

Fluoroscanner® InSight™ FD Mini C-Arm

## Be smart with dose.

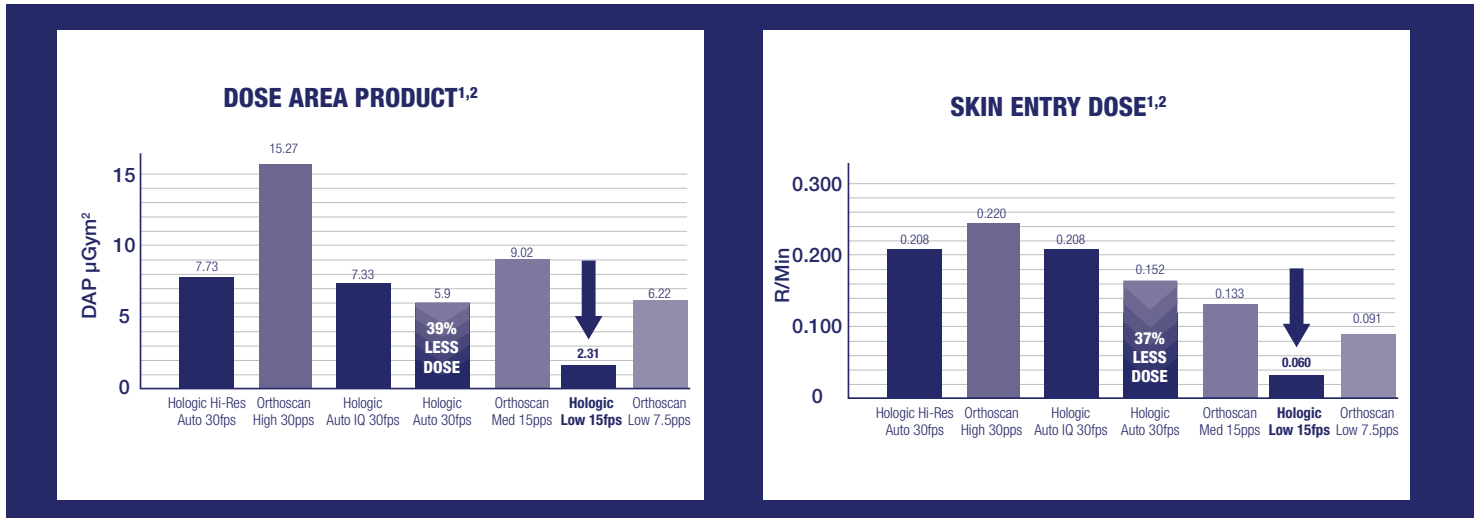
## Introducing the Low Dose mode

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. The low dose mode enables the user to reduce dose by up to 50% compared to auto mode.<sup>4</sup>



FLUOROSCAN®   
InSight™ FD

Fluoroscans® InSight™ FD system, when using the Auto mode at 30 fps produces up to **39% less dose** compared to OrthoScan FD Pulse's mode at 30 pps - without the need for pulsed fluoroscopy.<sup>1,2</sup>

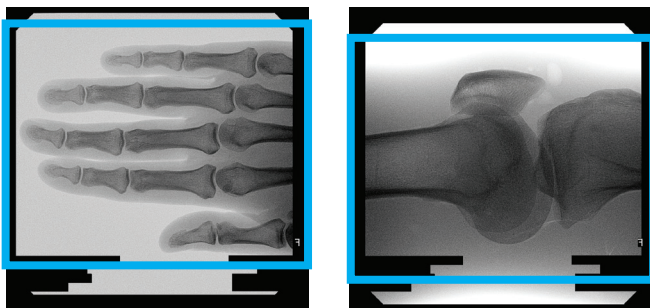


Fluoroscans InSight FD system, when using its **low dose mode** at 15 fps, produces up to 34% less dose compared to OrthoScan FD Pulse's Low dose mode at 7.5 pps.<sup>1,2</sup>

Fluoroscans InSight FD system, when using its high resolution mode at 15 fps, produces up to 5% less dose compared to OrthoScan FD pulse's high dose mode at 30 pps.<sup>1,2</sup>

### 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 is designed to help 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.



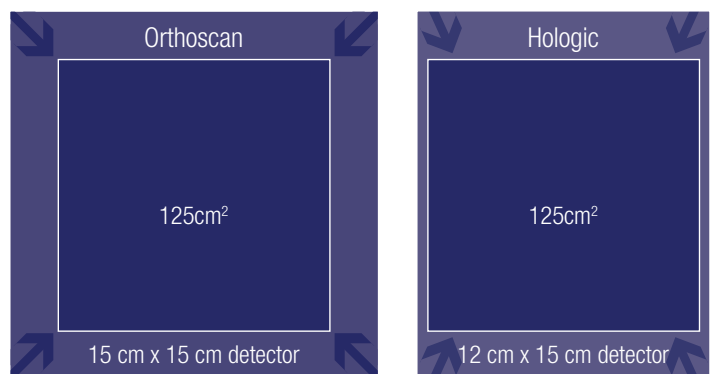
*Pictures show competitor's images using a square detector. Outline represents the InSight FD system's rectangular detector. Its rotating capability enables relevant anatomy to be captured.*

### Superb image quality at a lower dose

The InSight FD system is designed to be extremely dose efficient, using lower technique factors (kVp and/or mA) than the OrthoScan FD Pulse to achieve the same image quality.<sup>3</sup> When imaging smaller anatomy, the system uses up to **21% less kVp to acquire the same image in the auto mode.**

### 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 125cm<sup>2</sup> and decrease dose by up to 33%.<sup>1</sup> The InSight FD system uses up to **30% less dose when collimated** compared to OrthoScan FD Pulse with its same sized collimation.<sup>1,2</sup>



### 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.

## Features designed for speed and efficiency

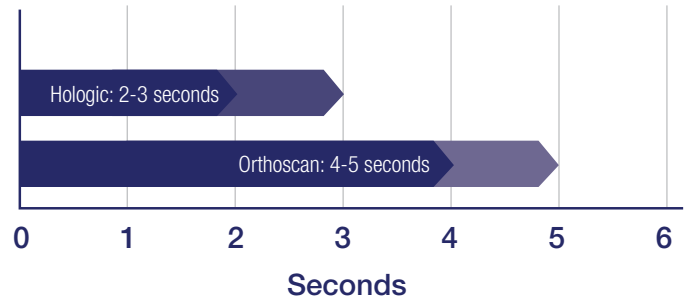
When taking a single image, it's important to optimize radiation used to generate each image.

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 image.

Conversely, with Orthoscan’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.<sup>4</sup> This saves time and reduces unnecessary radiation.



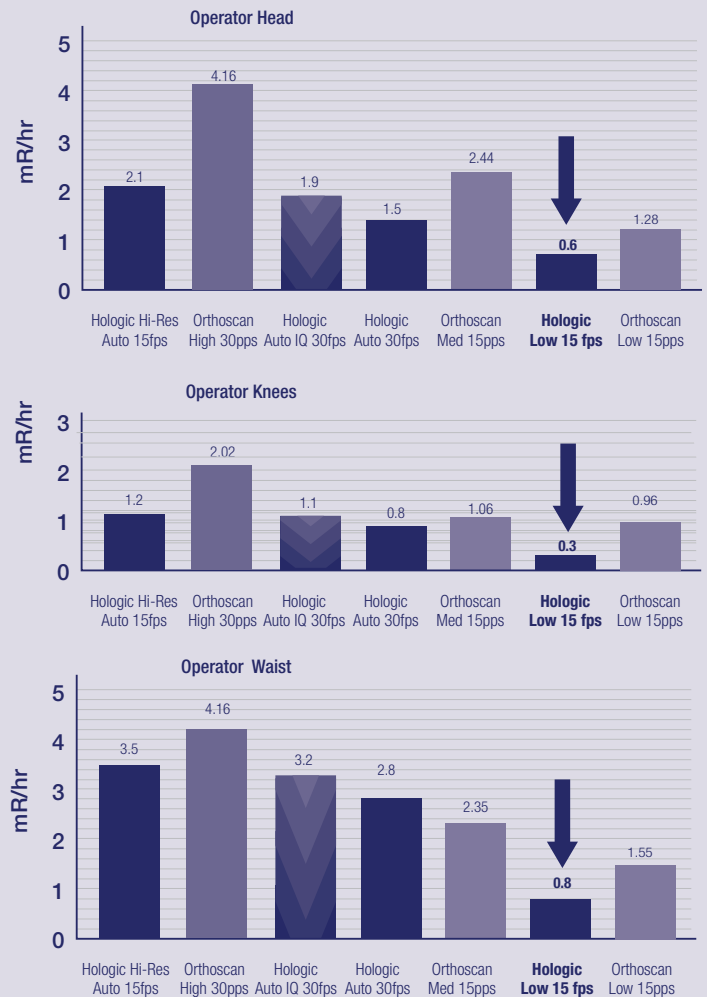
## A system engineered to protect you

When measurements are taken at the head, waist and knee height, the InSight FD system at 30 fps produces, on average, up to **50% less scatter radiation** to the operator compared to OrthoScan FD Pulse at 30 fps, in the auto mode.<sup>5,6</sup>

At the low dose mode at 15 fps, the InSight FD system produces up to 55% lower scatter radiation on average, compared to OrthoScan’s low dose mode at 7.5 pps.

**It’s important to protect everyone – the patient, the surgeon and the staff – from unnecessary radiation exposure.**

## SCATTER RADIATION<sup>5,6</sup>

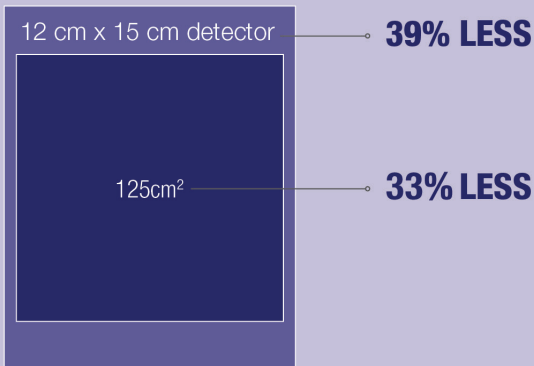


**Be smart with dose. Know the facts.**

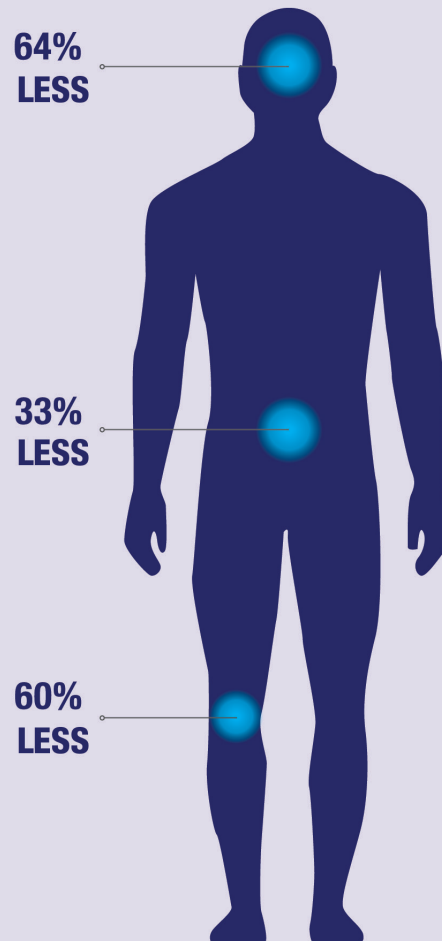
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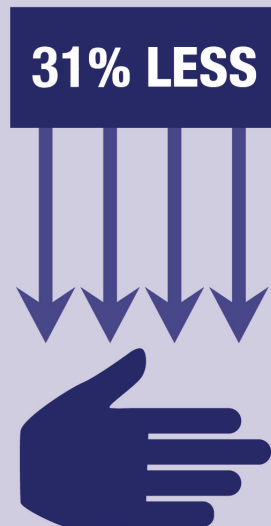
**Dose Area Product vs. OrthoScan FD Pulse<sup>1,2</sup>**



**Scatter Radiation vs. OrthoScan FD Pulse<sup>5,6</sup>**



**Skin Entry Dose vs. Competitor<sup>1</sup>**



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1. F.X.Masse Associates Inc, Report Apr 6 2018, Air Kerma and Exposure rate measured 5 cm above imaging assembly with a 19mm Al phantom and DAP measurements for Fluoroscans InSight FD, measured for 30 second exposure of 19mm Al phantom. 2. F.X.Masse Associates Inc, Report dated Sep 3 2015 and Jan 14 2016, Exposure rate measured 5 cm above imaging assembly with a 19mm Al phantom and DAP measurements for Fluoroscans InSight FD, measured for 30 second exposure of 19mm 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. "Scatter Measurements for OrthoScan FD pulse", 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. 6. F.X. Masse Associated, Inc Report dated Apr 6 2018, Scatter Measurements for Fluoroscans InSight FD - Measured in a vertical plane one foot from table edge using a 19mm Al phantom.