

Integrated imaging.



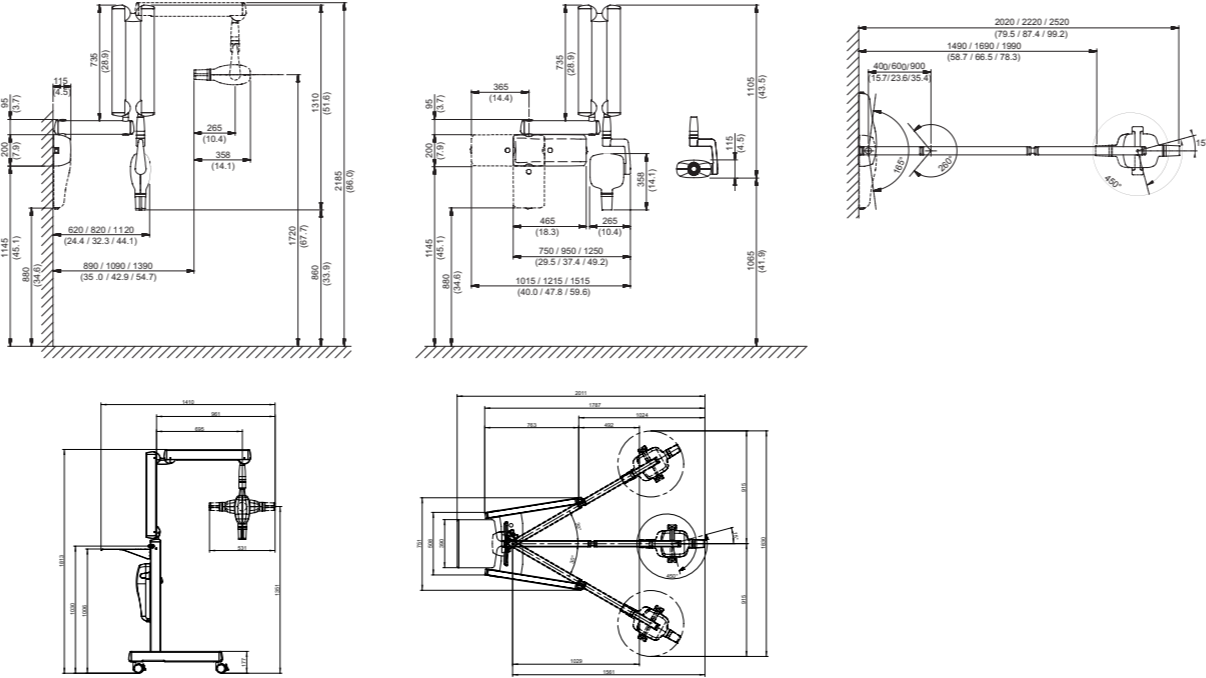
Since 1935 Castellini has been characterised by a combination of tradition and technology. The RXDC and X-VS - X-VISUS HD technology boost diagnostic capacity, comfort and patient involvement. High definition imaging, low patient doses, versatility and ergonomics ensure an ideal work flow.

Today, Castellini also means RXDC and X-VS - X-VISUS HD technology: a new frontier in imaging.

Technical Specifications

Sensor X-VS	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 con with TWAIN interface	
Image management software (for PC)	iRYS (for PC) with DICOM 3.0 interface with free viewer and APP for iPad	
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 VDC, 500 mA (via USB)	
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, 115-120Vac +10% or 230-240Vac +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



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Due to our policy of constant technological upgrading, the technical specifications may be subject to change without prior notice.

According to the regulations in force, some products and/or features may have different availability and characteristics in areas outside of the European Union. Please contact your local distributor.

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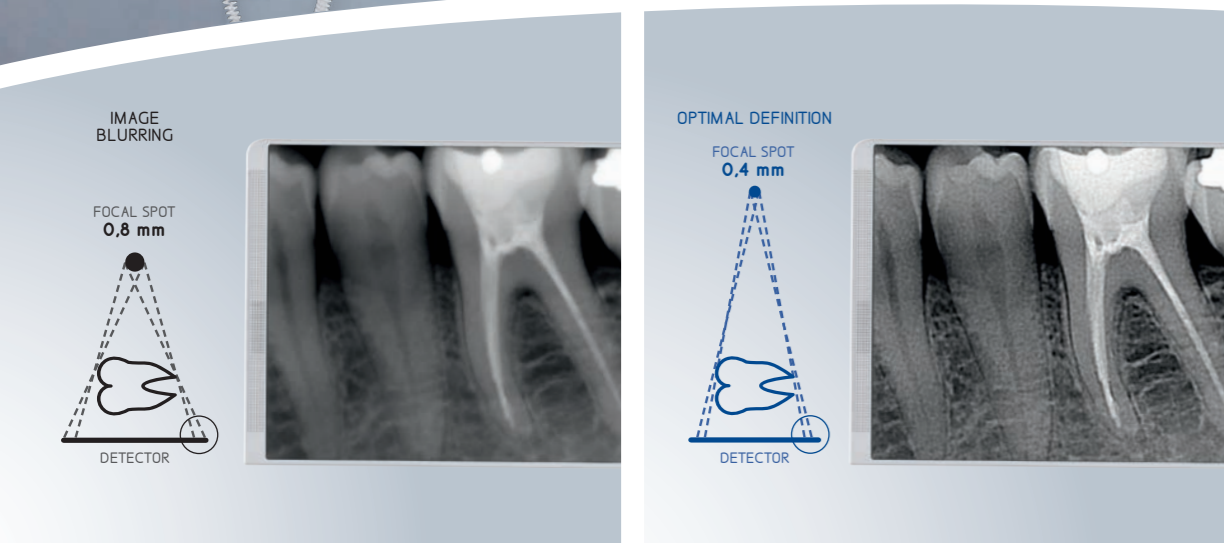
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RXDC  
high frequency X-ray unit  
X-VS  
intraoral sensor with X-Visus HD technology

The perfect dimension of imaging





### Ergonomics and reliability

With its ergonomic design, the RXDC offers simplicity and reliability thanks to solid extruded aluminium arms with an integrated self-balancing system. Arm and tube head positioning is comfortable and stable. The protractor with graduated scale allows easy positioning.

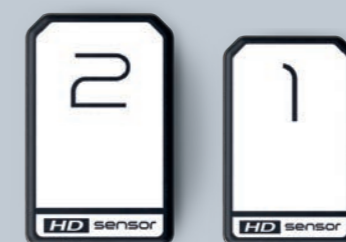
### High definition, minimum dose

The RXDC increases X-ray parallelism: thanks to the incorporated collimator the RXDC can achieve a source-to-skin gap of 30 cm. Sharp edges, clear images and precise detail, all while keeping patient doses low.

### Maximum versatility and mobility

The RXDC is now even more practical and versatile, wall-mounted with 6 variable positions - 3 extensions available in the following lengths: 40, 60 and 90 cm - or, thanks to the cart, it can easily be moved around for use in different areas of the surgery. One X-ray unit for all your needs.

## Immediate diagnosis, excellent results.



### User-friendly control

The RXDC is equipped with a simple, user-friendly handheld device. This is used to select the most suitable programme and ensure perfect X-ray acquisition. Moreover, thanks to the fast Dynamic Duty-Cycle, it is possible to keep tube temperature under control and check - in real time - the exact administered dose.

### High clinical potential

The RXDC is a versatile, user-friendly X-ray unit, capable of producing high quality imaging thanks to cutting-edge technology. It also maximises working comfort while ensuring low X-ray doses for the patient and maintaining ultra-high performance. The RXDC, in fact, uses a constant potential high frequency (DC) generator and a very small focal spot (0.4 mm) that provides sharp, detailed images. Automatic exposure parameter modulation and accurate power selection make the RXDC the perfect X-ray unit whatever the situation, personalised according to the patient's build and the specific region of investigation. Optimal results, user-friendliness and maximum comfort. The RXDC is the perfect X-ray unit, capable of combining high quality imaging and a versatile, ergonomic design with low patient doses.



### Collimator cones

An embedded collimator cone gives a source-to-skin distance of 30 cm. The optional rectangular cone further reduces the body area exposed to X-rays.

Innovative ergonomics, direct USB plug-and-play connection, high definition and immediate results make the X-VS with X-ViSUS 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 quality of work. Impact-resistant, dust-resistant and certified IP67 (water-resistant), the X-VS - X-ViSUS HD technology can be used with all X-ray systems. The X-VS - X-ViSUS HD technology uses iRYS, the all-in-one software for diagnostics, communication and management of intraoral imaging which gives smooth storage, processing and printing of images in perfect synergy with any other devices already in the surgery.

### Made-to-measure sensor

X-VS - X-ViSUS HD technology allows users to choose between two sensor sizes, these make it more adaptable to the dimensions of the patient's oral cavity. Outstanding positioning comfort thanks to ergonomic sensors with rounded corners, high performance thanks to compact design and a maximised active area. X-VS - X-ViSUS HD technology also ensures dentists/assistants to remain alongside patients, allowing uninterrupted communication with them.

### Latest-generation HD sensor

4-layer sensor with an additional protective layer to provide sharp, high-contrast images. Caesium Iodide (CsI) scintillator made up of column-like micro-structures that preserve image quality, it 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 against 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.

