# X-VS E SENSOR

# CASTELLINI



## X-VS E, TECHNOLOGICAL EVOLUTION

IP68. With an Ingress Protection (IP) rating of 68, X-VS E is completely impervious to liquids and dust.



### A MUST-HAVE FOR YOUR PRACTICE

X-VS E is available in two sizes, both featuring a thin profile to maximise patient comfort at all times. The profile also ensures easy positioning by the user and optimal framing of the area of interest. Improved sensitivity and special filters in the software ensure high-definition images.

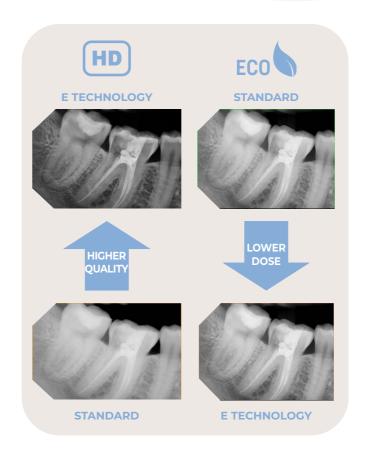
With the sensor, Castellini also supplies alignment devices for any type of dental examination.



### **ERGONOMICS**

X-VS E reduces patient discomfort and simplifies user workflows as it is just 4.5 mm thick, has rounded corners, smooth edges and a flexible cable.





### **EXTRA SHARP IMAGES**

Images are extremely sharp, even at low doses. Thanks to the internal CMOS sensor (with 20 µm pixels) and the CsI (Cesium Iodide) scintillator - which ensure greater sensitivity to the X-ray beam - users can display details that would otherwise be imperceptible.

X-VS E therefore ensures both patient safety and optimal imaging for clinical purposes. The iCapture acquisition software and iRYS image management software complete the workflow by allowing enhancement, analysis, display and sharing of the X-ray images obtained during the examination.



### NON-STOP OPERATION

The USB cable features a stabiliser that prevents overheating of the sensor: this allows prolonged operation for the user and minimises any patient discomfort.



### **EXTENSIVE ACTIVE AREA**

Both sensor sizes have an extensive sensitive surface area for enhanced imaging of the anatomical area of interest.



### CABLE

The 3-metre-long cable provides outstanding flexibility when moving around the surgery without any need for an additional control box.

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# CUSTOMISE IMAGES WITH iES - MultiLEVEL

Choose the highest X-ray quality for fast, secure diagnoses. Ultra-high levels of detail and specific filters applied by the software make X-VS E the ideal dental practice performance enhancement tool.



# CASTELLINI iES (IMAGE ENHANCEMENT SYSTEM) FILTERS

The latest generation of X-VS iRYS image processing software aims to improve diagnostic effectiveness. With excellent image resolution and an intuitive software interface, X-VS iRYS makes reading intraoral images easier and more user-friendly. The new Castellini iES (Image Enhancement System) filters are the result of research aimed at meeting the actual needs of dentists. Using proprietary algorithms optimised specifically for the X-VS E sensor, a set of Multi Level images (up to 5) can be captured, viewed and shared simultaneously. Each image is the result of

a different improvement action aimed at highlighting various anatomical details with different levels of sharpness

Image contrast can also be customised based on diagnostic or visual preferences, allowing improved diagnostic precision. Preferred settings can be automated: this creates a comfort zone personalised for each medical professional and for each appointment.



### ORIGINAL

Perfect for experts who need to perform a clinical evaluation using a raw image.



### **SOFT TISSUE**

It keeps the areas at risk of image darkening unaltered to enhance low density areas. Designed for endodontic applications, it allows flawless soft tissues viewing - from the apex to the base.



### TEETH

Balances noise, contrast and sharpness. Perfect for most conservative dentistry and endodontic applications.



### **BONES**

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

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# TECHNICAL SPECIFICATIONS

# X-VS E 1 Active Area 20.32 Active Area 25.03 Active Area 2800 2800

# Active Area 26.32 31.62 4.5 2800

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	

SOFTWARE X-VS E	
Acquisition software (for PC)	iCapture with dedicated X-VS, X-VS E image filters for third-party soft-ware 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 REQUIREMENT	rs	
Supported operating sy-stems	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	



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The images and technical specifications shown in this catalog are for indicative purposes only.

As part of ongoing technological updates, technical specifications may be subject to changes without prior notice.

In accordance with current regulations, in non-EU areas some products, as well as certain technical specifications, may have different availability and configurations.

We encourage you to always contact your local distributor for up-to-date technical specifications, availability and configurations.

Since 1935





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