Veraview X800
Quick Guide CT
* Do not fail to read the Instructions for Use before using the Veraview X800.

2022-05-21
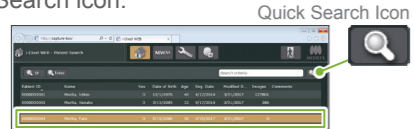Pub. No.: X800-93223-502
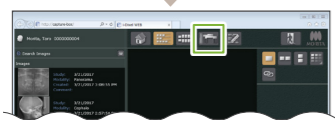Printed in Japan

MORITA

1 Preparation

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

For a new patient: Register patient.
▶ See back of the Panorama Quick Guide.

For a patient already registered:
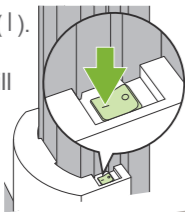Enter the patient ID and click the Quick Search icon.

Quick Search Icon

To use the patient list, double-click a patient.

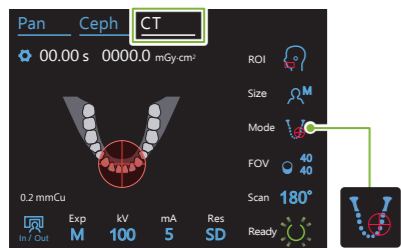The patient's image list will appear. Click the X800 Exposure Window button to open it.

Turn On Power Switch

Press the Power switch (I). A dialogue message saying "Initialization" will appear; touch the Ok button. The arm will move to the patient entry position.

Set Exposure Conditions

Touch the CT key to set the unit for CT exposure mode. Set and check the exposure conditions.

| Pan | Ceph | CT |

00.00 s   0000.0 mGy·cm²
ROI, Size, Mode, FOV 40/40, Scan 180°
Exp M, kV 100, mA 5, Res SD, Ready

Make sure the "Mode" is set for "Beam Positioning".
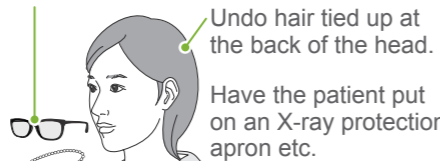
▶ See back of this page.

Set Up Rest Component

Turn the temporal stabilizer knob and open the stabilizers. Disinfect the chinrest, bite-block, or upper lip rest and set it in its holder. Put a disposable cover on the rest component.

▶ See back of this page.

2 Patient Positioning

Prepare Patient

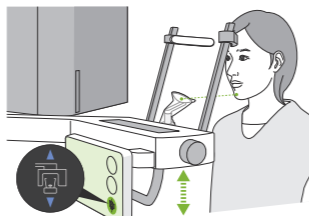Take off glasses, necklaces, and other accessories.

Undo hair tied up at the back of the head.

Have the patient put on an X-ray protection apron etc.

Adjust Height of Lift

Adjust the height of the lift so that the height of the rest matches the patient.

Patient Entry

Guide the patient into place and arrange his posture.

Have the patient stand up straight and hold his neck as perpendicular as possible.
If the patient stands too far back, the upper torso will lean forward and the neck will be slanted.

Tell the patient to:
PLEASE MOVE ONE STEP FORWARD.

Pull jaw in and make the line from the orbitale to the ear orifice horizontal.
Low down the lift and have the patient pull in his chin.

Right   **Wrong**

I'M GOING TO LOW THE LIFT A LITTLE.

KEEP YOUR NECK STRAIGHT AND MOVE YOUR FOREHEAD FORWARDS A LITTLE.

Relax and lower shoulders.
Have the patient relax his shoulders and touch the patient handle lightly with his thumbs.
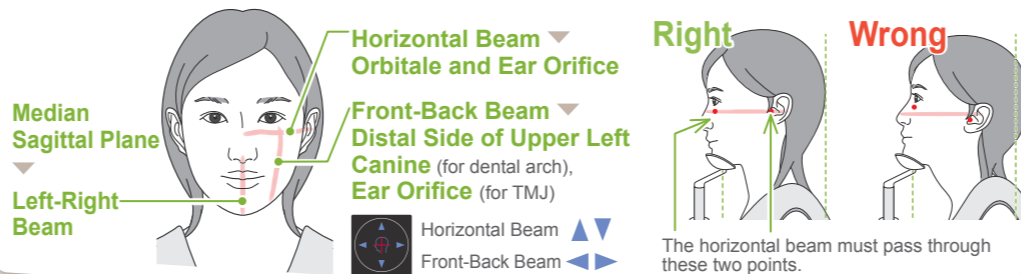
3 Positioning

Touch Ready Key

Touch the Ready key on the control panel. The "Arm Return" dialogue will appear; touch the Ok button. The arm will move and the beams will light up. The unit is now in Ready state.

If a message saying "Check temporal stabilizer" appears, touch the Ok button.

Line Up Beams

Median Sagittal Plane
Left-Right Beam

Horizontal Beam ▼
Orbitale and Ear Orifice
Front-Back Beam ▼
Distal Side of Upper Left Canine (for dental arch),
Ear Orifice (for TMJ)

Horizontal Beam ▲▼
Front-Back Beam ◀▶

Right   **Wrong**

The horizontal beam must pass through these two points.

Adjust Temporal Stabilizers

Adjust the height of the temporal stabilizers and then carefully close them with the knob.

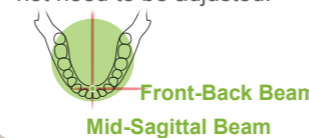| Ø40 / Ø80 / Ø100 / Ø150	For Ø40 Only	Ø40 / Ø80 / Ø100
Beam Positioning	Panoramic Scout	Two-Direction Scout See back of this page

Adjust Horizontal Beam

Line up the horizontal beam with the center of the FOV. Lower or raise the beam to line it up.

Adjust Left-Right Beam

For Ø40
Line up the front-back and left-right beams so that they intersect at the center of the FOV plane. Move the front-back and left-right beams to the desired position.

Front-Back Beam
Left-Right Beam

For Ø80, Ø100 and Ø150
The FOV is set at the center. The front-back beam does not need to be adjusted.

Front-Back Beam
Mid-Sagittal Beam

Take Panoramic Scout Exposure

Display the panoramic image in i-Dixel WEB.

To make a new panoramic image refer to accompanying Panorama quick guide.

Specify FOV Position (i-Dixel WEB)

i-Dixel WEB Scout
i-Dixel Scout

Display the image in i-Dixel WEB. Click the Panoramic Scout Image Select icon to display the green frame. Drag the frame to set the FOV position.

* If the frame color changes to red, refer to "Scout Positioning Error" on the back of this page.

Send FOV Position (i-Dixel WEB)

Click the Send CT Scout Position icon. When the "Scout Positioning" dialogue appears in the Veraview X800, touch the Ok button.

Register FOV Position

The arm will move into position correspond to the registered FOV position. The control panel will switch to CT mode and the FOV circle will be displayed at the specified area.
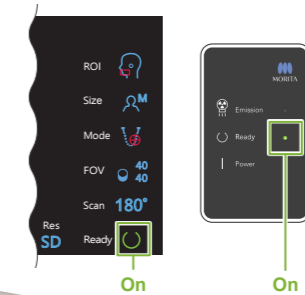
Check Beam Positions and Leave X-ray Room

Check that the beams are on target. Give instructions for the exposure and then leave the X-ray room.

PLEASE CLOSE YOUR EYES.

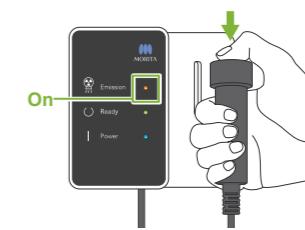*DO NOT MOVE YOUR HEAD DURING THE EXPOSURE, WHILE THE MELODY IS PLAYING.*

4 Exposure

Check Ready State

ROI, Size M, Mode, FOV 40/40, Scan 180°, Res SD, Ready

On   On

X-ray Emission

Hold down the Emission switch.

On

The arm will rotate and X-ray emission will start. The Emission LED on the control box will light up and the melody will sound.
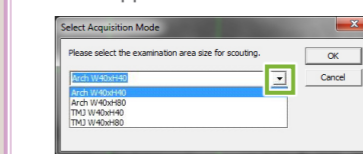
Exposure Completed

The melody stops when the exposure has been completed. The arm will move to the patient egress position. Release the Emission switch and hang it in its holder on the control box.

Change Exposure Area with i-Dixel WEB

Click the Set CT Area icon. The CT Mode Selection dialogue box will appear.

Select Acquisition Mode
Please select the examination area size for scouting.
Arch W40xH40
Arch W40xH80
Arch W40xH100
TMJ W40xH40
TMJ W40xH80
OK Cancel

Select an area size from the pull-down menu and then click the OK button.
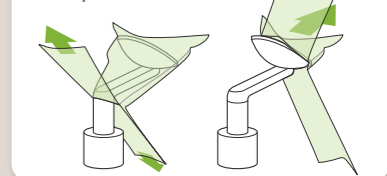
5 After Exposure

Patient Egress

Turn the temporal stabilizer knob and open the stabilizers. Guide the patient away from the unit.

Throw Away Disposable Cover

Throw away the cover for the rest component.

Close Temporal Stabilizer

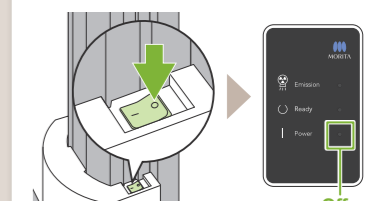Turn the knob and close the temporal stabilizers.

Touch Ready Key

Touch the Ready key. The "Arm Return" dialogue will appear; touch the Ok button. The arm will return to its original position.

Image Transmission and Display

After the exposure, the data is sent to i-Dixel WEB. A message, "3DX CT Reconstruction" will appear in i-Dixel WEB. Image reconstruction takes about 5 minutes.

❗ Do not turn off the Power switch until image transmission has been completed.

Turn Power Switch Off

Off

■ Exposure Conditions

Blue icons and the Ready key are activated by touch.

Settings Key
Hold down this key to save the current settings for exposure conditions. The Veraview X800 will load these settings as the default values from the next start-up.

In/Out Key
Touch this key to move the arm into position for patient entry and egress.

Exposure Time   X-ray Dosage

| Pan | Ceph | CT |

00.00 s   0000.0 mGy·cm²

0.2 mmCu

ROI		2. Exposure Area (ROI)
Size	M	3. Patient Size
Mode		4. Positioning Modes
FOV	40 / 40	5. Exposure Region (FOV)
Scan	180°	6. Scanning

| Exp M | kV 100 | mA 5 | Res SD |

In / Out   Ready

1. CT Exposure Mode Key
2. Exposure Area (ROI)
3. Patient Size
4. Positioning Modes
5. Exposure Region (FOV)
6. Scanning

Ready Key
Touch this key after guiding the patient into position. The beams will light up and the unit will be ready to make an exposure.

7. Exposure Setting   8. Tube Voltage   9. Tube Current   10. Resolution

2. Exposure Area (ROI)	3. Patient Size (Size)	4. Positioning Modes (Mode)	5. Exposure Region (FOV) Ø	5. Exposure Region (FOV) H	6. Scanning (Scan)	7. Exposure Setting (Exp)	8. Tube Voltage (kV)	9. Tube Current (mA)	10. Resolution (Res)
Dental Arch	C / S / M / L	Panorama Scout (Ø40 only)	40	40	180° (half scan)	DR (dose reduction)	100	2 – 8	HR (high resolution) SD (standard)
				80			95		
		Two-Direction Scout	80*1	40	360° (full scan)	M (manual exposure)			SD (standard)
				50			90		
				80					
		Beam Positioning	100*2	40	180° (half scan)	Off (no X-ray emission)	85	2 – 9	
				50					
				80					
TMJ			40	40	180° (half scan)	M (manual exposure)	80	2 – 10	HR (high resolution) SD (standard)
				80	360° (full scan)		75		
Maxillofacial		Beam Positioning	150*3	50		Off (no X-ray emission)	70		SD (standard)
				75					
				140					

*1 R100 and F150 only. *2 Ø100 equivalent. R100 and F150 only. *3 F150 only.
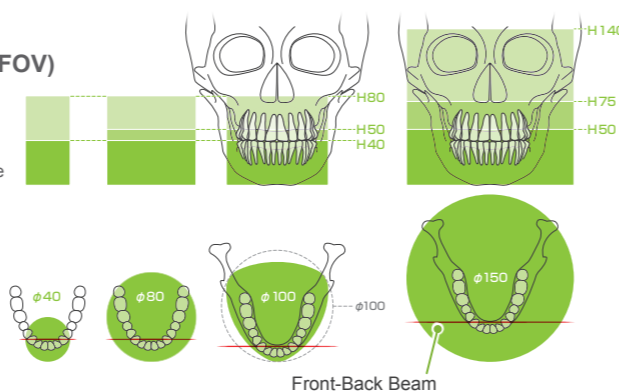
● Patient Size

The set values for patient size is the sagittal length of the skull (**A**).
The upper limit for the lift cannot accommodate patients taller than 180 cm. We recommend having patients who are too tall to sit down.

Patient Size	C (Child)	S	M	L
Sagittal Length (A)	Max. 17 cm	Max. 19 cm	19 – 21 cm	

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

● Exposure Region (FOV) Illustrations

* Depending on the patient's body size and shape of the dental arch, actual exposure range might not fit as the illustration.

H140
H75
H50
H80
H50
H40

ø40   ø80   ø100   ø100   ø150   ø100

Front-Back Beam

■ Set Up Rest Component

Chinrest
Use this to make an exposure of natural occlusion or when the bite-block cannot be used for edentulous patients or some other reason.

Bite-Block
Stabilizes the patient's head by having him bite into the groove.
* A part of the bite-block appears in the image.
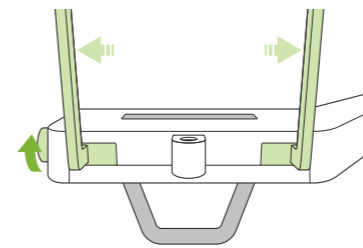
Upper Lip Rest
This is mainly used for exposures of the TMJ.

Set Up Rest Component

Turn the temporal stabilizer knob and open the stabilizers.
Wipe the chinrest, bite-block, or upper lip rest with ethanol (70 vol% to 80 vol%) and put it in the chinrest holder.

! Before use, make sure the component is not scratched or damaged in any way.
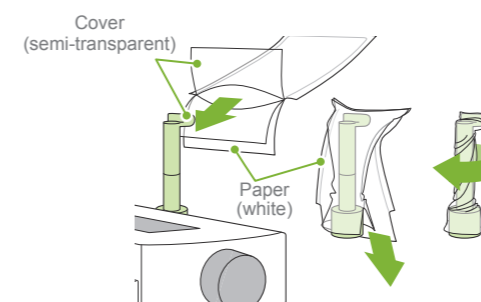
Put Disposable Cover on Rest Component

● **For Chinrest**

● **For Bite-Block**

▶ See back of the Panorama Quick Guide.

● **For Upper Lip Rest**

1) Open the cover and put it on the upper lip rest.
2) Pull down the paper and peel it off.
3) Twist the cover and press it against the upper lip rest as tightly as possible.

Cover (semi-transparent)

Paper (white)

3 Positioning

Ø40 / Ø80 / Ø100
Two-Direction Scout

Switch Beams

Select "Two-Direction Scout" as "Mode" for exposure conditions.
* The positioning beams will turn off.

Mode

Touch the Ready key to light the beams up. The horizontal beam moves to the scout position.

"Arm Return" → Ok,
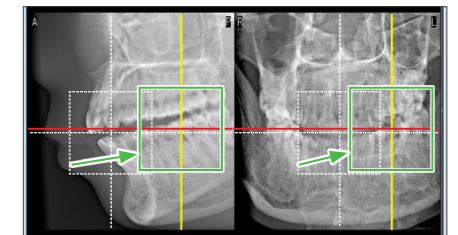"Check temporal stabilizer" → Ok

Line up beams

Line up the front-back and left-right beams with the center of the target area.

Two-Direction Scout

Follow the directions for "4. Exposure".
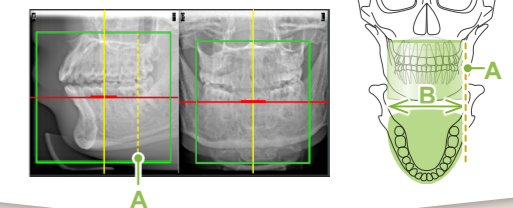
Specify FOV Position (i-Dixel WEB)

The two-direction scout image appears in i-Dixel WEB. Drag the frame to set the FOV position.

* Photo is Ø40

● **Ø100 Scout Display**

A dotted yellow line (**A**) is displayed. This indicates that the FOV is as wide as possible (**B**).
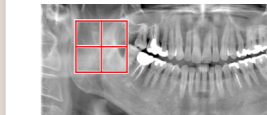
Send FOV Position (i-Dixel WEB)

The rest of the procedure is as described on front page. See "Take Panoramic Scout Exposure".

■ Scout Positioning Error

If the frame used for scout positioning turns red if it goes out of the permissible range.
Move the frame back to where it is green.

● **Panoramic Scout**   ● **Two-Direction Scout**