



IT'S TIME FOR
PLUG & PLAY

U·SENSE



PRODUCT DATA
SHEET



U·SENSE

Intra-oral sensor
Internal use only

PRODUCT DATA

U·SENSE digital detector - size 1

External dimensions	43.2 x 30.8 x 5.2 mm / 1.7 x 1.2 x 0.2 in
CMOS matrix size 1 (rounded angles) Detector active surface in size	30 x 20 mm (600 mm ²) 1.2 x 0.8 in (1.0 in ²)
Detector active surface in pixel	1500 x 1000 pixels
Pixel dimensions	20 x 20 μm

U·SENSE digital detector - size 2

External dimensions	43.2 x 30.8 x 5.2 mm / 1.7 x 1.2 x 0.2 in
CMOS matrix size 2 (rounded angles) Detector active surface in size	34 x 26 mm (900 mm ²) 1.3 x 1.0 in (1.3 in ²)
Detector active surface in pixel	1700 x 1300 pixels
Pixel dimensions	20 x 20 μm

General specifications (digital detector size 1 and 2)

Sensor technology	CMOS
Scintillator	Gadox
Detector wire length	3 m / 9.9 feet
Grey levels	14 bits (16384 grey levels)
Connection	Standard USB port: USB 2.0 High Speed (480 Mbit/s) and USB 3.0
Nominal system consumption	0.5 VA
Entry voltage	5V (with USB connection)
Entry current	0.15 A max
Operating temperature	From +10°C to 40°C / from 50°F to 104°F
Maximum temperature	12°C (54°F) higher than maximum environmental temperature of 40°C (104°F)
Detector resolution	Theoretical: 25 lp/mm Real: 12 - 14 lp/mm
CTF - Contrast Transfer Function (at 70 kVp - 1,5 mm ABS filter)	0,08 @ 10 lp/mm
OUTPUT - LSB (at 70 kVp - 1,5 mm ABS filter)	1400 @ 100 μGy
CMOS lifetime	Typical 100.000 cycles



Imaging Software

Standard: AIS 3.3 - professional dental imaging software with 8-bit processing engine.
Optional: Dental Studio Plus - professional dental imaging software with 16-bit processing engine.
Please refer to Imaging Software Product Data for specific information.

Standards and Regulations

	Medi- cal Devices 93/42/EEC and its revised versions as a class IIa
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Note: Products are continuously under review in the light of technical advancement. The actual specification may therefore be subject to improvement or modification without notice

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