

Fluoroscanner InSight™ FD Mini C-Arm

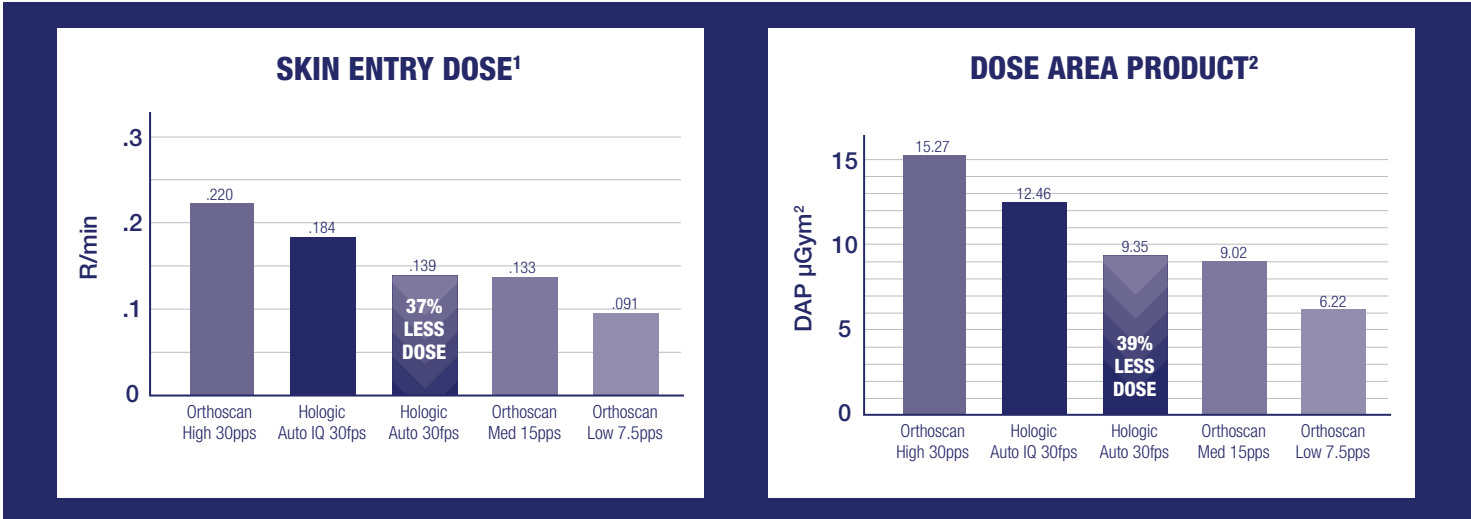
Be smart with dose. Know the facts.

Limiting the amount of radiation exposure to patients and healthcare professionals is a key topic in healthcare today. When using fluoroscopy, it's important to be aware of the different methods used to reduce dose and how different manufacturers chose to use them. The Hologic Fluoroscanner InSight FD mini C-arm is designed to use dose efficiently, applying the **ALARA** – “as low as reasonably achievable” – radiation safety principle, to reduce unnecessary radiation exposure to both you and your patients.



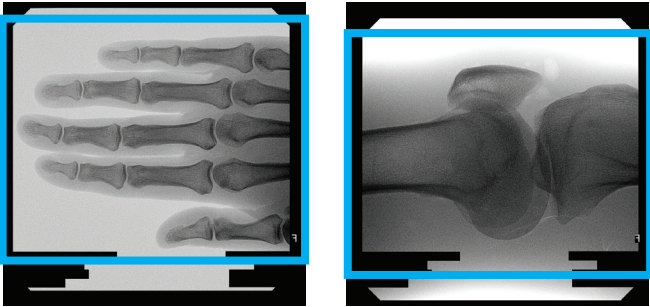
FLUOROSCAN®
InSight™ FD

The Fluoroscan® InSight™ FD system produces up to **39% less dose** than the competition – without the need for pulsed fluoroscopy.^{1, 2}



A flat detector tailored for extremity imaging

Mini C-arms are designed for imaging extremities where the anatomy is often long and narrow. We chose a rectangular shape for our detector to best suit the anatomy it is imaging. This helps minimize unnecessary radiation to the patient and staff by not exposing the unused area on the detector. Combine our detector’s ability to rotate with its tailored shape, and you have a system that is uniquely designed for extremity imaging.



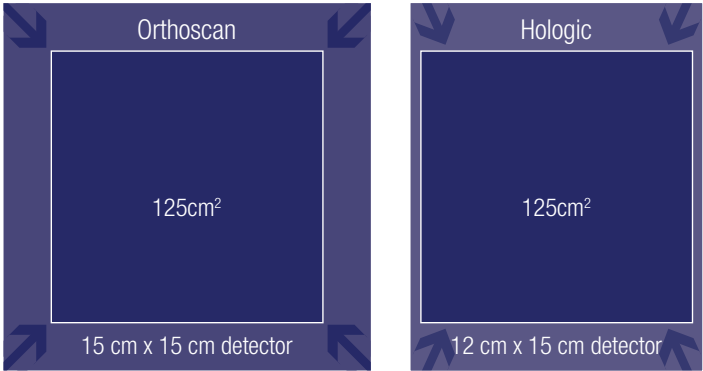
Pictures show competitor’s images using a square detector. Outline represents the InSight FD system’s rectangular detector. Its rotating capability enables all relevant anatomy to be captured.

Superb image quality at a lower dose

The InSight FD system is extremely dose efficient, using lower technique factors (kVp and/or mA) than the competition to achieve the same image quality.³ When imaging smaller anatomy, the system uses **22% less kVp to acquire the same image**. When imaging such highly dense anatomy as shoulders and knees, it still outperforms by requiring up to 10% less kVp for the same image quality as the competition.³

A collimator with significant dose savings

In addition to the dose-saving benefits of the flat detector’s shape, size and rotation capabilities, the system’s collimator can also be used to limit the field of view to 125cm² and decrease dose by up to 29%.² The InSight FD system uses up to **30% less dose when collimated** compared to the competition with its same sized collimation.²



Dual imaging modes to provide options

The InSight FD system comes with two pre-set imaging modes that use dose differently. For routine imaging, the standard **Auto Mode** provides the greatest dose efficiencies. The **Auto IQ Mode**, which uses slightly more dose, is ideal when there’s a need for lower noise and better definition. In this higher dose mode, the InSight FD system still offers **18% less dose** than the competitor’s highest pulse mode.²

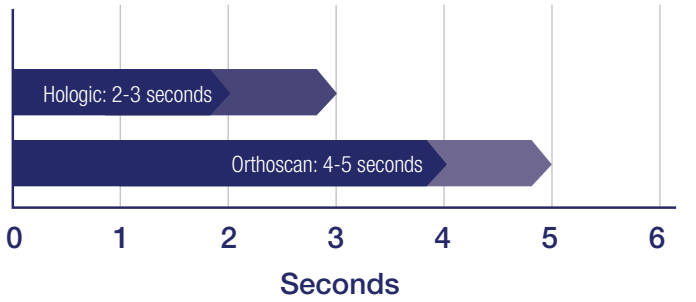
Features designed for speed and efficiency

When taking a single diagnostic image, it’s important to optimize radiation used to generate each image. The InSight FD system has a **true “snapshot” mode** that applies the ALARA – “as low as reasonably achievable” – radiation safety principle. The user simply presses the X-ray button or pedal, and the system automatically uses the lowest dose possible to get the best image.

Conversely, with the competitor’s system, radiation is entirely user dependent, requiring the user to press the X-ray button or pedal until the image stops adjusting and a clear image is displayed, then release. This manual method can result in more dose than necessary to get an optimal image – or if the X-ray switch is released too soon, a poor image that needs to be retaken. Both can lead to more unnecessary radiation exposure.

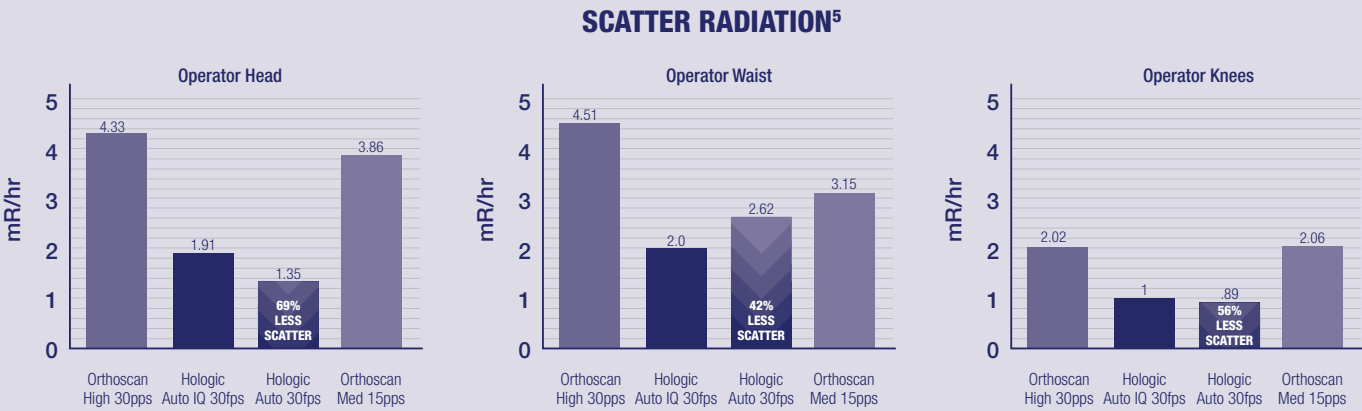
The automated dose-saving snapshot mode **takes the guesswork out** of using dose efficiently.

The InSight FD system is also up to **60% faster** than the competition when normalizing to reach the appropriate technique factors.⁴ This saves time and reduces unnecessary radiation.



A system engineered to protect you

By definition, mini C-arm systems are low dose; however, there are clear differences in radiation output by manufacturer. The same is true for scatter radiation to the operator. When measurements are taken at the head, waist and knee height, the InSight FD system produces, on average, **55% less scatter radiation** to the operator compared to the competition.⁵ Even when compared to its lower pulse rate of 15pps, the InSight FD system has 46% lower scatter radiation on average.⁵ It’s important to protect everyone – the patient, the surgeon and the staff – from unnecessary radiation exposure.

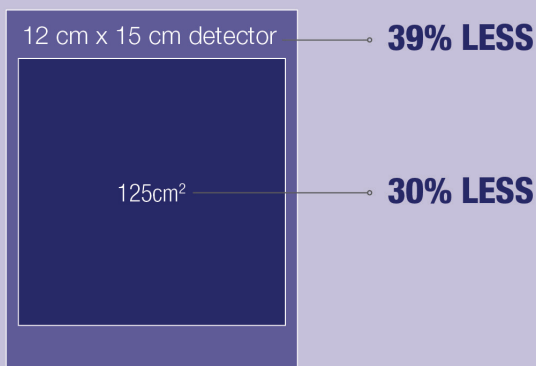


Be smart with dose. Know the facts.

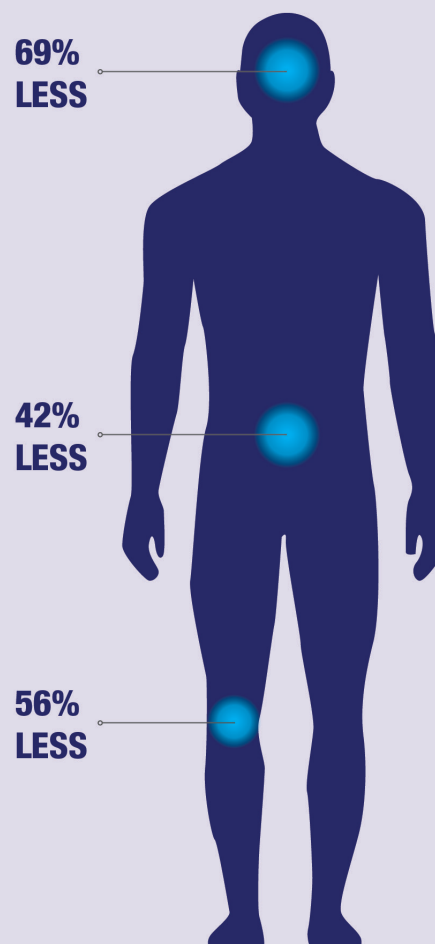
Fluoroscan® InSight™ FD Mini C-Arm

Be smart with dose. Know the facts.

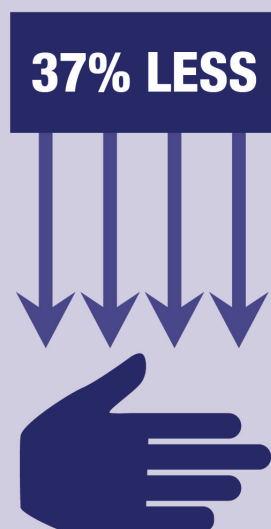
Dose Area Product vs. Competitor²



Scatter Radiation vs. Competitor⁵



Skin Entry Dose vs. Competitor¹



Fluoroscan.com | fluoroscan@hologic.com | +1.781.999.7300

1. F.X. Masse Associates, Inc. Report, September, 2, 2015 and January 14, 2016. Patient Entry Air Kerma Rate (AKR) & Exposure Rate. Measured at 5 cm above imaging assembly with a 19 mm Al phantom. 2. F.X. Masse Associates, Inc. Report, September, 2, 2015 and January 14, 2016. Dose Area Product (DAP) Meter Measurements. Measured for 30 second exposure of 19 mm Al phantom. 3. F.X. Masse Associates, Inc. Report, September, 2, 2015 and January 14, 2016. High and Low Contrast Resolution. Measurements made with no phantom, 3.3 mm or 19 mm Al phantom. 4. Data on File. 5. F.X. Masse Associates, Inc. Report, September, 2, 2015 and January 14, 2016. Scatter Measurements. Measured in a vertical plane one foot from table edge using a 19 mm Al phantom.

WP-00103 (2/16) © 2016 Hologic. All rights reserved. Hologic, Fluoroscan, InSight, The Science of Sure and associated logos are trademarks and/or registered trademarks of Hologic, Inc. and/or its subsidiaries in the United States and/or other countries. All other trademarks, registered trademarks, and product names are the property of their respective owners. This information is intended for medical professionals in the U.S. and other markets and is not intended as a product solicitation or promotion where such activities are prohibited. Because Hologic materials are distributed through websites, eBroadcasts and trade-shows, it is not always possible to control where such materials appear. For specific information on what products are available for sale in a particular country, please contact your local Hologic representative or write to fluoroscan@hologic.com.