



DIGISENS HD

Intraoral Sensor
simplify your work



The exclusive intraoral sensor with CMOS technology



Specifications

Parameter	Unit	Size 1	Size 2
Sensor Type	-	CMOS Photodiode Array	
X-ray convertor	-	FOS (FOP + CsI)	
Dimensions (W x L x H)	mm	25.4 x 363 x 4,8	31.3 x 42.9 x 4,8
Weight	gr	Less than 100	
Pixel Size	µm	18	
Active Area	mm	20,00 x 30,01	25,95 x 37,96
Effective Area*	mm	19,80 x 29,80	25,77 x 37,78
Number of Active Pixels	pixels	1110 x 1666	1442 x 1998
Number of Effective Pixels	pixels	1100 x 1656	1432 x 1988
Data output	-	USB 2.0	
USB cable length	m	Less than 2.7	
Electrical rating		DC 5V. 500 mA	
Operation mode		Global shutter	
Protection against water		IP68	

* X-Ray sensitive area

Recommended operating conditions

Parameter	Unit	Size 1	Size 2
Operating temperature	°C	+10 to +30	
Operating humidity	%	30 to 80	
Storage temperature	°C	-20 to +60	
Storage humidity	%	10 to 80	

Minimum system requirements of PC

Operating System	Windows XP® SP3, Windows Vista (32/64 bit) SP2, Windows 7 (32/64 bit) SP1, Windows 8 , Windows 10
CPU	Intel
RAM Memory	1 GB (ideally 2 GB)
Hard drive	10 GB RAM
USB Port	2.0
Available space on HD	80 GB
Video card	1024x768 resolution in 65,000 colours (ideally 1280x1024 16 million colours, 32 bit)

Sensor performance specifications

Parameter	Unit	Size 1	Size 2
SNR	dB	≥ 35	≥ 35
Sensitivity ¹	ADU/µGy ²	5,0 to 8,0	5,0 to 8,0
Resolution ³	3lp/mm	≥ 50	≥ 50
	6lp/mm	≥ 25	≥ 25
	8lp/mm	≥ 15	≥ 15
Noise ⁴	ADU	≤ 2.0	≤ 2.0
A/D	Bits	12	12
Energy Range ⁵	kVp	60 ~ 70	60 ~ 70

1 Measured @ 60 kVp, 4mm Al filler

2 µGy is the unit of X-Ray exposure (1mR = 8.69 µGy)

3 Theoretical Spatial Resolution

4 RMS of dark current

5 Recommended Range, more than 70 kVp affects the sensor's life time

DIGISENS HD - Intraoral Sensor

The best CMOS technology with an ergonomic design able to adapt easily the anatomy of the oral cavity.

DIGISENS HD is an innovative, flexible, very resistant sensor able to produce high quality images.

DIGISENS HD is Immediately Operative

- Easy to install, handle and transport
- It produces high quality **28I/p** images in real time.
- Images can be stored in your PC, saving space and time.
- Our Imaging Software can easily manage images stored.

DIGISENS HD Advantages

Our Intraoral sensor produces perfect, high quality images with excellent resolution (**28I/p**) without the use of traditional films, no waiting and with very short exposure time. Images are directly sent to your screen.

Our **Imaging Software** is a dynamic and intuitive system. It guides the user through its practical content by rapidly highlighting its essential functions.

DIGISENS HD in 2 sizes

- Size 1 - Active area of 30 x 20 mm
- Size 2 - Active area of 38 x 26 mm



Size 1 - 30 x 20 mm



Size 2 - 38 x 26 mm



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