



**KEREN HD™**  
INSTANT SOURCE FOR DENTAL IMAGING



Polaroid is proud to introduce its imaging product line the Keren HD intraoral sensor. Superior image quality is guaranteed via high-definition, a theoretical resolution of >25lp/mm associated to 14 bit grey levels. Accompanying software further lends itself to image perfection as a color gauge on the finished image allows you to determine your optimal x-ray parameters. Additionally, image modification through standard software for the Keren HD, enables you to refine images through contrast, brightness and gamma values to your preference. The Keren HD utilizes CMOS sensor technology with a fiber optic, scintillator, and shock absorption area that all together enable efficient, effective and long lasting solutions for your diagnostic needs.

Polaroid Software and Positioners come standard, Full Mouth Series (FMS) with Multi-shot and Bitewing features, CMOS sensor technology

Keren HD is available in Size 1 and Size 2 in order to detect all areas of the mouth of any size jaw from adult to Pediatrics. Whether you work primarily in endodontics, periodontics, prosthetic surgery / implants, or cavity diagnosis the Keren HD has you covered. It is easily integrated into the office with single or multiple station connectivity via the USB connection. Additionally the 3 meter cable length enables you to reach your capture device, effectively welcoming itself to any room layout. From brand new to vintage, existing equipment is not a problem as Keren HD works with your preferred or existing dental x-ray manufacturer. Patient comfort is a top priority with rounded corners and a slim design that grant superior handling and positioning within the mouth. Designed to be fully submersible within liquid to safeguard your preferred method of disinfection.

TECHNICAL DATA	KEREN	KEREN HD
External dimensions detector (length x width x thickness)	38,6 x 24,7 x 5,2 mm (#1) 1,6 x 1,0 x 0,2 in <sup>2</sup> (#1)	43,2 x 30,8 x 5,2 mm (#2) 1,7 x 1,2 x 0,2 in <sup>2</sup> (#2)
Active surface in size	30 x 20 mm (600 mm <sup>2</sup> ) (#1) 1,2 x 0,8 in (0,96 in <sup>2</sup> ) (#1)	34 x 26 mm (884 mm <sup>2</sup> ) (#2) 1,3 x 1,0 in (1,3 in <sup>2</sup> ) (#2)
Active surface in pixels	1500 x 1000 pixels (#1) - 1700 x 1300 pixels (#2)	
Theoretical detector resolution	25 lp/mm	25 lp/mm
Scintillator Technology	Gadox	Caesium Iodide (CsI)
CTF - Contrast Transfer Function (at 70 kVp - 1,5 mm ABS filter)	8 · 10 <sup>-2</sup> @ 10 lp/mm spatial frequency	25 · 10 <sup>-2</sup> @ 10 lp/mm spatial frequency
Output - LSB AT 70 KVP - 1,5 mm ABS filter)	1300 @ 100 μ Gy	1900 @ 100 μ Gy
USB cable length	3 m	3 m
Gray levels	14 bits (16384 gray levels)	
Connection	Standard USB: USB 2.0 High Speed (480Mbps/s) and USB 3.0	

**CMOS** CMOS sensor technology, for an excellent price-performance ratio

**HD** High image definition, granted by the theoretical resolution of 25 lp/mm

**USB connection**, making it an immediate tool for instantaneous diagnosis

**Direct connection to computer**, to make life easier to users and patients

**Rounded corners**, as patient's comfort is the key for a precise diagnosis

**Disinfectable by immersion**, in order to preserve the safety of the patient

**"Multi-layer technology"**, with fiber optic+ scintillator + shock absorption area

**2 sizes available**, to meet a complete range of application needs

**For all generations**, from the newest intraoral units to the previous generation ones



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