8	5.7056									
5	Cephalo		: 0	0									
6	CT		:1	6.3654									
7	IO Sensor		: 7	0									
8	IO Camera		:1	0									
9	Image Plat	e	:0	0									
10	DSLR		:0	0									
11	3D Photo		: 0	0									
12	Impression	1	:0	0									
13	Capture		: 2	0									
14	Other		: 0	0									
15	Total DAP	Sum	:	12.071									
16													
17	·												
18	'No	Chart No	Patient's N	Birthday	Social ID	Doctor	Image Typ	kVp	mA	DAP(dGy0	Exposure	Date	
19	·												
20	1	20150227	test1	01/01/201	5 00:00:00		Panorama	6	7 :	0.7132		02/27/2015	16:47:0
21	2	20150226	test1	01/01/201	5 00:00:00		Panorama	6	7 :	LO 0.7132		02/26/2015	15:18:4
22	3	20150226	test1	01/01/201	5 00:00:00		Panorama	6	7 1	0.7132		02/26/2015	14:46:0
23	4	20150226	test1	01/01/201	5 00:00:00		Panorama	6	7 :	LO 0.7132		02/26/2015	15:14:1
24	5	20150226	test1	01/01/201	5 00:00:00		Panorama	6	7 :	LO 0.7132		02/26/2015	15:15:5
25	6	20150226	test1	01/01/201	5 00:00:00		Panorama	6	7 1	LO 0.7132		02/26/2015	13:59:1
26	7	20150226	test1	01/01/201	5 00:00:00		Panorama	6	7 :	0.7132		02/26/2015	14:29:1
27	8	15	last name	12/31/195	1234567		IO Sensor	(	0	0 0		01/28/2015	17:18:3
28	9	15	last name	12/31/195	1234567		IO Sensor	(	0	0 0		01/28/2015	17:18:5
29	10	15	last name	12/31/195	1234567		IO Sensor	(	0	0 0		01/28/2015	17:19:1
30	11	15	last name	12/31/195	1234567		IO Sensor	(	0	0 0		01/28/2015	17:19:20
81	12	11	te st	01/01/201	5 00:00:00		IO Camera	(	D	0 0		02/27/2015	10:44:2
32	13	11	te st	01/01/201	5 00:00:00		Panorama	6	7 :	LO 0.7132		02/27/2015	10:45:50
33	14	11	te st	01/01/201	5 00:00:00		IO Sensor	(	0	0 0		02/27/2015	10:46:35

- Information that can be checked through the [Export to acquisition information] function : Chart Number, Patient name, DOB, Social ID, Doctor, Image Type, kVp, mA, DAP, Exposure time, and Date.
- The items without kVp, mA, and DAP information are displayed with the default value "0".
- DAP Sum is displayed to four decimal points and as the same value with the Excel Sum value.

### 5. Exporting Patient Information

Users can view patient information and export patient information as a .csv or .zip file.

1. Click [Export Patient Information] icon from the toolbar.



2. Enter ID and password to view patient information.

Field		Value	ſ
Last Name	Doe		
First Name	Jane		
Gender	Female		
Date of Birth	03/27/1997		
E-Mail			
Social ID			(
Phone			
Zip Code			
Address			
Mobile	010-1234-5678		
Compress to .zip file	5	Password	

3. Click [Export] button and set the path to export the patient information as a .csv file.



Checking [Compress to .zip file] allows you to [Export] all files (images, patient information) as a compressed file (.zip).

 Input a password during the [Export] process to password-protect the exported file.

### 6. Exporting

Users can export images saved in EzDent-i to their local PC or CD/DVD using [Export] icon from the toolbar.



Refer to 'Chapter 3. EzDent-i Basics > 3. EzDent-i Main Menu > 3.2 Export' for the details.

### 7. Data Group

2D and 3D images of a patient can be managed as a data group and the grouped data can be sent together to Ez3D-i.

1. Select the [Data Group] icon on the tool bar.



2. The [DATA GROUP] window appears. Select the [Add Data Group] button to create a new data group.

Add Data Group	File Grouping : Primary CT, Se	condary CT. 3D Photo. Panorama.	IO Scanner, Impression	
DataGroup_20200414_1112	48_1			
SR.				
Primary CT				
Prémary CT Date All <b>v</b>	towned			60
Date			04/14/02011-14-27	

3. Drag and drop the images at the bottom of the dialog to the boxes in the data group.



- Panorama image which is acquired with CT image is automatically allocated to the same Data Group with the CT and is unable to be deleted after automatic allocation.
- CT image already allocated as primary CT cannot be allocated as secondary CT.

 An error message occurs when the user adds more than two images with the same data type.

However, you can add more than two IO scanner images or impression images in the same data group.

4. Click the [Add Data Group] to add more data groups in the [DATA GROUP] Dialog.



- CT Image cannot be added to more than one Data Group.
- A data group will be deleted when all images included in the data group are deleted.
- 5. Click one of the CT images which is included in a data group on the Patient Tab to open the CT data with other grouped images in Ez3D-i.

### 8. Classifying Images of Registered Patients

### 8.1 Classifying Images of Registered Patients

The patient images can be sorted out by Date or by Modality.

- **1.** Search and select a patient.
- 2. Select the date or enter a period in the area of patient images. And then, the images which meet these conditions are displayed.



Search by Date

The images are listed from the recent data, and are displayed in the order of acquisition time within the list.



Search by Modality

The images are listed by modality and are displayed in the order of acquisition time within the list.



When using the IO Sensor or IO Camera option on the searching option, click the [+] button to view the numbered teeth. Select the number in the numbered teeth, the images which meet the condition displays.

T All	TOOTH NUMBER
T Panorama	
[ Cephalo	
ГСТ	18 17 N 16 1 15 1 14 1 13 1 12 1 11 1 21 1 22 1 23 1 24 1 25 1 20 01 27 10 28 0
IO Scanner	
IO Sensor	R 🛔 R 🏋 R 🦹 R 🛔 R 🛔 R 🛔 R 🥻 R 👗 I 👗 L 👗 L 👗 L 🛔 L 🛔 L 🛔 L 🧏 L 🧏 L
All +	
IO Camera	48 🌍 47 🙀 40 🉀 43 🌪 44 🎓 48 🍦 42 🍸 41 🍟 31 🕎 32 🕤 33 🕥 34 🕤 35 🕤 36 💘 37 💘 38 💜
All +	
DSLR	
Others	
OK Cancel	OK Cancel

Double click an image to display the image on the viewer window.

 To open CT images, a 3D Image Viewer runs automatically. In case that the 3D Imaging Viewer of Vatech, Ez3D-i, is installed on the same PC, Ez3D-i is opened. Because EzDent-i is linked with Ez3D-i by default, user doesn't need to set it up in any fashion.

### 8.2 Managing Patient images

Right click on the patient image from the patient image list. A dropdown menu with your image management options will appear.



Image Edit

From here, users can calibrate, rotate or Initialize the image.

Copy to Clipboard

Users can copy the selected image to the Clipboard.

Export

Users can export images saved in EzDent-i to their local PC. For more details, user can refer to 'Chapter3. EzDent-i Basic'.

Send E-mail

The selected image is automatically attached and sent by email.

Press the <Ctrl> key on the keyboard to select multiple images to be attached.

Send Report

The selected image is automatically inserted into a Report. At this time, the images are inserted in Fit size.

Transfer Image

An image which is saved under one patient can be transferred to another patient. At this time, the acquisition date and image information (modality and position) are maintained, and the acquisition date and the image information cannot be modified. To modify the acquisition information, user should change the information directly using the Image Editor.

- 1. Right click on the desired image. The list will appear. And then, select the [Transfer Image] option.
- 2. Enter the Chart No. and Password of the patient that the transferred image of will be saved.

TRANSFER FILE	×
Please enter the chart number of the patient that you want t move the image to.	o
Chart No.	
Password	
OK Cancel	

- The initial password of EzDent-i is '0000'. The user can change the password at [Settings > Environment > General > USER ACCOUNT MANAGER].
   Press the <Ctrl> key on the keyboard to select multiple images.
- **3.** When the [MESSAGE] window appears, click the [OK] button. The Image transfer is completed.
- File Information

Users can verify the file information of the selected image.



Delete

Users can delete the selected image from the DB.

- 1. If the user wants to delete more than 2 images, hold the <Ctrl> key on the keyboard and click the desired images from patient image list, then Right Click and select Delete.
- 2. Right click on the desired image for deletion. Select [Delete] from the list menu.

**3.** When [DELETE IMAGE] window appears, enter the password and click the [OK] button. The Image Deletion is completed.

	The image you are deleting will not be restored. Are you sure you want to delete the selected image?
Password	



The initial password of EzDent-i is '0000'. The user can change the password at [Settings > Environment > General > USER ACCOUNT MANAGER].

## 9. Tools

### 9.1 Main Tools

Icons	Designation	Description of Features
P	Add	Add new patient.
S	Modify	Edit the information or images of the registered patient.
	Delete	Delete the registered patient.
±C	Hide the displayed patient information	Reset the searched results and hide the image.
	Export to acquisition information	Export the values of kVp, mA, DAP, DAP SUM, and exposure time for all patient or a selected patient to an Excel file.
	Export Patient Information	Export selected patient informamtion
	Export	Export selected patient images.
	Data Group	Group 2D and 3D data

# Chapter 5. ACQUISITION Tab

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4. Acquiring Images Using Intraoral X-ray System
5. Importing Images from Local PC to EzDent-i Server
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# 1. Configuring ACQUISITION Tab

The Acquisition Tab provides the function to capture images with CT, Panorama, Cephalo, IO Sensor, and IO Camera equipment. The images can be stored on the EzDent-i server. An image can be imported from the PC server or local PC and saved as a patient image.

EzDent-i supports the maximum resolution that the acquisition equipment when acquiring through dental cameras other than 2D, 3D Imaging Systems, IO Sensor, IO Camera, and Twain.

### 1.1 Workspace



- A: These buttons are for editing (rotation) for the images.
- B: Search pane is used for searching for a patient. Whatever tab the user is working on, the SEARCH pane is fixed so that the user can search for another patient at any time.
- C: The user can select the modality and import or save the images.
- D: The user can preview the captured images before saving.

# 2. Acquiring Images Using Extraoral X-ray System

To acquire images with CT, Panorama, or Cephalo acquisition equipment, EzDent-i Console should be installed, not EzDent-i Client. If it is installed properly, buttons for choosing modality type are displayed. To acquire images with the patient please see below.

1. Click the button of the desired extraoral X-ray system. The image acquisition program appears.

If you want to acquire images in the 3D Photo or Model Scan mode, click the [Others] button to display the image acquisition program.

Search +	Captors Address for \$3.5.10			
	* X-RAY	CBCT - Mn	Center	E 🖉 🔬 🕫
				CECT PANO C
СТ				919 B17
Panorama		-	THE THE	WATICAL POSITION
Cephalo				Pa 040
Others				- HORIZONIAL POSITION
Others	Age: 25			- BANG QUALITY -
]		Please select a capture mode, and then cl	ick CONFIRM.	
IO Scanner				- HE INLARTIFACT BUDGET
				See Ack
IO Sensor	89 kVp	5.5 mA 🚔 🕺 🤅		CONTRA (BEAD

- 2. Set the image acquisition program as desired and click the [Confirm] button.
- **3.** Click the [Ready] button and take an image with the exposure switch. The captured image appears on the screen.



All the latest equipment manufactured by Vatech utilizes the image acquisition program to acquire images. Refer to the Vatech equipment manual for the user instruction and related information about the image acquisition program.

# 3. Acquiring Images Using IO Scanner



IO Scanner console program should be installed on the PC to acquire images from IO Scanner. Please refer to the manual of IO Scanner program for the user instruction and related information.

1. Click [IO Scanner] button on the Acquisition Tab.

	Search	
	ст	
	Panorama	
	Cephalo	
	Others	
_	IO Scanner	

2. The IO Scanner program starts as follows.



# 4. Acquiring Images Using Intraoral X-ray System

### 4.1 IO Sensor / IO Camera



To acquire images with IO Sensor, the IO Sensor driver should be installed on your PC. Please refer to the IO Sensor manual or IO Camera manual for more information.

1. Click the [IO Sensor] or [IO Camera] button in the ACQUISITION tab. Once the IO sensor or IO camera is connected, template where the acquired image is located is changed. The numbered teeth are displayed on the screen.

SEARCH Search +														
ст	18 🛕 17 🕌	16 🎽 15	14	13	12	*	21	22	23	24	25	*	27 📙 28	
Panorama	0 0	0 0	0	0	0	0	0	0	0	0	0	0	0	0
Turioturia	R8 _ R7 _	96 <b>R</b> 5 <b>R</b> 5	R4	R3		R1	Ш /	12	B	14	ى	16	17 18	
Cephalo														
Others	48 🍞 47 🎀	46 🎢 <sup>45</sup> 🧃	44	43					33	34	35	<b>1 1 1</b>	37 🏹 38	
IO Scanner	0 0	0 0	0	0	0	0	0	0	0	0	0	0	0	0
IO Sensor														
IO Camera														
TWAIN														
Auto DSLR														

- **2.** Depending on the connected device, the image processing options can be selected before the image acquisition.
- (1) IO Sensor: the IO Sensor and the IO Sensor Filtering option can be selected.

IO Sensor										
IO Camera										
TWAIN										
Auto DSLR										
Import										
Change Layout	Select an IO Sensor	18	17 👔 1	16 👖 1	15	14	13	12	11	21
Ready	EzSensor P 2.0	-	0	0	0	0	0	0		0
	IO Sensor Filtering	R8	R7	86 👗 1	ર્ઝ	R4	R3	R2	R1	<b>H</b>
Save to DB	High Contrast		0	0	0	0	0	0	0	0
		48 🍞	47 🔊	16 🎢	15	44	43	42	41	31
		0	0	0	0	0	0	0	0	0

- IO Sensor: It lists the IO Sensors that are currently connected. It lists up to four IO Sensors, and user can select the desired IO Sensor device.
- IO Sensor Filtering: The filtering options that the selected IO Sensor device provides can be selected. If the v6.5 or lower version of Rayence Sensor driver is installed, the device or t image processing options cannot be selected and the images cannot be acquired when two or more IO Sensor are connected to the PC.

(2) IO Camera: When acquiring images with IO Camera, EzDent-i supports the maximum resolution of the equipment.

(3) DSLR: The maximum size of DSLR images are up to 1920 X 1080 (Full HD). If a user saves image that exceeds the maximum size, the size of image will be automatically adjusted to 1920 X 1080.

3. Change the layout to capture multiple images continuously. Click the [Change Layout] button and the [CHANGE LAYOUT] window appears. Select the desired layout.

If FMX type layout is selected, user can also select the Default Sequence option. The Default Sequence option is available for both IO Sensor and IO Camera, and for only the corresponding FMX layout, the designated sequence is saved by clicking the [Store] button.

- Select [Default Sequence]: The order to locate the acquired image from IO Sensor is set by default.
- Unselect [Default Sequence]: User can define the order to locate the acquired image from IO Sensor. Click the FMX one by one. This would then become a manual selection by the User.



4. Click the [Ready] button after positioning a patient.

Ready	Capture Image From IO Sensor	
Ready	Exposing the X-ray	
Save to DB		

- By double clicking the workspace of ACQUISITION tab, EzDent-i can be ready for imaging acquisition. This has the same function as clicking the [Ready] button.
- If IO Sensor or IO Camera equipment is connected properly, the image acquisition mode is initiated
- When using the IO Sensor, shoot the x-ray using the exposure switch
- When using the IO Camera, press the capture switch to acquire image.
- When using the IO Camera, user can use the keyboard. Under the 'Main Button > Settings > Acquisition > General', set [IO Camera Acquisition Key Setting], and the user can use the keyboard to acquire IO Camera images.
- When acquiring images with IO Sensor, IO Camera, or Auto DSLR, the last acquired image appears as the first image in the FMX frame or in the Thumbnail list by default.
- 6. For a continuous capture mode, all captured images are located in the first tooth selected. Drag and drop the captured images to each proper tooth location.
- In the Teeth Mode or the FMX layout of the IO Sensor, double click the right button of the mouse for a continuous capture.
- When acquiring after setting the FMX sequence, the re-acquisition can be possible
- 7. Select images from the thumbnails, and then click the [Save to DB] button. The captured images will be stored in the DB.
- If user wants to select more than 2 images, first hold the Ctrl key on the keyboard and click the desired images displayed on thumbnail.

To change the way you store acquired images, change the option in settings. With the option, [Auto DB Save], automatically all acquired images are stored in DB.



Imaged acquired by IO Sensor are saved in DICOM file format. Importing IO Sensor images will save the image in origina file formation.

#### 4.2 Twain

TWAIN is the standard image acquisition driver that connects the image acquisition software and image acquisition devices (scanner or digital camera). For any image acquisition devices supporting TWAIN, the image acquisition through EzDent-i is possible.

1. Click the [TWAIN] button from the Acquisition tab. The screen will change when ready for TWAIN.

SEARCH													
Search +													
σ		Source Vatech EzSensor	*	18	17 🕌	16	15	14	13	12		31	22
Panorama	-	Modality		Rð 📃	0 R7 M	0 R6 <u>M</u>	0   R5 📐	0 R4	R3	0 R2	0 R1	0 L1	L2
Cephalo		DSLR	Ŧ									0	7
Others				49	1 <b>1</b>	46	45 <b>)</b>	44	43	42	41	31	32
IO Scanner									v				
[ IO Sensor													
IO Camera													
TWAIN													
Auto DSLR													
Import													

2. Click the [Source] and [Modality] dropdown menu and select the source and equipment type.



3. Click the [Acquire] button.



If the [Acquire] button is not displayed, scroll up the mouse wheel to make it shown.

4. When the TWAIN window appears, select the imaging option provided by the equipment and click the [Capture] button.

	Image setti	ngs
Process	LC_N (Low Contr, N	ew img process)
Arch		eth
	Maxillary 💿	Incisor/Canine 🔘
	Mandibular 🔘	Molar/PreMolar 🧿
	Acquisitio	on
Chatras	Single image	
500(<\$>	Shigit mage	Capture
Shot <s> <b>⊙ Single</b></s>		



- The TWAIN sample image above has been obtained with EzSensor, the digital IO sensor from VATECH. Please refer to the user manual of other devices using TWAIN image acquisition methods.
- If there are two or more drivers for TWAIN, the program saves the last device that a user uses.
- 5. Acquired images appear in the thumbnail list.
- 6. Select the acquired images by clicking on the thumbnails and store them to the EzDenti server. To select multiple images, select the images while holding down the Ctrl key. After selecting images, click the [Save to DB] button.

	Acquire
_	Save to DB

- If a modality changes while loading TWAIN images, only the unsaved images are moved to layout in where the modality is changed.
- The layout cannot be changed while acquiring with TWAIN if the modality is set to Ceph or Panorama.
- 7. The acquired image is normally saved to DB, a separate window appears to inform the user that the image is saved successfully.

# 5. Importing Images from Local PC to EzDent-i Server

Images already captured and saved in the local PC are imported and saved to EzDent-i for each appropriate patient.

1. Click the [Import] button from the Acquisition tab. The screen is modified to fit [Import]. Then, select the equipment type as shown below.



2. If needed, click the [Change Layout] button and select the desired layout. The layout is modified according to the new layout selection.

Change Layout	IO Sensor Treth Code Adult	10 Sensor Teeth Code Children		
	IO Sensor	10 Sensor	IO Sensor	IO Sensor
	10 FMX	14 FMX	16 FMX	18 FMX

For the Teeth Code layout, the "Teeth Code Adult" layout is automatically applied if the patient's age is 13 or over, and if the patient is younger than 13 years old, the "Teeth Code Children" layout is automatically applied. But if the layout is changed through the [Change Layout] button, the Teeth Code layout can be applied regardless of the age.

**3.** To Import the images stored in the local PC, click the [File Import] button. The [Image] window appears.



4. Select all desired images to import. If user wants to select more than 2 images, hold the <Ctrl> key on the keyboard and click the desired images.



5. Upon completion, the imported images are shown on the thumbnail filmstrip as shown below.





If there are multiple images in the FMX or Teeth Box, scroll the mouse wheel or click the left/right arrows to move between images, and the image is displayed accordingly.

To Change the acquisition date and time of the imported image, click the [Change Date] button. But, when changing dates of only two images out of five imported images, the date and time will not be applied to the three images unselected.

A deside Pass	G		Ma		2020		0
Modality	Sun	Mon	Tue	Wed	Thu	Fri	Sa
Panorama 🔻	26	27	28	29	30	1	2
	3	4	5	6	7	8	9
Acquisition Date	10	11	12	13	14	15	16
Change Date	17	18	19	20	21	22	23
change bate	24	25	26	27	28	29	30
	31	1	2	3	4	5	6
	Acqui	sition T	ime				
	PM 12	2:56:19					
		0	К		Ca	ncel	

- 6. Select the acquired images by clicking on the thumbnail to save to EzDent-i server. Click the [Save to DB] button to save the images to DB. If user wants to select more than 2 images, hold the Ctrl key on the keyboard and click the desired images.
- 7. The acquired image is normally saved to DB. A separate window appears to confirm that the image is saved successfully.

# 6. Tools

### 6.1 Main Tools

lcons	Designation	Description of Features
	90° CCW	Rotate 90 degree counter clockwise
	90° CW	Rotate 90 degree clockwise
	Flip Vertical	Flip the image vertically
	Flip Horizontal	Flip the image horizontally
wit		tion of the image, click the [Save to DB] button to view the image orientation in EzDent-i. It does not change the original image stored

# Chapter 6. VIEWER Tab

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# 1. Configuring VIEWER Tab

### 1.1 Workspace



- A: These buttons are for measuring, zooming, moving the images.
- B: This pane is used for windowing images and performs simulation.
- C: The selected images are previewed and the user can view the windowing and simulation results.
- D: This pane shows the images for the selected patients in thumbnail.

# 2. Windowing

Through the Windowing function of EzDent-i, user can adjust the brightness and the contrast of images, and also can give sharpen, inverse, and film effect to the images.



Windowing effect is also applied to the image displayed on the CONSULT tab and the REPORT tab.

However, the windowing effect modified after the image is opened on the report is not applied.

### 2.1 Adjusting Brightness

The [BRIGHTNESS] option makes an image brighter or darker.

s -2%
0%
Max Sh
Film Effect
eset

 To adjust the level of brightness, move the [BRIGHTNESS] slider to the left or right. Or, right click and drag the mouse left or right.



Comparison of brightness -100 image and brightness 100 image is as below.



Brightness -100



**Brightness 100** 

### 2.2 Adjusting Contrast

The [CONTRAST] option makes distinctive comparison of black and white region of an image. Higher contrast makes black pixels more black and white pixels whiter. Image details are much clearer with the effect of contrast. Blurry nerve or anatomical structures become more clearly distinguished.



 To adjust the level of contrast, move the [CONTRAST] slider to the left and right. Or, right click and drag up or down to adjust the image contrast.



Comparison of contrast -100 image and contrast 100 image is as below.



Contrast -100



Contrast 100

### 2.3 Adjusting Sharpness

Image details are further emphasized with the effect of image sharpness. Blurry nerve or anatomical structures become more clearly distinguished. To apply the [Sharpen] option, select Sharpen. If user wants to increase the sharpen effect, select the [Max Sharpen] option.

BRIGHTNESS	0%
CONTRAST	0%
Sharpen	🗌 Max Sha
🗌 Inverse	Film Effect

 Comparison of images between not applied and applied Maximum Sharpness effect is shown below.



Original Image



Maximum Sharpness Image

### 2.4 Inverting Black and White

This is a function to inverse black pixels to white, and white pixels to black.

WINDOWING	
BRIGHTNESS	0%
CONTRAST	0%
Sharpen	Max Sha
🗌 Inverse	Film Effect
Re	eset

 To apply Inverse, select Inverse. A comparison between an original image and its inverse is shown below.



Original Image



Image with Inverse Effect applied

# 2.5 Applying Film Effect

If the user wants Film type image, the [Film Effect] option can be selected.



 To apply Film Effect, select it. A comparison between an original image and an image with film effect is shown below.



**Original Image** 



Image with Film Effect applied

### 2.6 Reverting to the Original State

Revert all applied effects and initialize the image to the original state.

BRIGHTNESS	0%
CONTRAST	0%
Sharpen	Max Sha
Inverse	Film Effect

### 2.7 IO Sensor Filtering

For images acquired by IO sensors, right click on the image on the Viewer Tab and select the [IO Sensor Filtering] option. This option enables the user to choose the level of image processing. Current level is indicated by a check mark.





IO Sensor Filtering supports other Rayence sensors except EzSensor and AnySensor.

The level of image processing is displayed as set by the IO sensor driver. For the details, please contact the manufacturer of the IO sensor.

### 2.8 **Presentation Mode**

- Entering Presentation Mode
  - Click the right button on workspace, and select the [Toggle Presentation Mode (On)] option. The shortcut key for this function is <Ctrl + Enter>.

Image Edit
Copy to Clipboard
Export
Export Image with Overlay
File Information
Toggle Presentation Mode(On)
Delete Overlay

- Double click the workspace. But, when other functions from tool bar other than Zooming and Panning are in use, the image cannot be viewed in Presentation Mode by double clicking the image.
- Double-click title bar of the image to change it to the maximum size in the View.
- Presentation Mode Tool Bar

When mouse is at the left side of screen or bottom side of screen, Tools or thumbnails of the slides/images are displayed.



Presentation Mode Patient Information

The at the upper-right side, can be hidden. Right click then select the [Patient Information] on the list menu.

Exiting Presentation Mode

Click the [X] button on the top right corner of the image to close the presentation mode.

# 3. Changing Layout

Workspace can be split, choosing one of approximately 25 supported layouts. As a result, users can view more than 2 images on a screen. This feature is named Layout.

### 3.1 Changing Layout

1. Click the [Change Layout] button. The [CHANGE LAYOUT] window appears.

		CHANGE LAYOUT				×
		Default IO Sense	r IO Camera			
		1 X 1	1 X 2	2 X 1	2 X 2	
LAYOUT		2X3	3 X 2	3 X 3	L DSLR R	
Change	: Layout	R DSLR L	1+2	2+1	SCATTER	
		Layout Manager			OK Cancel	
	If the [Change user to see th	e Layout] button do e button on the me	es not appear nu list.	, scroll the mo	ouse or click the	button for
NOTE	Main M	lenu EzDent-i				

- 2. Double click the desired layout, or select then click the [OK] button. The selected layout appears on the workspace.
- 3. Drag and drop the thumbnail image in the image view screen.



Applying multiple layouts

When searching for other patients while multiple layout is applied, the image is displayed at the first widget of the layout list.

Layout View order

Horizontal > Vertical, Left > Right, Top > Bottom

Applying SCATTER layout

Users can select the [Scatter] layout from the [CHANGE LAYOUT] window to position the images freely as desired. At this time, the patient information is not displayed on the screen. Right click the image to display the patient information.



When using the [Scatter] layout, place the mouse cursor on where the modality name is displayed and drag the images. If any opened image needs to be closed, mouse over the image and click the [X] button at top right of the image.

Applying FMX layout

When there is more than one image in each View, click the [<] or [>] button to view the previous or the next image.

Sending to Report while multiple layout is applied

If a [Send To Report] icon is clicked while multiple layout (including Bitewing layout) is applied or a certain image is displayed in full screen mode, the image is added to the report in Fit size and as viewed in the Viewer Tab.

### 3.2 Setting as Default Layout

- 1. Click the [Change Layout] button. The [CHANGE LAYOUT] window appears.
- 2. Select the desired layout, and right click to select the [Set as Default] option.

Default	10 Sensor	IO Camera				
	o Favorites Default	1 X 2	2 X 1		2 X 2	
2 X 3		3 X 2	3×3	L	DSLR	R

3. Click the [OK] button. The selected layout appears on the workspace.

### 3.3 Adding to Favorites

- 1. Click the [Change Layout] button, and the [CHANGE LAYOUT] window appears.
- **2.** Click to select a layout, and right click on the layout and then click the [Add to Favorites] option.

Default IO Sen	ior IO Camera		1
1 X 1	1 X 2	2 X Add to F	24
2 X 3	3X2	3 X 3	L DSLR R
R DSLR L	1+2	2+1	SCATTER

**3.** The star mark appears on the selected layout, and click the [OK] button. The selected layout is added to the layout list on the Control Panel.

Default IO Se	nsor IO Camera			
1 X 1	1 X 2	231	2 X 2	
2 X 3	3 X 2	3 X 3	L DSLR R	LAYOUT Frame2x1
R DSLR L	1 + 2	2+1	SCATTER	Change Layout

### 3.4 Layout Manager

The user can add new layouts or delete layouts as well as change the list shown in the [CHANGE LAYOUT] window by using the [Layout Manager] option.

- Show/Hide
  - 1. Click the [Change Layout] button, and the [CHANGE LAYOUT] window appears.
  - 2. Click the [Layout Manager] button at the bottom of window.

CHANGE LAYOUT			X
Default IO Se	nsor IO Camera		
1 X 1	1 X 2	2 X 1	2 X 2
2 X 3	3 X 2	3 X 3	L DSLR R
R DSLR L	1 + 2	2+1	SCATTER
Layout Manager			OK Cancel

#### 3. [LAYOUT MANAGER] window appears.

Show	Name	Delete
M	Viewer_Frame1x1.lay	
M	Viewer_Frame1x2.lay	Add
~	Viewer_Frame1x2.lay	-
	Viewer_Frame2x2.lay	
Sensor	Layout	
Show	Name	
~	10FMX/VWR_IOS_10FMX_FMXFrame1X1.lay	
<b>V</b>	10FMX/VWR_IOS_10FMX_FMXFrame1X2.lay	
<b>V</b>	10FMX/VWR_IOS_10FMX_FMXFrame2X1.lay	
•	10FMX/VWR_IOS_10FMX_Frame1x1.lay	
Camera	Layout	
Show	Name	
<b>v</b>	10FMX/VWR_IOC_10FMX_FMXFrame1X1.lay	
<b>v</b>	10FMX/VWR_IOC_10FMX_FMXFrame1X2.lay	
•	10FMX/VWR_IOC_10FMX_FMXFrame2X1.lay	
~	10FMX/VWR_IOC_10FMX_Frame1x1.lay	

4. Check the [Show] option for layouts to be seen in the [CHANGE LAYOUT] window and Uncheck the [Show] option for layouts not to be seen in the Change Layout] window. Then, press the [OK] button.

- Add/ Delete layout
  - 1. Add layout

Click the [Add] button to add downloaded layouts to the default layouts. But layouts should be downloaded in advance.

Show	Name		Delete
M	🔒 Viewer_Frame1x1.lay		
×	Viewer_Frame1x2.lay	1 X 1	Add
<b>v</b>	Viewer_Frame2x1.lay		
<b>v</b>	Viewer_Frame2x2.lay		
Sensor	Layout	 	
Show	Name		
~	10FMX/VWR_IOS_10FMX_FMXFrame1X2.lay		
~	10FMX/VWR_IOS_10FMX_FMXFrame2X1.lay		
~	10FMX/VWR_IOS_10FMX_Frame1x1.lay		
~	10FMX/VWR_IOS_10FMX_Frame1x1_Thumb.lay		
Camera	Layout		
Show	Name		
~	10FMX/VWR_IOC_10FMX_FMXFrame1X1.lay		
~	10FMX/VWR_IOC_10FMX_FMXFrame1X2.lay		
~	10FMX/VWR_IOC_10FMX_FMXFrame2X1.lay		
~	10FMX/VWR_IOC_10FMX_Frame1x1.lay		

#### 2. Delete layout

Click the [Delete] button to remove the selected layouts from the [CHANGE LAYOUT] window.



### 4. Simulating Implant

The implant simulation can be inserted in two different methods on EzDent-i. First, user can insert the implant and locate it at the correct position manually. Second, based on length information of image, implant is selected and located at the correct position automatically.

### 4.1 Implant Insert Option: Manual/Automatic

1. Click the [Implant Insert] button from the simulation items. The [IMPLANT MANAGER] window appears.

SIMULATION	
Insert Implant	
Whitening	
Draw Canal	

2. Select the information of the implant to be inserted form the [IMPLANT MANAGER] window. Select the implant location with the corresponding tooth number. Select the implant manufacturer from the company section and the model name of the implant from the line up section. Select the correct size of the implant in the right side.

IMPLANT MANAGER							>
Crown	17         16         15           47         46         45	14 13 13 14 14 14 14 14 14 14 14 14 14 14 14 14 1	12 11 21 42 141 31 11 31	22 A 23 A 32 A 33 A	24 25 34 35	26 27 36 💦 37	×
Company	User	•	Item	Occlusal	Apical	Length	
Line-Up	Model	•	Defined7	4.10	4.00	12.00	
End ob	moder		Defined8	4.10	4.00	14.00	U
Crown Color	White	-	Defined9	4.20	4.00	11.50	
			Defined10	4.20	4.00	13.00	
Set as defa	ult				ОК	Cancel	

- Click the [Set as default] button to change the preset implant for each tooth number.
- If company, line up and STL are empty, check if implantDB.exe has been installed on the PC.



Based on to the tooth number, specific implants (implant company, Line-Up, and Model Name, etc.) are set by default. The preset implant can be modified from [Main menu > Settings > Simulation > Preset Implant].

- **3.** If needed, click the [Crown] check box to perform the crown placement during the implant simulation.
  - If the [Crown Simulation] option is marked checked, you can also set the color of the crown to white, gold, or steel.

🗹 Implant	17 💥 16 🔔 15			22 1 23	24	26 🤾 27	
Crown	47 🎢 46 🎢 45	<b>)</b> 44 <b>)</b> 43 <b>)</b>	42 41 31	32	34 7 35	36 🏹 37	1
Company	User	•	ltem	Occlusal	Apical	Length	
Line-Up	Model	•	Defined7	4.10	4.00	12.00	
Line op	Woder		Defined8	4.10	4.00	14.00	
Crown Color	White	<b></b>	Defined9	4.20	4.00	11.50	
	White		Defined10	4.20	4.00	13.00	
	Gold						

Only crown without implant simulation is possible by checking the [Crown], not the [Implant] option.

Implant	17 🕌 16 🔔 15		12 ] 11 ] 21	22	24	26 🔏 27	
Crown	47 7 45	<b>)</b> 44 <b>)</b> 43 <b>)</b>	42 41 31	32 7 33 7	34 🥎 35 🤇	36 🏹 37	1
Company	User	-	ltem	Occlusal	Apical	Length	
Line-Up	Model	-	Defined7	4.10	4.00	12.00	
and ob	model		Defined8	4.10	4.00	14.00	
Crown Color	White	-	Defined9	4.20	4.00	11.50	
			Defined10	4.20	4.00	13.00	

**4.** After the selection is done, click the [OK] button. The implant is placed in the designated location.



- Implant Automatic Insert: Implants are inserted at the specified location according to the selected tooth number.
- Implant Manual Insert: Implants are inserted at the user-selected location manually



The Implant Insert method is set to Automatic by default. The method can be changed from [Settings > Simulation > Preset Implant].

5. Place the implant in the desired location by adjusting the direction of the implant and the crown size.



The following is the way to change the direction and size of impaInt.



- A. When dragging the inner part of the purple circle, the position of the implant can be controlled.
- B. When dragging the small yellow box the direction of implant can be controlled.

### 4.2 Implant Insertion by Measuring Length

1. Click the [Length] icon and click two points to measure the length. The line for the measurement appears on the image and click the [Length] icon again to deselect



2. Click the measured line and right click to see list menu. Select the [Insert Implant] option from the list menu.



**3.** Three implant options are listed for the measured length. Click the desired implant option, and it will be inserted automatically.



### 4.3 Copying and Pasting Inserted Implant

1. Right click on the simulated implant and select the [Copy Implant] option.



2. Right click on the desired location and select [Paste Implant] option. Then, the implant is inserted on the selected location.

Image Edit
Copy to Clipboard
Export
Export Image with Overlay
File Information
Toggle Presentation Mode(On)
Delete Overlay

### 4.4 Modifying Inserted Implant

1. Right click on the simulated implant and select the [Property] option.

Show Implant Information
Copy Implant
Delete

2. Modify the implant information as desired in the [IMPLANT MANAGER].

The implant properties such as Company, Line-Up, model, and Item can be modified, and the [Crown Simulation] option can be also selected.

3. Click the [OK] button. Then, the modified implant appears.

#### 4.5 Inserted Implant Information

1. Right click on the simulated implant and select the [Show Implant Information] option.



2. The implant information will be shown.



- Right click on the implant once again and select the [Hide Implant Information] option to hide the implant information.
- When you move the implant image, the information will move along with the image.

### 4.6 Deleting Inserted Implant

Right click on the implant and select the [Delete] option to remove the placed implant.



# 5. Simulating Tooth Whitening

The whitening procedure can be simulated for teeth with heavy stains, from nicotine, for example. In order to use this feature, an intraoral tooth image as DSLR type must be running on the workspace.

For Simulating tooth whitening, there are two methods: The [Area] type and the [Brush] type. To begin, click the [Whitening] button. The [WHITENING] window appears.

			×
SIMULATION	Area	Auto Whitening           Level 1         Level 2	Level 3
Whitening	Brush	SIZE	40%
Draw Canal		OK Close	

### 5.1 Tooth Whitening with Area Function

1. Select the [Area] button and locate the box on the area to apply whitening. The size of the box can be adjusted freely.



- 2. Choose [Level 1], [Level 2], or [Level 3] depending on the intensity of the desired whitening effect.
- 3. By clicking the [OK] button, the applied effect is saved in DB.

### 5.2 Tooth Whitening with Brush Function

1. Click the [Brush] button in the [WHITENING] window. The slider for the [Size] and the [Hardness] options is activated.

	WHITENING	×
SIMULATION Insert Implant	Area Auto Whitening Level 1 Level 2 Level 3	
Whitening	Brush SIZE 40%	
Draw Canal	OK Close	

- 2. Move the slider to the left and right to adjust the size and strength of the whitening brush.
- 3. Click and drag the mouse over the area to apply whitening effect. Teeth appear whiter.



4. Click [OK] button to save the change.

# 6. Drawing Nerve Canal

Prior to the implant simulation, the patient's mandibular nerve canal is usually referenced during the implant placement.

1. Calibrate the image prior to the mandible nerve canal simulation.



The image calibration method is discussed in Section 6.

2. Click the [Draw Canal] button. The shape of the mouse cursor changes to a cross.

SIMU	JLATION
	Insert Implant
	Whitening
	Draw Canal

**3.** Click to plot points along the mandibular nerve. To delete the previously plotted point, right click.



4. Double click to mark the end of the canal.

### 7. Calibration

A different measuring ratio is employed for different images and the exact length of an image is hard to measure. The image calibration allows the user to enter the exact length manually.

1. Right click on the workspace and select the [Image Edit] option.



2. On the [IMAGE EDIT] window, select the [User Calibration] icon from the toolbar. And then draw a line using [User Calibration] tool. Click the [User Calibration] icon once again to deselect.



3. Enter the actual length of the tooth and then click the [OK] button.

USER CALIBRATION		×
Measured Size	Real Size	mm
ОК	Cancel	]



After calibration, the scale appears at the right side of image. You can check whether 4. the image has been calibrated.

After the calibration, the length is measured by the newly calibrated [Length] tool.

User can input the Calibration value easily using the Calibration Preset list provided through [Calibration by Imaging Equipment] function.

		EDT PANDRAAA				•	×		
	a Green 16 - S				No.				
2.	Set t wind	he Calibration ow. The set va	value i		BRATION	BY IMA	AGING	EQUIPME	NT]
2.	Set t wind	OW. The set va RATION BY IMAGING EQUIPMENT ama/Cephalo	value i	n the [CALI aved in the	BRATION	BY IMA	AGING	EQUIPME	NT]
2.	Set t wind	OW. The set va RATION BY IMAGING EQUIPMENT ama/Cephalo 5000S Pro Ceph	value i	n the [CALI	BRATION	BY IMA	AGING	EQUIPME	NT]
2.	Set t wind	ow. The set va RATION BY IMAGING EQUIPMENT ama/Cephalo 5000S Pro Ceph None	value i alue is s	n the [CALI aved in the	BRATION	BY IMA	AGING	EQUIPME	NT]
2.	Set t wind	ow. The set va RATION BY IMAGING EQUIPMENT ama/Cephalo 5000S Pro Ceph None None	value i alue is s	n the [CALI aved in the	BRATION	BY IMA	AGING	EQUIPME	NT]
2.	Set t wind	ow. The set va RATION BY IMAGING EQUIPMENT ama/Cephalo 5000S Pro Ceph None	value i alue is s	n the [CALI aved in the	BRATION	BY IMA	AGING	EQUIPME	NT]

0

0

None

None

\*

OK Cancel
### 8. Exporting Image with Overlay

You can export an image with overlay. The applicable functions are windowing, filter, overlay, and ruler.

- 1. Select an image with overlay.
- 2. Right-click on the image, and a context menu will appear. Click [Export Image with Overlay].

Image Edit Copy to Clipbe Export	Ird	
Export Image	th Overlay	
File Informatio	tion Mode(On)	
Delete Overlay	•	
	<ul> <li>Patient Information Anonymization</li> <li>If you have chosen to use the Privacy Policy Settings (found in [Settings &gt; Others] and [Export] is one of the options chosen under [Anonymize Patient Information], to option below appears when you use the [Export Image with Overlay] function.</li> </ul>	
	Patient Information Anonymization	

If you choose [Apply], the patient information will be anonymized in the resulting file.

Cancel

3. Refer to 'Chapter 3. EzDent-i Basics' for subsequent steps.

OK

### 9. Insight Navi

Insight Navi shows multiple frames of a panorama image moving towards Anterior/Posterior direction

#### 9.1 Insight Toolbar



[Insight] toolbar on the Viewer tab is activated if the image has multi-frame images

1. Insight Navi

: Click the [Implant Insert] button from the simulation items. The [IMPLANT MANAGER] window appears.

2. Show/Hide Popup

: Show or hide popup images from the Insight Navy

3. Capture All Popup

: Capture all popup images individually.

: The popup images will be saved in the order of popup creation and each image includes its frame number. With the [Capture All Popup] button, images except popup images will be not captured.

#### 9.2 Starting Insight Navi

If the panorama image supports Insight Navi function, Insight icon is shown on the thumbnails.





Insight icon is activated only when the image includes multi-frame DICOM data.

1. Double click the image with Insight icon to present the image on the Viewer.

Panorama



2. Click the [Insight Navi] button to activate the Insight Navi function.



3. A square navigator will be shown where the mouse cursor is on the screen.



### 9.3 Insight Navi Configuration

1. Frame Number



The frame number, for example, 20/40 indicates current frame/total frame.

If a panorama image includes 40 multi-frames in the image, the default frame shown in the navigator at the first time is frame #20 which is the median value.

2. Position Indicator



The position indicator with is a slice bar on the left side of the navigator indicates current frame visually based on Posterior/ Anterior direction. But the slice bar cannot control the frame.

3. Change the size of navigator

Right click inside the navigator to change the size of the navigator.





The default value of navigator size can be set at [Settings > Viewer >Tool > Insight] in the Main Menu

### 9.4 Insight Navi Function

1. Changing frame number



- Mouse wheel scroll up: Anterior direction
- Mouse wheel scroll down: Posterior direction
- 2. Moving Insight Navi

The navigator is created where the mouse pointer is on the image. As the mouse pointer moves, the navigator tags alone.



#### 3. Frame image pop-up

Click the current frame to create a pop-up image in a different window.



**4.** Moving pop-up image

The pop-up image can be moved by dragging and dropping the image.



### 9.5 Saving as IO Sensor Image

- 1. Create a pop-up image by implementing Insight NAVI.
- 2. Right-click the image and then select [Save as IO Sensor Image] from the context menu.



**3.** The [Save to IO Sensor Image] window appears as below. Select a modality, teech code, and teeth number to which the pop-up image is saved.

IO Sensor		~			
eth Code	• Adult	0 0	Child		
17         16           8         R7         86           9         47         76	15     14     13     1       R5     R4     R3     R       45     44     43     4	2 11 2 21 4 2 4 R1 2 L1 7 2 7 41 7 31 7	22     23       L2     L3       32     33	24     25     26       L4     5     6       34     35     36	27     28       4     17       4     17       5     18       5     37       37     38
		ОК	Cancel		

**4.** After selecting them, click the [Save] button, and the pop-up image will be saved to the corresponding tooth number.

### 9.6 Exiting Insight Navi

NOTE

\_\_\_

Click the [Insight Navi] button to deactivate the Insight Navi function.



### 10. Image Information

### 10.1 Adding Image Information

1. Click the [Image Information] button on the [Annotation] tool bar.



 The corresponding information is displayed on the top left conner. Users can move the information to desired position. Users can set the color and the size of font on [Settings] – [Viewer] – [Annotation].



**3.** To hide the image information, click the [Image Information] button again or right-click on the image information then click [hide] button from the context menu.



## 11. Tools

### 11.1 Main Tools

Icons	Designation	Description of Features
En	Panning	Move the image freely.
	Zoom	Zoom in and out of the image.
	Length	Measure the distance between the two points.
	Free draw	Draw freely.
C	Reset View	Initialize Move, Zoom

### 11.2 Advanced Tools

Classification	lcons	Designation	Description of Features
View		Magnifier	Magnify and apply contrast at the selected region.
view		Turn On/Off Grid	Display grid on the image to check the asymmetry of patients.
	5	Insight Navi	Shows multiple frames of selected region
Insight		Show/Hide Popup	Show or hide popup images.
		Capture All Popup	Capture all popup images individually
		Multi length	Measure lengths between more than 2 desired points.
Measurement	es.	Angle	Measure angle between desired points.
_		Profile	Measure bone density of the desired region.
		Memo	Leave a memo at the desired point.
		Line	Drag a mouse to draw a line at the desired region.
Annotation		Rectangle	Drag a mouse to draw a rectangle at the desired region.
	$\bigcirc$	Ellipse	Drag a mouse to draw an ellipse at the desired region.
		Image Information	Insert image information at a desired position.
		Region Capture	Capture the current image. The captured image is saved to DB.
		Selected Window Capture	Capture the image of selected region. The captured image is saved to DB.
Capture	Ó	Capture Viewframe	Capture the workspace and save it to DB.
		Send To Report	The workspace image is directly sent to Report.
ETC		Export	Export selected patient images.

Classificati	ion	Icons	Designation	Description of Features
		×ī.	Turn On/Off Overlay	Show/ Hide all displayed objects.
		_@	Reset All	Delete the all applied tool effect. The initialized image is saved to DB.
	To m		dow larger or smaller, go	age window size is smaller than magnifier. to [Settings > Viewer > General > TOOL >
		s the <esc> key or ting Overlay.</esc>	n the keyboard to cancel	and close the corresponding function while
	to 25 After draw	5. The User can p selecting the tool, n area appear in a te	redict the hardness of bo draw the line at the desir	of the selected line with 256 colors from 0 nes. red point. The gray shade values on the line
NOTE	• T	vill be acquired.	can be set according to t	red image including applied layout or FMX he mouse movement if the [Selected or more images are displayed in the multiple
		spacing, line color, wer > General > G		ne opacity of grid can be set in the [Settings

# Chapter 7. CONSULT Tab

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### 1. Configuring CONSULT Tab

The Consult tab provides the necessary contents when consulting patients, and also the user can manage the contents with different categories.

EzDent-i offers features for users to add to cart, or edit or delete the consult contents.

#### 1.1 Workspace



- A: The consult contents are displayed or played on this pane. The user can drag and drop the necessary contents from the B pane.
- B: This pane shows the images for the selected patients in thumbnail.
- C: The consult contents are displayed in this pane. It shows the animated contents or image list for consulting patients.



If the operating system of user's PC is Windows 7 Edition and Media Player has not installed yet, video for consultation does not play. Visit http://windows.microsoft.com and download Media Player 12 and install it.

### 2. The Use of Cart

EzDent-i provides basic 20 consult contents. Also, user can use about 200 consult contents related to implant, periodontal disease, etc. that EzDent-i provides with fee.

CART	
Recent List	
Favorites	
	To activate the 200 Consultation animations, users can contact a customer support center of VATECH.

### 2.1 Favorite

NOTE

The Favorites Cart contains the consultation animations added by the user. The user's favorites and often used consultation animations can be added to this cart.

### 2.2 Recent List

The most recently used 20 consultation animations are contained to A Recent List Cart.



### 3. Editing Cart

### 3.1 Adding Consultation Animations to Favorite Cart

To add the desired Consultation animations to Favorites follow the steps below.

1. Right click on the Consultation animations and the list menu appears. Select the [Add Favorites] from the list menu. Completion window will appear.



2. When user selects the [Favorites] Cart from the Cart menu, the Consultation animations added in Favorite are displayed in the Thumbnails as shown below.



### 3.2 Deleting Added Consultation Animations from Favorites Cart

- 1. Select the [Edit] button. The [CONSULT CATEGORY] window appears.
- 2. Select the [Favorite] Category from Category list. Then, the consultation animations added to Favorite are displayed on the right.
- 3. Select a desired consultation animations by right clicking, then, list menu appears.

CONSUL	I CATEGORY			×
Cart	Category		Preview	
	Favorites			
	<ul> <li>Consult Category</li> </ul>			
	Conservative Dentistry		Delete	
	Root Canal Treatment			
	Restorative Treatment			
	Cervical Abrasion	1		
	Tooth Whitening			
	Development of Disease			
	Prosthodontics			
	Inlay			
	Crown			
	Bridge			
	Laminate(Veneers)			
	Denture			
	Maryland Bridge		File Needs for Post Treatment	
A	dd Modify Delete		Add Contents Add Contents Folder	
			Close	

4. Click the [Delete] option and a window appears to confirm the deletion of the selected animation.

### 3.3 Adding the Frequently Used Category

The frequently used Category can be displayed without being added to a particular Cart as shown below.



1. Click the [Edit] button. The [CONSULT CATEGORY] window appears.

2. Select the desired category on the check box to add to frequently used Category. Then, click the [Close] button.

	CATEGORY	 ×
Cart	Category	Preview
	Favorites	
	<ul> <li>Consult Category</li> </ul>	
	Conservative Dentistry	
	Root Canal Treatment	
	Restorative Treatment	
	Cervical Abrasion	
	Tooth Whitening	
	Development of Disease	
	Prosthodontics	
	Inlay	
	Crown	
	Bridge	
	Laminate(Veneers)	
	Denture	
	Maryland Bridge	File
Ac	id Modify Delete	Add Contents Add Contents Folder
		Close

**3.** The selected Categories are displayed.

### 4. Searching and Playing Consultation Animations

To search and open desired consultation animations, users can select from a list.



1. Click the first list located in CATEGORY. According to treatment subject, Categories are classified. If user wants to verify orthodontics, select [Orthodontics] from the first list.



2. Based on the first selection, the classified categories in detail are listed on the second list. For example, 3 categories are contained in the [Orthodontics] tab. When user selects a category on the second list, Consultation animations that are contained in the second selection are displayed in the thumbnail filmstrip.



**3.** Select and drag and drop one of the displayed consultation animations from the thumbnail filmstrip to the workspace in order to play.



4. By selecting the button below, user can play, pause, fast forward and rewind the selected Consultation animations, and repeat all consult contents or repeat the current one.





If the operating system of the PC installed for EzDent-i is Windows Vista, Consultation animations will not work normally.

### 5. Managing Categories

#### 5.1 Adding User Category

From the category, the user can add a new category, or modify or delete the added categories. Also new contents or folders can be added to the categories.

1. Click the [Edit] button. The [CONSULT CATEGORY] window appears.

CATEGORY	
Orthodontics	•
Orthodontic Diagnosis	*
Edit	

2. Click the [Add] button from the parent category to add a subcategory, which is marked with (-) mark. The [ADD CATEGORY] window appears. But the categories which have the mark, (-) can have a new category added under them.

Cart	Category		Pn	eview							
<ul> <li>Image: A start of the start of</li></ul>	Favorites										
	Consult Category										
~	<ul> <li>Conservative Dentistry</li> </ul>										
~	Root Canal Treatment										
~	Restorative Treatment										
~	Cervical Abrasion										
~	Tooth Whitening										
~	Development of Disease										
	Prosthodontics										
	Inlay										
	Crown										
	Bridge										
	Laminate(Veneers)										
	Denture										
	Maryland Bridge	.	Fil	2							
А	dd Modify Delete			A	dd Co	ntents		Ac	ld Conte	ents Folde	er

3. Enter the category name in the input field and click [OK] button.

ADD CATEGORY	×
OK Cancel	

4. New Category is created and added under the selected category

Orthodontics
Orthodontic Diagnosis
Orthognatic Surgery
Orthodontic Tx
Orthodontic Removable App
Samples (User)

### 5.2 Modifying Category Name

- 1. Click the [Edit] button. The [CONSULT CATEGORY] window appears.
- 2. Select the category to change and click the [Modify] button.

art	Category	Preview
	Oral Surgery	
	Extraction	
	Others	
	Pedodontics	
	Treatment of Primary Teeth	
	Others	
	Oral Medicine	
	TMJ Disease	
	Botox	
	Orthodontics	
	Orthodontic Diagnosis	
	Orthognatic Surgery	
	Orthodontic Tx	
	Orthodontic Removable App	
	Samples (User)	File
Ad	d Modify Delete	Add Contents Add Contents Folder

3. Enter a new name of the category as desired in the [MODIFY CATEGORY] window.

MODIFY CATEGORY	×
Sample Images	
OK Cancel	

4. Click the [OK] button and a window appears stating the new category name has been added successfully. Changing the category name is complete.

### 5.3 Deleting Category

- 1. Click the [Edit] button. The [CONSULT CATEGORY] window appears.
- 2. Select the category to delete and click the [Delete] button.

Cart	Category	Preview
	Oral Surgery	
	Extraction	
	Others	
	Pedodontics	
	Treatment of Primary Teeth	
	Others	
	<ul> <li>Oral Medicine</li> </ul>	
	TMJ Disease	
	Botox	
	<ul> <li>Orthodontics</li> </ul>	
	Orthodontic Diagnosis	
	Orthognatic Surgery	
	Orthodontic Tx	
	Orthodontic Removable App	
	Sample Images (User)	File
Ad	d Modify Delete	Add Contents Add Contents Folder

**3.** The window appears to confirm the deletion of the selected category. Click the [OK] button to proceed with the deletion.

WARNING		×
	You can't restore a deleted category. Are you sure you want to delete it?	
	OK Cancel	

CAUTION

When the existing Category is deleted, the contents saved in that Category will be deleted.

#### 5.4 Adding Consultation Contents to Category

The user can add the images or animated contents (jpg, bmp, png, avi, wmv) or the document type of contents (doc, docx, ppt, pptx, pdf) that are saved in the PC to the category. Users can manage all the contents for Consulting with the patient in EzDent-i.

- 1. Click the [Edit] button. The [CONSULT CATEGORY] window appears.
- 2. Select the category to add a new content and click the [Add Content] button.

art	Category	Preview
	<ul> <li>Oral Surgery</li> </ul>	
	Extraction	
	Others	
	Pedodontics	
	Treatment of Primary Teeth	
	Others	
	Oral Medicine	
	TMJ Disease	
	Botox	
	Orthodontics	
	Orthodontic Diagnosis	
	Orthognatic Surgery	
	Orthodontic Tx	
	Orthodontic Removable App	
	Sample Images (User)	File
Ad	d Modify Delete	Add Contents Add Contents Folder

- 3. Select the desired files from the [Select a Content] window, and click the [Open] button.
- 4. Selected images are saved to the category selected first. If the images are properly saved at the category, completion window will be displayed.

SUCCESS		×
i	The content is saved successfully.	
	ОК	

5. The added contents are displayed in the Preview pane.

CONSUL	T CATEGORY		
Cart	Category	Preview	
~	Favorites		
	<ul> <li>Consult Category</li> </ul>	Surgers -	
~	<ul> <li>Conservative Dentistry</li> </ul>		
~	Root Canal Treatment		
~	Restorative Treatment		
~	Cervical Abrasion		
~	Tooth Whitening		

If user wants to select more than 2 images, hold the Ctrl key on the keyboard and click the desired contents.

6. Enter the name of the contents in the [File] field.

Cart	Category	Preview	
~	Favorites		
	<ul> <li>Consult Category</li> </ul>	Sana Sanat	
✓	Conservative Dentistry	Construction of the second sec	
~	Root Canal Treatment		
✓	Restorative Treatment		
✓	Cervical Abrasion		
✓	Tooth Whitening		
✓	Development of Disease		
	Prosthodontics		
	Inlay		
	Crown		
	Bridge		
	Laminate(Veneers)		
	Denture		
	Maryland Bridge	File PX20180122_152837_3804_57840577	_
A	dd Modify Delete	Add Contents Add Contents Folder	

7. Click the [Close] button

#### 5.5 Adding Consultation Animations by Folder

The image folder in the local PC can be added to a user's consultation contents. In this case, the images in a folder can be added together in a single category.

- 1. Click the [Edit] button. The [CONSULT CATEGORY] window appears.
- **2.** Select a parent category, to which the contents folder will be added, and click the [Add Contents Folder].

Cart	Category		Pre	view				
✓	Favorites							
	Consult Category							
✓	<ul> <li>Conservative Dentistry</li> </ul>							
✓	Root Canal Treatment							
✓	Restorative Treatment							
✓	Cervical Abrasion							
<b>~</b>	Tooth Whitening							
<b>~</b>	Development of Disease							
	<ul> <li>Prosthodontics</li> </ul>							
	Inlay							
	Crown	.						
	Bridge	.						
	Laminate(Veneers)	.						
	Denture	_						
	Maryland Bridge		File					
A	dd Modify Delete			Add Conte	nts	Add Con	tents Folder	

**3.** Select the folder to add from the [Select Directory] window. Click the [Select Folder] button.

4. The completion window appears. Click the [OK] button.



5. The folder is added to the selected category as a sub category. The contents that are saved in the folder will appear in the preview pane.

Cart	Category	F	Preview
~	Favorites		
	Consult Category		The second secon
~	<ul> <li>Conservative Dentistry</li> </ul>		
~	Root Canal Treatment		
~	Restorative Treatment		
~	Cervical Abrasion		
~	Tooth Whitening		
~	Development of Disease		
	Prosthodontics		
	Inlay		
	Crown		
	Bridge		
	Laminate(Veneers)		
	Denture		
	Maryland Bridge	F	File A-B
A	dd Modify Delete		Add Contents Add Contents Folder
		C	lose



Changing the name of the folder Double click the folder in the Directory window to change the name of the folder.

### 5.6 Adding Consultation Images

Users can add consulting contents to a category.

1. Right clicks on the image in the Captured image pane and select the [Add Consult Image] option. The [CONSULT CATEGORY] window appears.



2. Select the category where to add the consulting contents. Consulting contents to add will be shown in the [Preview] area.



**3.** Click the [OK] button, and the content will be saved. If the image is properly saved, a completion notice window will be displayed.

SUCCESS		×
i	The content is saved successfully.	
	ОК	]

### 6. Changing Layout

Users can split the workspace to display more than 2 images or Consultation animations at once. The way to split workspace is called Layout. EzDent-i provides 9 options for its Layout.



For detailed information related with changing Layout, refer to 'Chapter 6. VIEWER Tab > 2. Changing Layout'.

## 7. Tools

### 7.1 Main Tools

Icons	Designation	Description of Features
Low	Panning	Move the image freely
	Zoom	Zoom in or out the image
	Selected Window Capture	Window capture
	Region Capture	Capture the selected area
1	Pointer	Draw a line freely (* Lines drawn with pointer will not be saved)
1	Eraser	Erase overlay
	Turn On/Off Grid	Display grid on the image to check the asymmetry of patients.
C	Reset View	Initialize Move, Zoom

# Chapter 8. REPORT Tab

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### 1. Configuring REPORT Tab

The Report tab helps users record and manage the diagnosis and consult results. It can also be used as a chart as it records the images and treatment history.

EzDent-i can send the report directly to the patient via email or export to a PDF file.

#### 1.1 Workspace

sin Lavent-i								D A
Main Menu EzDent-i	tion / viewer	REPORT	SERVICE		2			Jane 23Y
SAACH SAACH SAACH CAUTURE NAACHS Dee All CAUTURE NAACHS Modely Modely THAFFATT Edit Formpate Chang Congliate Save Report to DB			2000 Up	B				
Open Report	04/04/2000 12:51:22						01/21/00/14/80.1	(1)

- A: These buttons are for inserting image/ text boxes or creating or exporting reports.
- B: The user can insert images or text to make a report.
- C: The pane includes buttons to edit report templates, change report templates or to save reports.



#### Patient Information Anonymization

If you have chosen to use the Privacy Policy Settings (found in [Settings > Others]), the patient information displayed on the PATIENT tab will be marked with asterisks (\*).

### 2. Creating Report

### 2.1 Inserting an Image Box

1. Drag and drop images from the image thumbnail filmstrip to the image box to insert.



The image is displayed with windowing/overlay applied in the VIEWER tab.



Set location of the image information with the [Print Settings] icon



------

**2.** Users can see the image in real size or adjusted to fit the window size. For the real size, the image must have a calibration value.



**Real Size** 

Fit on image box

- When the real size of image is bigger than the image box
  - Right click on the image and click the [Image Edit] menu.



On the Image Edit mode, drag the image to move and display the desired part.



Right click on the image and click the [Image Edit] menu again to close the Image Edit mode.

#### 2.2 Inserting Frequently Used Text

Frequently used text can be saved in the DB. To insert please select from the menu.

Double click the text box to type or edit the text. Use the mouse to change the text box size or to move the box.

- 1. Click [Main menu > Settings > Report > Text].
- 2. Click the [Add] button. The [ADD REPORT TEXT] window appears.

SETTINGS						$\times$
	General	DICOM Print	Text			
Environment	LIST					.
Acquisition					Add Modify	]
Viewer					Delete	)
Simulation	TEXT				]	
Consult						
Report						
Service						
Others						
Initialize Setting	gs			ОК	Cancel	

**3.** Type a title for the text box and its contents for later use here, and click the [OK] button. The frequently used text has been saved in DB.

ADD REPORT TEXT	×
Title	
Text	
OK Cancel	]

- 4. To modify the saved text box and its contents, click [Main menu > Settings > Report > Text], and click the [Modify] button.
- 5. To insert the saved text, go to the REPORT Tab. While a Text Box is in editable mode, right click and the menu list appears. Then select a desired text option from the list menu.

Property
Delete
Tooth Extraction

### 3. Editing Report

#### 3.1 Inserting Image Box

Click the [Insert Image Box] button. The image box is inserted on the report.



Changing properties

To change the properties of the image box, right click on the image box and click the [Property] option. The [IMAGE BOX PROPERTY] window appears.

IMAGE BOX PROPERTY		×
Box Line Type	•	
Box Line	Box Background	
ОК	Cancel	

Deleting image box

Right click on the image box and click the [Delete] option.

#### **3.2** Inserting Text Box

Click the [Insert Text Box] button. The text box is inserted on the report.



Changing properties

To change the properties of the text box, right click on the text box and click the [Property] option. The [TEXT BOX PROPERTY] window appears.

TEXT BOX PROPERTY	×
Text Size           11           Text Color	Text Alignment
Box Line Type	]
Box Line	Box Background
ОК	Cancel

Deleting text box

Right click on the text box and click the [Delete] option.

### 3.3 Changing Template

EzDent-i provides various report templates.

1. Click the [Change Template] button. The [CHANGE TEMPLATE] window appears.



2. Select the desired template and lick the [OK] button.

CHANGE TEMPLATE			×
Default			
Image		Image I	Image Image
in - Image	Image	Image	Image
	Image	Image	Image Text
Image Image Text	Image Image Image	-RPT_Frame2x1L_t	
Template Manager			OK Cancel

3. [CHANGE TEMPLATE] window disappears and the selected template will be applied.


### 3.4 Report Template Manager

Template Manager provides Show/ Hide function for the defaults templates.

User Templates and make it possible to change the name of user templates.

1. Click the [Template Manager] button. The [TEMPLATE MANAGER] window appears.

CHANGE TEMPLATE			×
Default			
Image	Image		Image
Image - Image	Image	Image	Image
	Image	Image	Image Text
Image Image Text	Image Image Image	RPT_Frame2x1L_t	
Template Manager			OK Cancel

2. Check or uncheck the [Show] option for each template to show or side the selected template.

fault Ten		
Show	Name	Rename
~	B RPT_10FMX.tpl	Delete
~	B RPT_14FMX.tpl	
M	A RPT_16FMX.tpl	
×	B RPT_18FMX.tpl	
M	A RPT_22FMX.tpl	
2	B RPT_28itewing.tpl	
er Templ		
Show	Name	
×	RPT_Frame2x1L_trpt	

3. For default templates, [Rename] button and [Delete] button are disabled.

#### 3.5 Edit Report Template

The default templates provided by EzDent-i can be edited by the users.

1. Click the [Edit Template] in the [TEMPLATE] option.

TEMPLATE	
Edit Template	)
Change Template	)

2. "The changes in this report will be deleted. Do you want to save this report?" message will appear. Click the [Save] button to save the report.



- **3.** Create a user template by inserting new image boxes or test boxes based on a default template.
- 4. When template editing is done, click the [End Edit Mode] button to save the edited template.



5. A message asking "Save Template?" appears, then click the [Save as] button and change the [Template Name].

MESSAGE ×	TEMPLATE NAME	$\times$
Edit Template Mode will be terminated. Do you want to save the changed template?	Template Name RPT_14FMX	
Save Save As Don't Save	OK Cancel	

When editing default templates provided by EzDent-I, the [Save] button will be disabled, so only [Save as] option is available.

# 4. Modifying Location and Size of Inserted Text and Patient Images

Users can adjust the size and location of inserted text and patient images.

#### 4.1 Grid

Users can turn the grid function on and off for exact location and size of the image box. You can edit the exact location or the size.

Grouping all objects
Ungrouping all objects
Grid On/Off

#### 4.2 Ruler

Click the empty space on the report to display or hide a ruler.



- Rulers ON for all images: Rulers on all images are hidden from the screen.
- Rulers OFF for all images: Rulers on all images appears on the screen.
- Rulers ON for some images and rulers OFF for some images: Rulers on all images are hidden from the screen.

#### 4.3 Grouping Images

On the report screen, right click and select the [Grouping all objects] option.

All notes and images can be grouped. Users can change the location and resize all grouped images at the same time.

Grouping all objects
Ungrouping all objects
Grid On/Off

Image boxes grouped.

		ImageBax	ImageBox	ImageBox		C	3	
ImageBax I	imageBax				ImageBax	ImageBax		
ImageBox I	imageBax	ImageBax	ImageBax	ImageBax	ImageBax	ImageBax		
							2	
NOTE	If new ima removed f	age or te from the	ext boxe group.	s are in	serted when	all the object	s are grouped, th	ne objects are

# 5. Saving and Importing Report

#### 5.1 Saving Report

1. To save the reports in the BD, click the [Save Report to DB] button. The displayed report in the workspace will be saved.



2. Enter the description of a report in the [Comment] section.

SAVE REPORT	×
En EUX - en	Name 20200525_195201 Comment
Save	Cancel

3. Click the [Save] button.

#### 5.2 Importing Saved Report

1. Click the [Open Report] button in the lower left corner. The OPEN REPORT window appears.

Open Report	
-------------	--

2. Select the report from the report list and click the [OK] button.

Phillippe and a second se	Name	20200422_140038
で田田で	Date	04/22/2020
	Comment	
		14
	Name	20200414_104754
Content Provide Name	Date	04/14/2020
Company of the	Comment	

3. The selected report is displayed.

# 6. Exporting Report

#### 6.1 Send E-Mail

1. To send completed report via email, click the [Send E-mail] button in the [Export] toolbar.



2. The Send E-mail window appears, with images used in the report and a PDF file already attached.

SEND E-MAIL			×
То			
CC			
Recent to			
Subject			
Attachment	PX20180122_152837_3804_57840577	dcm	Convert Report to
	2020-05-25195349	PDF	PDF 🔻
			Convert Image to
			Original
			Patient Information Anonymization
			Apply     Do not apply
Segoe UI	▼ 10 ▼ <b>B</b>		
	Send	Cancel	

- **3.** The user can change the file type of the attachment to JPG, BMP, TIF or PNG by selecting the [Convert Report to] option.
- 4. Fill out the [To], [CC], [Recent to], [Subject] and enter the email message.
- 5. Click the [Send] button.



Chaning the name of Exporting File

Double click or right-click on the file name. Then select [Rename] and modify the file name. However, you cannot the CT file name.

To			×
CC Recent to			
Subject			
Attachment	PX20180122_152837_3804_57840577	dóm	Convert Report to
	2020-05-25195413	PDF	PDF
			Convert Image to Original
			Patient Information Anonymization
			Apply     Do not apply
Segoe UI	•) [10 •]	BIU	

## 6.2 Export

1. To save the report, click the [Export] button.

	ACQUISITION	VIEWER	REPORT	SERVICE	
Main Menu EzDent-i		<b>P;</b>	👻 Export		2

2. Select the location of the file to save when the [EXPORT] window appears.

	<ul> <li>Patient Information Anonymization</li> <li>If you have chosen to use the Privacy Policy Setting Others]), and [Export report] is one of the options ch Patient Information], the option below appears when function.</li> </ul>	osen under [Anonymize
	Patient Information Anonymization	×
NOTE	• Apply	
	OK Cancel	
	If you choose [Apply], the patient information will be file.	anonymized in the resulting

## 6.3 Printing Report

Main Me	nu EzDent-i PATIENT ACQUISITION VIEWER CONSULT REPORT	SERVICE
	<ul> <li>Patient Information Anonymization</li> <li>If you have chosen to use the Privacy Policy Settings Others]), and [Print] is one of the options chosen und Information], the option below appears when you use</li> </ul>	er [Anonymize Patient
NOTE	ANONYMIZATION  Patient Information Anonymization  Apply  OK Cancel  If you choose [Apply], the patient information will be a file.	anonymized in the resulting

1. To print the report, click the [Print] icon on the tool bar.

At this time, the user can set the page range (All, current page, or selected pages) to print.

pinia	
Print	×
General	
Select Printer	
Hancom PDF	Hicrosoft XPS Documen ConeNote for Windows 1(
A Microsoft Print to PDF	🛱 Send To OneNote
<	>
Status: Ready Location:	Print to file Preferences
Comment:	Find Printer
Page Range	
All     Selection     Current Page	Number of copies: 1
O Pages: 0-1	Collate
Enter either a single page number or a single page range. For example, 5-12	
Pr	int Cancel Apply

3. The report is printed according to the page orientation set in the EzDent-i program, and the orientation set in the System Print window is not applied. To set the page orientation, click the [Print Settings] icon and set it in the [PRINT SETTINGS] window.





If the header/footer items are not selected in the [PRINT SETTINGS] window, the Header/footer item boxes are also not displayed. And the image and text boxes are not adjusted toward the header/footer area.

# 7. DICOM Print

You can print a report that you created in the DICOM print. The separate module for DICOM print is available after purchase. You can confirm whether your current license supports DICOM print or not from [Settings > About].

Version	Open Source License Info
ver.3.1.0.0 Console	1.DCMTK
Company	COPYRIGHT
EWOOSOFT Co., Ltd.	Unless otherwise specified, the DCMTK
License	software package has the following copyright:
Activated as trial version. 73day(s) left until it expires.	Copyright (C) 1994-2011, OFFIS e.V. All rights reserved.
Available modules : Patient/Acquisition/Viewer/Consult/Report/ Twain/DicomPrint/DAVIS	This software and supporting documentation
(01)08800019700197	Copyright (C) 2013 by Ewoosoft Co., Ltd. All rights reserved. Warning: This software is protected by copyright laws and international treaty provisions. The act of copying or distributing part or all of the software without prior written permission is strictly prohibited by criminal and civil law and copyright violations will be prosecuted.
	Important Notice : The implant models included in the database of

### 7.1 DICOM Print Setting

It is necessary to set the print property in EzDent-i before using DICOM print.

- 1. Click [Main menu > Settings > Report > DICOM Print].
- 2. Click [Add] button to add the DICOM print property that you have in the PRINT SETTING.

SETTINGS						•
	General	DICOM Print	Text			
Environment	DICOM PRINT					
	O Use	None				
Acquisition	PRINTER SETTINGS					
	Add	Modif	y i	Delete	Calibration	
/iewer	AE Title		Address	Port	Size	
	AL 1158	e 193	Address	Port	3/2 P	
Simulation						
						- 11
						- 11
Consult						
Consult						
Report						
Report						
Report						
Consult Report Service Others						
Report Service						
Report Service						

3. Enter the DICOM print property in each fields in the [ADD DICOM PRINT] window and click the [OK] button.

ADD DICOM PRINT	×
NETWORK SETTINGS AE Title Connection Check	IP Address Port
DICOM PRINT SETTINGS Medium Types BLUE FILM Destination PROCESSOR Trim NO	Magnification BILINEAR  Priority MED  Empty BLACK
ОК	Cancel

#### 4. DICOM Print is added in the setting.

SETTINGS						×
	General	DICOM Print	Text			
Environment	DICOM PRINT					
	O Use	None				
Acquisition	PRINTER SETTINGS					
	Add	Modify		Delete	Calibration	
Viewer	AE Title	IP Addr	ess	Port	Size	
	DICOM PRINT 1	192.168.163.18		505		
Simulation						
Consult						
						-
Report						
Service						
Others						
Initialize Setting	gs			ОК	Cancel	

5. Click the DICOM Print item from the list to select and then click the [Calibration] button.

cquisition	DICOM PRINT				
equisition		None			
equisition	PRINTER SETTINGS				
	Add	Modify		Delete	Calibration
Viewer	AE Title	IP Ad	dress	Port	Size
Simulation	DICOM PRINT 1	192.168.163.1	8	505	
Report					
iervice					
Others					

6. Enter the calibration value of Dicom print in the [PAGE CALIBRATION] window and click the [Save] button.

PAGE CALIBRATION					
8INX10IN					
Test Print	Reference(mm) Horizontal Vertical	50.0 50.0		]: ]:	Real(mm)
	Save		Cancel		

7. Click the [OK] button.

	General	DICOM Print	Text			
Environment	DICOM PRINT					
	O Use	None				
Acquisition	PRINTER SETTINGS					
	Add	Modif	fy	Delete	Calibration	
/iewer	AE Title	IP .	Address	Port	Size	
	DICOM PRINT 1	192.168.16	3.18	505	8INX10IN	
	-					
Consult	-					
Consult						
Report						
Consult Report Service						
Report Service						
Report						

8. Click the [Modify] button to change the AE Title of DICOM Print.

#### 7.2 DICOM Print

1. Click the [DICOM Print] icon on the toolbar after making a report with images. The [DICOM PRINT] window appears as follows.

AE Title	IP Address	Port	Size	
DICOM PRINT 1	192.168.163.18	505	8INX10IN	
-		Co	nnection Check	
Medium Types		Magnification		
BLUE FILM		BILINEAR		
Destination		Priority		
PROCESSOR	*	MED		
Trien		Color of Margin		
NO	*	BLACK		
Number of Copies				
1				
Patient Information Anonymi	zation			
	Do not apply			

Patient Information Anonymization

If you have chosen to use the Privacy Policy Settings (found in [Settings > Others]), and [Print] is one of the options chosen under [Anonymize Patient Information], the option below appears when you use the [Dicom Print] function.

AE Title	IP Address	Port	Size
DICOM PRINT 1	192.168.163.18	505	8INX1
		Co	nnection Che
Medium Types		Magnification	
BLUE FILM	•	BILINEAR	
Destination		Priority	
PROCESSOR	*	MED	
Trim		Color of Margin	
NO	-	BLACK	
Number of Copies			
1			
Patient Information Anonyr	nization		
O Apply	Do not apply		
	Print	Cancel	

If you choose [Apply], the patient information will be anonymized in the resulting file.

- 2. Select DICOM Print that you want from the list and then the print style such as Medium Types, Destination, Trim, Number of .Copies, Magnification, Priority, and Color of Margin.
- 3. Click the [Print] button to print when the setting has been complete.



#### 8. Tools

#### 8.1 Main Tools

Icons	Designation	Description of Features			
	New Report	Creating a new report			
	Page Add	Add a page(s)			
	Page Delete	Delete a page(s)			
	Add Image Box	Add a new image box			
	A Text Box	Add a new test box			
	Print	Print			
	Horizontal Fit	Fill the screen side to side			
1	Vertical Fit	Fill the screen top down			
	Zoom	Enlarge or Reduce the Report page			
	Print Settings	Set print			
	DICOM Print	Print to DICOM file			
	Send Email	Send an email			
	Export	Export to a PDF file			
×L	Turn On/Off Overlay	Show/ Hide all displayed objects.			
NOTE W	hen user adds a new d Footer position	report of page, the report will be created with the latest Header			

# Chapter 9. SERVICE Tab

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5. Viewing Result	205

# 1. Configuring SERVICE Tab

Service tab is based on web service called vatech hub that provides teleradiology. vatech hub enables a user to be connected with a center. If a user request teleradiology, radiologists who have specialized knowledge interpret the image based on the registered information. Then, the user can more accurately and quickly diagnose the patient through the result (Teleradiology Reference, surgical Guide, etc).

#### 1.1 Workspace

vate	ch hub									K
• •	Order Do Status Type or Select V	Cer	d nter pe or Select Value	Select Date	Contains Text	<b>B</b> Q Rese	et Filter		2	Ne
	Alarm 0	Status Ø	Case ID 0	Order Date 0	Patient Name ©		Modality \$	Center ¢	Act	tions
		Sent	A001-20-21053124	09/12/2017	Jake Park		Panorama, Cephalo, CT	Center of SNUH	View Result	6
		Sent	A001-20-21063111	09/12/2017	Chris Hong		Cephalo	Center of SNUH	View Result	6
	•	Declined	A001-20-21053093	09/12/2017	James Jung		Panorama, Cephalo. CT	Center of SNUH	View Result	
		In Progress	A001-20-21063071	09/12/2017	Scarlet Choi		Panorama	Center of SNUH	View Result	3
		In Progress	A001-20-21062910	09/12/2017	Chloe Ji		IO Sensor: Cephalo. CT	Center of SNUH	View Result	
		In Progress	A001-20-21062230	09/12/2017	Dorothy Kim	C	IO Sensor	Center of SNUH	View Result	
		In Progress	A001-20-21062108	09/12/2017	Patrick Jung		Panorama	Center of SNUH	View Result	
	•	Ready	A001-20-21062059	09/12/2017	Zoe Yeon		Cephalo	Center of SNUH	View Result	
	•	Ready	A001-20-21062011	09/12/2017	Jake Park		Johnny Choi	Center of SNUH	View Result	
		Complete	A001-20-21061031	09/12/2017	Jake Park		Danny You	Center of SNUH	View Result	
								4 4 1	2 3	4
	CASE PREVIEW				A001-20-21063124	View Detail		File Send Fail! (Case ID - Patient Name)		
	Order Type		Dental Technology Or	der		1	P	12106225533.dcm	_	_
	Order Center		Center of SNLH			D I	PJ	12106225533.dcm		
	Time Zone		(GMT+09:00) Seoul, Se	outh Korea		U		File Sending (Case ID - Patient Name)		- 1
5	Service Hours		12:30 am - 11h30 pm				P)	12106225533.dcm Sending	_	

- A: The user can search their patients.
- B: The user can align the order list through this filters.
- C: Order List is displayed.
- D: Case/Image Preview

# 2. Starting SERVICE tab



To use vatech hub connected with SERVICE tab, go to [Main Menu] – [Settings] – [Service], and set the connection.

Also, to save result received from vatech hub to EzServer, ID and PW of vatech hub should be entered in TRAgent. TRAgent is a program to receive results from vatech hub and to send them to EzServer.

1. Select the SERVICE tab, and the web view of vatech hub is displayed as shown below. Click the [Sign-in] button at the top of the screen.



 After entering Clinic/Center Email Address, User ID, and Password, click the [Sign-IN]button. If you stay signed in, select the checkbox marked as [Stay signed in]. However, if the password is changed on the website of vatech hub before executing the SERVICE tab, the function is released.

Sign In	
Sign in	
Enter your details below	
Clinic/Center Email Address	
Email Address	
User ID	
User ID	
Password	
Password	ø
Stay Signed in	
Cian In	
Sign In	

# 3. Making Order

1. Search a patient by entering the patient information in the search box at the left of the screen. Otherwise, it is possible to request dental service for the currently selected patient on the order list.

Main M	lenu
	EzDent-i
SEARCH	
Search	+

2. Click the [New Order] button.

		?								20890170	
	vatecl	h hub									K Kim Vateo
earch	0	Order Da	ashboa	rd						<b>_</b>	New Order
	0	Status		Center	Select Date	Contains Text					
	0		he 💌	Type or Select, Value	Al		Q Reset Filter				
		Alarm 9	Status Ø	Case ID \$	Order Date 9	Patient Name #	Modal	ny s	Center 0	Act	iens
			Seet.	A001-20-21063124	09/12/2017	Jake Park	Panorama (	lephalo. CT	Center of SNUH	Viron Result	Confirm
			Sent	A001-20-21063111	09/12/2017	Chris Hong	Cept	vala .	Center of SNUH	Virus Result	Confirm
			Declined	A001-20-21063093	09/12/2017	James Jung	Panorama, C	lephalo. CT	Center of SNUH	View Result	Confirm
			In Progress	AD01-20-21063071	09/12/2017	Scarlet Choi	Panor	uma	Center of SNUH	View Result	Confirm
			in Progress	A001-20-21062910	0%/12/2017	Chice Ji	ID Sensor, C	iephalo, CT	Center of SNUH	Viris Revolt	Conflore (
			is Propess	A001-20-21062230	09/12/2017	Dorothy Kim	IO Se	risor	Center of SNUH	View Result	Candivas
			In Progress	A001-20-21062108	09/12/2017	Patrick Jung	Pano	ama	Center of SNUH	View Result	Confirm
		•	Ready	A001-20-21062059	09/12/2017	Zoe Yeon	Cept	salo	Center of SNUH	View Result	Confirm
		•	Ready	A001-20-21062011	09/12/2017	Jaka Park.	Johnny	(Choi	Center of SNUH	View Result	Confirm
			Complete	A001-20-21061031	05/12/2017	Jake Park	Dann	y Yau	Center of SNUH	View Result	Confirm
										123	4 5 •
		CASE PREVIEW				A001-20-21063124	View Detail IMAGE PI	REVIEW 4 File Ser	nd Fail! (Case ID - Patient Na	me)	
		Order Type		Dental Technology Or	der		1	PX2106225	533.dem 🛛 👘 📜	_	
		Order Center		Center of SNLH				PX2106225	533.dcm 🛛 🖛 💼		
		Time Zone		(GMT+09:00) Seoul, S	outh Korea			< File Ser	nding (Case ID - Patient Na	me)	
	6	Service Hours		12:30 am - 11h30 pm				PX2106225	533.dcm Sentry		
							-	PX2106225	533.dcm		

3. The [New Order] window appears as below.

	New Order	>
1. ORDER TYPE Urgent Order Urgent Order Teleradiology Order Dental Conter Center	Technology Order Center Information Search Center	
3. ORDER FILE		
Modality	Attached File	
Modality	File name         Browse         Preview	
+ Click to add more files (max 10)		
4. PATIENT INFORMATION Patient Name *	Date of Birth * Age * Sex *	
Patient Name	Date of Birth Age Male	•
5. CLINIC INFORMATION Reference Doctor *	Clinic Name *	
Phone 1	Phone 2	
Phone 1	Phone 2	
Email Address *		
Email Address		
Address		
Address		
6. ORDER COMMENT Comment		
We have acquired "Consent to release pr	ersonal information to third parties" from patients Order Cancel	//

Order Type

Select Teleradiology Order or Dental Laboratory Order. Whether the fields below are activated or not is dependent on the selected order type.

Order Center

To select a center, click the [Search Center] button. Then, the [Search Center] window appears. You can search the center that you want.

	C	Favorites		Search		
Country	State	i i i i i i i i i i i i i i i i i i i	Center	Name		
All	- All		• Cents	r Name	Search	
습 EWOO Dent	al Center 🗿	+82-31-123-456	Hwaseong-si, G	yeanggi-da. Korea		
Service Hour	09:00 - 18:30	Urgent Hour 1-	4:00 - 16:30	Response Time	Within 1 hour	
	G Center 0	+82-31-123-456   1	Hwaseong-si. G	yeanggi-da. Korea		
Service Hour	09:00 - 18:30	Urgent Hour 1-	1:00 - 16:30	Response Time	Within 1 hour	
Center of SM	IUH O	+82-31-123-456	Hwaseong-si. G	yeanooi-da. Korea		
Service Hour	09:00 - 18:30	Urgent Hour 1	4:00 - 16:30	Response Time	Within 1 hour	
Center of Th	IUH <b>()</b>	+82-31-123-456	Hwaseong-si, G	yeanggi-da. Korea		
Service Hour	09:00 - 18:30	Urgent Hour 1	4:00 - 16:30	Response Time	Within 1 hour	
T ENG Center	0	+82-31-123-456   1	Hwaseong-si, G	yeanogi-da. Korea		
Service Hour	09:00 - 18:30		4:00 - 16:30	Response Time	Within 1 hour	
Center of Th	IUH <b>O</b>	+82-31-123-456 1	Hwaseong-si, G	yeanggi-da. Korea		
Service Hour	09:00 - 18:30	Urgent Hour 1-	4:00 - 16:30	Response Time	Within 1 hour	

Click the icon next to the center name, and you will see introduction of center. After selecting the desired center, click the [OK] button.



If you select the checkbox marked [Urgent Order], you can receive the result within the time specified by the corresponding center. However, additional cost is required.

Order File

Click the [Upload] button. Slect modality and image. If the corresponding file has been attached, the file name and the modality are displayed.



Only one modalty is selected for teleradiology order and the maximum of 10-modality is selected for dental technology order.

Patient Information

For the patient registered in EzDent-i, the patient information is automatically entered and it can be modified by user.



Patient Information Anonymization

If you have chosen to use the Privacy Policy Settings (found in [Settings > Others]), and [Service] is one of the options chosen under [Anonymize Patient Information], the patient information will be anonymized in the [Patient Information] when you click [new order]

Clinic Information

Based on the current login ID, the clinic information is automatically entered. It cannot be modified by user.

Order comment

Enter the order-related comment.



You should select the checkbox marked 'We have acquired "Consent to release personal information to third parties" from patients'.

- 4. Click the [Order] button at the bottom of the window.
- 5. A pop-up message appears as below. Click the [OK].

	$\times$
<	
Order	
Do you want to continue to order?	
OK Cancel	

6. If making the order is completed, you can check that the corresponding file is being transmitted. After that, the status of order is displayed as 'Sent'.

= File Sending	(Case ID - Pat	ient Name)		•	-	
PX2106225533.dc	cm Sending			50%		
PX2106225533.dc	cm Sent			100% ]		
( Sout )	A001-20-21063111	09/12/2017	Civit Hong	Cephalo	Center of SNUH	View Result
2011	A001-20-21063124	09/12/2017	Jake Park	Panorama, Cephalo, CT	Center of SNUH	View Result Combine

## 4. Order Dashboard

#### 4.1 Arranging Order List

Select the filter condition or enter text at the top of the screen, and the list will be arranged according to each condition.

Click the [Reset Filter] button to initialize the filter condtion.

#### 4.2 Order Status

If the information is modified, it is marked as [•]. In case of emergency order, it is marked as [►]. Also, you can check the processing status of each case.

Alarm \$	Status \$	Case ID \$	Order Date 💠	Patient Name 🕈	Modality \$	Center \$	Actions
	Sent	A001-20-21063124	09/12/2017	Jake Park	Panorama, Cephalo, CT	Center of SNUH	View Result Confirm
	Sent	A001-20-21063111	09/12/2017	Chris Hong	Cephalo	Center of SNUH	View Result Confirm
	Declined	A001-20-21063093	09/12/2017	James Jung	Panorama, Cephalo, CT	Center of SNUH	View Result Confirm
	In Progress	A001-20-21063071	09/12/2017	Scarlet Choi	Panorama	Center of SNUH	View Result Confirm
	In Progress	A001-20-21062910	09/12/2017	Chloe Ji	IO Sensor. Cephalo. CT	Center of SNUH	View Result Confirm
	In Progress	A001-20-21062230	09/12/2017	Dorothy Kim	IO Sensor	Center of SNUH	View Result Confirm
	In Progress	A001-20-21062108	09/12/2017	Patrick Jung	Panorama	Center of SNUH	View Result Confirm
•	Ready	A001-20-21062059	09/12/2017	Zoe Yeon	Cephalo	Center of SNUH	View Result Confirm
•	Ready	A001-20-21062011	09/12/2017	Jake Park	Johnny Choi	Center of SNUH	View Result Confirm
	Complete	A001-20-21061031	09/12/2017	Jake Park	Danny You	Center of SNUH	View Result Confirm

- Sent: Order Data has been sent to the server.
- In Progress: Center has accepted the order.
- Ready: Teleradiology has been completed, so the result has been registered. User can confirm it.
- Completed: The result has been confirmed by user.
- Declined: Center has rejected the order.

## 4.3 Viewing Existing Order

- 1. After selecting an existing order to view, double-click the order.
- 2. The [Order] window is displayed.

2. ORDER CENTER Center		Center Information		
VATECH ENG Center		Time Zone	(GMT+0s	:00) Seoul, South
	Search Center	Service Hours	14:00AM	- 16:30PM
	Jearch Center	Urgent Order		
3. ORDER FILE				
Modality	Attached File			
Panorama	PX2106225533.	dcm	Browse	Preview
4. PATIENT INFORMATION				
4. PATIENT INFORMATION Patient Name *	Date of Birth *		Annet	Sex *
Scarlet Choi	09/08/1996		Age *	Female *
Scaller Chor.	05/00/1550	1003		remare
5. CLINIC INFORMATION				
Reference Doctor *	Clinic Name *			
Ewoo Park	Ewoo Dental Cli	nic		
Phone 1	Phone 2			
031-1234-5678				
Email Address *				
ewoo.park@ewoosoft.com				
Address				
13, Samsung 1-ro 2-gil, Hwase	ong-si, Gyeanggi-da, Rep	ublic of Korea		
6. ORDER COMMENT				
Comment				

3. You can view the order information.



Cancellation of Order

If you want to cancel the order, click the [Order Cancel] button at the bottom of the [Order] window. However, it is possible to cancel only the orders whose status is [Sent] or [Declined].

#### 5. **Viewing Result**

#### 5.1 Viewing Result in SERVICE tab

1. Select an case to view the result. You can view only the case whose status is 'Ready' or 'Completed'.

atus ype or Select Va	lue	r Select Value		atient Name Contain Q	Input Field	Reset Filter	
# Alarm ¢	Status Ø	Case ID \$	Order Date \$	Patient Name 🕈	Modality \$	Center \$	Action \$
01	Sent	A001-20-21063124	09/12/2017	Jake Park	Panorama, Cephalo, CT	Center of SNUH	View Result Coeffires
02	Sent	A001-20-21063111	09/12/2017	Chris Hong	Cephalo	Center of SNUH	View Result Confirm
03 🟲	Declined	A001-20-21063093	09/12/2017	James Jung	CT, Panorama, Cephalo	Center of SNUH	View Result Confirm
04	In Progress	A001-20-21063071	09/12/2017	Scarlet Choi	Panorama	Center of SNUH	View Result Confirm
05	In Progress	AD01-20-21062910	09/12/2017	Chice Ji	CT. Cephalo. IO Sensor	Center of SNUH	View Result Gonfirm
06	In Progress	A001-20-21062230	09/12/2017	Dorothy Kim	IO Sensor	Center of SNUH	View Result Confirm
07	In Progress	A001-20-21062108	09/12/2017	Patrick Jung	Panorama	Center of SNUH	View Result Confirm
05 •	Ready	A001-20-21062059	09/12/2017	Zoe Yeon	Cephalo	Center of SNUH	View Result Confirm
09 •	Ready	A001-20-21062011	09/12/2017	Johnny Choi	Panorama	Center of SNUH	View Result Confirm
10	Complete	A001-20-21061031	09/12/2017	Danny You	Cephalo	Center of SNUH	View Result Confirm

Click the [View] button of the selected case. 2.

View Result

The [Result View] window appears as below. You can view the result and the relevant 3. comment. The result file has already been downloaded in EzDnet-i, so every [Download] button is disabled.

Result Type	File				
Report	A001-20-21063071.pdf	View	Download		
Result Type	File				
Invoice	A001-20-21063072.pdf	View	Download		
Result Type	File				
3D Object	A001-20-21063071.stl	View	Download		
Result Type	File				
Others	A001-20-21063071.png	View	Download		
			ħ		
	ок			1	

NOT

**4.** After that, click the [Confirm] button of the case. If a confirmation message appears, click the [OK] button.

	×			
$\bigcirc$				
	Confirm			
Do you confi	rm the results of A001-20-21062059 case?			
	OK Cancel			
NOTE	If 7days elapses from the first date when you confirmed it first, its status will be dealt with as 'Confirm'.			

5. The status of confirmed case is changed from 'Ready' to 'Completed'.

## 5.2 Viewing Result in the PATIENT tab

- 1. Click the [PATIENT] tab at the top of the screen.
- 2. Select a patient whose teleradiology has been completed.

Chart No.	Name	Date of Birth
20161109_092027	Jake Park	09/27/2016
20130723_204655	Kim Tech	02/07/1985

**3.** Thumbnails of result file are classified by result type. Double click the desired thumbnail, an d a viewer program for each file format will be executed to view the file.

C EzDent-I					- 0 ×	
Main Menu EsDert-i	PATIENT ACCURSITION VIEWER CONSULT					
SEARCH	Chart No. 20161109_092027 Name Jake Park	O Date All	• O Medality	All *		
Search + RECENT PATIENTS LIST Recently Acquired Recently Viewed	Gender/Age Mule / 2V BM Date of Birth 2016-01-01 More Details	10 Sensor				
pocros	Chart No.         Name         Date of Birth           20161109,092027         Jake Park         2015-01-01	10 Carriera	alle skator i generatis en tis en	information of a	STREAM AT MICH.	
	20130723_204656 Kim Tech 2018-01-01	30 Object				
		Report			•	-
	If the viewer prog message will app	ram for the co bear as below.	prresponding	file is not reç		
	WARNING			<b>X</b>		
NOTE	ur	nable to find registere	ed Viewer to open f	iles.		

OK

# Chapter 10. VTFMXLayoutEditor Tool

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- 2. Starting VTFMXLayoutEditor ...... 212
- 3. Adding, Modifying and Deleting FMX...... 213

# 1. Purpose of Using VTFMXLayoutEditor

The user can make customized FMX layouts with images acquired from IO Sensor in Acquisition tab, EzDent-i.

# 2. Starting VTFMXLayoutEditor

To open VTFMXLayoutEditor, click along the following order.

1. Start button  $\rightarrow$  All program  $\rightarrow$  Vatech folder  $\rightarrow$  EzDent-i folder.

	J Vatech
	VTFileManager
<b>b</b>	🍌 EzDent-i
All Programs	🕅 EzDent-i
	VTFileManagerAgent
Search programs and files	VTFMXLayoutEditor

2. Select the VTFMXLayoutEditor item in the EzDent-i folder. Then, the program will be opened.

FMX LAYOUT EDITOR		(cita internet)
+ 🗊 🖉 🗗	R Show Grid R Snap to Grid	
IOSensor		
D 10FMX		
A 14FMX		
A 18FMX		
A 22FMX		
A 2Bitewing		
ABitewing		
A 7Bitewing		
0Camera		
A 10FMX		
	Save	
	Save	

 After running EzDent-i, click [Main menu > FMX Layout Editor] to open the FMX layout editor faster.

Main Menu EzDent-i	
Open	
Export	
Export CT File	
Export to 3rd party	Þ
Analysis	
File Information	
Settings	
FMX Layout Editor	
About	

# 3. Adding, Modifying and Deleting FMX

To create, edit, or delete new FMX layout using VTFMXLayoutEditor, perform the following steps.

#### 3.1 Adding a New FMX

You can add a new layout, modify, and delete with the button on layout list highlighted below. The functions and directions for use are shown below.

Icons	Designation	Description of Features
+	Add layout	Creates a new layout
	Delete layout	Deletes the selected layout
	Rename layout	Modifies the selected layout name
	Copy layout	Create a new layout by copying the selected layout



- 1. Select a layout at random from the default layouts and click [Add Layout] button. The [ADD LAYOUT] window appears.
- 2. Select the file path for saving the layout, enter FMX name, and click the [OK] button.

ADD LAYOUT		×
Name :		
	ОК	Cancel

**3.** The user can make a desired layout with adding, changing direction, minimizing, and deleting the mount.

Icons	Designation Description of Feature		
<b>4</b>	Add horizontal mount	Adds long horizontal rectangle	
<b>P</b> +	Add vertical mount	Adds long vertical rectangle	
C	Rotate to left 90 degree	Changes mount direction to left	
C	Rotate to right 90 degree	Changes mount direction to right	
	Magnify mount size	Magnifies the size of total Layout	
	Reduce mount size	Reduces the size of the total Layout	
	Delete selected mount	Deletes the selected mount	

Icons	Designation	Description of Features
Show Grid	Move mount by Grid	Show/High of Grid
✓ Snap to Grid	Snap to Grid	Moves mount adjusting to Grid paper

What is a mount?

Each of the boxes consisting of FMX layout is called as a mount.



4. Double click the mount to designate the tooth number in the mount. Select the tooth number and click the [OK] button in the [DIALOG] window.

DIALOG														
Tooth Number								]						
Tooth Code	•	Adult	Chi	ld										
18 💧 17 💥	16 <u>)</u>	15	14	13	12	11	21	22	23	24	25	26 🥖	27	28
R8 🎒 R7 🎽	R6	R5	R4	R3	R2	R1	L1	L2	L3	L4	15	16	L7 🕌	L8
48 🟹 47 🎢	46 🍞	45	44	43	42 🦷	41 기	31	32	33 🤇	34	35	36	37 💦	38
					OK		-	ancol						
					OK		C	ancel						

5. After completing the addition, click the [Save] button.

+ 0 2 0	Show Grid Snap to Grid	
IOSensor	R6 R5	
A 10FMX	T	
🔒 14FMX		
👜 16FMX	Concerning and the second s	
A 18FMX	46 45	
ili 22FMX		
B 2Bitewing	$\rightarrow \rightarrow$	
a 4Bitewing	· · · · · · · · · · · · · · · · · · ·	
B 7Bitewing	- A4	
💕 test		
<ul> <li>IOCamera</li> </ul>		
	Save Close	
	Save Close	

6. The [SAVE LAYOUT] window appears and click the [OK] button.

۵	SAVE LAYOUT			Х
	☑ 1 X 1	🔲 1 X 2	🗆 2 X 1	
	☑ Thumbnail (1 + 1)		Thumbnail (2 + 1)	
	1 + FMX + Thumbr	ail	2 + FMX + Thumbnail	
		)K	Cancel	

7. The added layout appears on the list of the [FXM LAYOUT EDITOR] window and the Set, in which the layout is included, is displayed in the tool tip when hovering the mouse over the layout name.

+ 🛍 ⊿ 🗗	Show Grid Snap to Grid	
] IOSensor		R6 PS
i 10FMX		
A 14FMX		
A 16FMX		
A 18PMK		46 45
B 22FMX		
i 2Bitewing		→ →
a 4Bitewing		
A 7Bitewing		
af test		
IOCame[Set1] test		

8. After the layout is saved, go to Acquisition Tab and click the [Layout Manager] button in the ACQUISITION tab to see the layout is added to the list in the.

#### 3.2 Creating a New FMX Layout by Editing Existing One

Create a new layout by copying the selected one. If the user prefers to not make a new layout, you can simply change an existing layout.

1. Click the [Copy Layout] button after selecting the existing FMX layout.

+ 🖮 🖉 📭	
- IOSensor	٦
🔒 10FMX	
🔒 14FMX	
16FMX	
🔒 18FMX	
22FMX	
2Bitewing	
4Bitewing	"
7Bitewing	
🕤 test	
<ul> <li>IOCamera</li> </ul>	

- 2. Enter the file path, FMX name, and click the [Confirm] button.
- The selected layout name has been changed and added. Click [Save] button and then [Close] button after changing the mount. The added layout appears from [Change Layout] in the ACQUISITION tab.

#### 3.3 Renaming FMX layout

You can change the layout name by clicking the [Change layout name] button after selecting the FMX layout.

You can change the corresponding layout in the workspace on the right when selecting one from FMX layout list on the left.

#### 3.4 Deleting FMX layout

You can delete the corresponding layout when clicking the [Delete Layout] button after selecting the FMX layout.
# **Chapter 11. ImplantDB Editor**

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# 1. Purpose of Using ImplantDB Editor

ImplantDB Editor enables users to add implant data to the Implant DB and edit or delete implant data that they added to the DB.

te 9	Model	Show F	ile User	Property A Name		Installed Version
		Show P	ile User	-0		
All	3i		×	Show/Hide		
	AB Implant		x			
	ALLFIT		x	Length (mn	n)	
	Alliance		x	0		
	AlphaBio		×	Occlused Di	iameter (mm)	Apical Diameter (mm)
	Alphatech		x	occiusai bi	arneter (mm)	Percar Gianneler (mint)
	Anthogyr		x			
	AQ8 ABI		x	Preview		
	Bego		х			
	Bicon		×			
5	Biodenta		×			
>	BioHorizons		х			
5	Biomet		x			
5	Biotech		×			
2	BrainBase Corporation		х			
÷	Bredent Implant		x			
5	BTK		×			
5	Camlog		×			
Σ	CHAMPIONS IMPLANTS		х			
				-		



Please refer to Chapter 1. installation for ImplantDB Editor installation.

## 2. Starting ImplantDB Editor

Run ImplantDB Editoras the following steps.

- 1. Press the window start menu to activate program search window.
- 2. Go to VATECH folder and run the VTImplantDBEditor.

🐌 VATECH
🛃 VTDBBackup
VTFileManager
VTImplantDBEditor
VTPatchManager

#### 3. ImplantDB Editor program appears.





# 3. Using ImplantDB Editor

#### 3.1 Adding ImplantDB

- Adding Company
  - 1. Click the top rank category, [All], to activate [Add] button.

Import	Export	Add	Edit	Deleta	Show Hide	Retresh
Category					Property	
	Model	Show	File	User	Name	Installed Version
¥ All						
> 3i				x	Show/Hide	
> AB implan				х		
> ALLFIT				×	Length (mm)	

2. Select [Add] button, type Company Name and clinck [Ok] button.

I Add Company	×
Company Name	
Ok Cancel	

3. The company name is added to the list.

Implant DB Ed	litor				
Import	Export	Add Edit	Delete	Show Hide	Refresh
ategory				Property	
	Model	Show File	User	Name	Installed Version
¥ All			100000	0, Sample	2020/05/25
0. San	nple		0	Show/Hide	
> 3i			×		
> AB Im	plant		×	Length (mm)	

- Adding Line-up
  - 1. Click the company name to add a new line-up to.



2. Select [Add] button, type Company Name and clinck [Ok] button.

Add Line-up	×
Company Name	
0, Sample	
Line-up Name	
Ok Cancel	

3. The line-up is added to the list.

Import	Export	Add	Edit	Delete	Show Hide	Refresh
Category					Property	
	Model	Show	File	User	Name	Installed Version
¥ All		500 B 000			Sample	2020/05/25
♥ 0. Sample				0	Show/Hide	
Sample		0		0	Show	
> 3i				х	Length (mm)	

#### Adding Implant Model

CAUTION

Users can only add implant models that received 510K clearance from FDA. It is the user's responsibility to check the implant models provided by manufacturers and to use models that are already prooved safe for the safety of patients.

1. Click the line-up name to add a new implant model to.

Import	Export	Add	Edit	Delete	Show	Hide	Refresh		
Category					Property				
	Model	Show	File	User	Name		Installed Version	0	
✓ All	101.00 × 44.5				Sample		2020/05/25		
♥ 0. Sample				0	Show/Hid	e			
Sample	n:	0		0	Show				
> 3i				x	Length (m	im)			

2. Select [Add] button and type Model Name.

I Add Model	>
Company	Line-up
0, Sample	Sample
Model Name	
Import STL File	
Length	Occlusal Diameter
10,00 mm	4.00 mm
Apical Diameter	
3,00 mm	
	OK Cancel

- 3. Click [...] next to Import STL File option to import the desired STL file.
- 4. Click [OK], then the selected STL will be added to the list of the parent line-up and company.

Implant DB Editor							- 0
Import	Esport	Add	Edit	Deloto	Show	Hide	Refresh
Category					Property		
	Model	Show	File	User	Name		Installed Version
* AE					Modelt		2020/05/25
✓ 0. Sample				0	Show/Hide		
♥ Sample		.0		0	N/A		
Mo	del1		0	0	Length (m	n)	
) 3i				×	10.00		

#### 3.2 Editting ImplantDB



The default implant models, line-ups, companies provided by EWOOSOFT are not editable so the [Edit] button is disabled.

- Editting Company
  - 1. [Edit] button is enabled when the user select a user-added company.



2. Click the [Edit] button and edit the company name and click [ok] button.

I Edit Company Info	×
Company Name	
123 Sample	
Ok Cancel	

- 3. Implant DB Editor updates the changed company name.
- Editting Line-up
  - 1. [Edit] button is enabled when the user select a user-added line-up.



2. Click the [Edit] button and edit the line-up name and click [ok] button.

Edit Line-up Info	×
Line-up Name	
Line-up AAA	
Ok Cancel	

3. Implant DB Editor updates the changed line-up name.

- Editing Implant Model
  - 1. [Edit] button is enabled when the user select an user-added implant model.

Import Export	Add Edit	Delete	Show	Refresh
Category			Property	
Model	Show File	User	<ul> <li>Name</li> </ul>	Installed Version
¥ All			Model1	2020/05/25
✓ 123 Sample		0	Show/Hide	
✓ Line-up AAA	0	0	N/A	
Model1	0	0	Length (mm)	

2. Click the [Edit] button and edit the Model Name or select a new implant model.

Implant Property Model Name		
Model1		
Length		
10,00 mm		
Occlusal Diameter	Apical Diameter	
4,00 mm	3,00 mm	
File Path		
Preview		

3. Implant DB Editor updates the changed implant model info.

### 3.3 Deleting from ImplantDB



The default implant models, line-ups, companies provided by EWOOSOFT cannot be deleted so the [Delete] button is disabled.

- Deleteing Company
  - 1. [Delete] button is enabled when the user select a user-added company name.

Import	Export	Add	Edit	Delete	Shaw	Hide	Refresh
Category					Property		
	Model	Show	File	User	A Name		Installed Version
Y All					123 Samp	le	2020/05/25
123 Sample				0	Show/Hid	0	
> 3i				х			
> A8 implant				x	Length (m	m)	

2. Warning messages appears. Press [OK] button.



- 3. The selected company name is deleted from the list.
- Deleting Line-up
  - 1. [Delete] button is enabled when the user select a user-added line-up name.

Import	Export	Add E	Sit Delete	Show Hid	e Refresh
Category				Property	
	Model	Show	File User	Name	Installed Version
¥ All				Une-up AAA	2020/05/25
✓ 123 Sampl	e		0	Show/Hide	
Line-up		0	0	Show	
3 21			×	Length (mm)	

2. Warning messages appears. Press [OK] button.

🚺 Warning		×
	You can't restore a deleted Line-up, Are you sure you want to delete?	
	Ok Cancel	

- 3. The selected line-up is deleted from the list.
- Deleting Implant Model
  - 1. [Delete] button is enabled when the user select a user-added implant model.



2. Warning messages appears. Press [OK] button.



3. The selected implant model is deleted form the list.

#### 3.4 Importing/ Exporting

Implant DB Editor exports the selected companies line-ups, models as a form of implant DB file (.imp).

Also it is possible to import implant DB file from the user's PC.

- Importing
  - **1.** Click the [Import] button.

Implant DB Editor				- 0 >
Import Export	Add Edit	Deloto	Show Hide	Betresh
Category			Property	
Model	Show File	User	≜ Name	Installed Version
¥ Al	Anna anna			2017/03/09
> 3i		×	Show/Hide	
> AB Implant		×		
> ALLFIT		х	Length (mm)	
2				

2. Select a file to import on the [Select Files to Import] dialog and press the [Open] button.

+ + + † 🗎 > This PC > D	ocuments	~ õ	,D Search D	locuments
Organize • New folder				(i) • 🗰 🔞
> 🔎 Searches	^ Name	Date modified	Туре	Size
🔰 🔚 Videos	Add-in Express	10/21/2019 1:38 PM	File folder	
🛩 🛄 This PC	Custom Office Templates	9/16/2019 3:27 PM	File folder	
30 Objects	My Received Files	2/19/2020 10:31 AM	File folder	
> Desktop	OneNote Notebooks	2/19/2020 10:37 AM	File folder	
~ 🗄 Documents	Samples	4/28/2020 11:43 AM	File folder	
Add-in Express	WordToHelp	1/23/2020 3:30 PM	File folder	
Custom Office Templates	Skimp	5/21/2020 12:30 PM	IMP File	1,367 KB
My Received Files				
File name: 3i.im	p .	÷	Implant DB fil	le(*.imp) ~
			Open	Cancel

3. Wait until the import process is completed.

Import in Progress	×
Importing IMP File	
	10%
Cancel	

4. The imported imp file is added to the category.

- Exporting
  - 1. Click the [Export] button.
  - 2. Select the location to export the seleted file and press [Select folder]

	ments		~ O	P Search D	ocuments	
Organize + Newfolder					(iii •	0
🗧 📓 Videos	^	Name	Date modified	Туре	Size	
This PC		Add-in Express	10/21/2019 1:38 P	M File folder		
> 3D Objects		Custom Office Templates	9/16/2019 3:27 PN	file folder		
E Desktop		My Received Files	2/19/2020 10:31 A	M File folder		
- 9 Documents		OneNote Notebooks	2/19/2020 10:37 A	M File folder		
Add-in Express		Samples	4/28/2020 11:43 A	M File folder		
Custom Office Templates		Word ToHelp	1/23/2020 3:30 PN	File folder		
My Received Files						
OneNote Notebooks	v					

3. Wait until the export process is completed.

Export in Progress		-	×
-	Exporting company data		
			90%
	Cancel		

4. The exported imp file is created in the selected folder.

- ID, the Xox	- 0.	D Dom .	He Select all
A Copy     Access     Acces	More to * X Delete *	Properties tat	Select cone
Clapsed	Organize New	Open	Select
( + 👸 + This PC + Docume	6	~ 0	P. Teach.D.,
30 Objects	Name Custom Unice lemplates	Date modified with party sor	
Desktop	My Received Files	2/16/2020 10.3	
Documents	OneNote Notebooks	2/16/2020 10.3	
🕹 Downloads	Semples	4/26/2020 11-4	
Music	WordToHelp	1/21/2020 3-30	PM Eletider
- Pictures	3.imp	5/21/2020 12-3	DPM MAPFile

### 3.5 Show/ Hide

Show/Hide button is located on the top ImplantDB Editor dialog to show or hide the selected companies or line-ups. The company or line-up inforamtion is shown/hide on list on the Implant simulation dialog.



# Chapter 12. TRAgent

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# 1. Using TRAgent

TRAgent is a program that receives the reading result from vatech hub and sends it to EzServer.

#### 1.1 Starting TRAgent

TRAgent is automatically executed when your PC is started.

#### 1.2 Exiting TRAgent

Click the TRAgent tray icon, and its context menu will appear. Click [Quit].



#### 1.3 Setting

Click the TRAgent tray icon, and its context menu will appear. Click [Setting].

TRAgent Setting	?	$\times$
vatech hub       URL       Clinic Email Address (Account Mail         https://api,vatech-hub.com       Interpretent of the system of the syste	anager)	
Close		

 vatech hub: Input the URL and the user's account information and click on [Test] to check the connection.

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