I AM CONFIDENT

SOPIX²

SOPIX SERIES

A successful X-ray every time with minimal exposure to radiation

Ace
technology

ACTEON

STRIKING CONTRAST
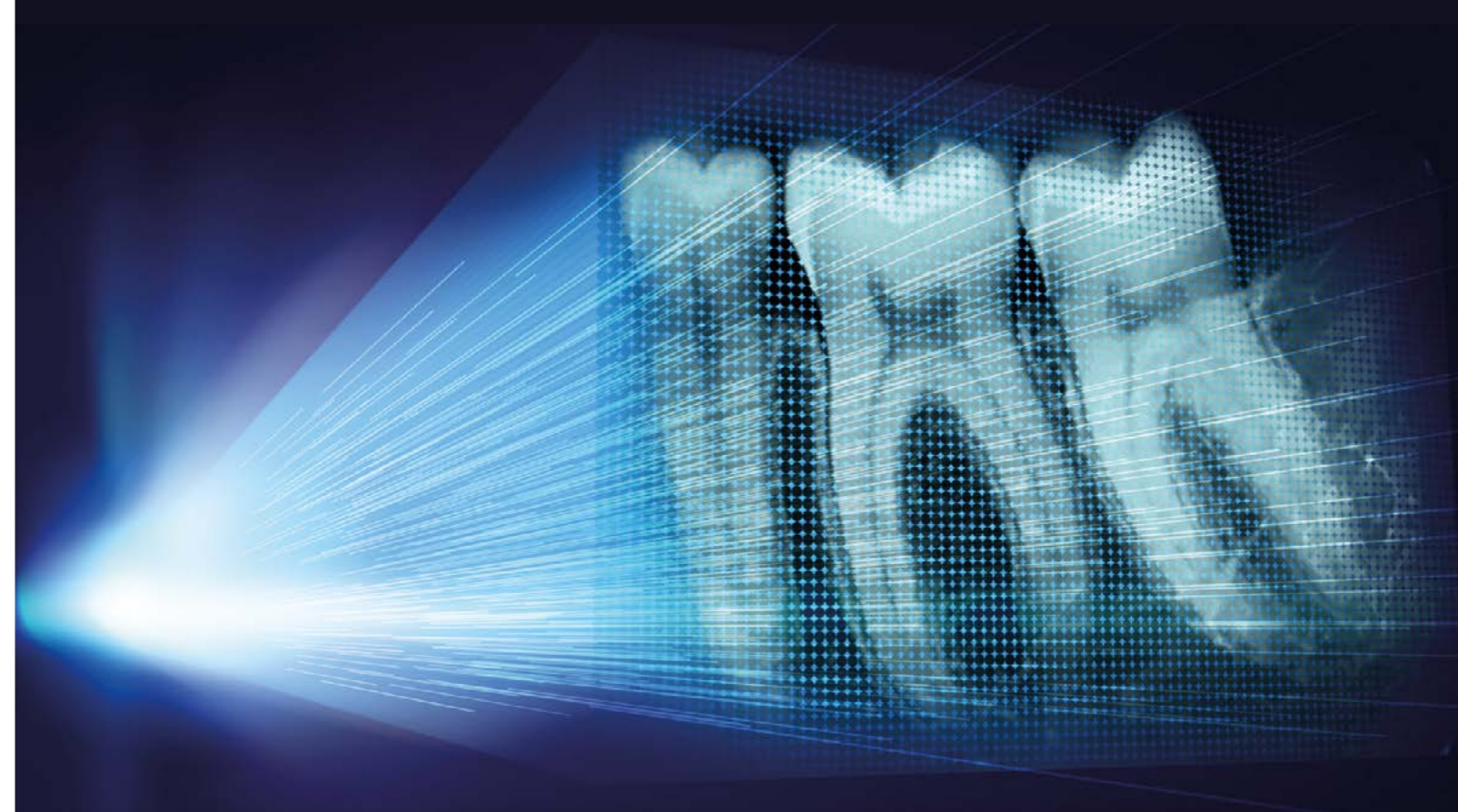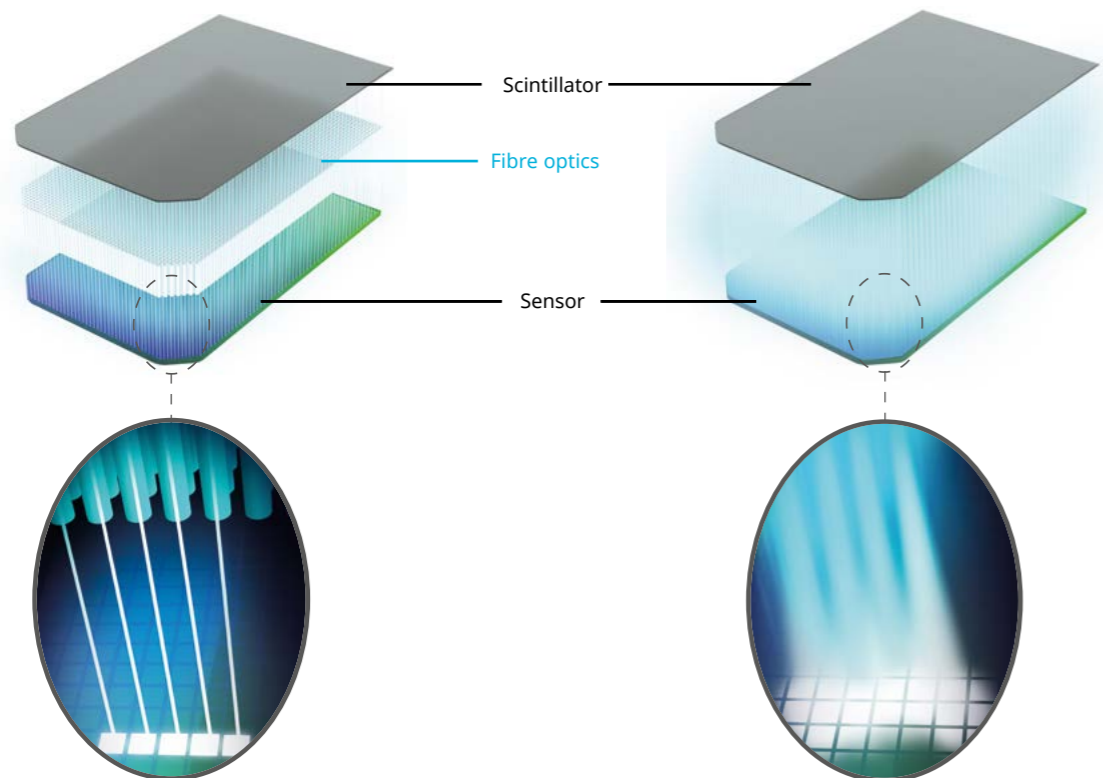# FOR A MORE
RELIABLE DIAGNOSIS
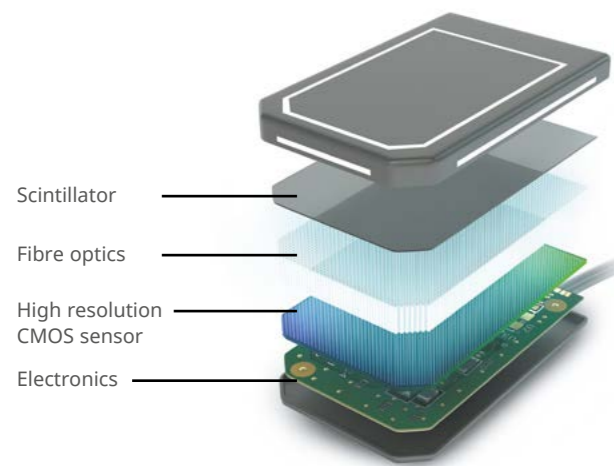
MORE INVENTIVE

Better differentiation of the dental tissue

SOPIX® sensors surpass the limits of radiological examinations by offering **greater differentiation of dental tissue.**

This technological achievement is called **FIBER2PIXEL®**.

Scintillator

Fibre optics

High resolution CMOS sensor

Electronics

2FIBER PIXEL

Differentiation of the dental tissue

FIBER2PIXEL® technology is based on the use of **broad spectrum optical microfibres** for the guided transmission of photon emissions in order to provide **highly contrasted images.**

WITH FIBRE - FIBER2PIXEL®

Scintillator

Fibre optics

Sensor

WITHOUT FIBRE

LESS INVASIVE

A more reliable diagnosis

The different tooth anatomic structures, such as the bone, roots, pulp... are highlighted with **extreme precision** on the image.

Your diagnosis is **faster** and **more accurate**!

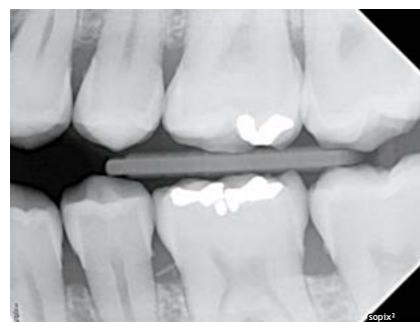# THE PERFECT FIT TO YOUR CLINICAL APPLICATIONS

Endodontics

Pedodontics

Cariology

Periodontics

Periapical

Bitewing

Implantology
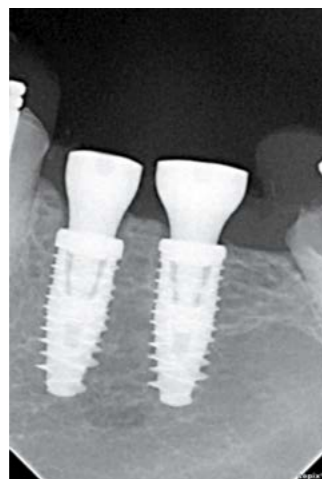
HIGH-QUALITY IMAGES

With **FIBER2PIXEL**® technology, SOPIX® sensors provide **accurate images** and **striking contrast** to ensure a **reliable diagnosis**.

DESIGNED
FOR YOUR PRACTICE

Two sizes are available depending on **patient morphology** and **clinical applications.**

Scale 1

SOPIX²

Size 2

Size 1

ACTEON IMAGING SUITE

THE NEW GENERATION OF IMAGING SOFTWARE

Extremely user-friendly, ACTEON Imaging Suite software offers **advanced X-ray image processing tools**.

ACTEON Imaging Suite is delivered with each SOPIX and is compatible Windows® and Mac®.

A QUALITY IMAGE EVERYTIME WITH MINIMAL EXPOSURE TO RADIATION

CUTTING EDGE TECHNOLOGY

Available in all SOPIX® series sensors, patented Ace technology (Automatic control exposure) analyses in real-time, the amount of X-rays accumulated by the sensor.
It automatically freezes the image acquisition as soon as the sensor receives the radiation required to produce the perfect image.

Eliminate the risk of over exposing the image!

Combined with the X-Mind® unity intraoral X-ray generator, SOPIX inside with ACE technology **limits the emission of x-rays** during the acquisition to the necessary amount for the patient's morphology.
It uses the **minimum dose** required to provide a high-quality image.

R&D Project Manager
HW/Embedded SW Systems
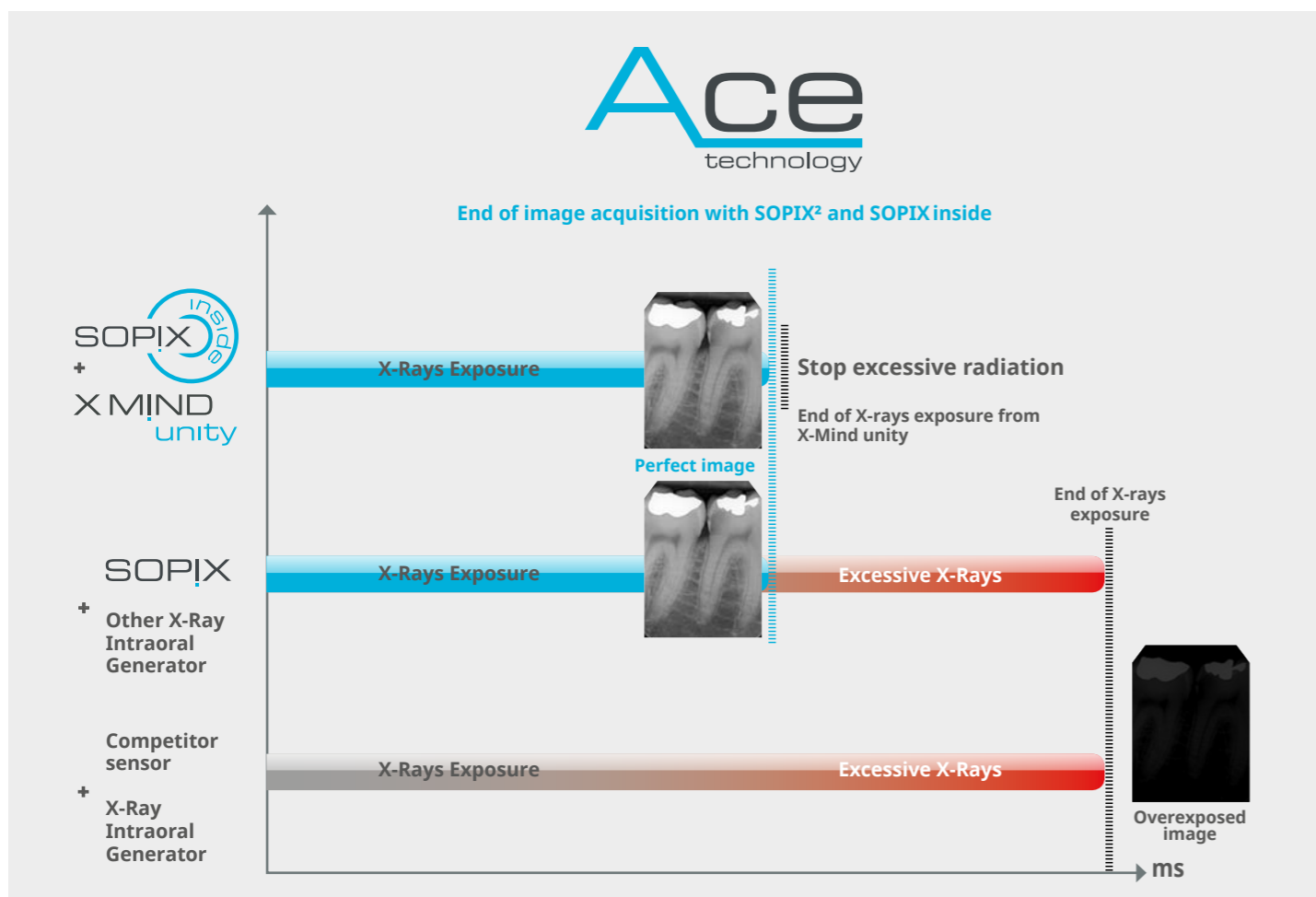
"ACE is the combination of advanced sensor technology, digital power electronics and the know-how of two diagnostic imaging divisions. The synergy between La Ciotat (FRANCE) and Milan (ITALY) R&D teams gave birth to an innovative concept focused on patients, with outstanding image quality."

Ace technology

End of image acquisition with SOPIX² and SOPIX inside

SOPIX inside + X MIND unity

X-Rays Exposure

Stop excessive radiation

End of X-rays exposure from X-Mind unity

Perfect image

SOPIX + Other X-Ray Intraoral Generator

X-Rays Exposure — Excessive X-Rays

End of X-rays exposure

Competitor sensor + X-Ray Intraoral Generator

X-Rays Exposure — Excessive X-Rays

Overexposed image

ms

FOR A SAFER PROCESS

With SOPIX Series sensors and its patented ACE technology, you acquire **successful X-rays every time**, meaning reliable and accurate diagnosis. You **save time** avoiding the need for retakes.

Whilst using X-Mind unity intraoral X-ray generator with SOPIX inside, the patients **receive the minimum required dose for their dental morphology**. You protect your patients and your staff from unnecessary radiation.

ACTEON Imaging Suite, always one step ahead
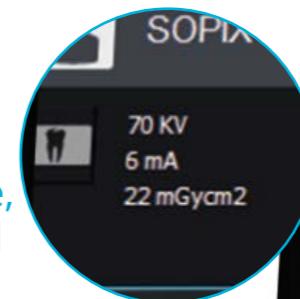
ACTEON Imaging Suite systematically records the **X-Mind unity settings** as well as the **effective dose received by the patient** for each acquisition.

This ensures **permanent traceability** for every patient.

STOP
EXCESSIVE
RADIATION

The communication between the X-Mind unity and SOPIX inside sensor provides **unique benefits**.

When SOPIX inside has received enough energy to provide an **exceptional image quality**, it tells the X-Mind unity to **stop the X-ray emission**.

EXCLUSIVE
TRACEABILITY

Outstanding working comfort

Through direct integration of SOPIX inside into X-Mind unity, **connecting cables are hidden** inside the X-ray unit.

The holder places the sensor **safely at easy reach** to prevent it from falling onto the floor.

Your working environment is therefore **more ergonomic and productive**.

LOW DOSE

Effective protection for minimal exposure

The patient only receives the necessary dose adapted for their dental morphology, which **protects them from unnecessary exposure**.

SOPIX
70 KV
6 mA
22 mGycm2

OUTSTANDING PERFORMANCE

SMART DESIGN
FOR BETTER COMFORT

White side stripes ensure high visibility of the sensor in the dark area of the mouth, to correctly position the X-ray tube perpendicular to the sensor.

Rounded edges and corners for improved **patient comfort**.

FAST AND EASY TO USE

Save time with a sensor that is **always ready to acquire**.
The image is **displayed immediately**.

NO MORE OVEREXPOSED IMAGES

Available on all SOPIX series sensors,
ACE technology freezes the image during acquisition to protect it from over-exposure.

Acquire perfect image the first time and every time!

Ace
technology

THE SOPIX SERIES

SOPIX

With proven quality and reliability, SOPIX produces a high quality image at an affordable price.

The most economic solution of the SOPIX series

SOPIX²

This sensor provides an exceptional image quality, using the most advanced technology.

The solution for optimal performance

SOPIX inside / SOPIX² inside

This sensor is directly integrated into the X-Mind unity intraoral X-ray generator, resulting in a reduction of X-ray emissions.

The patient's well being is the highest priority

TECHNICAL SPECIFICATIONS

Size 1

External dimensions... 25 x 39mm
Active surface area ....600mm2 (20 x 30mm)
Number of pixels 1.50million

Size 2

External dimensions..31 x 42mm
Active surface area .... 884mm2 (26 x 34mm)
Number of pixels 2.21millions

SOPIX / SOPIX inside system

Technology ....CMOS + scintillator+ optic fibre
Pixel size...20µm x 20µm
Theoretical resolution 25lp/mm
Real resolution ....>12lp/mm
Supplied imaging software.........ACTEON Imaging Suite
TWAIN module ....Yes

SOPIX^2 / SOPIX^2 inside system

Technology .... CMOS + scintillator + optic fibre
Pixel size... 20µm x 20µm
Theoretical resolution 25lp/mm
Real resolution .... >18lp/mm
Supplied imaging software......... ACTEON Imaging Suite
TWAIN module .... Yes

SOPIX / SOPIX^2 USB connection

Connection.. USB 2.0
Total cable length 3.70m

SOPIX inside / SOPIX^2 inside USB connection

Connection..USB 2.0
Sensor cable length 0.70m

Windows® minimum configuration required

Operating system..Windows® 7

Processor .... Quadcore 2.6 Ghz

RAM ....4 GB

Hard disk...300 GB

USB ports .... 2 USB 2.0 Hi-Speed ports

Graphic card...OpenGL 2.1 or better
                        alternatively DirectX 9 or 11 Graphics Device
USB Chipset .... Intel® or NEC® / RENESAS®

Screen resolution... 1600 x 1024

Ethernet board....................................... 100 Mbps - 1 Gbps

Windows® recommended configuration

Operating system .... Windows® 10

Processor:...Quadcore 2.6 Ghz

Ram:...8 GB

Hard disk...1 TB

USB ports..4 USB2 Hi-Speed ports

Graphic card..........................Dedicated graphics card with
                                                                    a t least 1 GiB memory
USB Chipset.................................Intel® or NEC® / RENESAS®

Screen resolution...........1920 x 1080 for optimal planning
                                                                                            or better

Ethernet board..1 Gbps

Mac® minimum configuration required

Computer.....................MacBook® Pro 13.3" or iMac® 21.5"

Operating system .... 10.12 Sierra

Processor ....Quadcore 2.6 Ghz

RAM ....4 GB

Ethernet board... 1 Gbps

Mac® recommended configuration

Computer..iMac® 27"

Operating system ....10.14 Mojave

Processor ....Quadcore 2.6 Ghz

RAM ....8 GB

Ethernet board.. 1 Gbps

For Yosemite and El Capitan operating systems, a Mac computer from 2013 or later is required.

Note: In the case of SOPIX inside and SOPIX² inside, the IEC 60601-2-65 norm requires for each X-Ray intraoral system with an onboard digital sensor to use a square collimator.

WINDOWS®
COMPATIBLE

Mac

NOTES

NOTES

www.acteongroup.com

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