BEYOND VISION

NEWTOM
CONE BEAM 3D IMAGING

X-VS INTRAORAL SENSOR

For high quality low dose dental diagnostics.

WATERPROOF
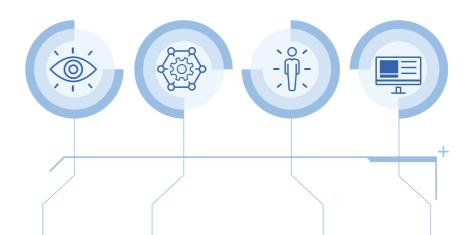WITH **IP 67** PROTECTION RATING

CUSTOMISED DIAGNOSTICS

Available in two sizes for maximum adaptability to the dimensions of the patient's oral cavity. Excellent working comfort and positioning, ensured by ergonomic sensors with rounded corners. A set of innovative filters allows customised tests to be carried out to improve the diagnostic vision.

NEWTOM X-VS

○ Innovative ergonomics, direct USB plug-and-play connection, high definition and immediate results make the X-VS with HR technology the most advanced and suitable sensor for your surgery. Simplicity of use and image acquisition - combined with advanced real-time digital technology - improve quality of work.

○ The latest generation of NNT image processing software aims to improve diagnostic efficacy. With excellent image resolution and an intuitive software interface, X-VS makes reading images easier and better suited to the purpose. This translates into a comfort zone personalized for each professional and for each appointment.

MULTI-VISION DIAGNOSTICS

High definition image acquisition in a few simple steps with filters optimised for every clinical need.

HR PLUG & PLAY DIGITAL TECHNOLOGY

FOP multilayer sensor, sturdy and reliable with direct USB connection.

OPTIMAL ERGONOMICS

Rounded profiles and ergonomic design to adapt to the oral cavity. Maximised active area ensuring an extended view.

INTEGRATED IMAGE MANAGEMENT

The NNT software manages, processes and shares the acquired images on PC; also visible on iPad**.

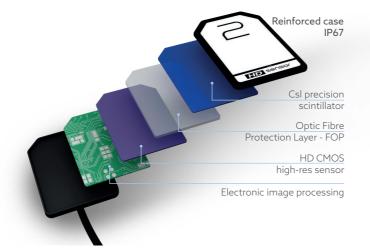# RELIABLE AND ERGONOMIC

Multivision for real-time quality diagnosis.

The X-VS intraoral sensor offers extraordinary performance, practical ergonomics and high technology, offering a perfect balance between comfort and cutting-edge technology. IP67 (water-resistant) certification ensures the X-VS is impact- and dust-resistant. It can be used with all X-ray systems.

X-VS means real-time diagnostics, direct USB plug-and-play connection, high definition and immediate results. X-VS uses NNT, the all-in-one software ideal for diagnostics, communication and management of intraoral imaging: perfect for storing, managing and printing images in perfect synchronism with other devices in the surgery.

NEWTOM ADAPTIVE MULTIVISION

The innovative NEWTOM **ApT** (Adaptive Picture Treatment) filters have been specially developed to meet the needs of professionals. Thanks to proprietary algorithms optimized for the X-VS sensor, this function allows users to simultaneously acquire, display and share a set of images (up to 5), each with a specific improvement useful for highlighting anatomical details with different levels of sharpness. Equipped with the powerful NNT software, X-VS now allows more advanced and versatile image processing filters to be used in **Adaptive MultiVision** mode. You can select which filters to use from pre-set families or define customised ones based on individual diagnostic or visual preferences. This enhances diagnostic efficiency.

INNOVATIVE ERGONOMICS

Ergonomic design, rounded corners and a flexible lead make the X-VS a practical, ergonomic and intelligent sensor. This speeds up the work and makes it more practical, maximising patient comfort.

Designed to adapt perfectly to the anatomy of the oral cavity, X-VS maximises both the active area and positioning comfort. Ergonomic positioners ensure optimal sensor placement.

X-VS maintains a perfect combination of first-rate comfort and cutting-edge technology Patient comfort is ensured by ergonomics and automatic acquisition, helping real-time diagnostics: it also allows the dentist/assistant to be always next to the patient for an uninterrupted workflow.

MULTILAYER SENSOR

Four-layer sensor, Caesium Iodide scintillator with column-like micro-structures that preserve image quality; intercepts the X-ray beam and converts it into visible light. The Fibre Optics Plate collimates the radiation onto the sensor and protects it against X-ray penetration.
The CMOS acquisition device and the electronics convert the light into a high definition digital image.

Reinforced case
IP67

Csl precision
scintillator

Optic Fibre
Protection Layer - FOP

HD CMOS
high-res sensor

Electronic image processing

With X-VS the captured images are immediately displayed. Quick and easy sharing, communication and storage for an optimised workflow. Following acquisition, images are loaded directly onto the PC. From here they can be consulted, printed and shared via the iPad App** or a free image viewer.

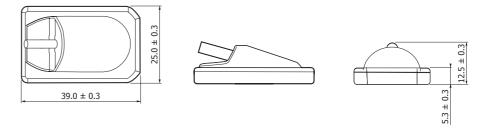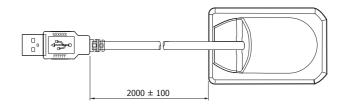| X-VS SENSOR	SIZE 1 – STANDARD	SIZE 2 – LARGE
Outside dimensions (mm)	38.9 x 24.9	41.9 x 30.4
Thickness (mm)	5.3	5.7
Pixel matrix	1500 x 1000	1700 x 1300
Pixel size (μm)	20	20
Max. resolution (lp/mm)	25	25
Grey level depth	14 bit acquisition - 16,384 maximum levels of grey	
Scintillator technology	CsI (Caesium Iodide) with micro-columnar structure	
Direct exposure protection	FOP (Fibre Optic Plate)	
Degree of Case protection	IP67 (Guaranteed against liquid or dust infiltration)	
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	

X-VS SOFTWARE

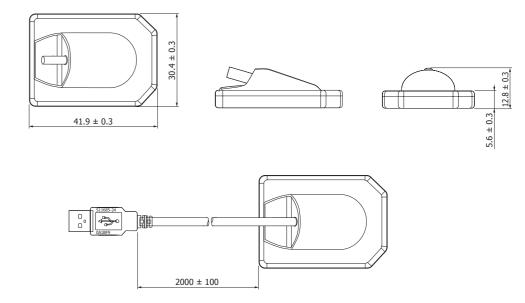|	
Acquisition software (for PC)	iCapture with dedicated X-VS image third-party software and for automatic filing of RX DC exposure parameters on PC
Image management software (for PC)	NNT (compliant with ISDP©10003:2020 in accordance with EN ISO/IEC17065:2012 - certificate number 2019003109-3) and iPad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

X-VS - 1

X-VS - 2

Dimensions in centimetres
(dimensions in inches)

CE 0051

** NOT available in USA and CANADA

BEYOND VISION

NEWTOM
CONE BEAM 3D IMAGING

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Making Your Life Better.

BU MEDICAL EQUIPMENT

**SEDE LEGALE ED AMMINISTRATIVA
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