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IT'S TIME FOR PLUG & PLAY

U·SENSE



EN

ACTEON

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TECHNICAL SPECIFICATIONS

U·SENSE

SIZE 1

- External dimensions..... 38.6 x 24.7 x 5.2 mm / 1.6 x 1.0 x 0.2 in
- CMOS matrix size 1 (rounded angles)..... 30x20 mm (600 mm²)
- Detector active surface in size ..... 1.2x0.8 in (1.0 in²)
- Detector active surface in pixel ..... 1500 x 1000 pixels
- Pixel dimensions..... 20x20 µm

SIZE 2

- External dimensions..... 43.2 x 30.8 x 5.2 mm / 1.7 x 1.2 x 0.2 in
- CMOS matrix size 2 (rounded angles)..... 34x26 mm (900 mm²)
- Detector active surface in size ..... 1.3x1.0 in (1.3 in²)
- Detector active surface in pixel ..... 1700 x 1300 pixels
- Pixel dimensions..... 20x20 µm

GENERAL SPECIFICATIONS (U-SENSE SIZE 1 AND 2)

- Sensor technology..... CMOS
- Scintillator..... Gadox
- Detector wire length ..... 3 m / 9.9 feet
- Grey levels ..... 14 bits (16384 grey levels)
- Connection ..... Standard USB port: USB 2.0 High Speed (480 Mbit/s) and USB 3.0
- Nominal system consumption ..... 0.5 VA
- Entry voltage ..... 5V (with USB connection)
- Entry current ..... 0.15 A max
- Operating temperature ..... From +10°C to 40°C / from 50°F to 104°F
- Maximum temperature ..... 12°C (54°F) higher than maximum environmental temperature of 40°C (104°F)
- Detector resolution ..... Theoretical: 25 lp/mm
  ..... Real: 12 - 14 lp/mm
- CTF – Contrast Transfer Function (at 70 kVp - 1,5 mm ABS filter)..... 0,08 @ 10 lp/mm
- OUTPUT - LSB (at 70 kVp - 1,5 mm ABS filter) ..... 1400 @ 100 µGy
- CMOS lifetime ..... Typical 100.000 cycles

U·SENSE HD

SIZE 1

- External dimensions..... 38.6 x 24.7 x 5.2 mm / 1.6 x 1.0 x 0.2 in
- CMOS matrix size 1 (rounded angles)..... 30 x 20 mm (600 mm²)
- Detector active surface in size ..... 1.2 x 0.8 in (1.0 in²)
- Detector active surface in pixel ..... 1500 x 1000 pixels
- Pixel dimensions..... 20 x 20 µm

SIZE 2

- External dimensions..... 43.2 x 30.8 x 5.2 mm / 1.7 x 1.2 x 0.2 in
- CMOS matrix size 2 (rounded angles)..... 34 x 26 mm (900 mm²)
- Detector active surface in size ..... 1.3 x 1.0 in (1.3 in²)
- Detector active surface in pixel ..... 1700 x 1300 pixels
- Pixel dimensions..... 20 x 20 µm

GENERAL SPECIFICATIONS (U-SENSE HD SIZE 1 AND 2)

- Sensor technology..... CMOS
- Scintillator..... Caesium Iodide (CsI)
- Detector wire length ..... 3 m / 9.9 feet
- Grey levels ..... 14 bits (16384 grey levels)
- Connection ..... Standard USB port: USB 2.0 High Speed (480 Mbit/s) and USB 3.0
- Nominal system consumption ..... 0.5 VA
- Entry voltage ..... 5V (with USB connection)
- Entry current ..... 0.15 A max
- Operating temperature ..... From +10°C to 40°C / from 50°F to 104°F
- Maximum temperature ..... 12°C (54°F) higher than maximum environmental temperature of 40°C (104°F)
- Detector resolution ..... Theoretical: 25 lp/mm
  ..... Real: 18 - 20 lp/mm
- CTF – Contrast Transfer Function (at 70 kVp - 1,5 mm ABS filter)..... 0,25 @ 10 lp/mm
- OUTPUT - LSB (at 70 kVp - 1,5 mm ABS filter) ..... 1900 @ 100 µGy
- CMOS lifetime ..... Typical 100.000 cycles

U-SENSE and U-SENSE HD are manufactured by de Götzen s.r.l and distributed by Acteon Group. The medical devices U-SENSE and U-SENSE HD are class IIa equipment within the meaning of the European Directive 93/42/CEE concerning CE markings. The devices are CE marked by the Notified body: IMQ – CE 0051. These medical devices for dental care are reserved for healthcare personnel; its are not covered by health insurance providers.

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STRIKING CONTRAST FOR RELIABLE DIAGNOSIS

2 FIBER PIXEL

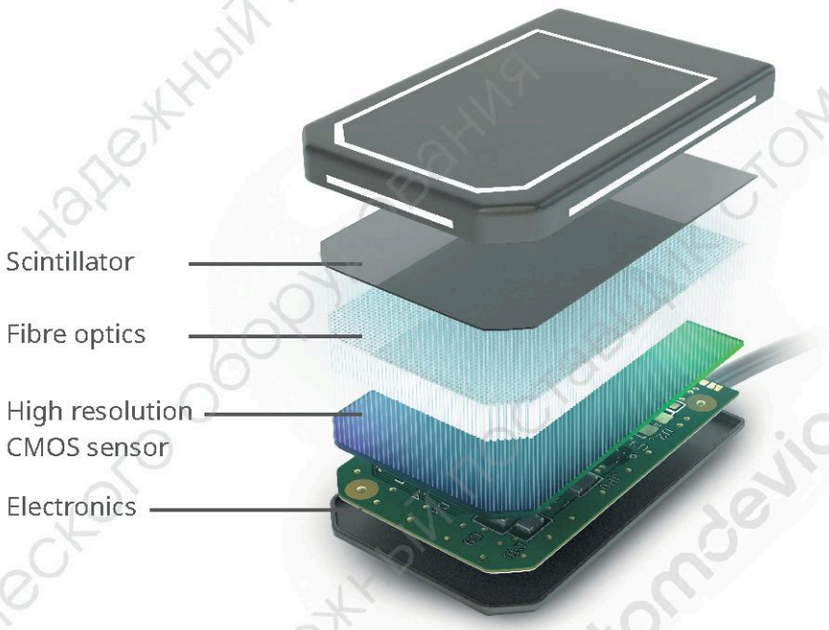
The optical microfiber guided transmission of photons is the core of U-SENSE and U-SENSE HD multi-layer technology, always providing low noise and high contrast images.



WITHOUT FIBRE



WITH FIBRE



Displaying the region of interest with outstanding sharpness is matter of seconds

MAKE PROCEDURES COMFORTABLE

U-SENSE and U-SENSE HD 's rounded corners are designed to improve patient's comfort, a key component for ensuring accuracy in diagnostic imaging.



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HIGH-QUALITY IMAGES FOR ANY CLINICAL NEED

25
lp / mm

U-SENSE and U-SENSEHD come in two different sizes. The active area of 200x300 mm corresponding to the size 1 it's suitable for pedodontics, periapical and endodontics images, while the 260x340 mm of the size 2 are ideal for occlusal and bitewing examinations. With its resolution of 25 lp / mm the HD version further provide high quality images ensuring accuracy and reliability in diagnostics.

1 

2 

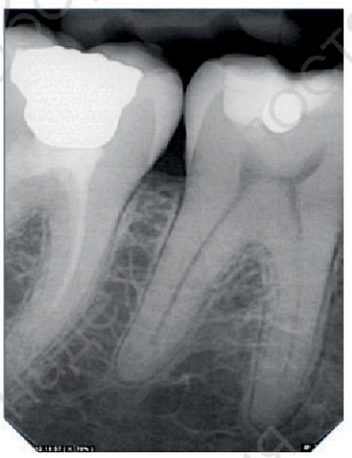
Scale 1:1

BITEWING



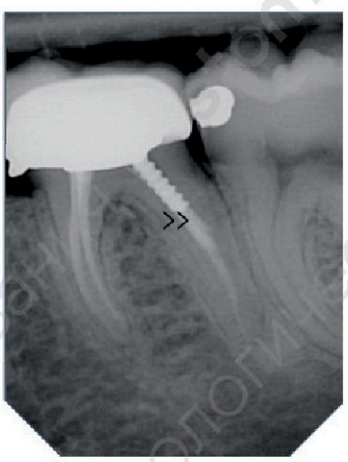
Visualize the crowns of the (posterior) teeth and the height of the crestal margin in relation to the cementoenamel junction to evaluate the periodontal tissue.

PERIAPICAL



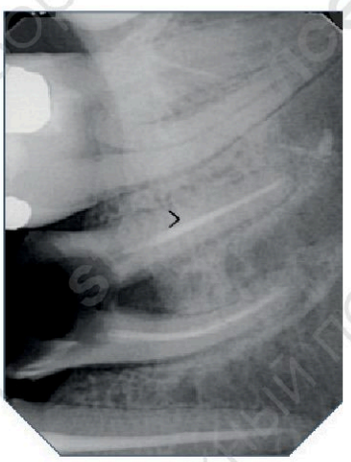
Anterior and posterior teeth from crown to root.

ENDODONTIC



Intraoral examination taken during the canal treatment on a patient.

POSTERIOR



Intraoral examination similar to periapical, but taken only in the region of the molars and with closed mouth.

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QUICK AND DIRECT USE

DIRECT USB CONNECTED

U-SENSE & U-SENSE HD are direct USB connected thus ensuring high usability in your daily workflow.

The 3 meters cable length make its adaptable to any type of dental office. The shock absorption area integrated in the multi-layer structure of the sensor provides reliability and strong durability.



** Available only on U-SENSE HD*

EXCEL IN YOUR ANALYSIS IN RECORD TIME

WITH THE POWERFUL AND HIGH-PRECISION SOFTWARE

AIS



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EXPLOIT TO THE FULL THE POTENTIAL OF U-SENSE & U-SENSE HD

2FIBER PIXEL

The Fiber2Pixel technology gives striking contrast, allowing a better differentiation of the dental tissues.

HD

25 lp/mm high resolution for accurate and reliable diagnosis

3 SECONDS

3 seconds acquisition time, benefit from instant display

Direct USB connection to ensure easy handling and usability

2 sizes available to match different patient's sizes and fulfil your clinical needs



ACTEON SERVICE & YOU!

"Clinical trainers" are available to show you the clinical aspects and patient benefits of ACTEON® products and train you on how to use them.

Free, ongoing and unlimited service can be reached Monday to Friday, from 09:00 to 18:00.

ACTEON® can also analyse and troubleshoot remotely, and specalist technicians can provide on-site service as quickly as possible.

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