u.sense HD



CLARITY MADE SIMPLE

acteon

u.sense HD

Because precision should be accessible to all

As a global leader in dental imaging, ACTEON® has been designing and manufacturing advanced diagnostic solutions for over 30 years.

Trusted by thousands of practitioners around the world, we bring our expertise and innovation to every product we create, from high-end to essential devices.

Our latest U-SENSE HD has been thoughtfully engineered to focus on what truly matters: delivering sharp, high-contrast images and reliable daily performance at a level of accessibility that fits every practice.

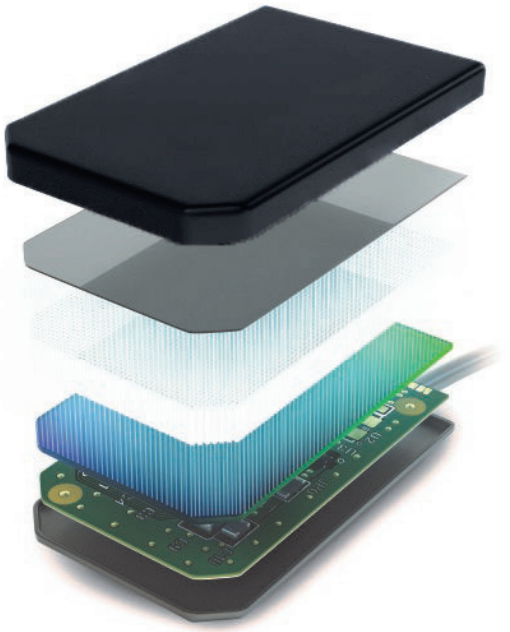

u.sense HD

Reveal the unseen

U-SENSE HD powered by **CORE** (Contrast Optimization & Range Equalization) offers a wide dynamic range and excellent adaptability to different types of X-ray generators. It ensures consistently sharp, high-contrast images across varied system configurations—facilitating smooth integration into diverse clinical workflows.



Technology at the Core



The U-SENSE HD sensor combines advanced components to deliver performance for practitioners and patients.

IMAGE QUALITY

With 27 lp/mm, U-SENSE HD sensors deliver detailed, high-contrast images that support precise intraoral diagnostics and clinical decision-making.

DURABILITY AND RELIABILITY

All components of the U-SENSE HD are engineered for long-term performance. The fiber optic plate, for example, enhances light transmission while protecting the sensor from radiation, helping maintain consistent image quality over time.

PATIENT SAFETY

Precise image capture from the first exposure limits unnecessary radiation. In addition, rounded corners improve comfort during placement.

The Right Fit, Every Time

U-SENSE HD was designed to adapt — to every patient, every clinical situation, and every workflow.

Its ergonomic shape, lightweight design, and rounded edges ensure easy positioning and greater patient comfort, even in sensitive areas.

With three available sizes — including a new 1.5 format — U-Sense offers the right fit for both pediatric and adult indications, making daily use simpler and more intuitive.







The new U-SENSE HD range

A smart, accessible solution built on proven expertise and everyday performance.

Resolution: > 27lp/mm

u.sense HD

Size 1
27.4 x 38 mm
W1300003

NEW

Size 1,5
29.4 x 41 mm
W1300005

Size 2
31.6 x 43 mm
W1300004



Simplicity at every step

From installation to diagnosis, U-SENSE HD is designed to integrate effortlessly into your daily workflow.

With its USB 2.0 direct connection, U-SENSE HD is instantly ready to use — just plug it in and start capturing high-definition images within seconds.

Whether you’re upgrading your equipment or setting up a new operatory, installation is fast and effortless.

Thanks to TWAIN compatibility, U-SENSE HD integrates smoothly with most dental imaging software on the market.



Powered by Acteon® Imaging Suite

AIS® is your all-in-one imaging software solution, built to help you visualize, interpret, and share diagnostic data with confidence.

With intuitive tools for image enhancement, annotation, and reporting, AIS® helps you build a complete clinical picture — from first scan to treatment plan.

Boost patient understanding and treatment acceptance with ready-to-use reports, and streamline your workflow with full integration across ACTEON® imaging devices.



acteon imaging suite

An environment open to your needs

One platform to connect all your devices

Connection with a wide variety of PMS, to enhance the efficiency of your workflow

Import/output data within your clinic and also for your external partners and collaborators

Technical specifications

SENSORS SPECIFICATIONS			
	U-SENSE HD Size 1	**U-SENSE HD Size 1.5**	**U-SENSE HD Size 2**
Sensor type	CMOS APS		
Pixel size	18.5 x 18.5 µm		
Model type	HD		
Scintillator	CsI HL		
Sensor thickness	6 mm		
Overall size	27.4 x 38 mm	29.4 x 41 mm	31.6 x 43 mm
Active area	22.5 x 30.0 mm²	24.0 x 32.8 mm²	26.0 x 35.0mm²
Image Pixels size	1200 x 1600	1296 x 1772	1402 x 1888
Theoretical Resolution	27 Lp/mm		
Spacial resolution	≥14 Lp/mm		
Image uniformity	≤10%		
Low Contrast Resolution	CORE Technology		
Voltage (via USB interface)	5.0 V		
Current (via USB interface)	≤500 mA		
Signal Interface	USB 2.0 type A		
Sensor cable length	2.0 m		
Waterproof	IP68		



COMPUTER REQUIREMENTS		
	For image acquisition	**For image review**
Operating system	**WINDOWS 10/11 (64BITS)**	**WINDOWS 10/11 (64BITS)**
Processor	Intel® Core i5 4 core 2GHz Gen 8 or greater	Intel® Core i5 4 core 2GHz Gen 8
RAM	8GB	
Hard disk	250GB	
USB port	USB2.0 Hi-Speed or greater	
Graphic card	Intel® GPU or higher	Intel® GPU or higher
USB Chipset	Intel or NEC® / RENESAS®	Intel or NEC® / RENESAS®
Resolution	1920 x 1080	



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