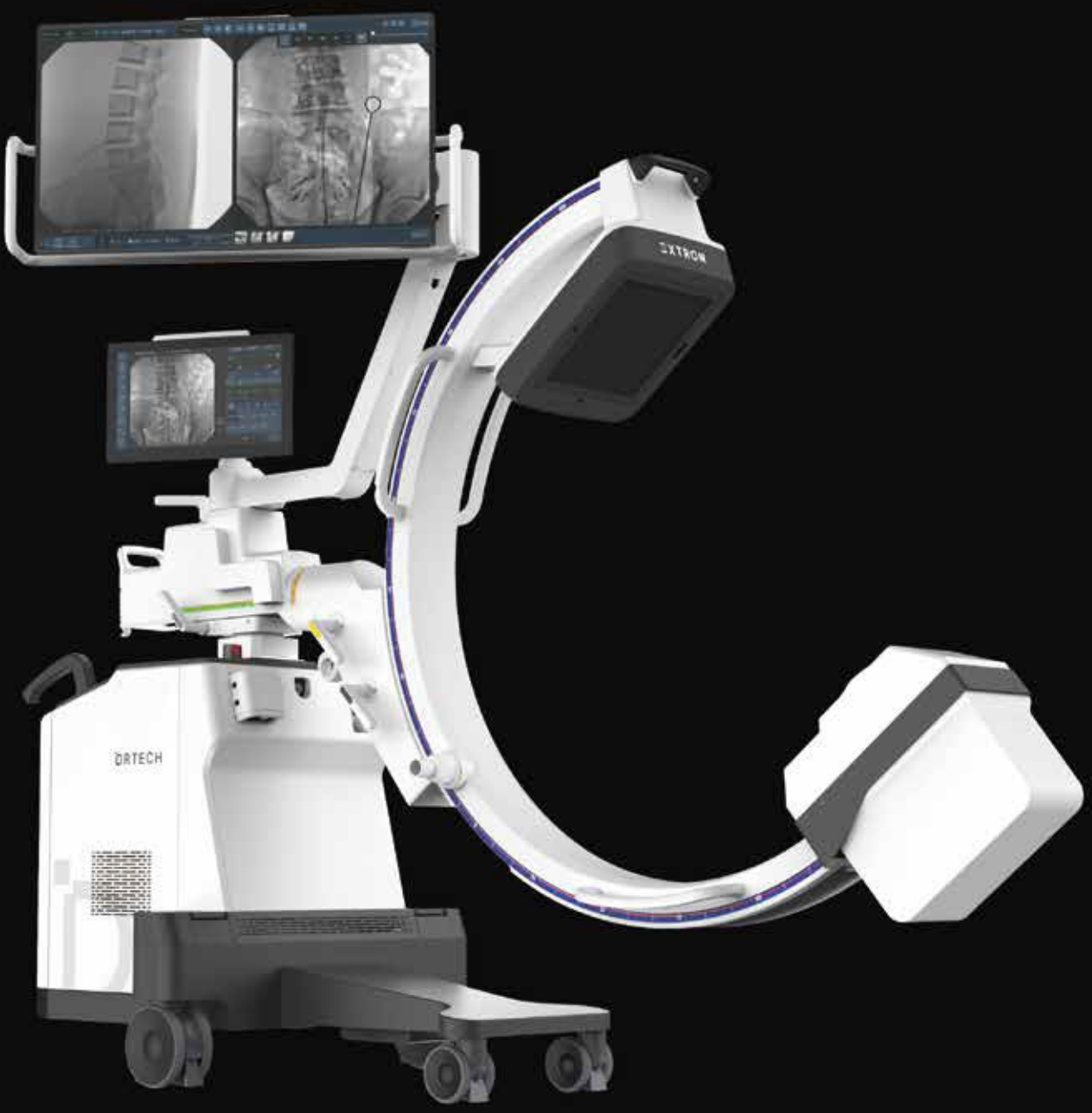
Compact & Versatile Design for Maximum Flexibility

EXTRON 3 Omni



913 662 1405

info@pulseism.com

518 Shawnee St Leavenworth, KS. 66048

EXTRON 3 Omni

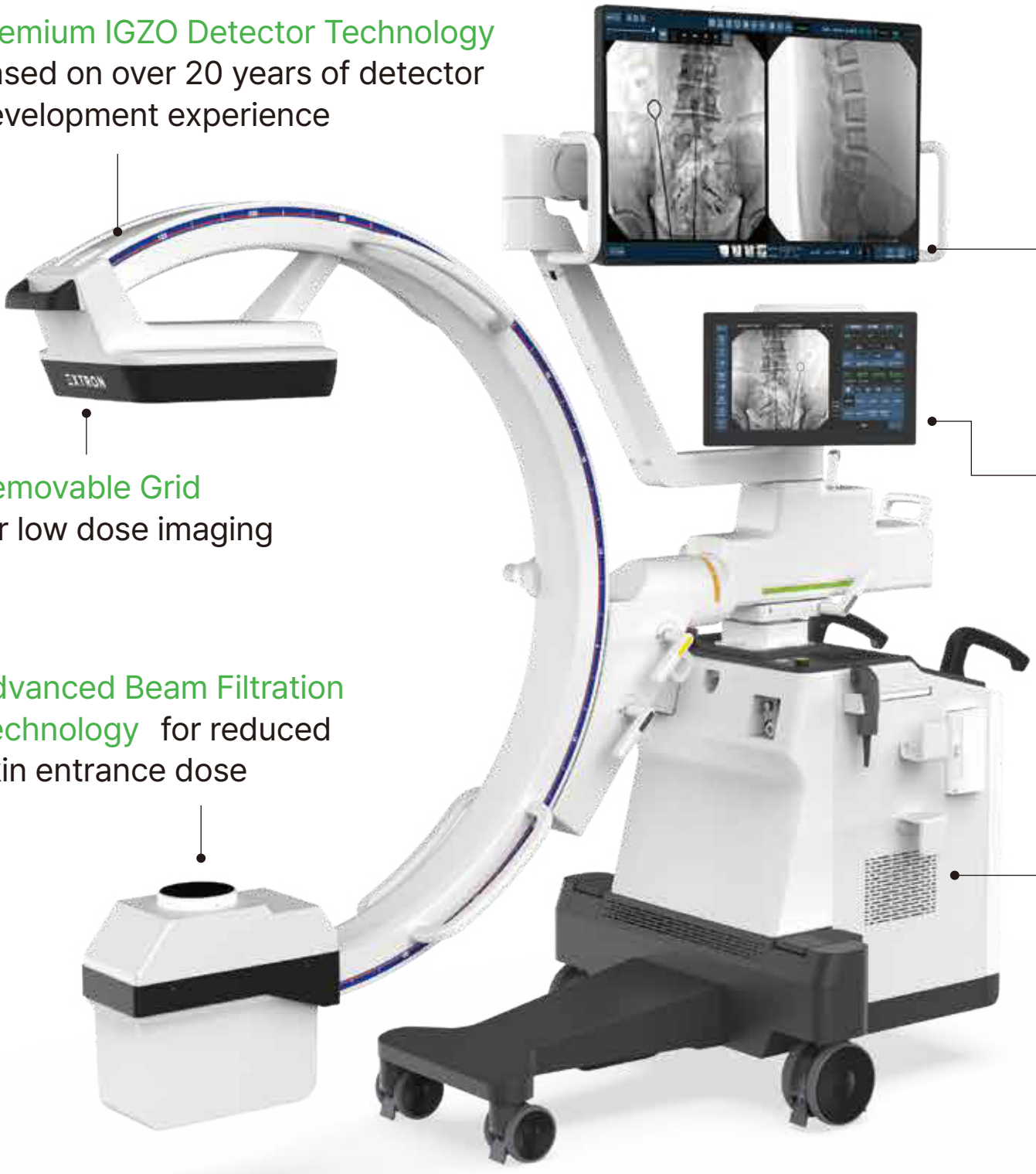
Compact & Versatile Design for Maximum Flexibility

23×23cm (9"x 9")

Premium IGZO Detector Technology
based on over 20 years of detector development experience

Removable Grid
for low dose imaging

Advanced Beam Filtration Technology for reduced skin entrance dose



Compact Design
for small surgery rooms

43″ Wide Monitor
for clear image viewing

32″ Touch Monitor
on Articulating Arm

Only Available for EXTRON 3 Omni

15.6″ Touch OP Console
on 350° Rotating Arm
for operational comfort

Light Weight, Stable
& Compact Monitor Cart

*Option

Easy Cable Maintenance
for increased safety
& system management

Simple Power &
HDMI Connection

EXTRON 3 Omni

Features	EXTRON3 Omni
Detector Technology	IGZO flat Panel (23×23cm (9"x 9"))
Pixel Size	148μm (23×23cm)
Power Generator	5kW
RNR (Real-time Noise Reduction)	●
Light Compact Monitor Cart	Option
Monitor Display	32″ Touch Monitor
Orbital Movement	165°
C-arc Depth	73cm (28.7″)
C-arc Free Space	80cm (31.6″)

5x Less Dose with TRUDigital Architecture

Premium imaging platform TRUDIGITAL Architecture provides flawless low dose imaging to meet the high imaging standards of any challenging surgical procedures. TRUDIGITAL powered by DRTECH's premium grade EXPEED surgical detector and state-of-the-art image processing technology provides faster and more accurate data processing resulting in superior image resolution and low-noise dynamic imaging performance.

TRUDose
: Ultimate Low Dose Imaging

Low-dose, high-performance surgical imaging system with proven detector & dose reduction technology minimizing dose exposure for physicians, operators and patients.

IGZO FPD
Premium
Low Dose

RNR
Real-time Noise
Reduction

AI Object
Detection

Diverse
Dose Modes

TRUImage : High Resolution, Low Noise Imaging

Advanced Real-time image processing technology with distortion-free FPD technology, highest image quality is guaranteed.

FPD
Large FOV

31.5”
Touch Monitor

Needle
Enhancement

RNR
Real-time Noise
Reduction

TRUMotion
: Flawless Dynamic Imaging

User-friendly and usability-focused design for increased efficiency & convenience that help reduce surgery time and maximize surgical accuracy in any surgical environment.

Smart Memory
Position (option)

Auto Drag
Collimation

Wide Depth

Touch
OP Console

Premium Low Dose IGZO Technology for Perfect Low Dose Imaging

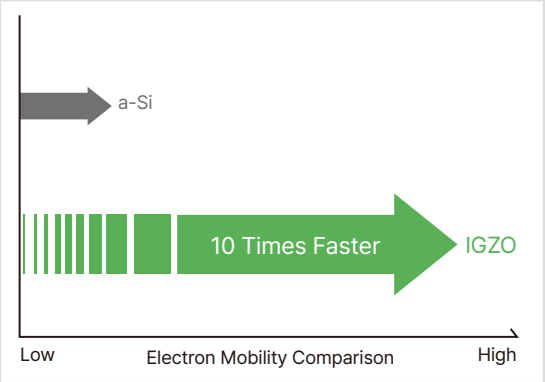
Premium IGZO FPD Delivering **CLEAN, NOISE-FREE, HIGH-RESOLUTION** Surgical Images with Excellent Dose Efficiency

EXTRON provides superb image quality to meet the high imaging standards of any challenging surgical procedures. With DRTECH's over 20 years experience and know-how developing premium flat panel detectors, EXPEED FPDs integrated in EXTRON, provides distortion free, high-resolution real time images for accurate and fast image display.

New Generation IGZO FPD for Surgical Imaging

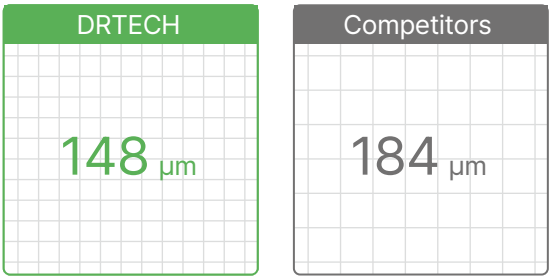
IGZO FPD's fast image transfer speed enables fast real-time image output without delay resulting in less image lag and faster image display

DRTECH's next-generation IGZO TFT has 10-times faster electron transfer speed and significantly lower electrical leakage with significantly reduced image noise compared to a-Si TFT, providing high-definition diagnostic images at low dose conditions

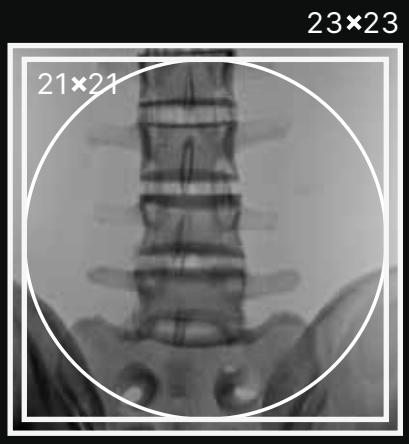


Small Pixel Size for High Resolution Images

With it's small pixel size, EXTRON provides high-resolution clear images for more accurate and efficient diagnosis/ procedures. 23×23cm detector has 148μm pixel pitch being one of the smallest pixel sizes in the market.



Large Field of View (FOV) without Image Distortion



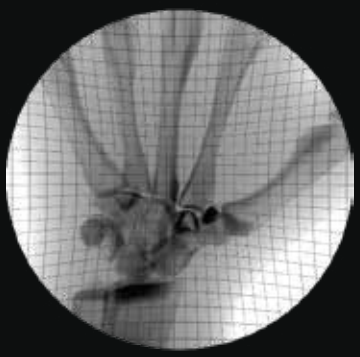
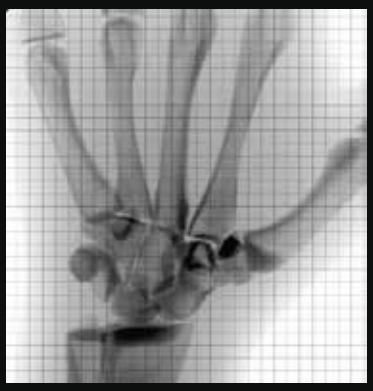


Image Distortion
with I.I



Distortion-free
FPD Image

High-Performance EXPEED FPDs

Scintillator	Cesium Iodide (Directly Deposited CsI)
Pixel Pitch	148μm
Field of View	23×23cm (9" x 9")
Resolution	1,536×1,536

TRUImage : Low Dose, High-quality Real-time Imaging

Increase Surgical Accuracy with High-contrast, High-resolution, Low Noise Images

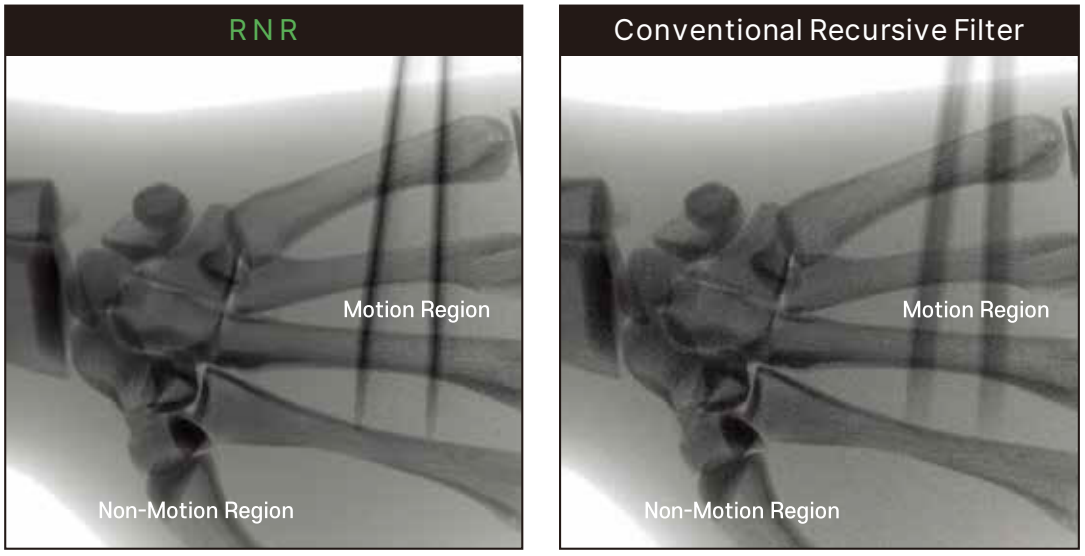
EXTRON, with its flat panel detector technology and proprietary image processing technology, delivers superb image quality that enhances accuracy and surgical confidence, even in the most demanding surgical environments. Experience advanced solutions for high-quality images.

RNR (Real-time Noise Reduction)

RNR (Real-time Noise Reduction) is DRTECH's cutting-edge technology that utilizes recursive filtration based on motion detection. Unlike conventional systems that apply recursive filters to the entire image, resulting in image lag and noise, RNR detects object movement and applies different recursive depths to motion and non-motion areas. This real-time and real-place noise reduction technique results in outstanding image quality with reduced lag and noise in dynamic surgical images.

Fast & Accurate Noise Reduction: Real-time, Real Place

- Fast Noise Stabilization within 0.2 Sec.
- No Image Lag On Moving Surgical Tools
- Optimized Motion Detection for Low Dose Mode



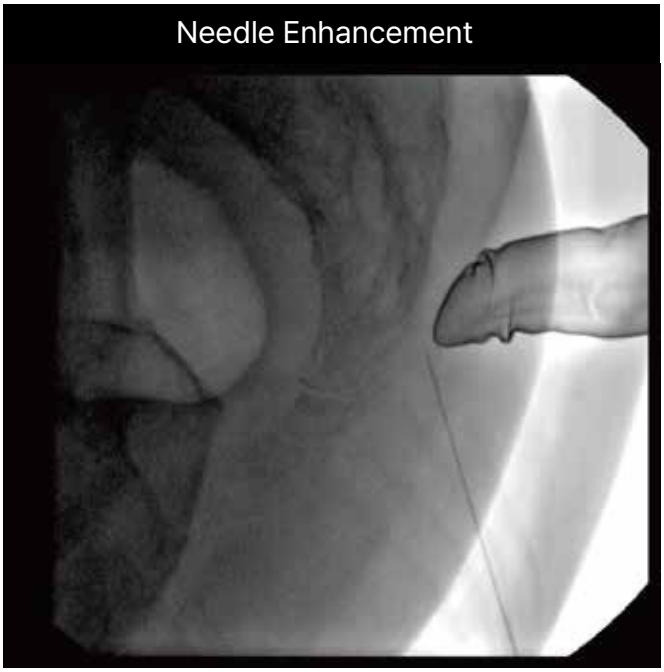
Precision Control for Perfect Image Customization

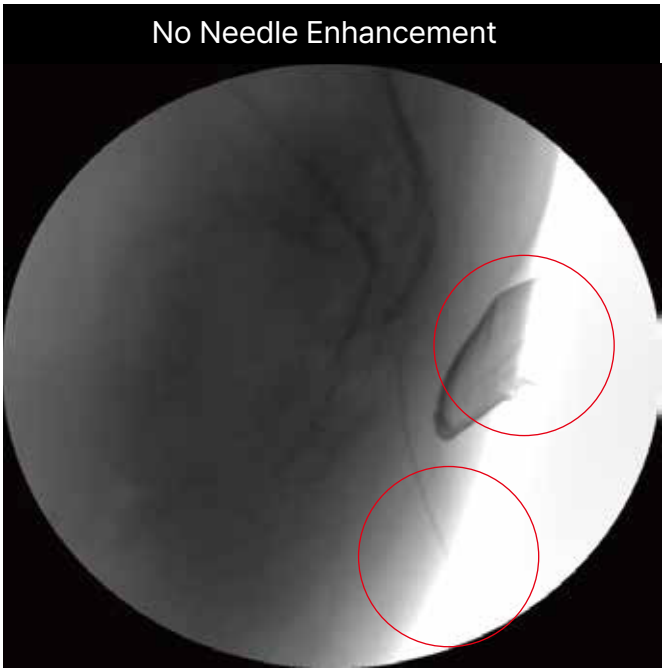
Metal Detection

Metal Detection technology maintains the image brightness even when a surgical tool (metal) enters the imaging area during surgery, preventing excessive radiation exposure or degradation of image quality. This ensures a constant and excellent image quality throughout the surgery.

Needle Enhancement

Needle Enhancement technology prevents the disappearance of the needle even under high-dose conditions, ensuring safe and accurate surgical procedures.





TRUMotion : Flawless Dynamic Imaging & Performance

User Centric Functions and Ergonomic Design for Maximum Operational Efficiency

Auto Drag Collimation (OP Console Operatable)

Auto Drag Collimation function allows the operator to designate imaging areas (collimation area) from any location and size, simply by touching and dragging the desired imaging location on the OP display. The image is automatically collimated to prevent unnecessary dose. After collimation, the image is automatically enlarged to fit the image display.

Auto Drag Collimation

Digital Zoom

Xconsole

UI Software for EXTRON

UI Software for Maximized Surgical Workflow

Easy Editing Tool

Unlimited Recording

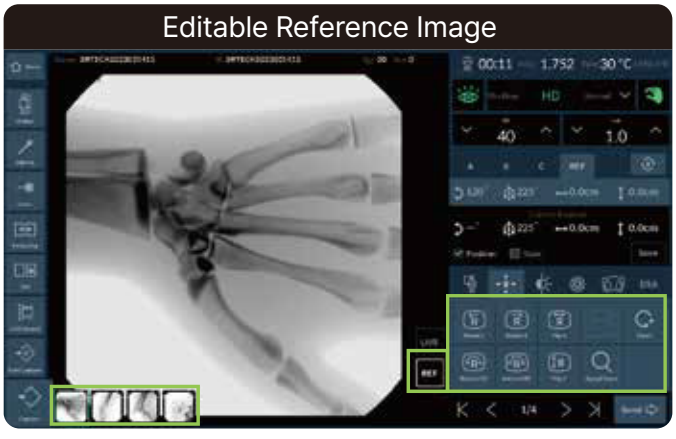
Intuitive Information

Customizable Setting

Key Features

Unlimited Video Recording and Editing

Editable Reference Image



DRTECH

X

pulseISM
PASSIONATE ABOUT IMAGING

913 662 1405
info@pulseism.com
518 Shawnee St Leavenworth, KS. 66048
www.pulseism.com.