

Product presentation

OPTEO & ONE

3rd generation



Table of content

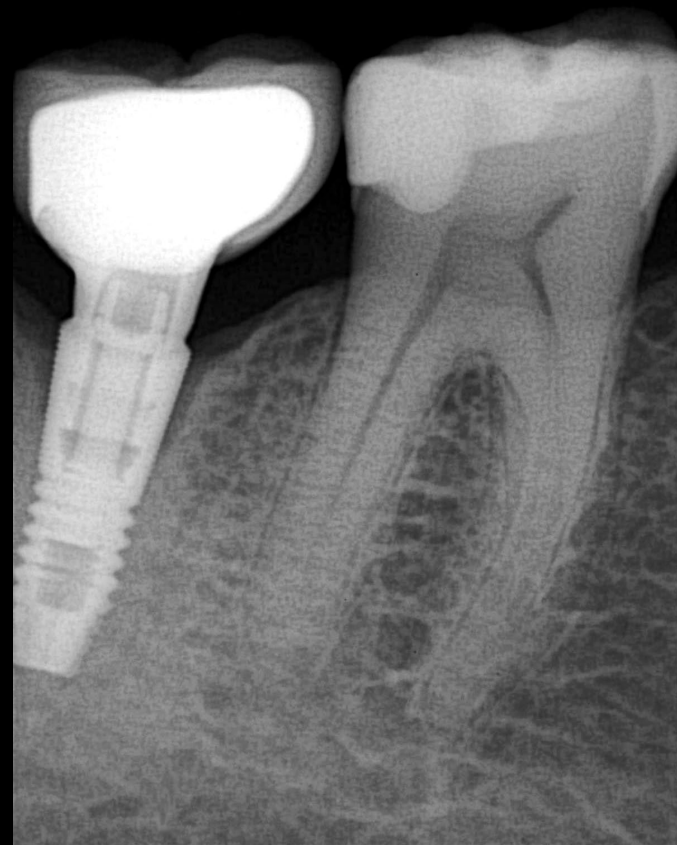


- 01** New technology
- 02** Opteo: key points
- 03** Opteo: new features and dimensions
- 04** Owandy Academy
- 05** Opteo & One range

I. HIGH QUALITY

Ultra HD Image Quality

- Featuring 18.5-micron Ultra HD quality
- Exceptional sharp and detailed intraoral images



II. ALWAYS ON TECHNOLOGY

Sensor Always Ready

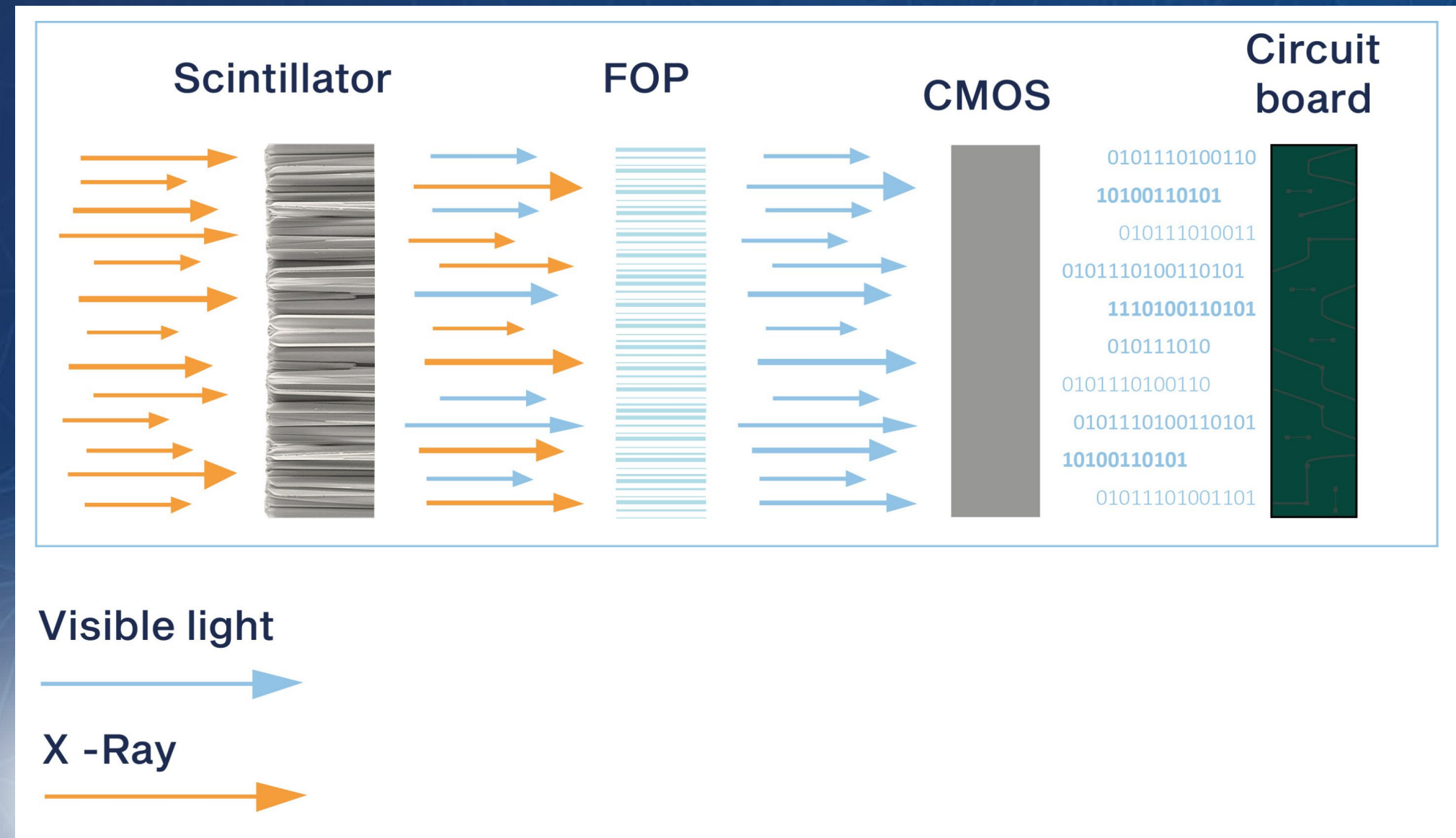
- This feature ensures your Opteo sensor is ready for use instantly, eliminating warm-up time and providing a seamless workflow
- Capture high-quality intraoral images without interruption



III. FOP TECHNOLOGY

Fiber Optic Plate

- The built-in FOP and low power consumption design significantly extend the sensor's lifespan
- X-rays are transformed into visible light after flashing, though some X-rays remain
- Once they pass through the FOP, no X-rays are left



IV. HD SCINTILLATORS

High Resolution Scintillators

- The new scintillator CsI:Tl (Cesium Ioded Thallium Dopped) produces more realistic HD images
- Superior light emission, resulting in better resolution and higher light output

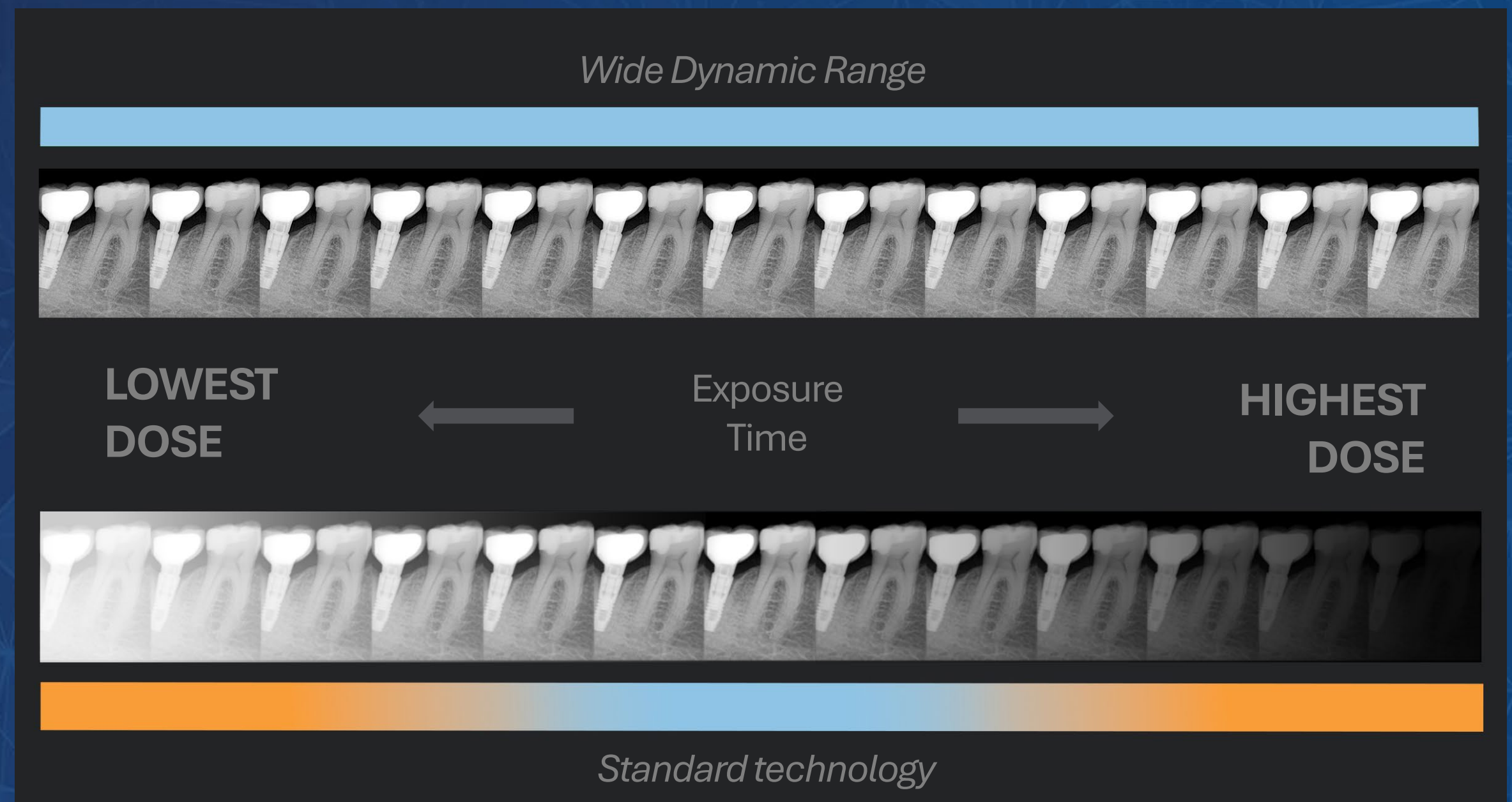


*Cross-section of CsI scintillators
Needle-shaped crystals*

V. WDR TECHNOLOGY

Wide Dynamic Range

- Captures high-quality images with lower radiation doses, minimizing patient exposure and eliminating dosage errors.
- Perfect images on the first attempt, reducing retakes and improving patient comfort.



VI. WSA TECHNOLOGY

Wide Sensitive Area

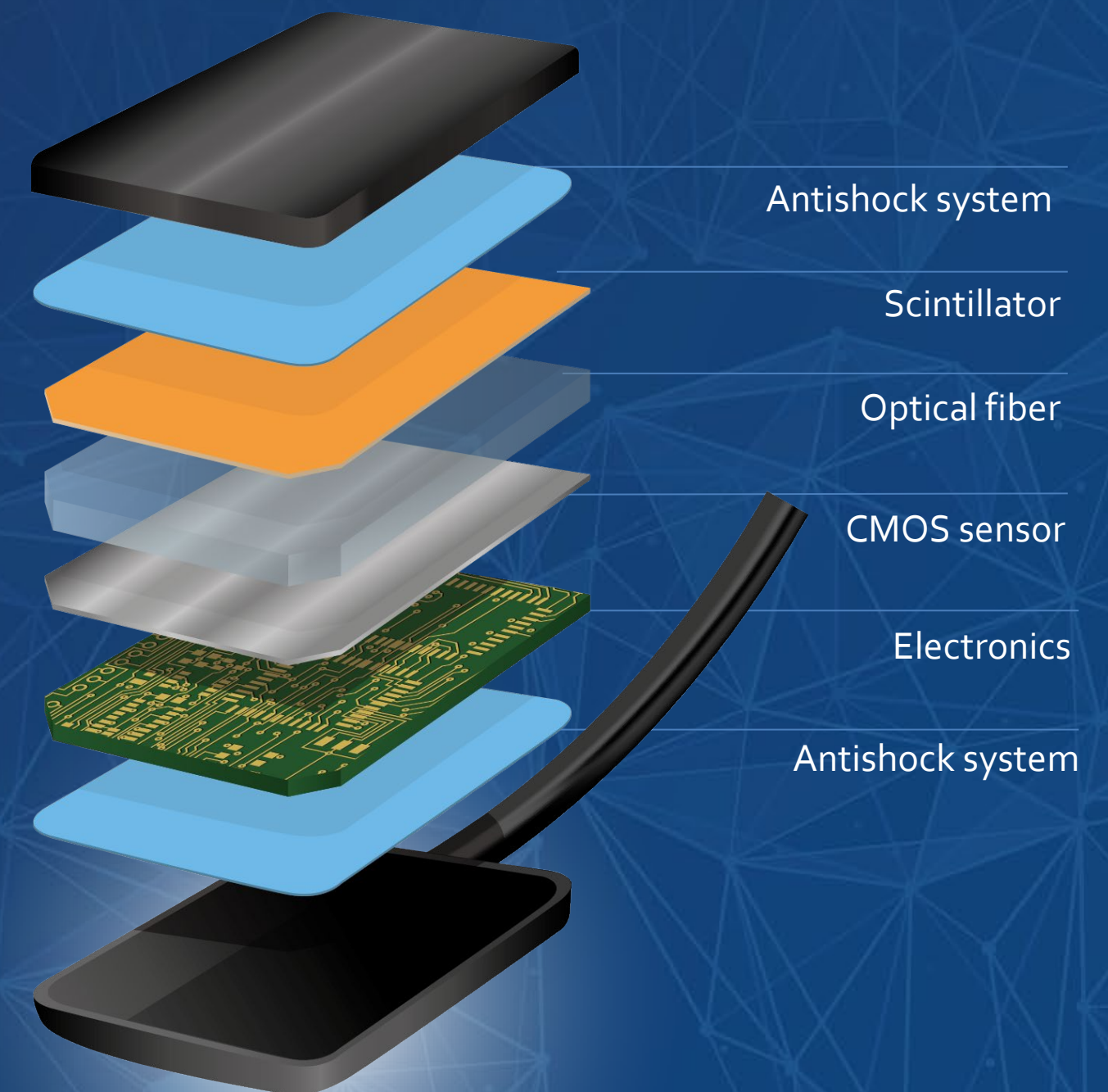
- With 1,5 sensor (0,94x1,29 in) you can take horizontal x-ray image shot
- More confort for patient, the horizontal sensor positioning also let doctor to get several teeth x-ray image in one shot



VII. SENSOR LAYER TECHNOLOGY

Optimized Layer Combination

- The built-in elastic layers protect the sensor from damage due to drops or pressure
- Optimized build with a combination of advanced layers results in a super-thin sensor just 6 mm wide



VIII. DIRECT USB

Improved USB Connector

- **Signal processing in the USB connector**
- **Electronic noise cancellation**
- **Enhances portability and usability**
- **Quicker data transfer**
- **Reduced energy usage**



IX. DURABILITY

Strong & Highly Resistant Cable

- The protective cover is made of PU with strong tear resistance, making it easy to clean and highly resistant to bending
- Ultra-fine conductive copper wire has passed rigorous bending tests, guaranteeing its durability
- Cable replacement service



X. IP68 SENSOR

100% Waterproof

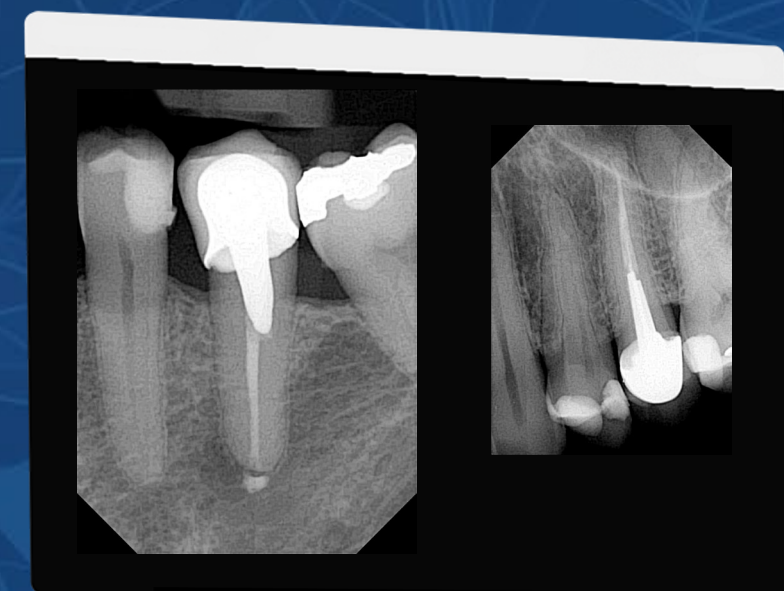
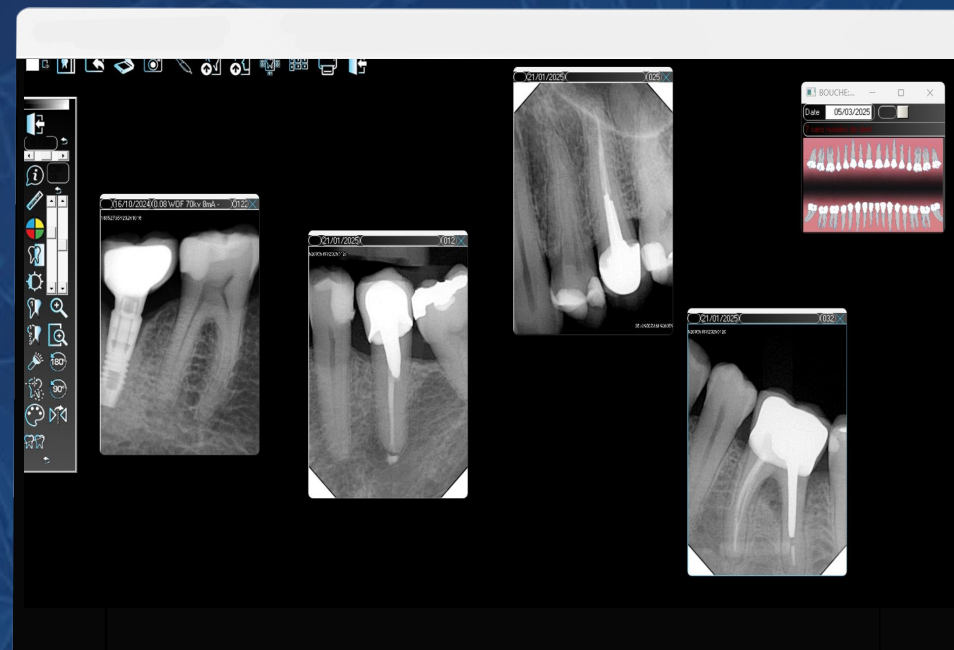
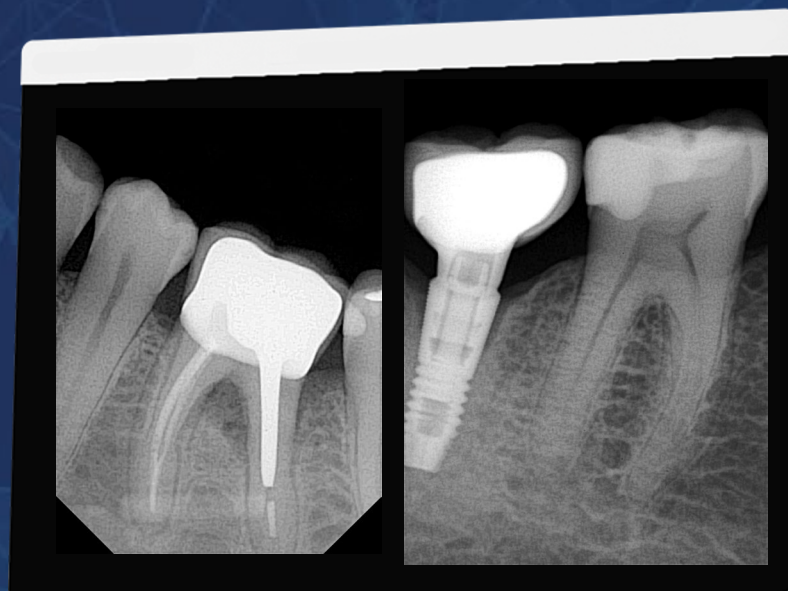
- Sterilizable liquid soaking
- The sensor is tightly stitched and reaches the IP68 waterproof level
- It can be soaked and thoroughly disinfected



XI. TS PROTOCOL

Twain Standard Protocol

- The unique Twain driver protocol ensures our sensors are fully compatible with other software.
- Existing databases and software can continue to be used



Opteo: key points

- 
- New Size 1,5 • Ultra HD Image Quality
 - New Ergonomics • Always ON Technology
 - WDR Technology • 5 years Warranty*
 - Durability • 100 Waterproof



EXCEPTIONAL IMAGE QUALITY

18,5 μm / 27pl/mm



NEW SIZE 1,5

3 sizes (1 / 1,5 / 2) to suit your patients' morphology



ALWAYS ON TECHNOLOGY

Easy use any-time



WDR TECHNOLOGY

Allows for easy capture of both low and high doses



100% WATERPROOF

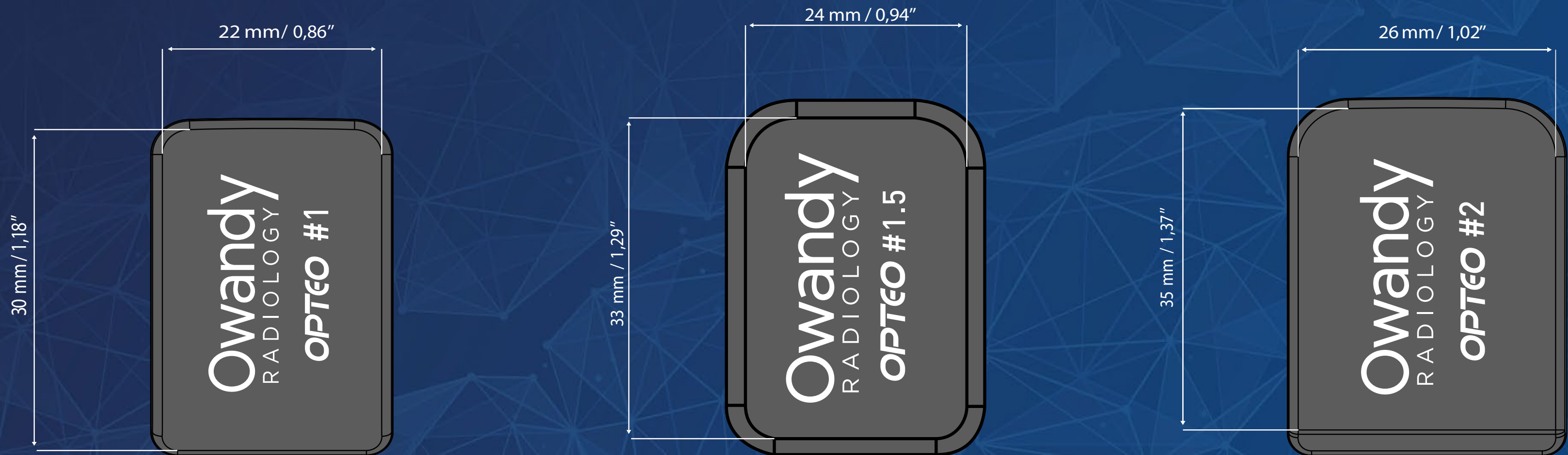
IP68 sensor adapted to sterilizable liquid soaking

Opteo: dimensions



Opteo: dimensions

Optimal Sensitive Area



One: dimensions

Optimal Sensitive Area





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	Opteo 3 rd generation	One 3 rd generation
Chip technology	CMOS – Fiber optic + Csl Scintillator	CMOS – Csl Scintillator
Sensor activation	Always ON	
Theoretical resolution	27 pl/mm	
Actual resolution	> 20 pl/mm	14 - 16 pl/mm
Sensitive surface	T1 = 25,98 in ² - 0,86 x 1,81 in T1,5 = 31,1 in ² - 0,94 x 1,29 in T2 = 35,82 in ² - 1,02 x 1,37 in	T1 = 25,98 mm ² - 0,86 x 1,81 in T2 = 35,82 mm ² - 1,02 x 1,37 in
Pixel size	18,5 x 18,5 µm (T1 - T1,5 - T2)	18,5 x 18,5 µm (T1 - T2)
External dimensions T1	1,49 x 1,07 in	
External dimensions T1.5	1,61 x 1,15 in	NA
External dimensions T2	1,69 x 1,24 mm	
Sensor thickness	0,23 in (sensor outer perimeter)	0,19 in (sensor outer perimeter)
Waterproofing	IP-68	



A complete range of intraoral sensors



OPTEO



one



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