

# WDS

Digital X-ray sensor  
Bluetooth® Technology

## Minimum System Requirements

Operating System	Microsoft® Windows® XP Service Pack 2 or later
Ports	USB 2.0
Processor	1.0 GHz or faster
Memory	256 MB (512 MB recommended)
Display Setting	1024x768 at 32 bit true color

## Technical Specifications

Sensor:	CCD + FOP + Csl
Pixel Size:	20x20µm
Intrinsic resolution:	CCD 25 lp/mm
Sensitivity:	30mR half well
Dynamic range:	12 bit, 4096 gray shades
Size 1	
Pixel Matrix:	1000 x 1500
Active Area:	20 x 30 mm
External Dimensions:	26.4 x 38.8 x 5.3 mm
Size 2	
Pixel Matrix:	1200 x 1700
Active Area:	24 x 34 mm
External Dimensions:	30.7 x 42.7 x 5.3 mm



[www.my-ray.com](http://www.my-ray.com)



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



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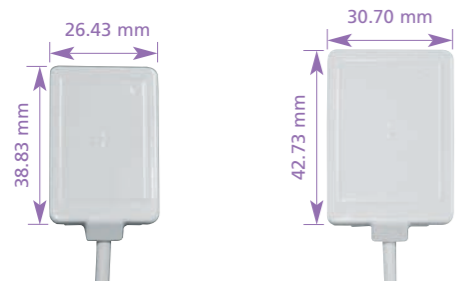
## Built with your patient's health in mind

When it comes to diagnosis, images are not enough. It is essential that those images are accurate and clear.

**WDS** features a highly sophisticated X-ray sensor, capable of image acquisition at minimal exposure dosage, among the lowest in the industry. So you can control any step of dental treatment without increasing radiation. More control, better diagnosis, lower dosage. All in all, it's all about care.

**WDS** makes it all simple to achieve. As easy to handle as a cell phone and as simple to use as a remote control, this little device has a big technological heart. No wires, no strings, no power supply.

**WDS** is a pocket-size handheld device, powered by normal rechargeable batteries. Carry it from room to room freely, saving time and costs.



## Three-layer Sensor Technology

State-of-the-art X-ray image acquisition. Made of three different layers encapsulated in a protective shell, each layer contributes to final image quality.

### CsI

This Caesium Iodide scintillator is the first one to intercept the X-ray beam converting it into visible light. It is manufactured with a vertical growth process that generates a columnar microstructure, which grants unsurpassed image quality.

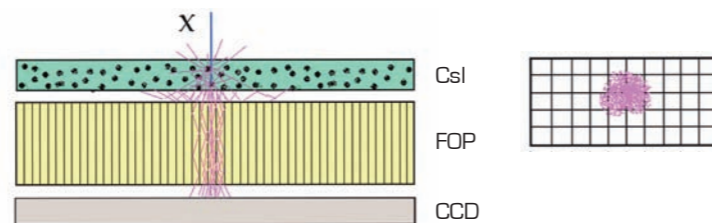
### FOP

This Fibre Optics Plate protects the sensor from direct X-ray penetration, allowing years of use without image deterioration. Moreover, the vertical fibres preserve the image resolution while the light propagates through the three layers in the sensor.

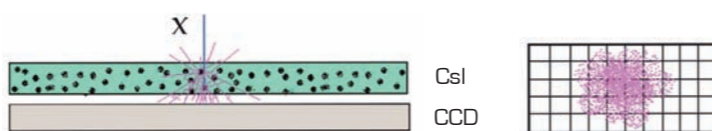
### CCD

This is the acquisition device. It converts the light into a digital image. With perfectly square acquisition cells of 20µm, it can reach the maximum resolution of 25 lp/mm with 12bit encoding and 4096 gray shades, way above your intra-oral imaging needs. So you can be sure no detail is missed.

### Sensor with FOP



### Sensor without FOP

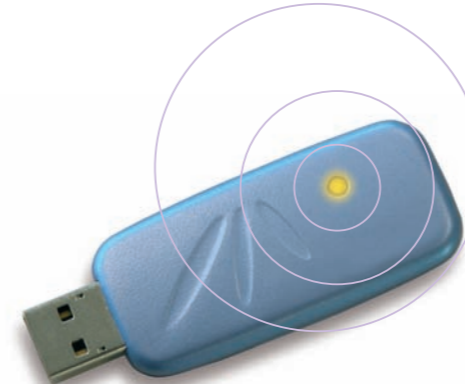


## Bluetooth® Technology

Fast and reliable, this widespread industry standard has become very popular on mobile phones.

The small Bluetooth® receiving antenna plugs directly into the USB port of your PC.

No need for expensive control boxes and receivers, nor additional investments to share the system among multiple treatment rooms. Just a small Bluetooth® antenna plugged into each computer.



Bluetooth® allows for safe and reliable data transmission.

The transmitting device and the receiver recognize each other by name before sharing data, so that the images cannot be misaddressed.

WDS features a large font display, showing the connection status in real time, the name of the sensor and the computer to which it is connected, so you can decide to show the X-ray images exactly where you need them.

Moreover, the reduced transmitting range avoids interferences with other wireless devices.

No surprise Bluetooth® is the preferred technology in short range wireless applications.

Sensor name

Transmission status

Computer name

Battery level



## The Digital Way

Save time and costs, reduce X-ray exposure, improve your diagnostics.

Enhance, share, store your X-ray images easily, thanks to the treatment software. The WDS sensor works with existing X-ray generators. It is available in two sizes, so you can choose the one that better suits your needs. Specific aiming devices are designed to facilitate sensor positioning.

WDS is intraoral X-ray technology made simple, so nothing else stands in the way between you and the digital choice. Going digital is no longer an option. Better workflow. Better care.

