



Veraview X800

INSTRUCTIONS FOR USE



This manual is for making cephalo exposures. Use it along with the manual for panorama and CT exposures.

Thinking ahead. Focused on life.

Table of Contents

1	Prevent Accidents	3
2	Parts Identification	4
3	Before and After Use	6
	3.1 Operation Conditions	6
	3.2 Set Up	6
	3.3 Start-up Inspection	
	3.4 After Use	11
4	Cephalo Exposure	
	4.1 Exposure Types and Functions	
	4.1.1 Exposure Area (ROI: Region Of Interest)	
	4.1.2 Partial Cephalo	
	4.1.3 Density Compensation (Dens Comp)	
	4.2 Operation and General Settings	
	4.2.1 Cephalo Display	
	4.2.2 Settings	
	4.2.3 Positioning Beam	
	4.3 Lateral, PA, and 45° Angle Exposures	
	4.3.1 Preparation	
	4.3.2 Patient Entry and Positioning	
	4.3.3 Exposure	25
	4.3.4 Patient Egress	
	4.3.5 Image Transmission	27
	4.4 Hand Exposure	
	4.4.1 Preparation	29
	4.4.2 Patient Entry and Positioning	
	4.4.3 Exposure	
	4.4.4 Patient Egress	
	4.4.5 Image transmission	
	4.5 Cephalo Image Enhancement	
	4.5.1 AIE (Auto Image Enhancement)	35 حد
	4.5.2 Examples of Ale images	
_		
5	Maintenance, Parts Replacement, and Storage	40
	5.1 Maintenance	
	5.2 Replacement Parts	
	5.3 Storage	41
6	Troubleshooting	42
	6.1 Troubleshooting	
	6.2 Error Messages	

1 Prevent Accidents

1.1 Attention Customers

This manual is for making cephalo exposures with the Veraview X800. It must be used along with the Veraview X800 manual for panorama and CT exposures. Keep this manual in a readily accessible place for quick and easy reference.

1.2 Prevent Accidents

Most operation and maintenance problems result from insufficient attention being paid to basic safety precautions and not being able to foresee the possibilities of accidents.

Problems and accidents are best avoided by foreseeing the possibility of danger and operating the unit in accordance with the manufacturer's recommendations. First, thoroughly read all precautions and instructions pertaining to safety and accident prevention; then, operate the equipment with the utmost caution to prevent either damaging the equipment itself or causing bodily injury.

The following symbols and expressions indicate the degree of danger and harm that could result from ignoring the instructions they accompany:



CAUTION A hazard with a low risk of minor or moderate injury if not avoided.

(Usage Note) This informs the user of important points concerning operation or the risk of equipment damage.

The user (i.e., healthcare facility, clinic, hospital etc.) is responsible for the management, maintenance and use of medical device.

Disregarding the information on safety is considered ABNORMAL USE.

This equipment must only be used by dentists and other legally licensed professionals.

Do not use this equipment for anything other than its specified dental X-ray exposure purpose.

Caution: Federal law restricts this device to sale by or on the order of a dentist and a licensed healthcare practitioner.(for USA)

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2 Parts Identification

Main Unit



Cephalo Unit



Control Panel Blue icons and the Ready key are activated by touch.



Do not press down with excessive force on either of the control panels. Do not press on the panels with any sharp objects like ballpoint pens or fingernails etc.

Do not use the Beam On/Off or Lift Up/Down switches while touching some other part of the panel.

Patient Positioning Tools and Consumable Parts

- Hand Plate (1)
- Ear Rods (2)

3 Before and After Use

3.1 Operation Conditions

• Use the Veraview X800 under the following conditions:

Temperature: +10°C to +35°C (+50°F to +95°F) Humidity: 30% to 75% (without condensation); Atmospheric Pressure: 70 kPa to 106 kPa

- * If an accident occurs, the equipment must not be used until repairs have been completed by a qualified and trained technician authorized by the manufacturer.
- * Have patients remove glasses, earrings and any other accessories that might interfere with the exposure.
- * Before use make an initial inspection to make sure the unit will operate properly and safely.

3.2 Set Up

3.2.1 Start i-Dixel WEB



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1. Start i-Dixel or i-Dixel WEB

Start the i-Dixel or i-Dixel WEB software (hereinafter referred to as "i-Dixel WEB").

2. Retrieve a registered patient

Enter the patient ID in the search field and click the search icon (A). To use the patient list, select a patient and then double-click it.

Register a New Patient

To begin, register a patient. Click the icon **B** to register a new patient. Fill out the form that appears and then click the Register button.



An image list will appear.

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i-Dixel

i-Dixel

i-Dixel WEB



3. Open X800 Exposure window

Click the X800 Exposure Window icon (**C**). When the window opens, an exposure can be made.

ACAUTION

- When a patient is selected with i-Dixel WEB, the patient name appears on the title bar for the X800 Exposure Window. Before making the exposure, make sure the name on the title bar is the name of the patient subject to the exposure. If it is not the right name, close the window, and then click the icon (C) to reopen the window. Check that the right name appears on the title bar, and then make the exposure. If the wrong name is on the title bar, the exposure data will be saved for the wrong patient.
- If multiple tabs or windows are open for i-Dixel WEB, processing can become unstable and this could lead to saving data in the wrong patient file or not being able to make the exposure. Do not fail to close all tabs and windows before clicking the icon (C) for the X800 Exposure Window.
- * Do not fail to open the X800 Exposure Window before making an exposure.
- * For details refer to the Instructions for Use for i-Dixel WEB.

3.2.2 Safety Check for Moving Parts



For safety, make sure that fingers will not be pinched before moving any parts.

ACAUTION

• Keep fingers away from gaps and openings of moving parts such as the head positioner as well as the holes on the support column.

Emergency Stop Switch



In Case of Emergency

Press the Emergency Stop switch. This will stop the arm rotation and X-ray emission.

* Never use this switch except in the case of an emergency.

• After Pressing the Emergency Stop switch.

- 1. Guide the patient away from the unit and turn off the Power switch.
- 2. Restore the unit to a safe condition.
- 3. Turn the Emergency Stop switch in the direction shown by the arrow in the illustration until it clicks to release it.
- 4. Restart the computer.
- 5. Turn on the Power switch.
- 6. Check the panorama, CT, and cephalo exposure operation.

If the unit cannot be returned to a safe condition or will not operate, contact your local dealer or J. MORITA OFFICE.

3.2.3 Start Main Unit



Press the side of the Power switch on the lower part of the column that is marked with a line (|).

The unit will turn on and the blue Power LED on the control box will light up.

ACAUTION

- Do not press the Power switch if the patient is near or inside the equipment. Otherwise, the arm will rotate and the control panel support will move and could injure the patient.
- If the Emergency Stop switch has been inadvertently pressed while the unit was being cleaned etc., the unit cannot be turned on. Release the Emergency Stop switch, and then turn on the unit.
- When starting up the Veraview X800 right after turning it off (e.g., rebooting the equipment), wait at least 5 seconds to turn it on again. Failure to do so could result in malfunction or damage to the equipment.

The "PC and cassette communication check" dialogue box will appear.

• If the temporal stabilizers are open, a message will appear warning to check them. The arm might hit them so turn the knob and close them.

Initialization

The unit will move to its initial position. The arm will move in multiple directions so ensure the immediate area is clear of obstructions before proceeding. If a patient is positioned in the unit, have them exit the unit before proceeding.

PC and cassette communication check

Please wait while communication between the digital cassette and PC is verified.



Then the "Initialization" dialogue box will appear.

If the patient is already in position, have him step away from the equipment.

Check the area and then click the "Ok" button.

The arm will move to the patient entry position.

▲ CAUTION

• Do not fail to move the patient away from the equipment and check the area for safety before initializing the equipment. Otherwise, the arm might move and it could hit the patient.

3.3 Start-up Inspection

Before use make a start-up inspection to make sure the unit will operate properly and safely.



4. Image Display

A message will appear in i-Dixel WEB that says "Transferring image!", and after about 30 seconds the inspection image will appear.

5. Delete the inspection data

Delete the data acquired during the inspection exposure.

3.4 After Use

3.4.1 Turn Off the Unit



Press the side of the Power switch marked with a circle (\bigcirc). The unit will turn off. The Ready and Power LEDs will turn off.

ACAUTION

• Do not fail to turn off the Power switch. This prevents the risk of current leakage, inadvertent operation, etc.

When starting up the Veraview X800 right after turning it off (e.g., rebooting the equipment), wait at least 5 seconds to turn it on again. Failure to do so could result in malfunction or damage to the equipment.

4 Cephalo Exposure

4.1 Exposure Types and Functions

4.1.1 Exposure Area (ROI: Region Of Interest)

Lateral

Lateral cephalometric exposure.



Lateral Exposure

PA (Posterior-Anterior)

PA cephalometric exposure.



PA Exposure

📕 45° Angle

Cephalometric exposure at 45° angle.

Hand

Cephalometric hand exposure.

4.1.2 Partial Cephalo

A partial cephalometric exposure trims the X-ray field and reduces the patient's X-ray dosage.

There are three ways to trim a lateral exposure, and one way to trim a PA exposure.

Lateral Exposure



PA Exposure





Partial Cephalometric Exposure

4.1.3 Density Compensation (Dens Comp)

This is used for an image that will show both soft and hard tissues.

The speed of the X-ray detector's movement and the tube current are changed to get an image with easily discernible gray scale.

The starting position for density compensation can be adjusted in 5 mm increments to match the size of the patient.

Intended ROI

Lateral and PA exposures

4.2 Operation and General Settings

4.2.1 Cephalo Display



A. Settings Key

Hold down this key to save the current settings.

B. Ready Key

Shows that the unit is in the ready state.

Cephalo Control Panel

- This key blinks when the Power switch is turned on.
- Touch it before guiding the patient into position. It stays on when it is touched to show that the unit is in the ready position. The X-ray head will turn to its cephalo direction and the arm will automatically go to its cephalo exposure position.



A. In/Out Switch

Touch for patient entry and egress. The cephalo slit and X-ray detector will move forward into their start positions.

B. Start Position Switch

The cephalo slit and X-ray detector will move forward into their start positions.

C. Horizontal Beam On/Off Switch

The X-ray detector moves and the horizontal beam turns on or off.

Do not press down with excessive force on the control panel. Do not press on the panels with any sharp objects like ballpoint pens or fingernails etc.

4.2.2 Settings

2. Exposure Area (ROI)	3. Patient Size (Size)	4. Density Compensation (Dens Comp)	5. Dens. Comp. Start Pos. (SoftTissue)	6. Exposure Setting (Exp)	7. Tube Voltage (kV)	8. Tube Current (mA)
Lateral	۶C	On	10 5 0 -5 -10		100 95	10 9
PA	୍ୟ ^s	Off		M (Manual Exposure)	90 85 80	8 7
45° Angle	٨			Off (No X-ray Emission)	75 70	5
Hand	۲Ľ				65 60	3

Patient Size and Tube Voltage / Current



Tube voltage and current are adjusted according to patient size. The set values for patient size is the

sagittal length of the skull (A).

	C	S	M	L
	(Child)	(Small)	(Middle)	(Large)
Sagittal Length	max.	max.	max.	max.
(A)	17 cm	17 cm	19 cm	21 cm
Tube Voltage	100 kV	100 kV	100 kV	100 kV
Tube Current	6 mA	8 mA	10 mA	10 mA

* The above values are estimates only. The dentist should judge this by the patient's body type, skeletal structure etc.

4.2.3 Positioning Beam

Horizontal Beam

Line this up with the patient's orbitale.



4.3 Lateral, PA, and 45° Angle Exposures

4.3.1 Preparation



1. Select the cephalometric exposure mode.

Touch the Ceph key to select the cephalometric exposure mode.

2. Select the exposure area

Touch the icon to the right of "ROI" to select the region of interest. Nh, ROI ۰, ΡA Hand Lateral 45° Ángle 3. Select patient size Touch the icon to the right of "Size" to select the patient size. ΩM ႙ၭ ၐ <mark>گ</mark>ر Size S M Child L

4. Set density compensation

* Lateral and PA only.

Touch the icon to the right of "Dens Comp" to turn it on and off.





6. Make exposure setting

Touch the letter under "Exp" to make the exposure setting. * The auto feature cannot be used for cephalo exposures.



Off No X-ray emission This is used to observe the movement of the cephalo slit without emitting X-rays.

7. Set tube voltage

Touch the number under "kV" to set the voltage. It can be set from 60 – 100 kV in 5 kV increments.

100-Current Setting -Increase ----Decrease Ok-Set

Patient Size	С	S	Μ	L
Estimated Tube Voltage [kV]	100	100	100	100

8. Set tube current

Touch the number under "mA" to set the tube current. It can be set from 2 – 10 mA in 1 mA increments.

10-Current Setting -Increase - Decrease mΑ Ole-Set

Patient Size	С	S	Μ	L
Estimated Tube Current [mA]	6	8	10	10



9. Select areas to cut

* Lateral and PA only, as necessary.

To reduce the patient's X-ray dosage, no X-rays will be emitted to selected areas.

Touch the rectangular areas in the cephalo image to make them black and stop them from being exposed to X-ray emission. Touch an area again to restore it to original and allow X-ray exposure.





10. Check temporal stabilizers

Check that the temporal stabilizers used for panorama exposures are completely closed.



11. Touch Ready key

Touch the Ready key.

The X-ray head will turn to its cephalo direction and the arm will automatically move to its cephalo exposure position.

ACAUTION

• Make sure the patient is not near the unit when you touch the Ready key. Otherwise the arm might hit the patient.

Never move the arm manually. The arm might not be set in the proper cephalo position if it is suddenly moved by hand. Also, it may come into contact with persons in the nearby vicinity when it is moving to its cephalo position. If the arm has been inadvertently moved manually or hits something when it is moving, touch the Pan key. Then touch the Ceph key again and touch the Ready key.

If the temporal stabilizers are not completely closed or if the patient has not left the unit after the exposure, an error message may appear in the control panel.



12. Set cephalo head positioner

Set the head positioner at the correct angle for the intended exposure.



If for a PA exposure, the nasion plate is slid to the outside, something could be damaged. Always put it up as shown in the illustration.

When rotating the head positioner, swing the nasion plate down and move it inside. Hold the ear rod plates at their bases and carefully rotate the head positioner.



To move the nasion plate, grip it by its base. It could break if it is gripped by the end.

Hold the ear rod plates, one in each hand and open them up completely.



Move the nasion plate to the outside and swing it up.

ACAUTION

• When swinging the nasion plate up, swing it in the direction shown in the illustration. Swinging it in the opposite direction will break it.



13. Put ear rods on

Put the ear rods on their shafts.

MARNING

• Disinfect the ear rods and the nasion plate after each use by wiping it with ethanol (70 vol% to 80 vol%). Replace it if it is worn, damaged, or dirty.



3. Insert ear rods

Use the Up and Down switches to raise or lower the unit so that the ear rods are line up with the patient's outer ear orifice.

•When lowering the cephalo unit and cephalo support, take care that it does not hit the patient.

Before inserting the ear rods warn the patient not to move until the exposure is finished.

Insert the right ear rod first (A).

Then carefully close the ear rod plates with both hands and carefully insert the left ear rod (**B**).

- Move the ear rod plates very carefully when inserting the ear rods. Do not raise or lower the cephalo unit after inserting the ear rods. Otherwise, the patient could be injured.
- If the patient moves during emission, the detector or the slit might hit him resulting in image distortion or some other exposure failure.





4. Patient positioning

* Lateral only

Press the Beam On/Off switch.

The X-ray detector will move and the horizontal beam will light

Move the patient's head to line it up with the beam.

Check that the beam is lined up with the patient's orbitale (A) and that the patient's mid-sagittal plane is perpendicular.

WARNING

• The laser beam could damage a person's eyesight; never look directly into the beam and let it strike anyone's eyes.

Adjust the height of the nasion plate and then carefully put it against the patient's nasion.

5. Press Exposure Start Position switch

Press the Exposure Start Position switch.

The detector and the cephalo slit will move to their start position and the unit will go into Ready state.

At this time, make sure that neither the detector nor the slit contact the patient.

Tell the patient you are going to start the emission with a clear and sufficiently loud voice and then go out of a X-ray room.

4.3.3 Exposure



1. Check ready state

Check that the Ready key on the control panel and the Ready LED (green) on the control box are on.

2.X-ray emission

Hold down the Emission switch.

Emission will start after a few seconds and the cephalo slit will move.

The Emission LED (yellow) on the control box will light up and the melody will sound.

As much as 15 seconds could elapse from the time the emission switch is pressed until X-ray emission actually starts. This is not abnormal. It takes some time for the unit to verify the computer settings.

MWARNING

• In an emergency, release the Emission switch or press the Emergency Stop switch. X-ray emission, the detector and the slit will all stop immediately.

- Go outside the X-ray room to press the Emission switch.
- If the operator must stay in the X-ray room for some reason, he should wear an X-ray protection apron and stay at least 2 meters away from the X-ray emission focal point. Also he should stay outside the area exposed to X-ray emission.
- Keep holding down the Emission switch until X-ray emission has been completed. If the switch is released during emission, the exposure will be terminated.
- If X-ray emission has been terminated before completion of the exposure, move the patient away from the unit. Then repeat the patient positioning and the emission procedure.
- * It is a good idea to have a mirror for the patient to see himself to help him make sure he does not move.



3. Exposure completed

The melody stops when the exposure has been completed. Release the Emission switch and put it in its holder on the control box.

4.3.4 Patient Egress



4.3.5 Image Transmission



1. Image transmission

After the exposure is completed, the image is sent to i-Dixel WEB.

During transmission, the Ready LED is red and blinks on and off.



2. Image reconstruction

A message will appear in i-Dixel WEB that says "Transferring image!", and after about 30 seconds the image will appear.

After transmission has been completed, the Ready LED on the control box and the Ready key in the control panel will turn green and blink on and off.

A two-toned beep sound when transmission has been completed and the LED turns green and blinks, but another exposure cannot be made until the image appears in the computer screen.



- * Automatic density compensation is used for digital exposures to make a better image. However, if some areas of the image are exceptionally dark, the density compensation will tend to make the entire image whiter than usual.
- * Horizontal lines divide the image into three parts. These lines are only visible when the image is magnified. These lines are where the 3 sections of the detector are joined and are not abnormal or a sign of a malfunction.



* There are 3 steel balls with a diameter of 1 mm in the center of the nasion plate spaced 5 mm apart. For making measurements directly on i-Dixel WEB, the default setting for these is 5 mm, but exported data is magnified 1.1 X.

These balls can be used to estimate lengths when, for instance, using analysis software etc.

4.4 Hand Exposure





5. Set tube voltage

Touch the number under "kV" to set the voltage. It can be set from 60 – 100 kV in 5 kV increments. Estimated voltage: 65 kV (all patient sizes)



6. Set tube current

Touch the number under "mA" to set the tube current. It can be set from 2 – 10 mA in 1 mA increments. Estimated current: 4 mA (all patient sizes)





7. Check temporal stabilizer

Check that the temporal stabilizers used for panorama exposures are completely closed.

Pan Ceph CT	8. Touch Ready key
O0.00 s 0000.0 mGy-cm ² ROI	Touch the Ready key.
Size RM	The X-ray head will turn to its cephalo direction and the arm will automatically go to its cephalo exposure position.
Exp kV mA M 65 4 Ready	• Make sure the patient is not near the unit when you touch the Ready key. Otherwise the arm might his the patient
	wise the arm might hit the patient.
	Never move the arm manually. The arm might not be set in the proper cephalo position if it is suddenly moved by hand. Also it might hit the dentist in the shoulder or some other place when it is moving to its cephalo position. If the arm has been inadvertently moved manually or hits something when it is moving, touch the Pan key. Then touch the Ceph key again and touch the Ready key.
	If the temporal stabilizers are not completely closed or if the patient has not left the unit after the exposure, an error message may appear in the control panel.
	Put on hand plate
	Put the hand plate on the patient guard.
	AWARNING
	• The hand plate must be disinfected by wiping it with ethanol (70 vol% to 80 vol%) after each patient. If the patient has an open or bleeding wound on his hand, cover the plate with something to keep the plate from being contaminated.
	10. Set cephalo head positioner
	Set the head positioner in the PA exposure position
	Fold the nasion plate up and open the ear rod plates all the way.

4.4.2 Patient Entry and Positioning



1. Patient entry

Have the patient place his hand inside the rectangle on the hand plate.

ACAUTION

• Make sure nothing other than the patient's hand is inside the rectangle on the hand plate.



2. Press Exposure Start Position switch

Press the Exposure Start Position switch. The detector and the cephalo slit will move to their start position and the unit will go into **Ready state**.

At this time, make sure that neither the detector nor the slit contact the patient.

Tell the patient you are going to start the emission and then go out of a X-ray room.

4.4.3 Exposure



1. Check ready state

Check that the Ready key on the control panel and the Ready LED (green) on the control box are on.

MUIT MUIT C Ready Power Output

2.X-ray emission

Hold down the Emission switch.

Emission will start after a few seconds and the cephalo slit will move.

The Emission LED (yellow) on the control box will light up and the melody will sound.

As much as 15 seconds could elapse from the time the emission switch is pressed until X-ray emission actually starts. This is not abnormal. It takes some time for the unit to verify the computer settings.

MWARNING

• If an emergency occurs, release the Emission switch. Or press the Emergency Stop switch. X-ray emission, the detector and the slit will all stop immediately.

ACAUTION

- Go outside the X-ray room to press the Emission switch.
- If the operator must stay in the X-ray room for some reason, he should wear an X-ray protection apron and stay at least 2 meters away from the X-ray emission focal point. Also he should stay outside the area exposed to X-ray emission.
- Keep holding down the Emission switch until X-ray emission has been completed. If the switch is released during emission, the exposure will be terminated.
- If X-ray emission has been terminated before completion of the exposure, move the patient away from the unit. Then repeat the patient positioning and the emission procedure.

3. Exposure completed

The melody stops when the exposure has been completed. Release the Emission switch and hang it in its holder on the control box.



4.4.4 Patient Egress



4.4.5 Image Transmission



1. Image transmission

After the exposure is completed, the image is sent to i-Dixel WEB. During transmission, the Ready LED is red and blinks on and off.



2. Image display

A message will appear in i-Dixel WEB that says "Transferring image!", and after about 30 seconds the image will appear.

After transmission has been completed, the Ready LED on the control box and the Ready key in the control panel will turn green and blink on and off.

A two-toned beep sound when transmission has been completed and the LED turns green and blinks, but another exposure cannot be made until the image appears in the computer screen.

4.5 Cephalo Image Enhancement

If it is hard to identify measurement points in Cephalo images, the Auto Image Enhancement (AIE) software feature of the i-Dixel WEB can be used to identify them more precisely.

4.5.1 AIE (Auto Image Enhancement)

The AIE software feature equalizes the density for panorama and cephalo images and makes them sharper and clearer.

Using and Making Settings for AIE:



AIE Default Settings

You can make AIE default settings so that the AIE feature is applied to every image automatically. To make default settings, go to the Maintenance page and then click the Imaging tab.

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General Export	Staff Dr	iver Display Naviga	ition Bar Tool Par	e Imaging a	tabase DICOM						
	Sharpnes	s / AGS				correction			Sigmoid/G	amma ——	
	Auto	Туре	Sharpness	AGS Level	Auto	Correction type	Value	Level	Auto		
ст			(11049)			Auto correct -	(-30 to 30) 0	Low		Siamoid1	-
IntraOral		Sharpness Only	7	Disabled -		Auto correct •	0	Low		Sigmoid1	-
Panorama		Sharpness -	7	Low -		Auto correct -	0	Low		Sigmoid1	-
тмј		Sharpness Only	7	Disabled -		Auto correct -	0	Low -		Sigmoid1	-
Sinus		Sharpness Only	7	Disabled 👻		Auto correct -	0	Low		Sigmoid1	
Bitewing		Sharpness -	7	Low		Auto correct -	0	Low		Sigmoid1	-
Camera		Sharpness Only	7	Disabled -		Auto correct -	0	Low -		Sigmoid1	-
DR / XII-Still		Sharpness Only	7	Disabled 👻		Auto correct 🔹	0	Low		Sigmoid1	•
Cephalo		Sharpness Only	7	Disabled 💌		Auto correct -	0	Low		Sigmoid1	•
OtherImage		Sharpness Only	7	Disabled 👻		Auto correct -	0	Low 🔻		Sigmoid1	-
						7					
	Auto	Туре	Level	Level	Boost						
Panorama		AIE	Standard -	50%							
TMJ		AIE 👻	Standard ど	50%			Reset				
Bitowing		AIE 🗾	Standard	50%		_					
Copholo			Standard	50%							
Cephaio		AIE Only	Disabled	50%							
		Save corrected imag	e as original								
						·			OK	Cancel	Apply
										Gancer	Лрру

[NOTE]

It may take longer to process images when the AIE function is used, especially in the following cases:

- When there is not much memory available
- When the CPU clock is slow
- If the exposure is made while many image windows are open

Turning the AIE Boost on will increase the contrast and sharpen the image, but, at the same time, it also brings out noise and creates a grainier image. It may also create artifacts on the edges of teeth and prosthetic devices. In other words, AIE Boost has both advantages and disadvantages.

4.5.2 Examples of AIE Images

These examples show the difference between turning the AIE Boost on and off.

Make Measurement Points Clearer



- A. Check the Apply box
- B. Select the AIE
- **C**. Set the AIE Correction Level
- **D**. Turn the AIE Boost off



Without using AIE



With Low AIE Correction Level and AIE Boost turned off

Make Measurement Points Even Clearer



- A. Check the Apply box
- **B**. select the AIE
- C. set the AIE Correction Level
- D. and turn the AIE Boost on



Without AIE



With Low AIE Correction Level and AIE Boost turned on

Horizontal Lines in Cephalo Images

Horizontal lines that seem to divide the image into sections may be visible. These lines are produced by the lines where the three sections of the sensor are joined. They are not due to a malfunction of the Veraview X800 or the i-Dixel WEB.

[NOTE]

Applying the Sharpness Filter will make measurement points even clearer and easier to identify but will also make the image grainier.

4.6 Notes for Exporting Cephalo Data to Analysis Software

Whenever cephalo data is exported to analysis software, calibration must be performed to create compatibility between the cephalo image and the analytic software.

• Accurate measurements cannot be made if calibration is not performed.

* Cephalometric image data is equivalent to 96 µm pixels = (264.58) dpi.

4.6.1 Calibration Data

The calibration data for the cephalo unit is on the CD-R provided: Chart (264 dpi).jpg.

Keep the calibration data in a handy, safe place.

It is recommend that you copy the data onto your hard drive in a folder named "C:\Program Files\3dxcom".



CD-R

4.6.2 How to Use Calibration Data



5.1 Maintenance

Always turn off the Power switch before performing regular maintenance.



WARNING

- Do not fail to turn off the Power switch. This will avoid the risk of electric shocks, burns, or accidentally pressing a switch.
- When disinfecting with ethanol (70 vol% to 80 vol%), take care that none of it seeps inside the unit. This could damage mechanical parts.

Never use alkaline or acidic solutions, cresol soap, or other chemical solutions to clean outer surfaces. These can cause discoloration and material degradation.

Use only ethanol (70 vol% to 80 vol%) or a neutral detergent.

- Use ethanol (70 vol% to 80 vol%) to immediately wipe off any water, detergent or other chemicals that get on the outer surfaces.
- The ear rod plates, nasion plate, ear rods, and hand plate cannot be autoclaved.

If it is not possible to obtain ethanol (70 vol% to 80 vol%), use one of the disinfectants listed below; do not use any other type of disinfectant.

- DÜRR DENTAL's FD 322 quick disinfectant
- DÜRR DENTAL's FD 333 quick disinfectant
- DÜRR DENTAL's FD 360 imitation leather cleaning and care
- DÜRR DENTAL's FD 366
 sensitive Rapid disinfection

5.2 Replacement Parts

- * Replace the parts as necessary depending on degree of wear and length of use. Refer to the manual of Panorama and CT, "12 Service Life, Consumables, and Replacement Parts" (p.112).
- * Order parts from local dealer or J. MORITA OFFICE.

5.3 Storage

Store the Veraview X800 under the following conditions:

Temperature:-10°C to +50°C (+14°F to +122°F); Humidity: 20% to 80% (without condensation); Atmospheric Pressure: 50 kPa to 106 kPa

- Do not expose the equipment to direct sunlight for an extended period of time.
- Store ear rods, and hand plate in a clean, uncontaminated area.
- If the unit has not been used for a long time, make sure it works properly before using.

6 Troubleshooting

6.1 Troubleshooting

If the equipment does not seem to be working properly, the user should first inspect the locations described below.

- * If the user is unable to inspect the instrument himself or if the instrument fails to work properly after being adjusted or after parts are replaced, contact your local dealer or J. MORITA OFFICE.
- * The inside parts of the equipment are charged with high voltage. Do not attempt to perform maintenance or adjustment that is not described in the troubleshooting table.
- * If an accident occurs, the equipment must not be used until repairs have been completed by a qualified and trained technician authorized by the manufacturer.



Symptoms	Possible Cause	Remedies
 Image is too light Lines in image White margins are too large Image is partial Image is completely black 	NoiseMomentary power interruption	 Turn off the Power switch and have the patient leave the unit. Turn on the Power switch again and see if it operates normally. * Make sure the power supply is on a devoted circuit and is AC 100 V, 20 A, minimum. Also the ground line must be sufficiently grounded. Do not use any nearby devices that could produce noise during the exposure.
Uneven density in image.	i-Dixel WEB setting is not right.	Go to the i-Dixel WEB tool bar and adjust this.
Extremely dark areas or the whole image is too white.	Incorrect exposure conditions.	Adjust tube voltage (kV) and tube current (mA).

6.2 Error Messages

Error messages will appear in the control panel when some problem or error is detected. If the suggested response does not work, contact your local dealer or J. MORITA OFFICE. Make a note of the error number and report it when requesting help for the company. The list of error messages is in the separate manual of Panorama and CT.

Diagnostic and Imaging Equipment

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Endodontic System

Laser Equipment

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Development and Manufacturing

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