

The logo features the word "EOS" in a large, orange, stylized font. To its right, the word "edge" is written in a smaller, white, sans-serif font, with a thin white diagonal line separating the two words.

EOS edge

PRODUCT GUIDE

The logo features the word "EOS" in a large, orange, stylized font. Below it, the word "imaging" is written in a smaller, orange, sans-serif font. At the bottom, the text "AN aotec COMPANY" is written in a very small, white, sans-serif font.

EOS
imaging
AN aotec COMPANY

Enhancing Clinical Insights **for Orthopedics Care by** **Taking a Revolutionary** **Approach to Imaging**

EOSedge™ captures simultaneous, full-body frontal and lateral images of the patient in a functional position – enabling a true, global assessment of all alignment factors.

With its best-in-class technology, EOSedge uses standardized imaging to quickly deliver accurate information throughout the patient's care pathway and improve the predictability of surgical outcomes.



THE INDUSTRY HAS FAILED TO PROVIDE A STANDARD THAT BETTER INFORMS CLINICAL DECISIONS

Due to the limited detector size, conventional X-ray systems cannot assess the complete skeletal system in one scan; the x-ray cone shape beam is divergent, creating distortion and measurements errors.



Narrow field view

14 x 14 Inch
(35 x 35 cm) panels
Stitching



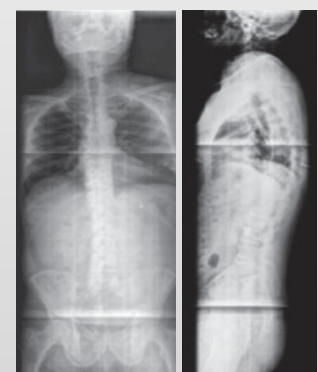
Low image quality

Over/under penetration
High Dose



Measurement errors

Magnification
Distortion



**Sequential frontal
and lateral acquisition**

Uncalibrated images
Time consuming workflow



Introducing EOS^{edge}

FULL BODY IMAGES FOR GLOBAL ASSESSMENT

- Largest acquisition zone*
- Functional imaging protocols: standing, sitting, bending, flexion / extension
- No stitching

FAST BIPLANAR ACQUISITION

- Frontal and lateral images acquired simultaneously
- Efficient workflows
- High patient throughput

6.2 ft (190 cm)



20 in (51 cm)

ACCURATE MEASUREMENTS

- Calibrated images through continuous vertical scanning
- 1:1 scale images, no magnification

HIGH RESOLUTION IMAGES WITH HOMOGENOUS CONTRAST

- Unique image resolution supporting diagnostic capabilities
- Minimal dose exposure to the patient

* For general X-ray medical device in weight bearing position

Maximize clinical value and productivity

EOSedge enables image acquisition in functional positioning (standing / sitting / bending / flexion / extension) through customizable and reproducible protocols tailored to each of your orthopedic and radiological needs.

PATIENT-CENTERED DESIGN

- Open cabin design allowing to capture full body images safely, quickly and comfortably
- Largest acquisition zone
- Accessible design enabling easy entry and positioning for children, elders, and other patients

ADULT SPINE



Global Assessment



Dynamic Flexion & Extension

HIGH PATIENT THROUGHPUT

- Exam time < 4 minutes for standard BMI patients
- Full-body images in less than 15 seconds on average for adults
- Full-spine images in less than 3 seconds on average for children



Patient enters room

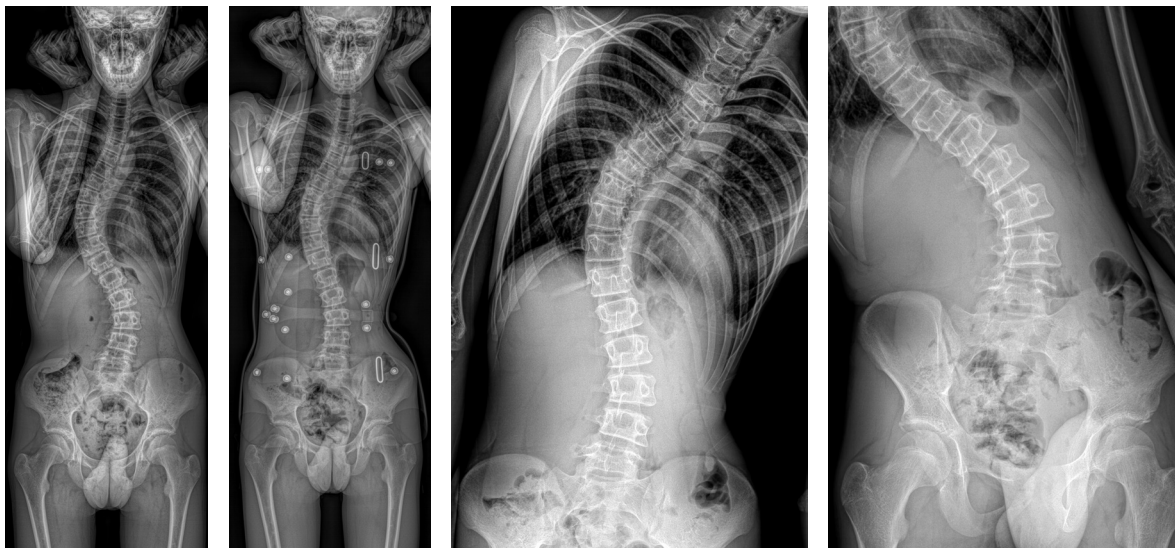


Patient enters cabin



EOSedge platform rises

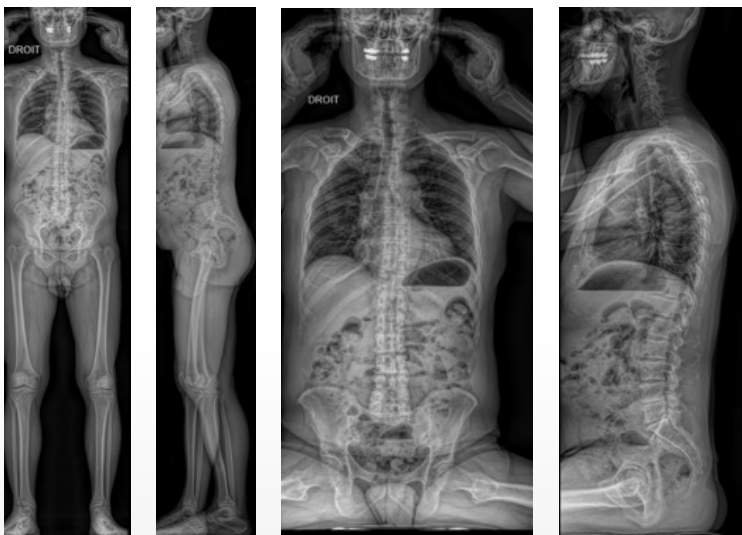
PEDIATRIC SPINE



Standing

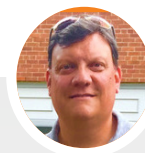
Dynamic Bending

ADULT TOTAL HIP ARTHROPLASTY



Standing Pre-Op THA

Sitting Pre-Op THA



“Providers are in need of more valuable weight-bearing radiographic images, and the EOS^{edge} system delivers high resolution, artifact free images in an exceedingly effective way, by reducing patient exam times and actually increasing department capacity.”

CHRISTOPHER SMITH

*Regional Vice President, Operations
Radiology Partners*



Patient positioning



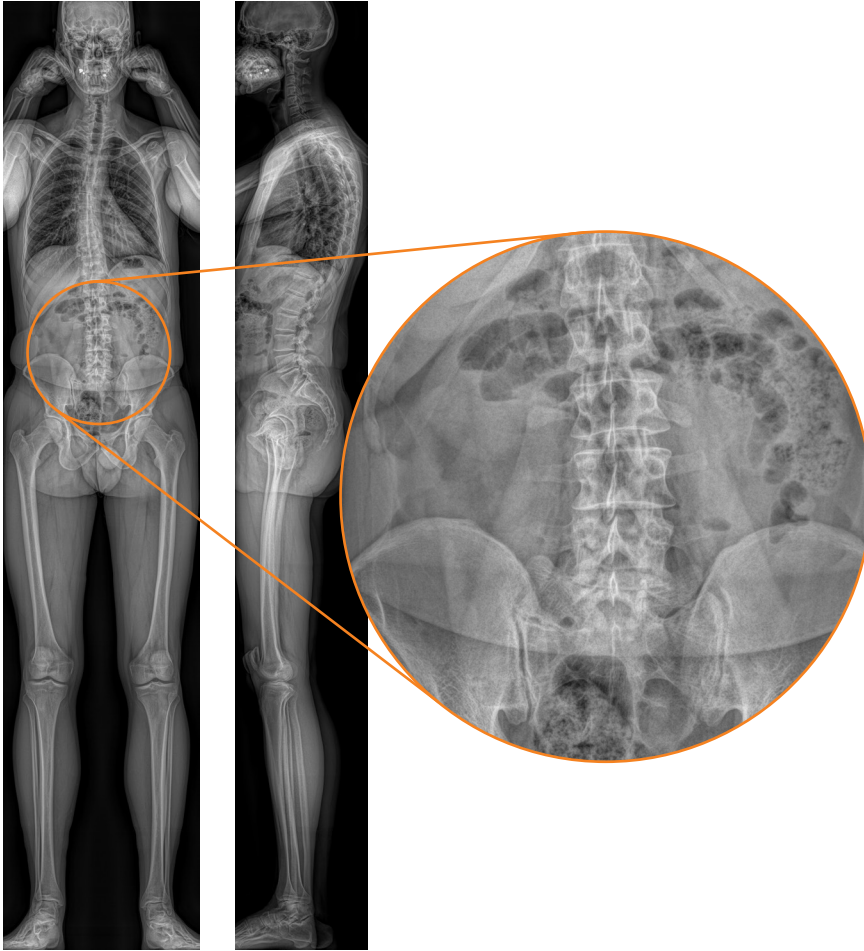
Image acquisition



EOS^{edge} platform lowers



Exam finished



Extended diagnostic capabilities

POWERED BY A PHOTON COUNTING DETECTOR

- High resolution images, for improved diagnostic capabilities
- Homogeneous images contrast
- Good visibility around implants



“EOSedge gives orthopedic surgeons comprehensive data for diagnosis and surgical planning by providing long-axis images as well as localized images of the spine: EOSedge is also essential for lower limb length inequality, angular deformity or localized imaging of the hip, knee, ankle, hand, shoulder...”

DAVID SCHWARTZ, MD

*Orthopedic Surgeon, Ortholndy
Indianapolis, IN*

Versatility across imaging suite

EOSedge allows extended diagnostics capabilities by performing localized high-resolution images, replacing standard digital radiography exams.



Low dose imaging protocols

FLEX DOSE™

Flex Dose uses body morphology to modulate radiation throughout the scan, ensuring homogeneous image quality:

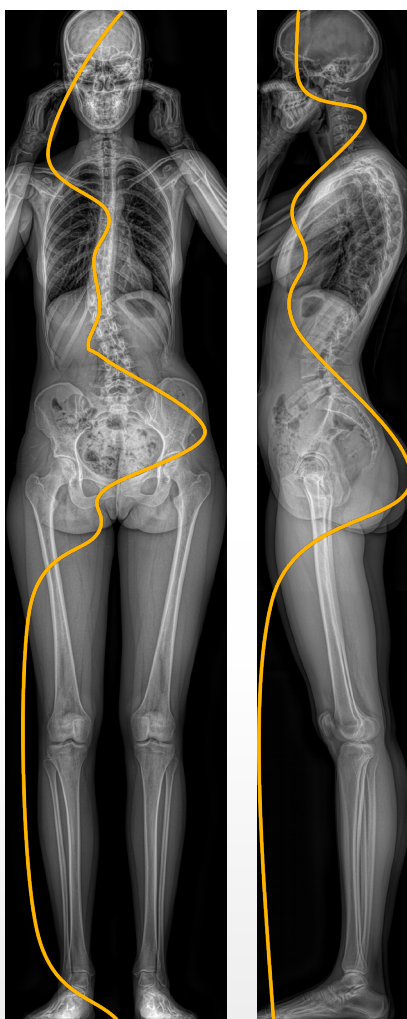
- First general X-ray system with dose modulation
- Consistent image quality along the full length of the scan
- Minimized radiation dose

5x

LESS DOSE ON
AVERAGE WITH AN
EOSedge LOW
DOSE COMPARED
TO DR ^(1,2)

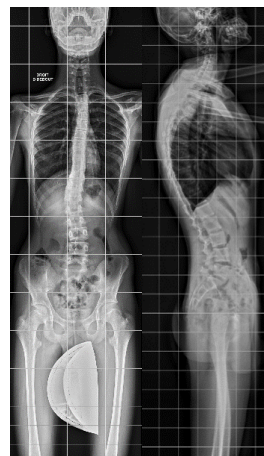
<23%

DOSE INCREASE
FOR FULL BODY
VERSUS FULL
SPINE EXAM ⁽³⁾



MICRO DOSE

The Micro Dose protocol can be used to monitor disease progression in pediatric patients, particularly for pathologies requiring frequent monitoring



DR ^(1,2)

Average DAP = 2567
mGy.cm2

DAP = sum of 4 to 6
stitched images in
frontal and lateral views



EOSedge

Micro Dose ^(1,2)

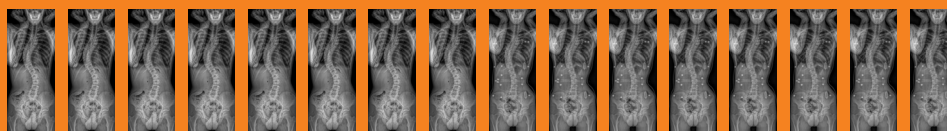
Average DAP = 92
mGy.cm2

DAP = sum of frontal
and lateral images
including scout views

28x

LESS DOSE ON AVERAGE
WITH AN EOSedge MICRO
DOSE COMPARED TO DR ^(1,2)

WHY DOSE MATTERS?



Patients treated for adolescent idiopathic scoliosis (average 16 radiographs) had an overall cancer rate **5x higher than that of an age-matched population** ⁽⁴⁾



¹ Radiation exposure comparison across longitudinal scoliosis follow-up: digital radiography versus EOSedge, *Guerra R, Feuerstein P, Barakat N, François JB, June 2022

² Boissonnat G, Morichau-Beauchant P, Reshef A, Villa C, Désauté P, Simon AC. Performance of automatic exposure control on dose and image quality: comparison between slot-scanning and flat panel digital radiography systems. Med Phys. 2022 Sep 7

³ Data on file: Reshef, A. Shifting from full-spine to full-body: An entrance dose impact study. EOS Imaging. MDF01706

⁴ Incidence of cancer in adolescent idiopathic scoliosis patients treated 25 years previously, Simony A et al. Eur Spine J. 2016

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EOSedge system: X-ray imaging acquisition system. EC conformity assessment: GMED CE0459, Class IIb. Manufacturer: EOS imaging.

Caution: US Federal law restricts this device to sale by or on the order of a physician.
Please read carefully the labeling provided with this device.

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