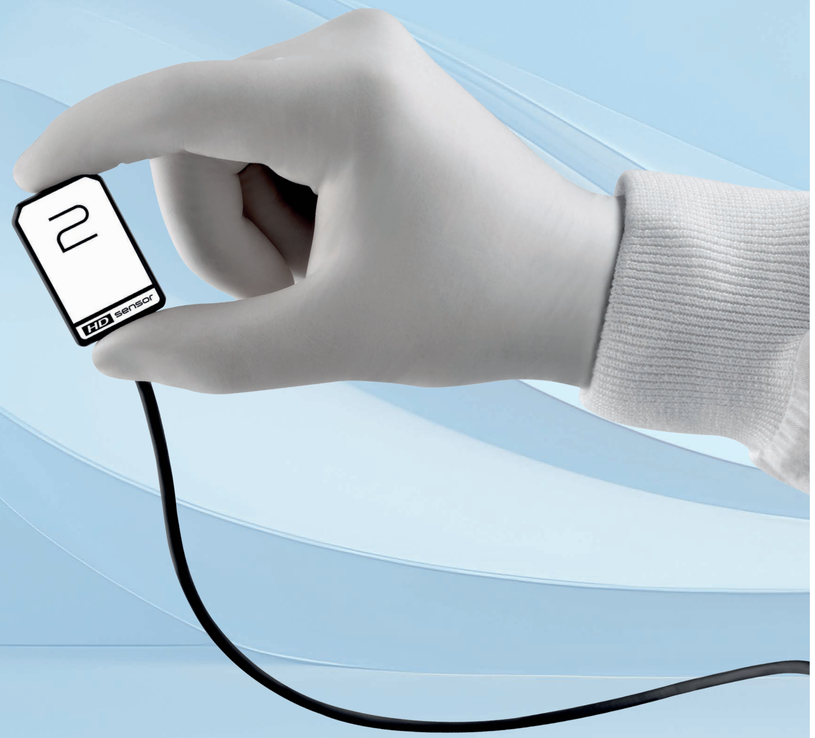
X-VS Sensor



Innovative ergonomics, direct USB plug-and-play connection, high definition and immediate results make the X-VS device with HD technology the most advanced and suitable sensor for your surgery. Simplicity of use and image acquisition - combined with advanced real-time digital technology - improve the quality of work. Impact and dust resistant, X-VS is IP67 certified (water-resistant) and uses iRYS, the all-in-one software for diagnostics, communication and management of intraoral imaging which ensures smooth storage, processing and printing of images in perfect synergy with any other devices already in the surgery.

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SENSORE X-VS	SIZE 1 – STANDARD	SIZE 2 – LARGE
External dimensions (mm)	38.9 x 24.9	41.9 x 30.4
Thickness (mm)	5.3	5.7
Pixel matrix	1500 x 1000	1700 x 1300
Pixel size (µm)	20	20
Max resolution (lp/mm)	25	25
Grey level depth	14 bit acquisition - 16,384 maximum levels of grey	
Scintillator technology	CsI (Caesium Iodide) with micro-columnar structure	
Direct exposure pro-tection	FOP (Fibre Optic Plate)	
Degree of protection	IP 67 (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 SOFTWARE		
Acquisition software (for PC)	iCapture with dedicated filters for third party software	
Image management software (for PC)	iRYS (compliant with ISDP®10003:2020 in accordance with EN ISO/IEC17065:2012 - certificate number 2019003109-2) and iPad iRYS viewer App (free)	
Protocols supported in iRYS	DICOM 3.0, TWAIN, VDDS	
DICOM Node Connec-tivity	IHE compliant (Print; Storage Commitment, SR document; WorkList; MPPS; Que-ry/Retrieve)	
X-ray log	iRYS feature to associate exposure parameters with the X-ray images of each exam-ination (exportable in PDF or CSV format)	
X-VS 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)	
Display settings	1280 x 1024; 1344 x 768 or higher, 16 million colours	
Port	USB 2.0 or later versions	
Alimentazione	Utilizzare un alimentatore di potenza adeguata a quella richiesta dalla scheda video in uso	

X-VS 1

X-VS 2

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Making Your Life Better.

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IMAGING
X-VS Sensor

MAKING SPACE FOR EXCELLENCE

CUSTOMISE IMAGES WITH iES - MultiLEVEL

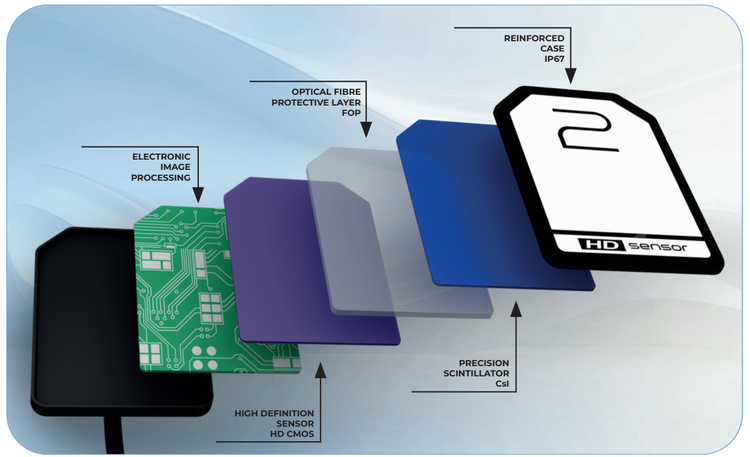
CASTELLINI iES (IMAGE ENHANCEMENT SYSTEM) FILTERS

The latest generation of iRYS image processing software aims to improve diagnostic effectiveness. With excellent image resolution and an intuitive software interface, iRYS makes reading intra-oral 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 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, improving test readability.

Preferred settings can then be automated: this creates a comfort zone personalised for each medical professional and for each appointment.

Equipped with the advanced iRYS software, X-VS now offers the versatile MultiLEVEL function, allowing to pre-set the processing filters of images viewable in Multi Level. It is possible to select which filters to use among the pre-set families and define any further customisations, all accessible from the iRYS image viewing window.



LATEST-GENERATION HD SENSOR

4-layer sensor with an additional protective layer to provide sharp, high-contrast images. The Cesium Iodide (CsI) scintillator made up of column-like micro-structures that preserve image quality first intercepts the X-ray beam and converts it into visible light.
The Fibre Optics Plate (a layer of fibre optics) collimates the radiation onto the sensor and protects it from direct X-ray penetration. The high definition (CMOS HD) acquisition device and on-board electronics convert the light into a digital image with 16,384 grey levels.

MADE-TO-MEASURE SENSOR

X-VS technology allows users to choose between two sensor sizes; these make the sensor even more adaptable to the dimensions of the patient's oral cavity. Outstanding positioning comfort thanks to rounded corners; top performance thanks to compact design and a maximised active area.