I-VIEW
I-VIEW 2
Intraoral Sensor

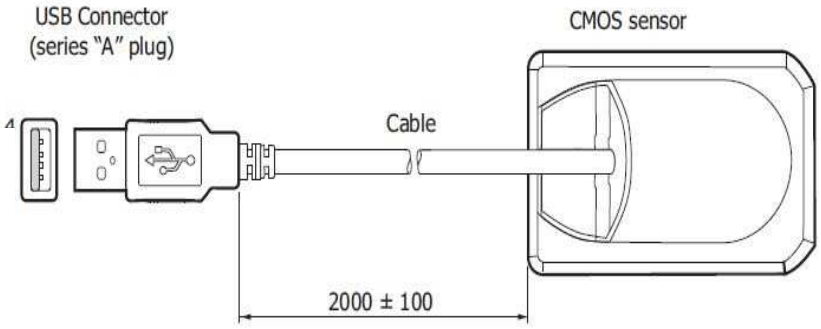
Technical Info

CE 0051

Date: 23/01/2018
Language: English
Rev: 2
Code: IT05-EN.r2-I-View Infotec

DESCRIPTION AND INTENDED USE

I-View is a digital intraoral sensor based on CMOS (Complementary Metal-oxide Semiconductor) technology. The sensor is an image receptor which captures images obtained through an X-Ray unit; I-View allows the user to obtain a small pixel size (20 µm), thereby ensures excellent spatial resolution. The sensor is composed by these parts:



I-VIEW is available in two sizes:

I-View size 1, 30 x 20 mm active area
I-View size 2, 33 x 25 mm active area

Code IS004 I-View intraoral sensor size 1
Code IS005 I-View intraoral sensor size2

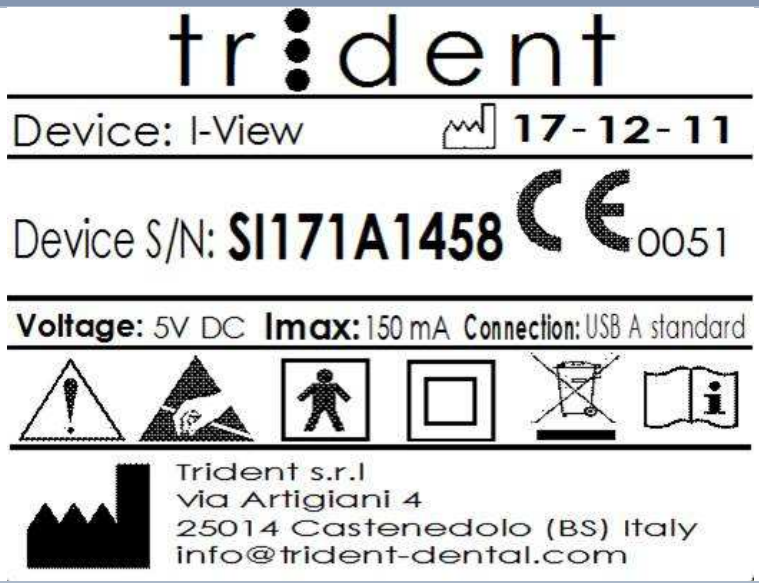
Key Features
Rounded off edges
Smooth casing
Outstanding cable flexibility,
Direct connection to personal computer for image acquisition via USB direct connector.
Cesium Iodide (CsI) scintillator layer
Available in two formats: standard size 1 and size 2
I-View works with Deep-View, the software to capture and manage images developed for Trident.

GENERAL CHARACTERISTICS

Unit name	I-View
Manufacturer	Trident Srl Via Artigiani 4, Castenedolo, 25014 (BS) Italy
Classification according to Directive EC 93/42	Class IIa with Type BF applied parts
Applicable Standards	EN 60601-1:2005 EN 60601-1-2:2007 IEC 60601-2-65:2012

TECHNICAL CHARACTERISTICS	
Degree of Protection	Equivalent to IP67
Sensitive (active) area	30 x 20 mm (size 1) 33 x 25 mm (size 2)
Dimensions	25 x 39 x h 5,3 (size 1) 30,5 x 42 x h 5,6 (size 2)
Number of Pixels	1500 x 1000 (size 1) 1650 x 1250 (size 2)
Pixel size	20 x 20 µm
Pixel shape	Square
Distance between pixels	20 µm
Spatial resolution	20 lp/mm typical (theoretical 25 lp/mm)
Scintillator type	CsI
Photodiode detectors	Positioned outside of sensitive area
Maximum absorb. dose	50 Gy
Electrical and Optical Specifications	
Supply voltage	5 V DC from USB
Connection to PC	USB 2 (A type) cable 2 mt
Maximum absorbed current	150 mA size 1, 155 mA size 2
Typical dark current @23°C	350 LSB/s
Saturation level pixel (@70 kV)	340 µGy
Dynamic Range	58 dB
Sensitivity	15 LSM/µGy
X-RAY response non uniformity (XRNU)	± 30 %
Total dose irradiation	50 Gy
Environmental Characteristics	
Operating temperature	0 / 35°C
Storage temperature	-20/+70°C
Sensor protection rating	Equivalent to IP67
Storage humidity	Less than 75% non-condensing
PC Specifications	
Operating System	Windows® 7 (32/64 bit) SP1, Windows® 8 64 bit, Windows® 10
CPU	Intel i5-2520M 2.5 GHz or superior
RAM Memory	4 GB or superior
Hard disk	500 GB
USB Port	2.0
Monitor	17” or superior
Video PCB	1024x768 resolution in 65,000 colours (ideally 1280x1024 - 16 million colours, 32 bit)

LABEL



PACKAGING

Box	W (Kg)	Size (cm)
	0.4Kg	18 x 13 x h3.5