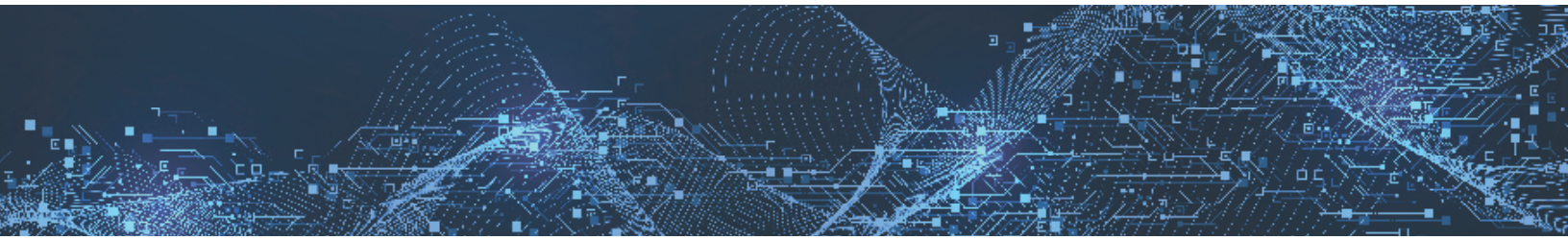
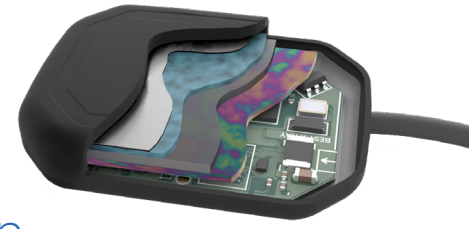
FAIRCHILD IMAGING
A HAMAMATSU Company





F3D

High Speed Intraoral Sensor
Low Dose X-Ray Exposure, Anatomical Design, Wide Dynamic Range, Low Noise

Image performance: The F3D combines the low dose x-ray feature with a wide dynamic range and 99% pixel linearity. These features enable safe image acquisition at 10 FPS for intraoral tomography.

This sensor provides 2.4 MP resolution via the 19.5 µm pixel with 16-bits of grey-scale data. Our multi-transitor pixel with patented low-noise technology provides crisp, clear images, displaying extreme detail for 3D subject analysis.

With several trigger, shutter and hig-speed modes, we enable a variety of use cases from single shot to programmed sequences.

Ease of use: The anatomically shaped F3D accommodates easy patient positioning. Packed into a 36mm x 26mm active area, this agile form factor uses USB connectivity for plug-and-play integration and high-performance imaging right where you need it.

Trusted excellence: Building upon decades of field proven designs, Fairchild Imaging provides highly reliable sensors for the rugged use in a clinical environment. F3D sensors are designed and manufactured in the United States of America. Contact your sales representative for more information.

KEY FEATURES

Image Performance	3D Tomography
2.4 MP resolution	High speed frame rate
19.5 µm pixel	Anatomical form factor
25.6 lp/mm MTF	Dual gain modes
99% pixel linearity	Multiple trigger modes
High signal to noise ratio	Wide x-ray exposure range
16-bit grey scale	USB plug and play
4 transistor pixel	Onboard storage for 30 images

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Ideal for capturing images in versatile environments

Specifications

Sensor

Detector	CMOS
Total resolut ion	2.4 MP
Active area dimension	36 mm x 25 mm
Active area pixels	1842 x 1306 pixels
Scintillator	Tunable FOP with CsI
Frame rate	10 fps
Digital output	16 bits
Data protocol	USB 2.0
Image processing	Onboard image storage
Operating systems	Windows, Mac

Pixel

Pixel size	19.5 µm x 19.5 µm
Shutter types	Rolling, Global Reset
Trigger	Auto-detect Software programmable
Programmable gain	LG: 1x | HG: 10x
Pixel linearity	99% in HG
LP/MM	25.6 lp/mm

Mechanical

USB cable	Factory replaceable
Waterproof	IPX8

(F3D, shown in actual size.)

For more information contact:
Fairchild Imaging, Inc.
1841 Zanker Rd., Ste. 50
San Jose, CA 95112 USA

T: 1-408-433-2500
E: sales@fcimg.com