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IMAGING

X-VS E SENSOR



Making Your Life Better.

BU Medical Equipment
Sede Legale ed Amministrativa / Headquarters
 CEFLA s.c.
 Via Selice Provinciale, 23/a
 40026 Imola (BO) - Italy
 t. +39 0542 653111
 f. +39 0542 653344
 sternweber@sternweber.com
 sternweber.com

Stabilimento / Plant
 Via Bicocca, 14/C
 40026 Imola (BO) - Italy
 t. +39 0542 653441
 f. +39 0542 653601

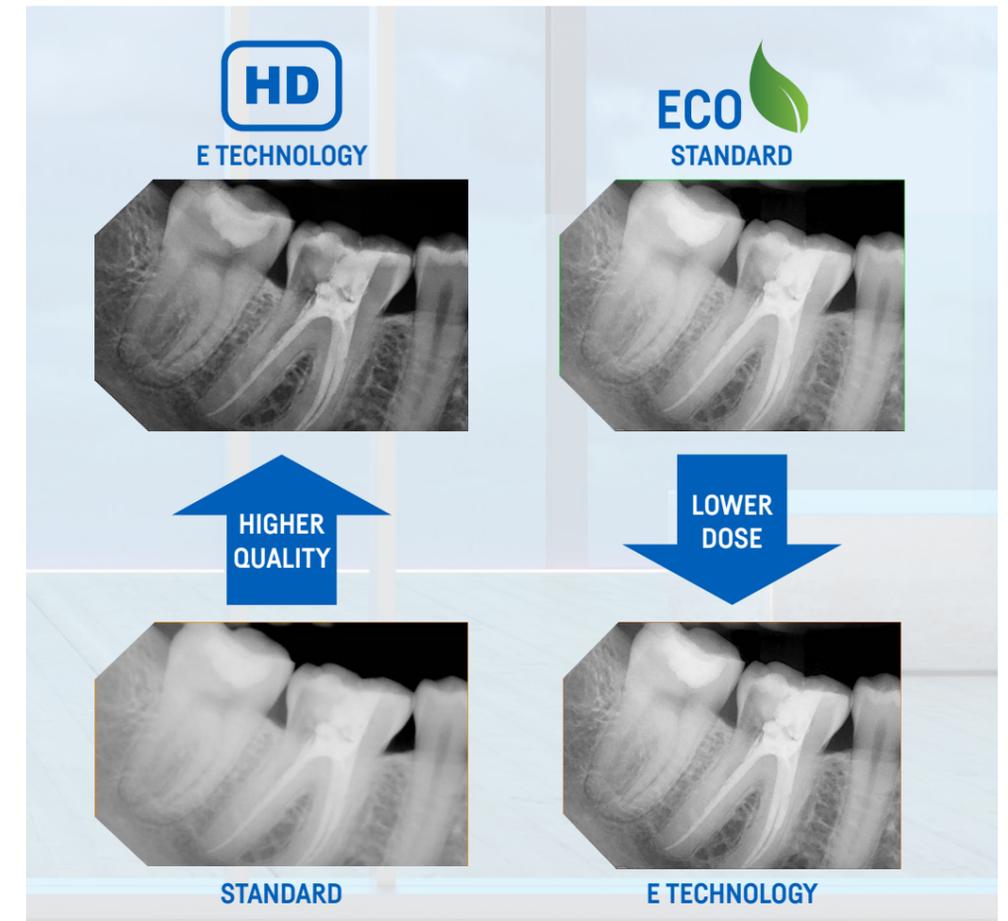


STERNWEBER.COM



Image quality

Extra sharp images even at low doses and visibility down to the smallest details. The built-in CMOS sensor (with 20 µm pixels) and CsI (Cesium Iodide) scintillator ensure greater sensitivity to the X-ray beam. X-VS E delivers ideal imaging quality for clinical purposes while maximising patient safety. Images are then enhanced, analysed, viewed and shared via the iCapture acquisition software and iRYS image management software for a highly efficient workflow.



Everything you need

The thin profile of the sensor always ensures maximised patient comfort, facilitates positioning and allows for optimal framing of the area of interest. Available in two sizes to choose from according to the oral cavity. Improved sensitivity and special filters in the software ensure high-definition images. With the X-VS E sensor, Stern Weber also supplies alignment devices for any type of dental examination.

IP68

Ingress Protection rating of 68. X-VS E is completely impervious to liquids and dust.



Low consumption, high operating efficiency
The USB cable is equipped with a stabiliser to prevent sensor overheating. No need to stop working and keep patients waiting in order to restore the right temperature.



Extensive active area
For optimal imaging of the anatomical area of interest, the sensor has a large sensitive surface in both sizes.



Ergonomics
Ultra-thin thickness (4.5 mm only), rounded corners, smooth edges and flexible cable: X-VS E prevents patient discomfort and streamlines the operator's work.



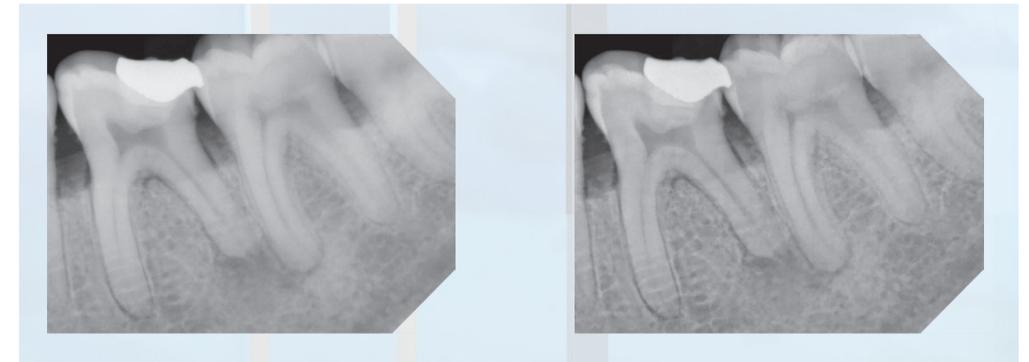
Cable
Enhanced movement flexibility thanks to the 3 metre-long cable. No need for an additional control box.



Stern Weber iES (Image Enhancement System) filters

The X-VS iRYS image processing software improves diagnostic effectiveness with ultra-high resolution images and an intuitive interface that facilitates image reading. The new Stern Weber iES (Image Enhancement System) filters have been developed to meet the actual needs of dentists. The proprietary algorithms optimised for the X-VS E sensor allow a set of Multi Level images (up to 5) to be captured, viewed and shared simultaneously. Each image is the result of a different improvement action aimed at highlighting anatomical details with different levels of sharpness. You can customise image contrast according to clinical requirements or viewing preferences - to improve diagnostic precision. You can also automate your preferred settings to streamline your work.

X-VS E improves dental practice performance thanks to the high level of imaging detail and the specific filters applied by the software.

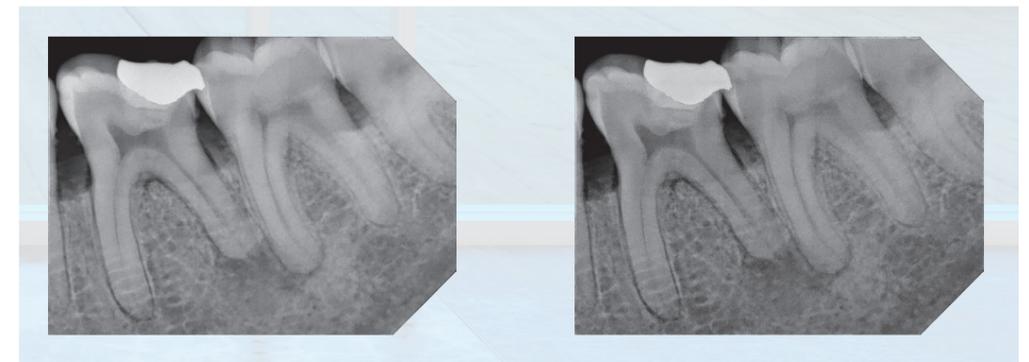


Original

Perfect to perform a clinical evaluation using a raw image.

Soft tissue

Enhances low density areas to keep areas at risk of image darkening unaltered. It allows flawless soft tissues viewing - from the apex to the base, particularly in endodontic applications.



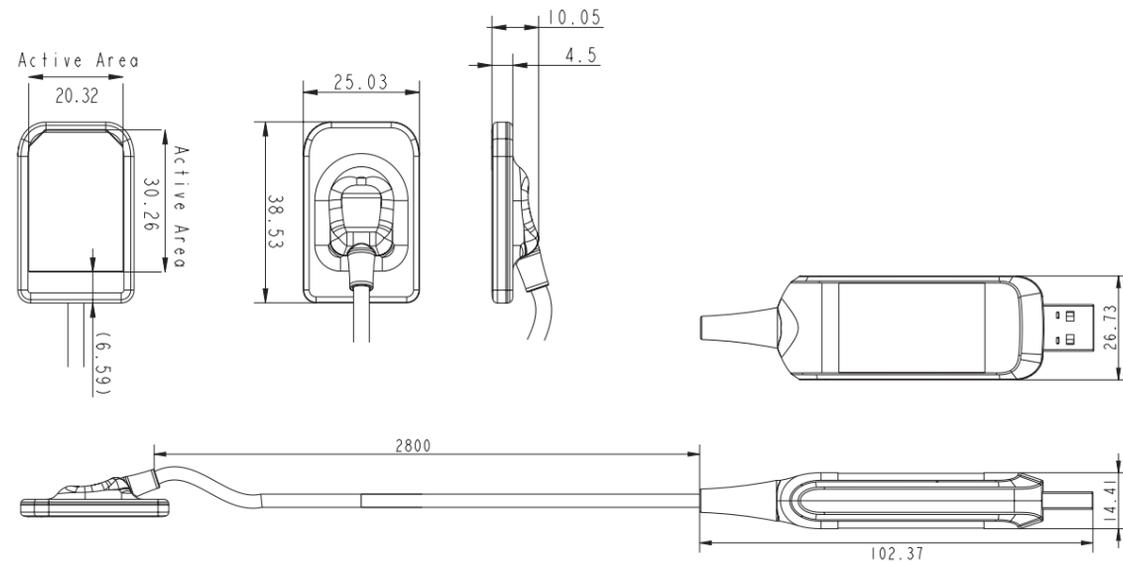
Teeth

Noise, contrast and sharpness balancing. Perfect for most conservative dentistry and endodontic applications.

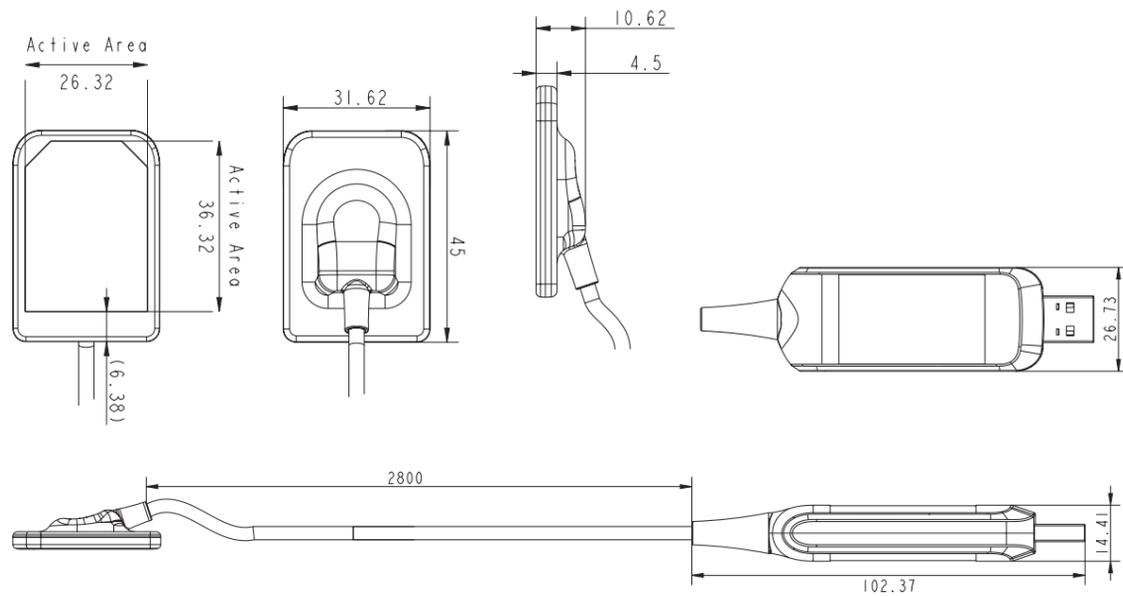
Bones

Designed for the periodontal area, it also allows improved visibility of small carious lesions.

X-VSE 1



X-VSE 2



X-VS E SENSOR	Size 1	Size 2
External dimensions (mm)	38.5 x 25	45 x 31.6
Thickness (mm)	4.5	4.5
Pixel matrix	1500 x 1000	1800 x 1300
Pixel size (µm)	20	20
Max. resolution (lp/mm)	25	25
Grey level depth	16-bit acquisition - max 65,535 grey levels	
Sensor technology	APS CMOS	
Scintillator technology	Direct deposition CsI (Caesium Iodide)	
Case protection rating	IP68 (Guaranteed against liquid or dust ingress)	
Compatibility with X-ray generators	Any AC or DC technology X-ray generator with values in the 60 – 70 kV and 1-8 mA range and precision control of exposure times	
Connectivity	Direct USB to PC	

X-VS E SOFTWARE

Acquisition software (for PC)	iCapture with dedicated X-VS, X-VS E image filters for third-party software and for automatic storage of RX DC exposure parameters on PC
Image management software (for PC)	iRYS (compliant with ISDP©10003:2020 in accordance with EN ISO/IEC17065:2012 - certificate number 2019003109-3) and iPad iRYS viewer App (free)
Protocols supported in iRYS	DICOM 3.0, TWAIN, VDDS
DICOM Node Connectivity	IHE compliant (Print; Storage Commitment, SR document; WorkList; MPPS; Query/Retrieve)
X-ray log	iRYS feature to associate exposure parameters with the X-ray images of each examination (exportable in PDF or CSV format)

X-VS E MINIMUM SYSTEM REQUIREMENTS

Supported operating systems	Microsoft® Windows® 10, 11 Professional 64 bit
Processor	Intel Core i3 or higher
RAM	4 GB (8 GB recommended)
Graphics card	Discrete 3D Video Card or integrated GPU
Display settings	1280 x 1024; 1344 x 768 or higher, 16 million colours
Port	USB 2.0 or later versions
Power supply	Use a power supply with suitable power for the video board in use

