



*Visualize Quality®*

## **BIO-RAY HR Intraoral Digital X-Ray Sensor**

New "Bio-Ray HR" intraoral sensor  
with perfect (20 lp/mm) high resolution images.



Sigma Digital X-Ray presents the best of CMOS technology offering the Bio-Ray HR: an innovative sensor to obtain a better diagnosis with high quality images, saving both valuable time and space.

Two sizes

Water-resistant

Direct USB connection *(no USB connection box)*

The Bio-Ray HR is available in two sizes:

Size 1 with a sensitive (active) area of 32 x 22 mm (ideal for children and tight areas).

Size 2, with a sensitive (active) area of 36 x 27 mm: a larger surface area for standard examinations.



## Technical Data

Dimensions:	39 x 25 x 5.3 mm (size 1), 42 x 30 x 5.6 mm (size 2)
Active area:	32 x 22 mm (size 1), 36 x 27 mm (size 2)
Pixel size:	20 x 20 $\mu$ m
Number of Pixels:	1500 x 1000 (size 1), 1650 x 1250 (size 2)
Distance between pixels:	20 $\mu$ m
Spatial resolution:	20 lp/mm
Dynamic range:	58 dB
Scintillator type:	CsI
Connection to PC:	USB 2 (A type) cable 2 ft.
Supply voltage:	5 V DC
Maximum absorbed current:	275 mA
Frame rate:	0,7 fps
Dark current typical 23°C:	350 LSB/s
Saturation dose (70 kV):	340 $\mu$ Gy
Sensitivity:	15 LSM/ $\mu$ Gy
X-RAY response non uniformity (XRNU):	$\pm$ 30 %
Degree of Protection:	Equivalent to IP67
Temperature:	0 to 35°C