myray
new comfort
in digital imaging

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Making Your Life Better.

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BU MEDICAL EQUIPMENT

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RAY OF SOLUTIONS

Zen-X DCiS

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RAY OF SOLUTIONS

AS SIMPLE AS FREEDOM!

The first intraoral sensor with Wire Free system and DC (Direct Conversion), for accurate X-ray imaging in just a few steps. Cordless for maximum usability. Compact and ergonomic for patient comfort.

RAY OF SOLUTIONS

IP67 certified for protection against liquids and dust.

WATERPROOF

PRACTICAL
Status LED on the back.
Size 2 with large active area for generation of the X-ray image.

COMPACT
Less stress for the patient with rounded edges.
Minimum thickness thanks to Direct Conversion (DC) technology which streamlines the number of internal components.
Extremely slim rechargeable lithium battery housing hub.

ALL IN ONE
Docking station for housing and charging the sensor when not in use.

WIRE FREE
Antenna for data reception in Wireless mode: minimum consumption, maximum image yield.

WHEREVER YOU WANT
Place your docking station on a work surface, on your desk or on the wall using the special fixing kit. Status LED always visible. Simple and always accessible USB connection.

EFFICIENT AND PATIENT-FRIENDLY

Enhance your workflow and patient experience with Zen-X DCiS. The right tool to get the most out of your time.

- Compact and minimally invasive
- Cordless
- Easy positioning

Experience the convenience of our Wire Free system: no cables to hinder movements; no stress for the patient thanks to the sensor low thickness and rounded corners; accessories to facilitate positioning while minimising discomfort for the patient. Since the cable is the part most exposed to wear, the Wire Free system also guarantees a longer sensor life. Zen-X DCiS, integrating direct conversion technology, has no internal easily breakable components and is therefore more resistant to falls and impacts.

DESIGNED TO LAST

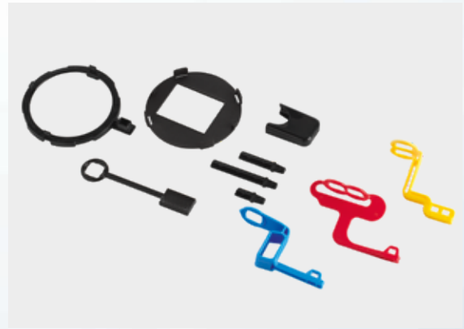
Stronger outer shell and internal components for increased impact and compression resistance and a longer life. No fragile components such as the scintillator which is required in sensors that do not integrate DC technology.

COMFORT

Non-invasive sensor thanks to its extremely low thickness and smooth lines without edges.
Zen-X DCiS puts patient health and care first.

POSITIONING

Alignment system created specifically for Zen-X DCiS that does not add extra bulk to the sensor profile and guarantees superior patient comfort. Easy to position, it allows the X-ray unit to be brought closer to the patient face exposing only the required areas - thanks to a special alignment ring and positioners designed to adapt perfectly to specific diagnostic needs.



THE ULTIMATE 2D IMAGING

First wireless direct conversion sensor. Zen-X DCiS incorporates all the best high-tech imaging technologies.

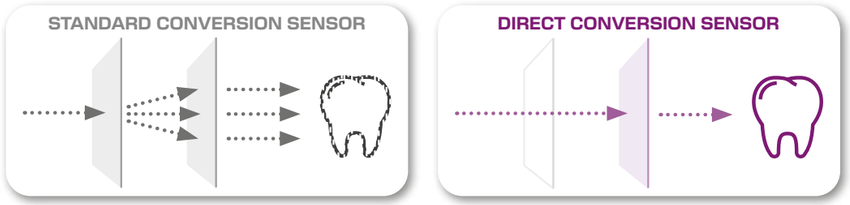
- Fewer required steps
- More sharpness
- Better contrast
- Minimal bulk
- Long life

Zen-X DCiS integrates direct conversion technology, which does not require the conversion of X-rays into visible light. Fewer steps, fewer components, smaller footprint and above all - perfect image quality.

Once scanning is complete, iRYS will take care of everything. MyRay's native software features advanced filters to further enhance the image or emphasize details.

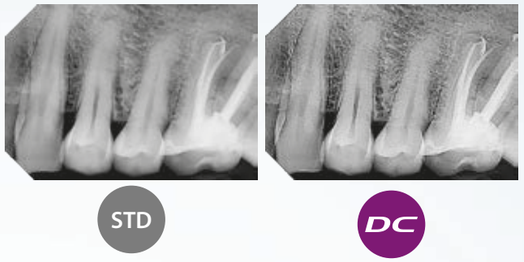
THE BENEFITS OF DIRECT CONVERSION

With a standard sensor X-rays have to be converted into visible light, using a scintillator, because the sensor reacts to light like a photographic film. Zen-X DCiS, on the other hand, is a direct conversion sensor: it receives and processes X-rays directly. Fewer steps mean a lower risk of diagnostic information loss, sharper and well-contrasted images, even at low doses.



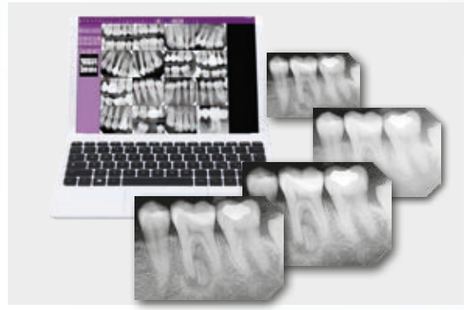
IN-DEPTH DETAIL

The best of 2D X-ray imaging: Zen-X DCiS direct conversion sensor produces sharper images with better contrast than a conventional sensor.



MultiMAGE

This original MyRay function is designed to meet the real needs of dentists like you.
By using proprietary PiE (Powerful image Enhancer) algorithms optimised for the Zen-X DCiS sensor, this function lets dentists simultaneously capture, display and share a set of up to 5 images. Each image is the result of a different type of improvement designed to highlight various anatomical details with different levels of sharpness and contrast, ensuring dentists can diagnose better.



PiE (Powerful Image Enhancer) FILTERS

New set of filters to highlight all the details necessary for different clinical requirements.

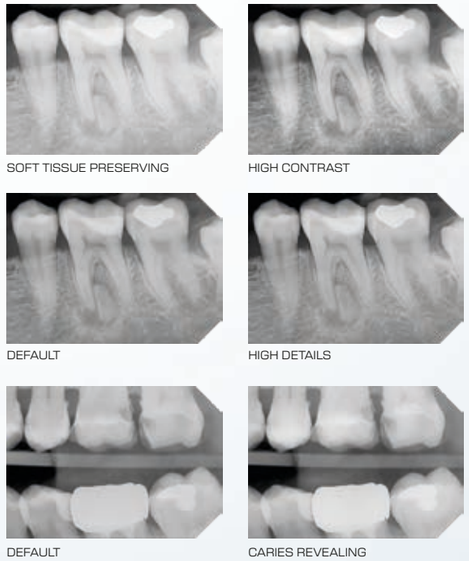
Soft tissue preserving: keeps areas at risk of image darkening unaltered to highlight soft tissues.

High contrast: enhances the contrast, if the image is low in contrast due to anatomical reasons or X-ray parameters.

Default: balances noise, contrast and sharpness.

High details: emphasizes image details.

Caries revealing: improves the contrast level of bitewing images allowing easier identification of interproximal caries.

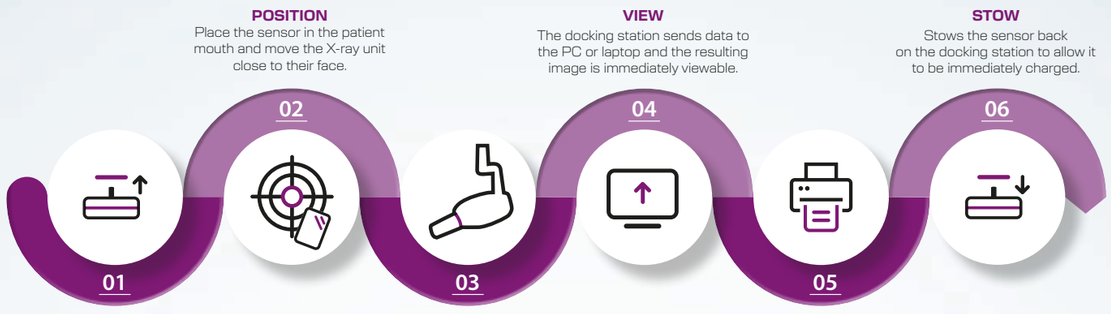


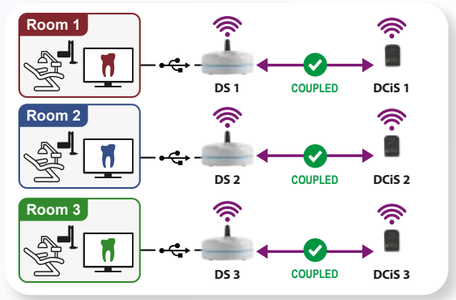
YOUR BEST WORKFLOW SOLUTION

Choose the configuration that best suits your needs.
The sensor adapts to your work, not the other way around.

- Images available immediately
- Several possible configurations
- Energy saving

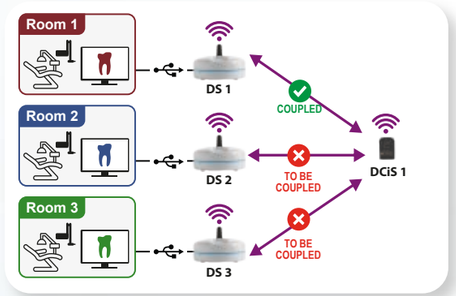
Zen-X DCiS streamlines your workflow and integrates seamlessly into your clinic. Through Wireless technology, the sensor interacts with the docking station wirelessly and with minimum power consumption with no impact on quality. In just a few seconds the image is available on the monitor to be shared with the patient and colleagues. With iRYS you can browse through images, calibrate them or use pre-settable filters. The software allows pairing with the dentition chart and has predefined layouts to quickly store and view the X-rays. A preferred combination of sensors and docking station can also be chosen. Zen-X DCiS is made to look like you!





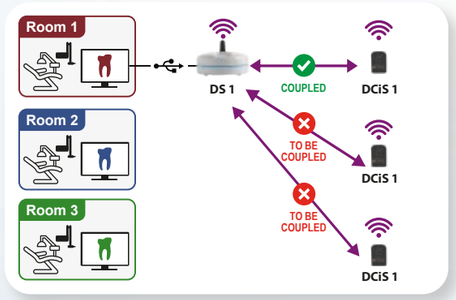
WORKFLOW A

1 to 1 pairing.
Each sensor interacts with its own docking station. Simultaneous data transmission is also possible.



WORKFLOW B

1 to many pairing.
A single sensor interacts with multiple docking stations. The sensor can interact with only one docking station at a time.



WORKFLOW C

Many to 1 pairing.
Several sensors interact with a single docking station. Transmission can occur from only one sensor at a time.

OPTIONAL ACCESSORIES

**Add the alignment system designed for Zen-X DCiS.
Choose where to keep the docking station.
Optimized ergonomics and maximum user-friendliness.**

- Minimally invasive in the mouth
- Easy positioning
- Optimal alignment
- Wall fixing of the docking station

Alignment system that facilitates positioning. No extra bulk for the sensor profile which is therefore minimally invasive in the patient's mouth for superior comfort.
The system allows the X-ray unit to be brought closer to the patient's face, focussing the X-ray emission only on the area to be examined.
A special kit allows you to install the docking station on the wall, freeing up workspace.

DIMENSIONS	
Sensor size	2
Sensor footprint	43.4 mm (height) x 29.5 mm(width)
Sensor thickness	5.2 mm (9.2 mm considering the battery housing hub)
Active area	35.1 mm x 24.7 mm
Docking station	100 mm (diameter) x 62 mm (height)
USB lead length	2 m (supplied to connect docking station to PC/laptop)
IMAGE ACQUISITION	
Pixel matrix	1350 x 950 (1,282,500 pixel)
Detector	Single-crystal direct-conversion silicon / CMOS
MTF (Modulation Transfer Function)	> 70% @ 5 lp/mm, > 40% @10 lp/mm
Exposure parameters	0.1-0.5 s, 60-70 kV, 6/8 mA, 20 cm (8") cone
Wireless image transmission time	Less than 10 s under optimal working conditions
SENSOR TECHNICAL SPECIFICATIONS	
Internal battery	Rechargeable lithium ion (capacity 19 mAH)
Degree of protection	IP 67 (Guaranteed against liquid or dust infiltration)
Integrated RAM memory	4 MB (maximum 1 preservable image)
Image transmission technology	Wireless
Wireless operating distance	Up to 2.5 m from docking station
Compatibility with X-ray generators	Wall-mounted or cart (both AC and DC): 2-10 mA and 60-70 kV. Portable: 2-10 mA and 60-70 kV.
Complete recharge time	3.5 h (allows acquisition of 140* consecutive images, with a 40 s pause between two examinations)
Minimum advisable recharge time	15 minutes (allows acquisition of 19* consecutive images, with a 40 s pause between two examinations)
SOFTWARE	
Acquisition software (for PC)	iCapture with dedicated filters for third party software
Image management software (for PC)	iRYS (complies with ISDP®10003:2020 as per EN ISO/IEC17065:2012 certificate number 2019003109-3)
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® 10 Pro 64 bit - Windows® 11 Pro 64 bit
Processor	6th generation Intel i5 or equivalent
Hard disk	Intel Core i3, 10th generation (or higher)
RAM	4 GB (8 GB or superior recommended)
Graphics card	3D VideoCard 1 GB RAM (DirectX 11 / OpenCL v1.2 or later support)
Display	1920x1080 pixel 24bit RGB Full HD
COMMUNICATION INTERFACES	
Docking station connection port	USB-C
PC/laptop connection port	USB-A
Power supply	+5V ± 10%
Input power	2,5 W

* Values susceptible to a reduction in performance due to effective battery life (the battery must only be replaced by qualified technicians).

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