

• What is EOS?

EOS is an imaging device that combines a Nobel Prize-winning particle detector and an innovative linear scanning technique. With these 2 technologies, EOS allows for whole body, frontal and lateral images to be acquired simultaneously with significant dose reduction compared to conventional radiography¹, without compromising image quality.

• What is sterEOS ?

sterEOS is a workstation that enables 3D bone envelope modeling of the spine and the lower limbs in a weight-bearing position, making use of 2 biplane low dose X-ray images coming from EOS. Over 100 clinically relevant angle and length measurements are automatically calculated from the 3D.

• Why use EOS and sterEOS ?

The combination of whole body, low dose X-ray images and 3D weight-bearing modeling with associated calculations gives various medical specialties, particularly orthopedics, access to new clinical information to aid in the analysis of spine, hip & knee deformities and therapies.

• About EOS imaging

EOS imaging is dedicated to developing solutions for orthopedic imaging. EOS is the result of years of a close and multidisciplinary interaction between *EOS imaging* and a team of engineers, academic partners³, orthopedic surgeons and radiologists.

¹Deschenes S, Charron G, Beaudoin G, Labelle H, Dubois J, Miron M, Parent S.

Diagnostic Imaging of Spinal Deformities: Reducing Patients Radiation Dose With a New Slot-Scanning X-ray Imager. Spine April 2010, 35 (9): 989.

²Alison M, Azoulay R, Tilea B, Grandjean S, Lefevre T, Achour I, Sebag G.

Evaluation of workflow in a pediatric radiology department using Ultra Low Dose Digital Imaging - 2009 ESPR Congress.

³Laboratoire de Biomécanique de l'ENSAM (LBM), Paris & Laboratoire d'Imagerie et d'Orthopédie (LIO), Montreal



EOS imaging SA | 10 rue Mercoeur | 75011 Paris France | +33 (0) 155 25 60 60

EOS imaging Inc. | 185 Alewife Brook Parkway #410 | Cambridge, MA 02138 USA | +1 (678) 564 5400

www.eos-imaging.com



DON'T GUESS. SEE.

Born from Nobel Prize technology

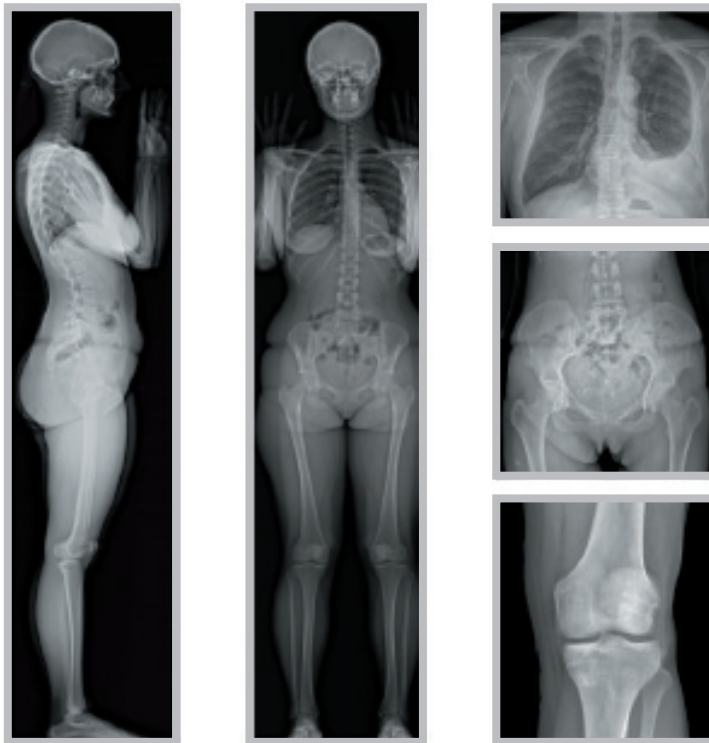
EOS

A radically new vision
for orthopedic imaging



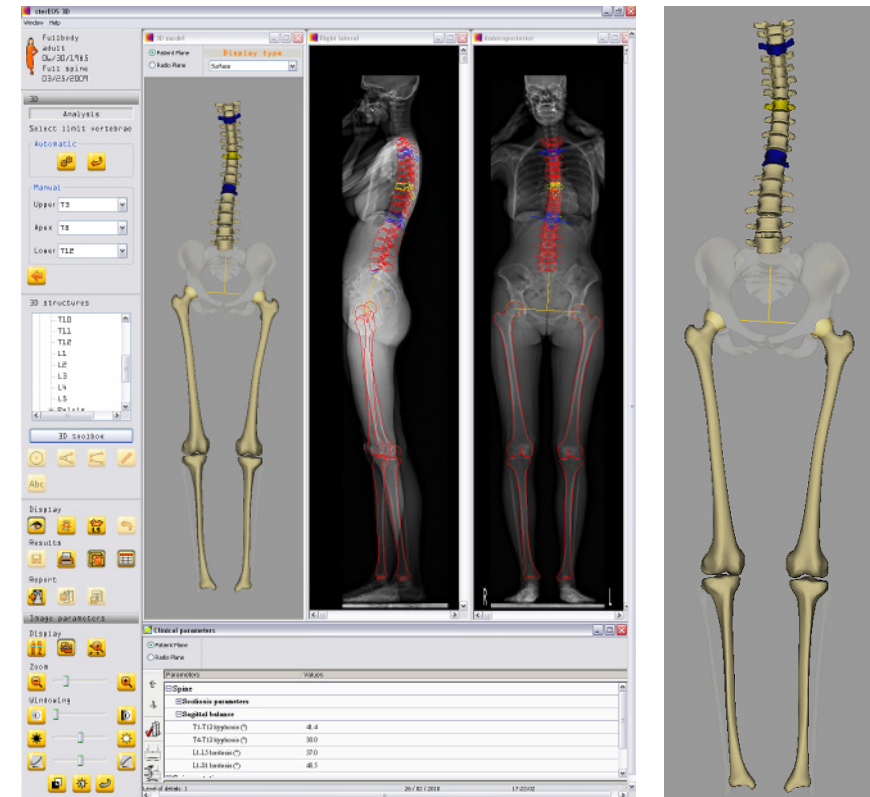
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Ultra low dose 2D X-ray system



- Significant reduction in radiation dose¹
- Outstanding image quality
- Whole body digital X-ray, no stitching
- Rapid, 1 pass biplane acquisition of the patient in weight-bearing position
- Total exam cycle below 4 minutes even for complex spine or full body exams²
- Global postural analysis

2D review | 3D modeling workstation



- Spine and lower limb 3D modeling from EOS low dose biplane acquisition
- 3D in weight-bearing position
- No additional radiation
- Automatic calculation of >100 clinical parameters