



## ORTHOscan FD PULSE

*The First & Only Mini C-Arm with Pulsed Fluoroscopy*

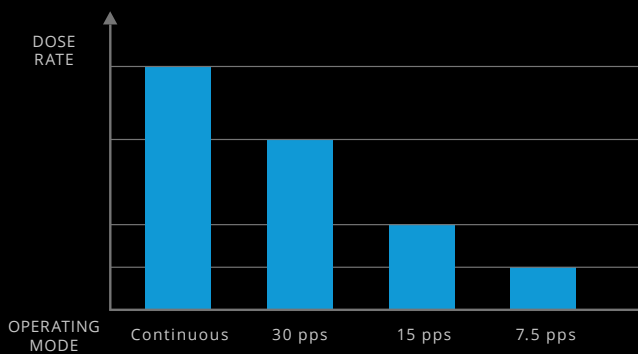
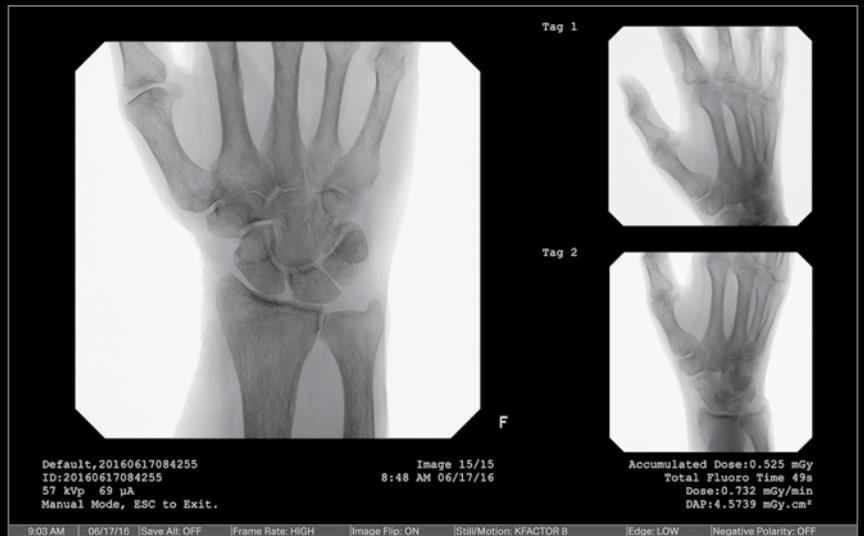


# LARGEST FLAT DETECTOR & LOWEST

## 24" High Resolution Monitor\*

With FD Pulse, the new 24" high resolution diagnostic widescreen monitor allows for a 20% larger viewing area. The 1920 x 1200 resolution provides exceptional image quality showing fine details of relevant anatomy and a wider viewing angle for increased visibility. Additional features include an improved multi-function articulating monitor arm and redesigned keyboard tray.

\* DIN 6868-157 compliant

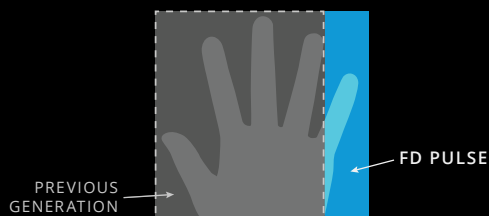


## Reduced Dose

Moving from continuous fluoroscopy to a pulsed fluoroscopy of 30 pulses per second (pps), OrthoScan is able to reduce the dose without loss of image quality or detail. Selectable pulses per second — between 30, 15, and 7.5 pps — allow the user to reduce the dose depending upon their imaging needs.

## Largest Flat Detector on a Mini

A larger detector provides the greatest field of view, enabling the user to see more anatomy. FD Pulse has the largest flat detector on a mini and the square shape negates the need for a rotating detector, increasing the reliability over time.



# DOSE AVAILABLE ON A MINI C-ARM

## *Over-Rotation*

The OrthoScan mini c-arm design allows for an orbital rotation of 150°. This enables the user to take advantage of the larger field of view without making mechanical adjustments required by competitive equipment. The increased orbital movement enables preferred views without stressing anatomy.



## *Flat-Form Detector*

Flat detectors provide increased image quality, improved reliability, a smaller footprint, and more efficient imaging when compared to older image intensifier technology. The FD Pulse utilizes the thinnest flat detector housing on the market, allowing the user to place the detector directly on the operating surface and leave the c-arm in the field to reduce OR time and decrease sterility risks.



## *Surgical LED Lights*

Located on the bottom of the tube head, these surgical lights provide additional illumination on the anatomy and eliminate shadows cast from the C.

## *Bilateral Sterile Field Controls*

Conveniently located on each side of the tube head assembly, bilateral controls provide easy access to imaging and documentation in the sterile field.



# SPECIFICATIONS

## Detector

Detector Resolution	1.5 k x 1.5 k
Field of View: Full	14.0 cm x 14.0 cm (5.5" x 5.5")
Field of View: Collimated	10.9 cm x 10.9 cm (4.3" x 4.3")
Useful Array	15.0 cm x 15.0 cm
Pixel Spacing	100 microns
Dose Rate	AKR, DAP

## X-Ray Monoblock

Focal Spot	42.5 microns
kV Range	40 – 78 kVp
mA Range	0.04 – 0.160 mA*
Selectable Pulse Rate	30 / 15 / 7.5 pps

## Documentation

Wireless Communication	Capable
DICOM 3.0 Compliant	Yes
MPPS	Capable
Image Capacity	12,000
Video Capacity	90 min
Cine Loop Export	Yes
USB 2.0 Ports	2
Printer Options	2

## C-Arm

Free Space	35.0 cm (13.8")
Arc Depth	48.3 cm (19")
Pivot	430°
Lateral Rotate (Wig-Wag)	320°
Orbital Rotate	150°
Vertical Range	86.4 cm (34")
Distance to Cabinet	max 172.7 cm (68")
Distance to Wheel Base	max 114.3 cm (45")

## Imaging

Surgical LED Lights	Yes
Sterile Field Controls	Bilateral
Start Up Time	30 sec
Temporary Image Hold	512 images
Cine Loop Frame Rate	30 fps
Snapshot Capabilities	Yes
Edge Enhancement	Yes
Post Process Brightness/Contrast	Yes
Adaptive Noise Suppression	Automatic
Manual Noise Suppression	4 Modes
Laser Alignment	Yes
Multifunction Wireless Foot Switch	Capable

## Display

Monitor	61 cm (24") LCD
Primary "Live" Image	25.4 cm x 25.4 cm (10.0" x 10.0")
Dual Reference Images	12.7 cm x 12.7 cm (5.0" x 5.0")
Built-in DICOM Calibration	Yes
Extendible Monitor Arm	Yes – 68.6 cm (27")
Left/Right Arm Swivel & Rotation	216° + 370° + 200°
Height Adjustable Arm	Yes
Monitor Handles	Yes
Video Output	Yes
Monitor Brightness	350 cd/m <sup>2</sup>

## Software

Operating System	Windows 7 Embedded
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## Dimensions

Weight	181.4 kg (400 lb)
Height	113.0 cm (44.5")
Footprint (W x L)	68.6 cm x 83.8 cm (27" x 33")



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