



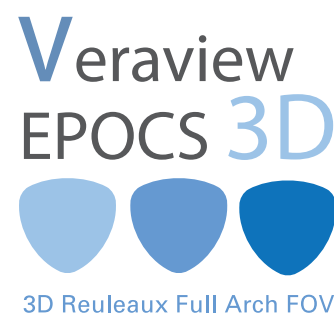
Veraviewepocs 3D

牙科專業X光數位影像系統

真實 · 極致影像

放射線治療科技的新領域

一部MORITA Veraviewepocs 3D，就能夠進行PANO環口拍攝、CEPH側顱拍攝，及CT斷層拍攝。更低的X光照射劑量，更加細膩的多彩影像處理，在不同面向的牙科治療診斷上都能更有幫助。藉著簡單的定位和操作，從 $\varnothing 40 \times H 40 \text{mm}$ 的局部範圍拍攝，到對應全口腔拍攝的 $\varnothing 100 \times H 80 \text{mm}$ 的CT電腦斷層影像，在極細微部位，都能夠提供鮮明漂亮的清晰影像。



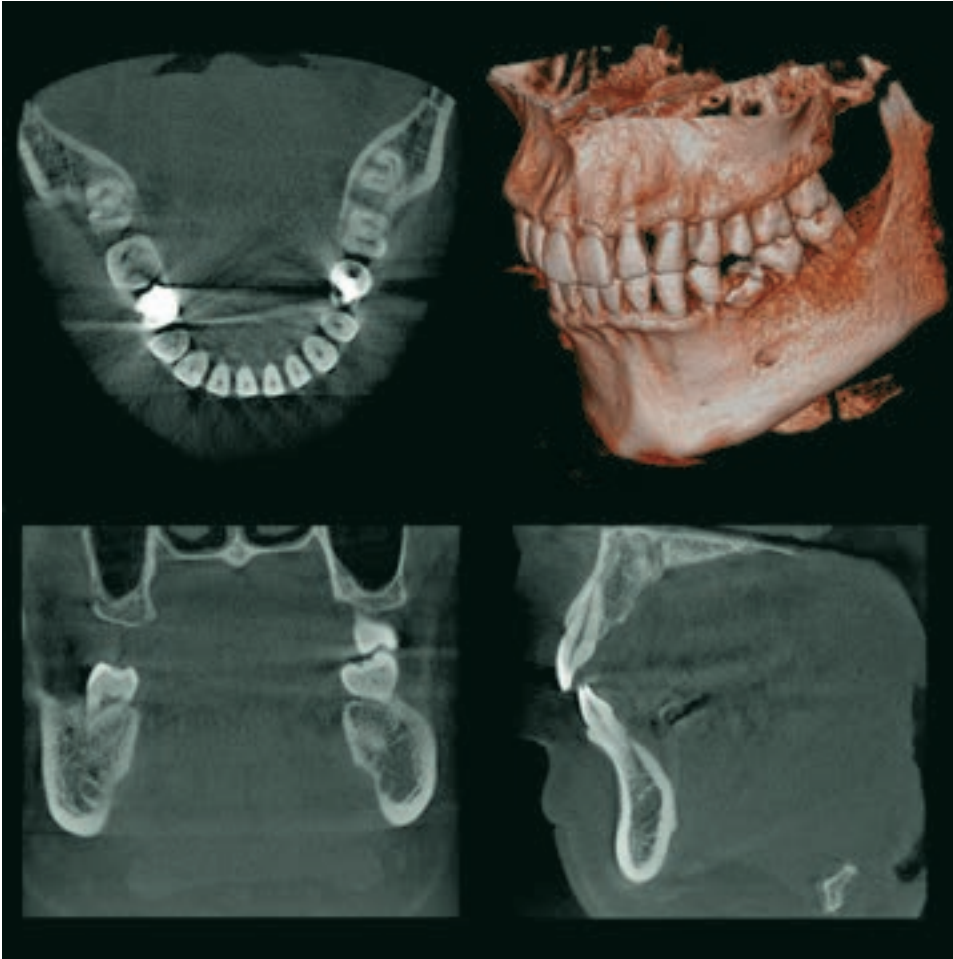


衛署醫器輸字第 023589 號



高畫質與多種FOV拍攝範圍

簡單好操作的CT定位



Dental-Arch FOV (3Df-100)

新搭載齒弓型攝影範圍的功能

以較低的X光照射劑量就能夠達到拍攝全口CT斷層影像的Dental-Arch FOV功能。並且能夠做到與齒弓吻合，相當於 $\varnothing 100$ 的拍攝範圍。

高解析度立體像素尺寸 (voxel size) $125 \mu m^*$

能夠做到從牙周來觀察齒根膜空隙、齒槽骨狀態等。對於植牙手術的術前規劃到術後的觀察也很有幫助。

Dose劑量減低功能

以減低至易被X光穿透部位的照射劑量標準來進行拍攝，能夠減低患者達到僅40%**的被照射劑量。不僅能使軟組織(上顎竇黏膜、皮膚等區域)更清晰，牙齒的陰影雜訊 (artifact) 也會降低。

* $\varnothing 80, \varnothing 40$ FOV時。

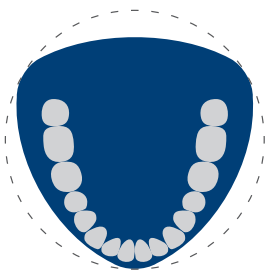
** 正常模式(normal mode)下，使用了Dose劑量減低模式的狀況。

對應病例狀況的拍攝範圍

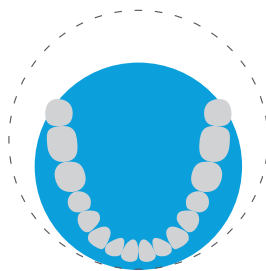
Dental-Arch FOV 提供6種的攝影範圍，能夠對應Endo(牙根)、Peri(牙周)、Implant(植牙)等各種診療的病例狀況。

Compact 精巧設計

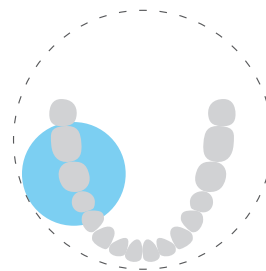
所需安裝空間，如同一般的 PANO / CEPH 一樣的Compact size。



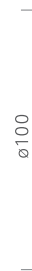
Dental-Arch FOV
($\varnothing 100$ 相當於 $\times H50 / 80$)



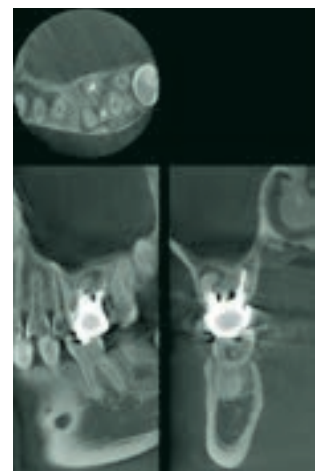
$\varnothing 80 \times H50 / 80$



$\varnothing 40 \times H40 / 80$



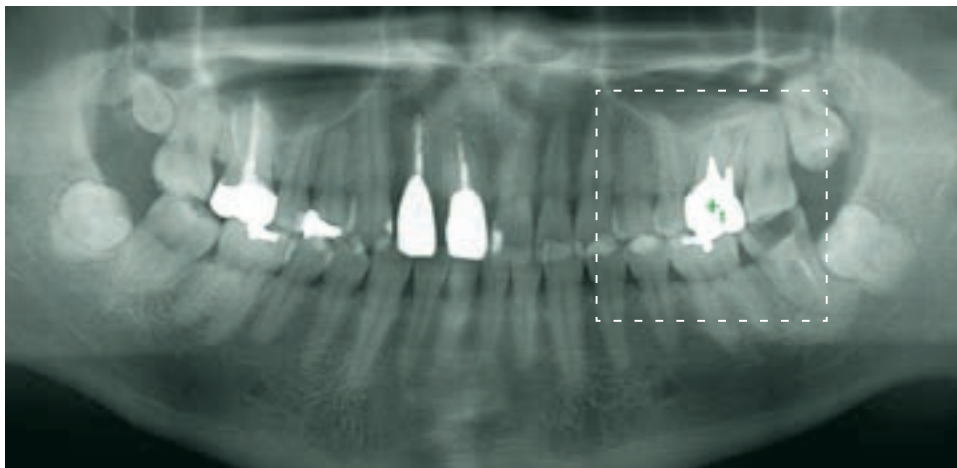
$\varnothing 100$



$\varnothing 40 \times H80 \text{ mm}$

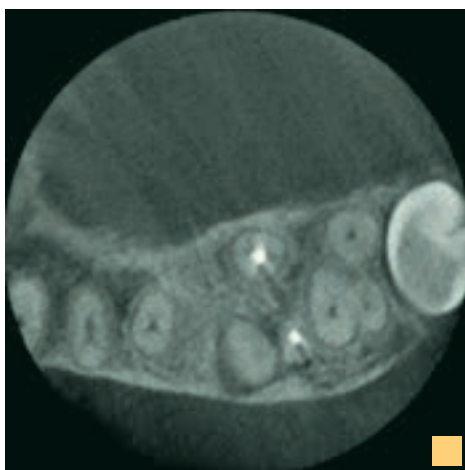
PANO Scout 偵測

在拍攝CT之前要先進行PANO Scout 偵測取像。只要在保持原封不動地偵測影像上直接進行定位，在 PANO Scout 影像上想要拍攝CT的範圍(用手指)點一下，然後按下Ready鍵，Arm懸臂就會自動地移動，使點擊處的中心點變為拍攝時的中心位置，進行CT拍攝。

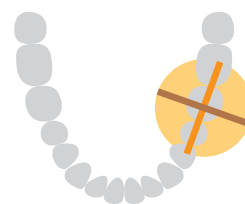


雙向 Scout 偵測

進行以左右beam(光束)，水平beam，前後beam來校正的雙向Scout拍攝後，在螢幕上被輸出的雙向Scout影像上點擊想要拍攝的範圍。按下Ready鍵，迴轉Arm懸臂就會自動往欲拍攝範圍的中心處移動，達到最適當的CT拍攝定位。



拍攝CT後，在PANO影像上的十字標記處點擊兩下，就能馬上顯示該範圍的CT(局部)影像。



PANO和CT的流暢結合運用(根尖病灶的拍攝例)

在PANO影像中，遠心牙根上看起來像是有病灶，但以CT影像來看，就能夠確認實際上是相當彎曲的近心根(頰側)的周圍存在著囊泡所造成。





Veraviewepocs 3D 產品規格及操作空間 Specifications

Trade name:	Veraviewepocs 3D
Model:	X550
Type:	EX-2
Unit configurations: (EX-1, EX-2 available in all configurations)	Veraviewepocs 3D R100 Pan Veraviewepocs 3D R100 Pan/Ceph Veraviewepocs 3D F40 Pan Veraviewepocs 3D F40 Pan/Ceph
Input voltage:	EX-2: AC 220/230/240V 50/60 Hz
Power consumption:	2.3 kVA
Dimensions	
Main unit:	W 1,020 x D 1,300 x H 2,355 mm
With Cephalometric:	W 2,000 x D 1,300 x H 2,355 mm
Weight:	Approx. 190 kg Approx. 260 kg with Cephalometric
X-ray generator	
Tube voltage:	60-90kV (depending on exposure mode)
Tube current:	1-10mA (depending on exposure mode)
Effective focal spot:	0.5 mm
3D image	
Exposure time:	Approx. 9.4 seconds
Tube voltage and current:	Normal mode 1 - 10mA (1mA step) @ 75 - 80 kV (5kV step) 1 - 8mA (1mA step) @ 85 - 90 kV (5kV step) Dose reduction mode 3 - 10mA (1mA step) @ 75 - 80 kV (5kV step) 3 - 8mA (1mA step) @ 85 - 90 kV (5kV step)
3D R100 imaging area:	Ø 40 mm x H 40 mm Ø 40 mm x H 80 mm Ø 80 mm x H 50 mm Ø 80 mm x H 80 mm
3D Reuleaux Full Arch FOV:	Ø 100 mm (Equivalent) x H 50 mm Ø 100 mm (Equivalent) x H 80 mm
3D F40 imaging area:	Ø 40 mm x H 40 mm Ø 40 mm x H 80 mm

Panoramic image	
Exposure time:	High speed mode: Approx. 7.4 sec. (Standard) High definition mode: Approx. 15 sec. (High definition mode is available for R100 only)
Imaging programs:	Standard Panoramic (standard, orthogonal and shadow reduction projections) Magnification: 1.3 X throughout and 1.6 X throughout Pedodontic Panoramic (standard, orthogonal and shadow reduction projections) Magnification: 1.3 X throughout and 1.6 X throughout Maxillary Sinus Panoramic (posterior and anterior) Magnification: 1.5 X throughout TMJ Quadruple Image Magnification: 1.3 X throughout Partial Panoramic Magnification: 1.3 X throughout
Cephalometric image (option)	
Projection:	Posterior-anterior (PA) and Lateral-anterior (LA)
Exposure time	
PA projection	
With variable imaging processing:	4.1 seconds
Without variable imaging processing:	5.0 seconds
Lateral projection	
With variable imaging processing:	5.8 seconds, 4.2 seconds (partial ceph)
Without variable imaging processing:	3.5 seconds, 2.6 seconds (partial ceph)
<ul style="list-style-type: none"> - Cephalometric is an optional feature. - The Veraviewepocs 3D must be fixed to the floor and the wall. - Always have patients wear X-ray protective gear. 	