DC-AIR™ by FTG

The New Generation of Digital Radiography.

True Wireless with Bluetooth®

The latest in Bluetooth® Low Energy technology enables DC-Air™ to rapidly and reliably transfer clinical images wirelessly to its receiver connected to the PC.

Direct-Conversion Image Quality

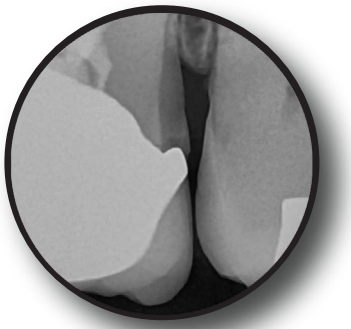
Other sensors have to use a component called a scintillator to convert x-ray photons to visible light so they can interpret an image, but not DC-Air™.

Revolutionary direct-conversion x-ray technology converts x-rays directly to electronic signal, creating a more detailed radiograph with better clarity.

Comfort & Convenience

Elimination of cables and patent-pending alignment system minimizes bulk and maximizes ease of positioning.

The sensor can be quickly secured into different positions in each holder for efficient and accurate acquisition of clinical images. The sensor operates with an integrated battery that can be recharged by placing it on the Docking Station.



Built to Last

With its homogenous silicon construction, DC-Air™ is also lighter and more durable than previous generation sensors.

It has IP67 dust and water resistance rating, and will stand up to the demands of daily clinical use.

WARRANTY 2 YEARS

DC-Air™ includes a 2 year warranty and expert imaging support.

1 Hellén-Halme, Kristina & Johansson, Curt & Nilsson, Mats. (2016). Comparison of the performance of intraoral X-ray sensors using objective image quality assessment. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology. 122. 10.1016/j.oooo.2016.08.014.

FTG

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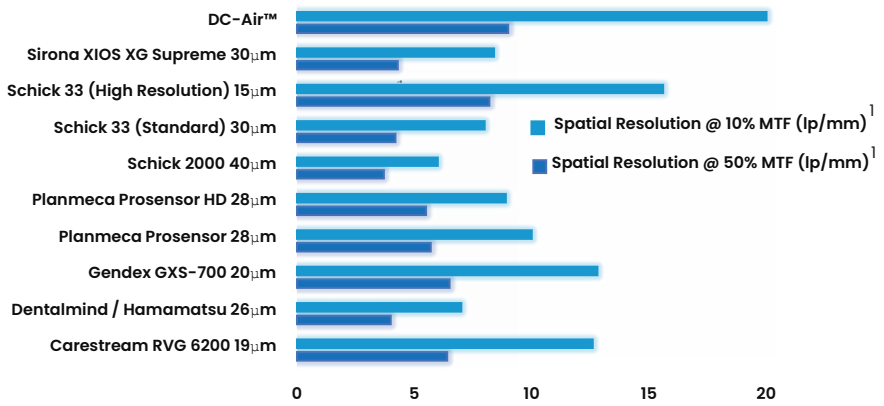
Next-generation x-ray technology means better diagnostic clarity.

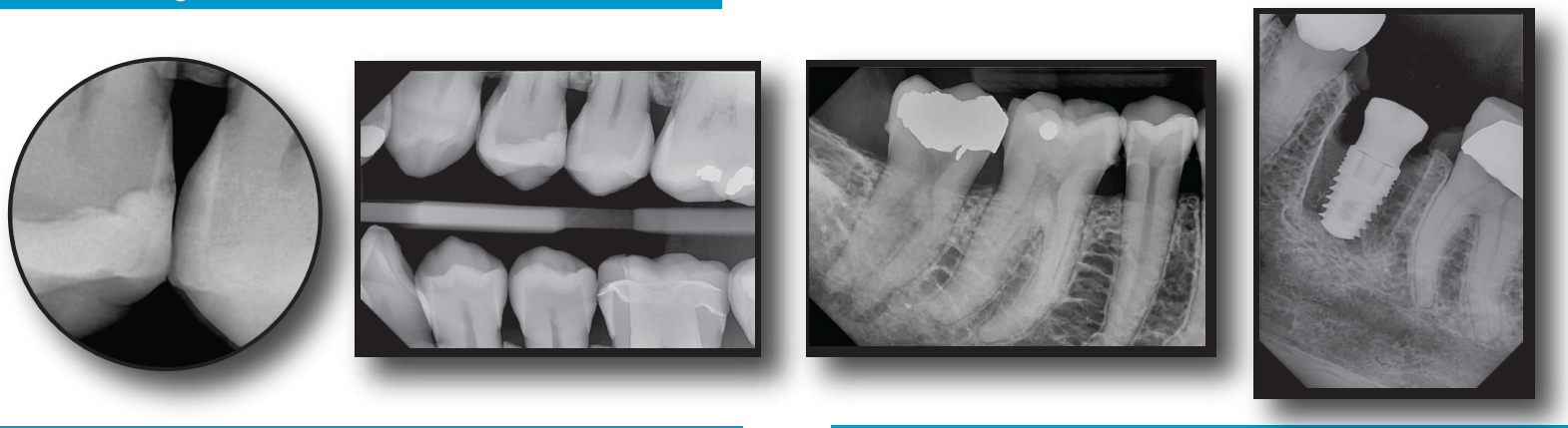
MTF: The Objective Value for Resolution

The modulation transfer function (MTF) is the spatial frequency response of an imaging system. It is the sharpness at a given spatial frequency.

MTF is the most useful measure of true resolution because it accounts for the amount of detail and contrast over a range of spatial frequencies. DC-Air™ achieves a superior MTF value over the full range of diagnostic spatial frequencies for distinctly brilliant image quality.



Clinical Images



Interfaces

Radio	Bluetooth® Low Energy
Wired	USB 2.0
Connector type (docking station)	USB-C
Cable type (Docking to PC)	USB-C to USB Type A

Technical Specifications

Detector: Single Crystal Direct Conversion Silicon/CMOS

Pixel physical size	26um
Exposure parameters	0.05-0.5s, 60-70kV
Active Area	35.1mm x 24.7mm
Pixel resolution	12 bits
Number of Pixels	1,249,920
MTF	>70% @ 5lp/mm, >40% @10lp/mm

Features

Sensor mode of operation	Global Shutter
Triggering	Automatic on X-Ray Start
Storage RAM	4 MB
Number of Images in RAM	1 Image
Range	up to 3m
X-Rays per Recharge Cycle (continuous use)	150+

Sensor Battery

Type	Lithium-Ion
Capacity	19mAH

Docking Station Power

Input Voltage	+5V ± 10%
Input Power (Max)	2.5W

Environmental

Ambient Operating Temperature	+50°F to +95°F
Transportation Temperature	-4°F to +122°F
Storage Long Term	32°F to +95°F
Humidity (non-condensing)	30% - 95%

Hardware Dimensions