

**Sede legale ed amministrativa  
Headquarters**

Cefla s.c.  
Via Selice Provinciale, 23/a  
40026 Imola - Bo (Italy)  
tel. +39 0542 653111  
fax +39 0542 653344

**Stabilimento  
Plant**

Via Bicocca, 14/c  
40026 Imola - Bo (Italy)  
tel. +39 0542 653441  
fax +39 0542 653601



# HIGH DEFINITION X-RAY IMAGING

**ANTHOS X-RAY IMAGING**

RXDC INTRAORAL X-RAY UNIT  
X-VS INTRAORAL SENSOR

R.

re  
veal



ENJOY THE DIFFERENCE

# X-ray imaging that is precise, practical and versatile

## RXDC X-RAY IMAGING UNIT

We've designed and built the instruments your surgery's been waiting for: practical, high definition, ergonomic and versatile. Instruments that make work easier and more professional, that improve dentist-patient relations thanks to immediate

diagnosis and real-time high definition imaging. Solutions that adapt to the dentist's work, boosting the surgery's diagnostic capabilities and improving the quality of the work provided.

RXDC efficiency stems from a combination of advanced technology and an outstanding capacity to produce high definition images. The RXDC X-ray unit provides top-flight performance, practicality and technology. The RXDC features a constant potential high frequency (DC) generator and a very small focal spot (0.4 mm) capable of providing sharp, detailed images while ensuring working comfort and low doses for the patient.

Higher performance with RXDC, the X-ray unit that combines high definition imaging, ergonomic design and low X-ray doses.

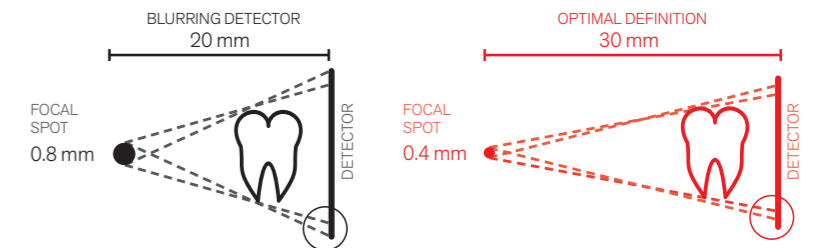


### User-friendly control.

A practical, user-friendly handheld unit, designed for immediate, precise X-ray image acquisition, allows easy selection of the most suitable programme. Moreover, it allows users to control the exact emitted dose and the tube temperature via the sequential exposure graph.

### Maximum precision.

Focal spot 0.4 mm and power 70 kV / 8 mA, high-frequency constant potential generator. Cutting-edge technology for extremely detailed images. The RXDC is extremely reliable: constant-potential design ensures image generation is unaffected by power fluctuations.



Increased X-ray parallelism and an incorporated collimator allow the RXDC to achieve a source-to-skin gap of 30 cm. The RXDC provides pin-sharp, precise images with outstanding detail.



### Infinite mobility.

We've designed the RXDC to maximise mobility; a practical trolley allows the X-ray unit to be moved anywhere in the surgery.

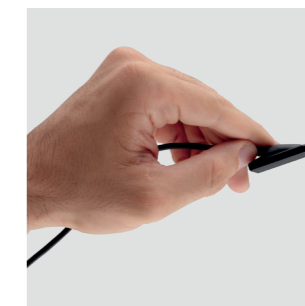


### Higher performance and maximum ergonomics.

Thanks to the protractor with graduated scale, positioning of the arms and the head is stable, effective and fully adaptable to your work. Consists of extruded aluminium arms with an integrated self-balancing system that allows them to be pointed in 6 directions - available in the following lengths: 40, 60 and 90 cm to make installation as simple as possible.



The RXDC can also be set up with shutters and a rectangular collimator (optional) to define the body area that will be exposed and so reduce the received dose. Maximum attention to staff and patient health, while ensuring sharp, high definition image quality.



Extremely practical and versatile, the RXDC can be used together with any type of sensor. Featuring 28 levels of sensitivity, it ensures sharp images in any situation.

# Personalised diagnostics

## X-VS SENSOR

The X-VS intraoral sensor offers extraordinary performance, practical ergonomics and high technology, offering a perfect balance between comfort and

cutting-edge technology. The X-VS is impact and dust-resistant, is certified IP67 (water-resistant) and can be used with all X-ray systems.



The X-VS means real-time diagnostics, direct USB plug-and-play connection, high definition and immediate results. The X-VS uses iRYS, 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 any other devices already in the surgery.

## Multi-Layer image with different personalised filters.

Latest generation X-VS image processing software helps you improve diagnostic efficiency. Image reading is simple and convenient thanks to outstanding resolution and a user-friendly software interface.

The **Anthos Multi-Layer-Images** function meets all your needs. Proprietary algorithms optimised for the X-VS sensor let users capture, display and simultaneously share sets of up to 5 images. Each image highlights various anatomical details with different degrees of sharpness. Contrast can be customised according to preference. Selected settings can then be applied as default settings. All this ensures improved diagnostic capability.

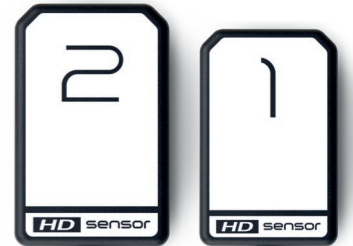
Equipped with iRYS software, X-VS offers the most advanced, versatile image processing filter pre-setting available. The dentist selects which filters to use and defines any further personalisation, all via the iRYS image display window. This streamlines work considerably at all times.

## 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.

## Made-to-measure 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.



## Total synergy.

Designed to adapt perfectly to the anatomy of the oral cavity, the X-VS maximises both the active area and positioning comfort. Ergonomic positioners ensure optimal sensor placement. Made of extremely hard-wearing materials of the highest quality, it is compatible with available X-ray generators.



## Patient-focused.

X-VS maintains a perfect combination of first-rate comfort and cutting-edge technology. Patient comfort is ensured by ergonomics and automatic acquisition, thanks to which there is immediate diagnosis: it also allows the dentist/assistant to remain alongside the patient, ensuring interruption-free work.



## Real-time diagnostics.

With X-VS there is immediate display of the acquired images plus fast, simple sharing, communication and storage; in short, the perfect work flow. 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.

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.

- Protective body - IP67
- Precision scintillator CsI
- Optic Fibre Protection Layer FOP
- High definition sensor HD CMOS
- Electronic image processing

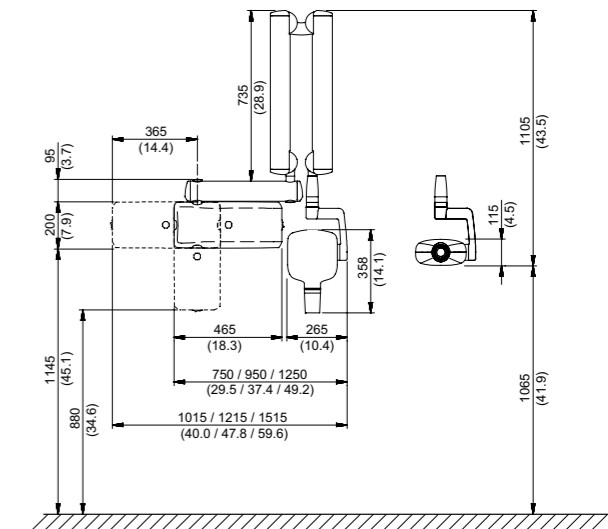
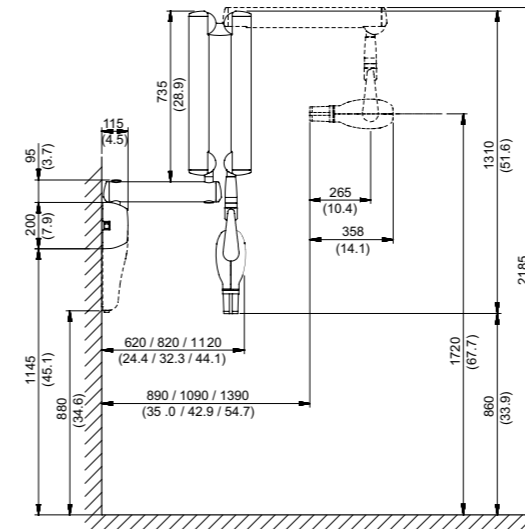


# Technical Specifications

## RXDC X-ray unit

Generator	Constant potential, microprocessor-controlled
Working frequency	145 - 230 KHz with self-adjustment (typically 175 KHz)
Focal spot	0.4 mm (IEC 336)
Total filtration	2.0 mm Al @ 70kV
Anode current	4 / 8 mA
Voltage at X-ray tube	60 / 65 / 70 kV (*)
Exposure times	0.020 – 1.000 seconds, R'10 and R'20 scale
Source-skin distance	20 and 30 cm
Irradiated field	Ø 55 mm and Ø 60 mm round
Additional collimators	35 x 45 mm rectangular, 31 x 41 mm and 22 x 35 mm, for sensors size 2 and size 1
Power supply	50/60 Hz, 115-120 V AC ±10% or 230-240 V AC ±10%
Duty Cycle	Continuous operation with self-adjustment up to 1s/90s total
Arms (for Standard version only)	Available in 3 lengths: 40 cm – 60 cm – 90 cm
Max. arm extension	230 cm, from wall
Certification	CE 0051, FDA approved
Versions	Standard (wall mounted) or Mobile (on portable cart)

(\*) values depend on the country where the product is marketed.



X-VS Sensor	Size 1 - Regular	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
Maximum resolution (lp/mm)	25	25
Grey levels depth	14-bit acquisition - 16384 maximum grey levels	
Scintillator technology	CsI (Cesium Iodide) with micro-columnar structure	
Direct exposure protection	FOP (Fibre Optics Plate)	
Protection rating	IP 67 (Guaranteed against liquid or dust infiltration)	
Compatibility with X-ray generators	Any AC or DC technology X-ray generator with kV values in the 60 – 70 kV range and precision control of exposure times	
Connectivity	Direct USB to PC	
Acquisition software (for PC)	iCapture with dedicated filters for third party software	
Image management software (for PC)	iRYS (complies with ISDP©10003:2018 as per EN ISO/IEC17065:2012 - certificate number 2019003109-1) and iPad iRYS viewer app (free)	
Supported protocols	DICOM 3.0, TWAIN, VDDS	
DICOM nodes	IHE compliant (Print; Storage Commitment; SR document; WorkList MPPS; Query Retrieve)	

## Minimum system requisites

Supported operating systems	Microsoft® Windows® 7 (SP1) - 8 - 8.1 Professional (64 bit recommended); Microsoft® Windows® 10 Professional 64 bit
Display settings	1280 x 1024; 1344 x 768 or greater, 16 million colours
Port	USB 2.0 or subsequent
Power supply	5 V DC, 500 mA (via USB)

