



Experience True Digital for
Low Dose Imaging

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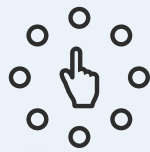
EXTRON

EXPERIENCE **True Digital**

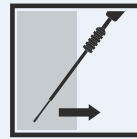


Low
Dose

TRUDose



TRUMotion



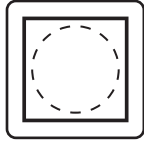
TRUImage

Powered by **TRUDigital** Architecture

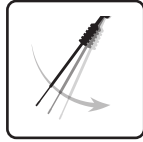
Premium imaging platform TRUDigital Architecture provides flawless low dose imaging to meet the high imaging standards of any challenging surgical procedures. TRUDigital powered by DRTECH's premium grade EXPEED surgical detector and state-of-the-art image processing technology provides faster and more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

TRUImage : High Resolution, Low Noise Imaging

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



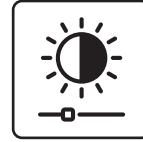
FPD
Large FOV



RNR
Real-time Noise Reduction



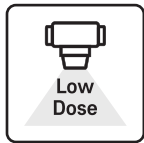
Needle
Enhancement



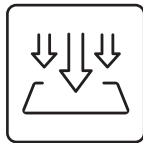
Metal
Detection

TRUDose : Ultimate Low Dose Imaging

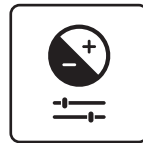
Low-dose, high-performance surgical imaging system with proven detector & dose reduction
technology minimizing dose exposure for physicians, operators and patients.



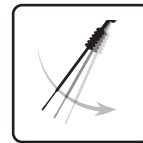
Dynamic Pulse
Mode



Beam Filter
Technology



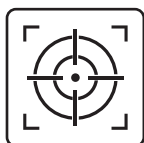
ABC & ABM



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.



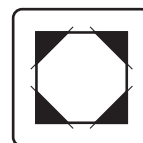
Smart Memory
Position



Touch
OP Console



Wide
C-arc

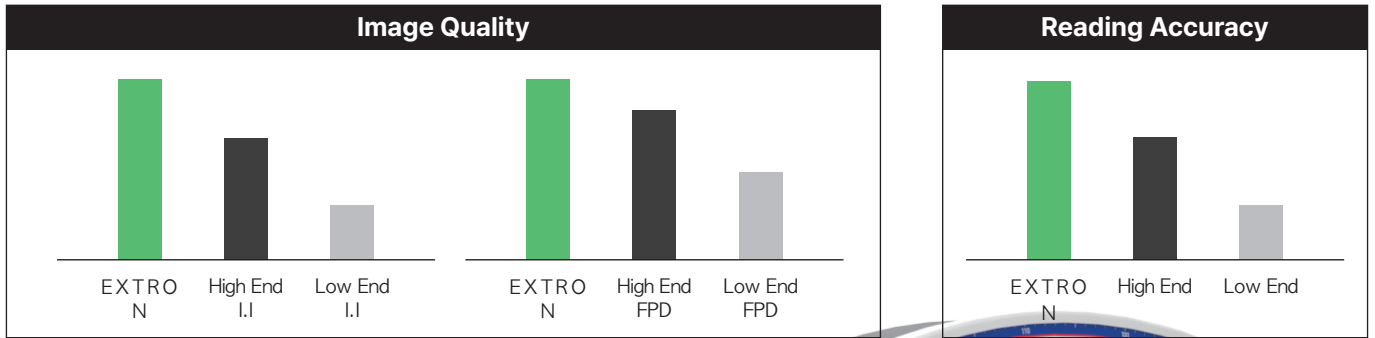


Auto Drag
Collimation

TRUImage

: High Resolution, Low Noise & Afterimage Free

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.



Experience **130%** More, Distortion Free Images

* 2121 vs 9" I.I

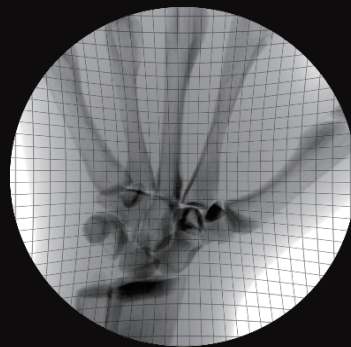
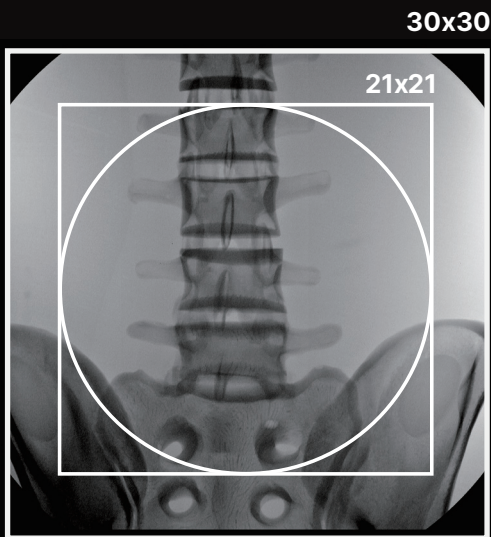
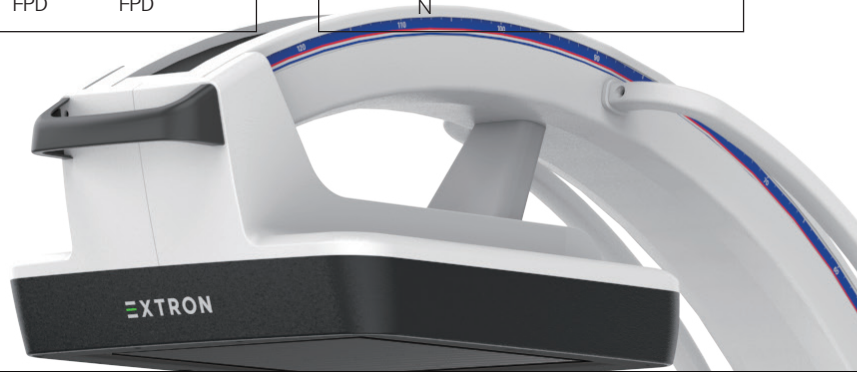
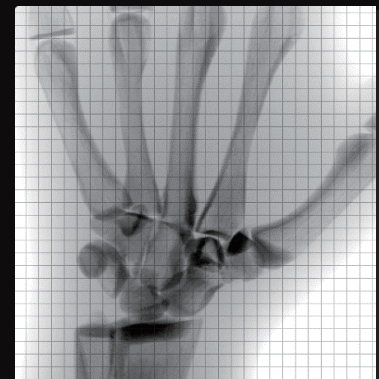
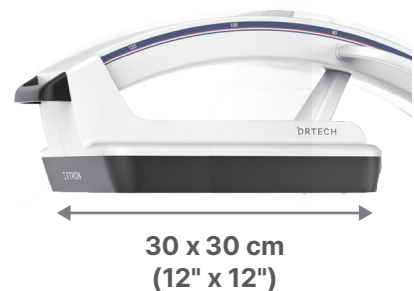
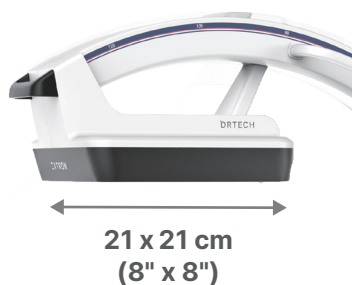


Image Distortion with I.I



Distortion-free FPD Image

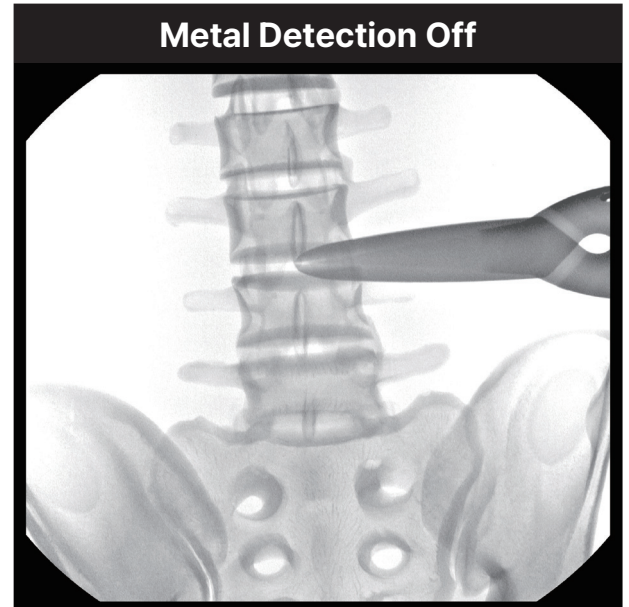
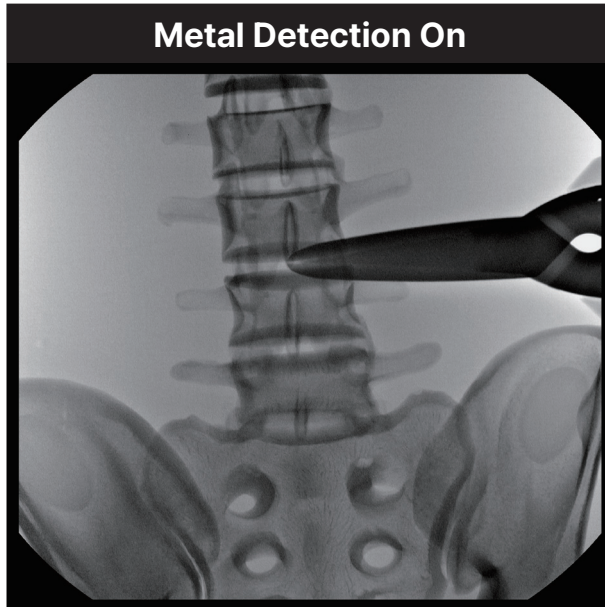
High-Performance **EXPEED** FPDs with Two size options



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

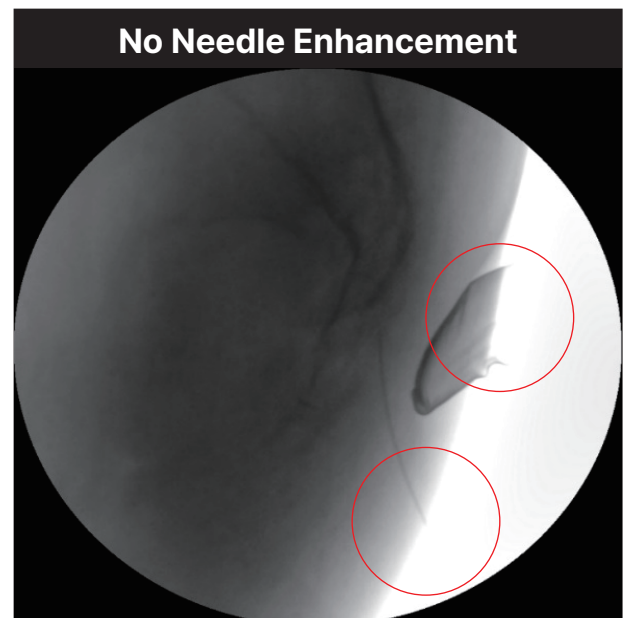
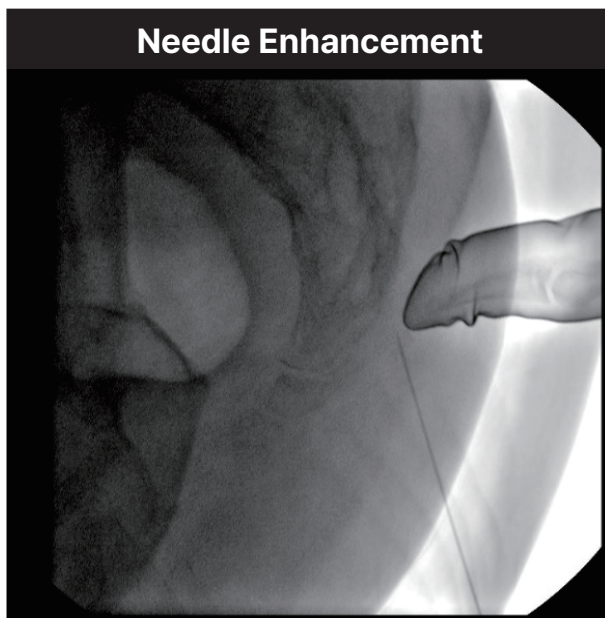
Metal Detection

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



TRUDose : Ultimate Low Dose Imaging

Consistent Image Quality at Significantly Reduced Dose

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



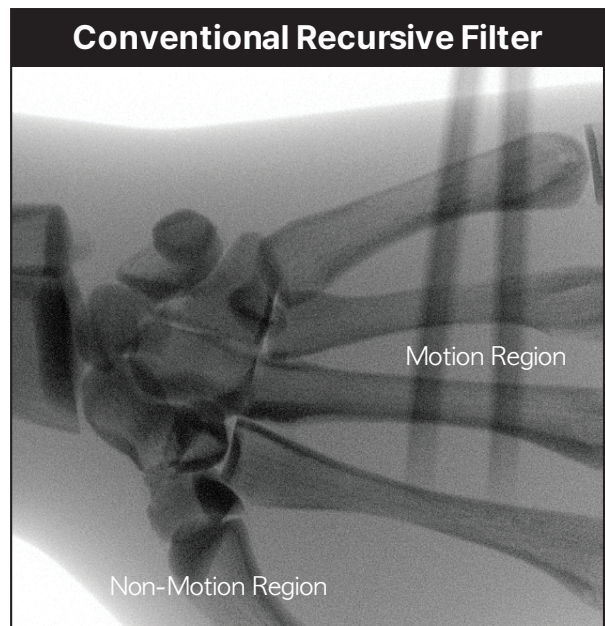
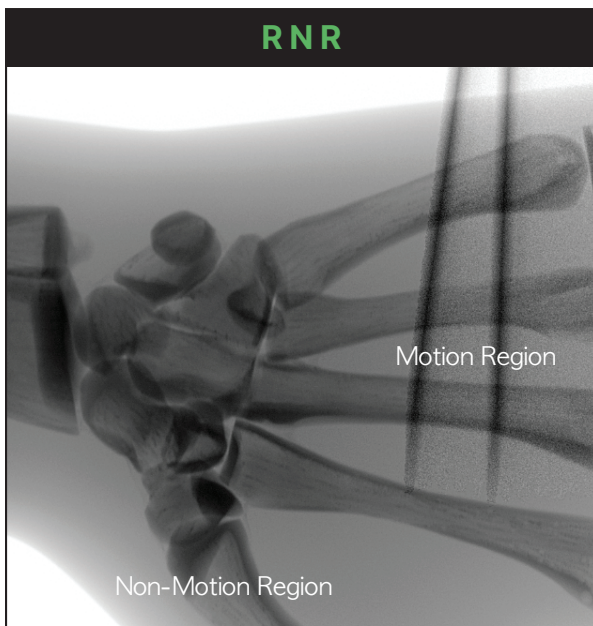
Fast Noise Stabilization
within 0.2 Sec.



No Image Lag
On Moving
Surgical Tools



Optimized Motion Detection
for Low Dose Mode



Precision Control for Perfect Image Customization

**Extremities
Orthopedics**

Lv1

**High Noise
Low Ghost**



**Spine Surgery
Neuro Surgery**

Lv5

**Low Noise
High Ghost**

Multiple Dose Modes for Easy and Safe Dose Management

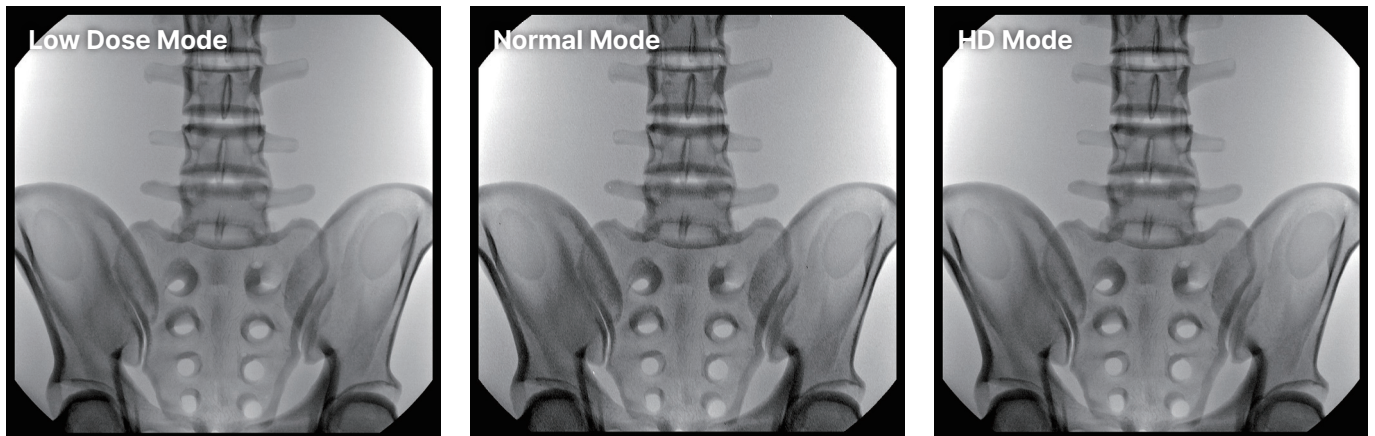
EXTRON Provides Diverse Dose Mode Options for Optimal Low-dose Imaging

Dynamic Pulse Low Dose Mode

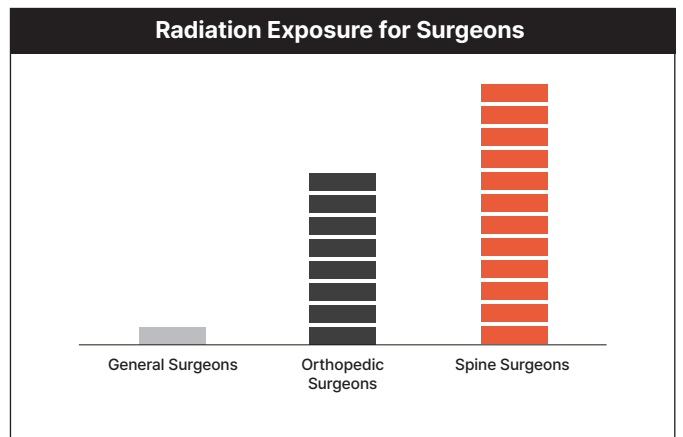
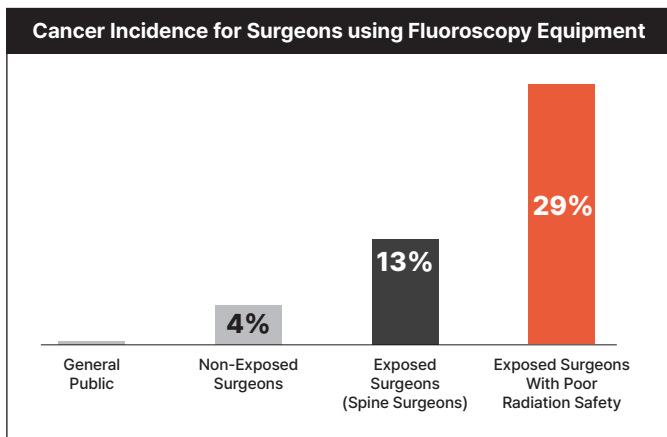
EXTRON detects object motion in real-time and applies the most optimized pulse rate for best image quality and dose. If motion is sensed, EXTRON automatically increases the pulse rate for high image quality and decreases the pulse rate when there is no motion to minimize the dose exposure.

X-ray Mode	Option	Dose
Continuous	HD mode	110%
	Normal mode	100%
	Low Dose mode	70%
	Adipo mode	50%
	Min Dose mode	30%
Dynamic Pulse Low Dose	Motion: 20pps	
	No Motion: 10pps	
Pulse Low Dose	Standard Dose mode	40%
	Half Dose mode	20%
	Quarter Dose mode	10%

Maintained image quality even at low dose with Real-time Noise reduction (RNR)

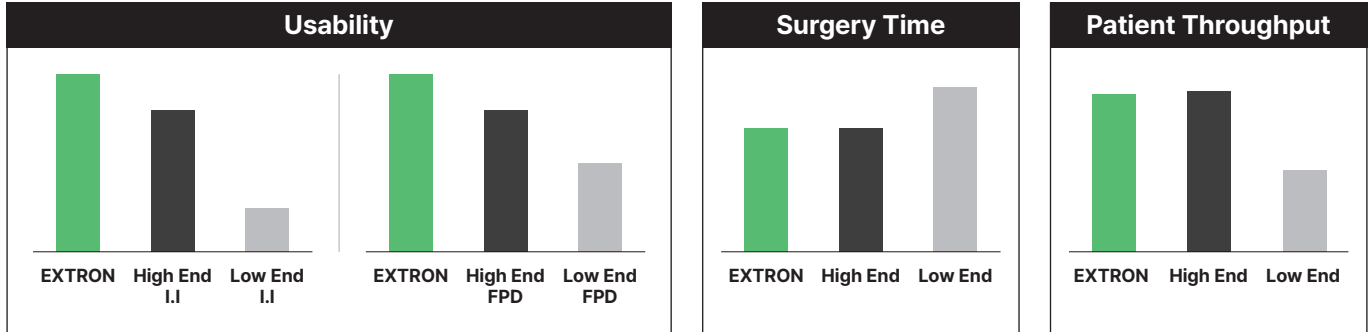


Importance of Dose Awareness!



TRUMotion : Flawless Dynamic Imaging & Performance

With automated functions, minimal manipulation is required during surgery
(Surgery Duration ↓ Risk of Infection ↓)



15.6' Touch Screen OP Console

Real-time image monitoring and system control for smooth operation process.



Auto Drag Collimation

Easily designate any region of the image for collimation by simply touching and dragging the desired location on the OP display.

Wide Free Space & Depth

Wider Free space, Depth and Orbital Rotation for easy patient access.

Smart Memory Position

Stores position values for 4 axis simultaneously along with dose and image processing information for fast work flow and dose reduction.

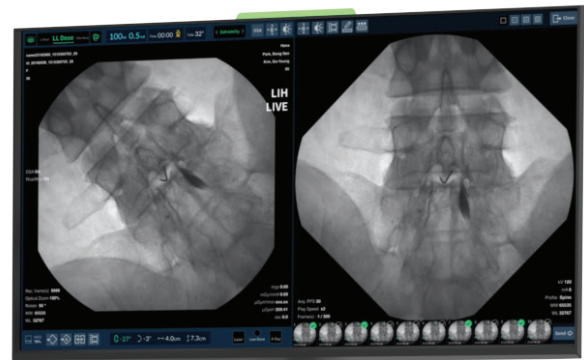
*EXTRON 5 (Option) / EXTRON 7 (Standard)

	Smart Memory Position	Company A	Company B
Position Information	Digitally Recorded	Digitally recorded	Recorded Manually 'stickers'
Parameter Values	Store X-ray conditions and image parameters for each position	-	-
Automatic Parameter Switching	Parameter is automatically switched when the parameter value matches the stored position value	-	-

Dual Hinge Monitor Arm

360° freely movable monitor arm allows doctors to view images from any angle they desire, regardless of their position.

*optional



43", 31.5" Large Monitor

Easy and fast image monitoring with wide display monitor.

*43" (standard), 31.5" (Option)

4-Button Footswitch

Customizable 4-button footswitch, lets users save their favorite functions for easy operation. Available in wired/wireless option.

*optional



Angiography

Faster and Clearer, EXTRON Digital Subtraction Angiography(DSA)

Maximizing procedure and diagnostic efficiency with EXTRON's Digital Subtraction Angiography (DSA).



EXTRON Angiography Benefits:

Minimized Procedure Time and Radiation Exposure with Short Masking Time

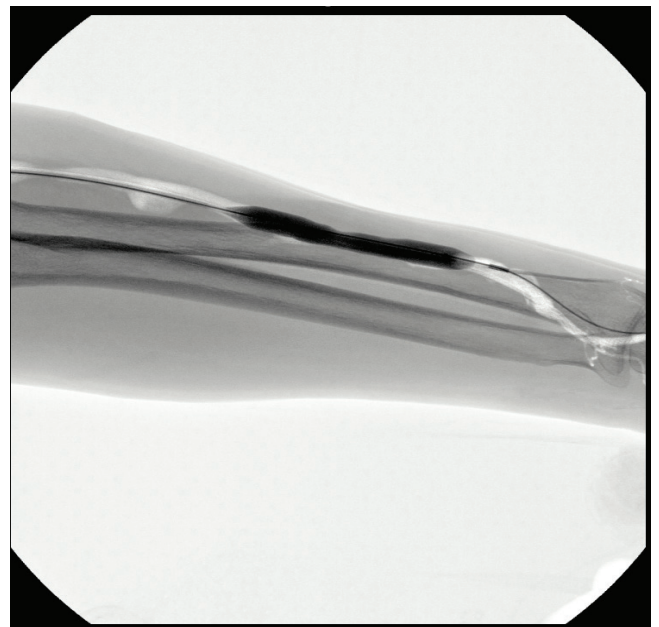
Reduce radiation exposure and further shorten procedure time with a masking time of just 1.3 seconds.

Superior Noise Reduction for Sharper Imaging

With RNR technology, EXTRON reduces noise in static areas, delivering cleaner and more precise images.

Flexible DSA Application Across Various X-ray Modes

Supports Conti 15Frames to clearly observe the smooth flow of contrast agents.



UI Software for Maximized Surgical Workflow



Xconsole

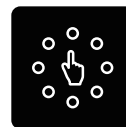
UI Software for EXTRON



Easy Editing Tool



Unlimited Recording



Intuitive Information



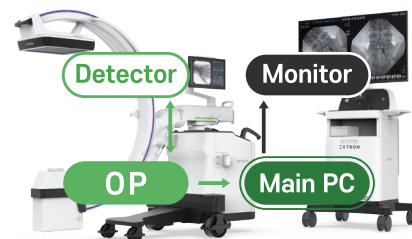
Customizable Setting

Safe EXTRON

EXTRON's Reliable Safety System helping medical staff to focus on their patients

Emergency Fluoroscopy

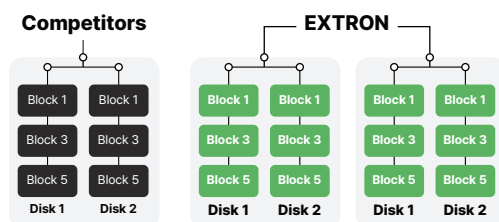
In the event of a main PC failure, the OP console PC takes over the work of the main PC and vice versa. As a result, the surgical procedure can be performed in any environment safely and without any interruptions



Mirroring System

[RAID 1st: EXTRON 7 Standard / EXTRON 5 Option]

EXTRON uses mirrored 4-hard disks in the PC. Even if a hard disk fails suddenly, the surgery can be performed in a stable manner with the help of another mirror hard disk.



Fast & Easy Recovery

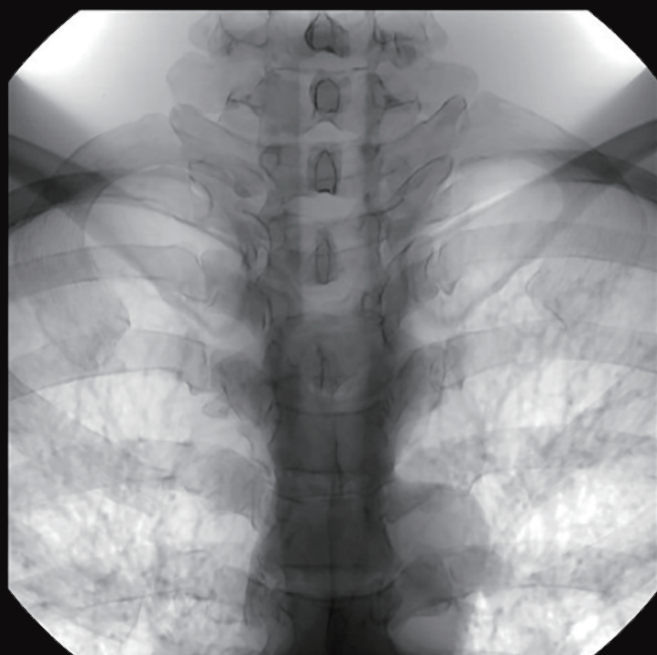
Factory reset can be performed easily and quickly within 7-8 minutes.

Air-Kerma & DAP [Air-Kerma Standard / DAP Option]

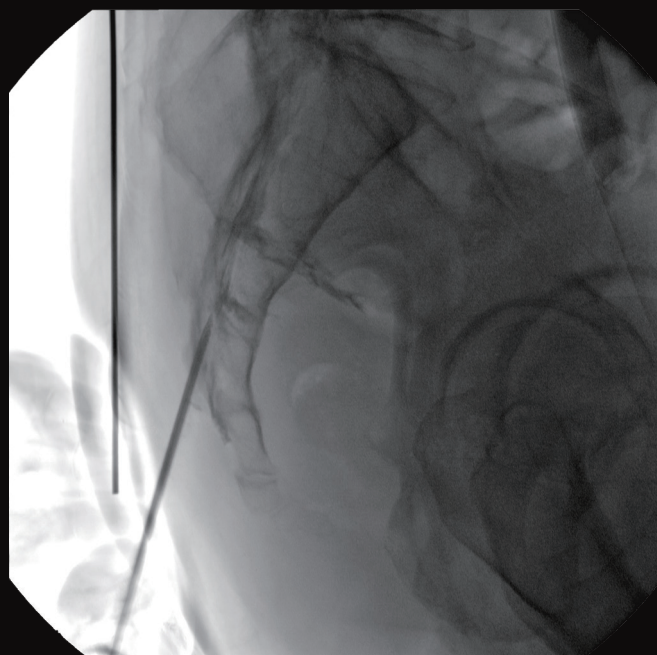
Air-Kerma is installed in EXTRON as a default function. DAP is provided as an option.



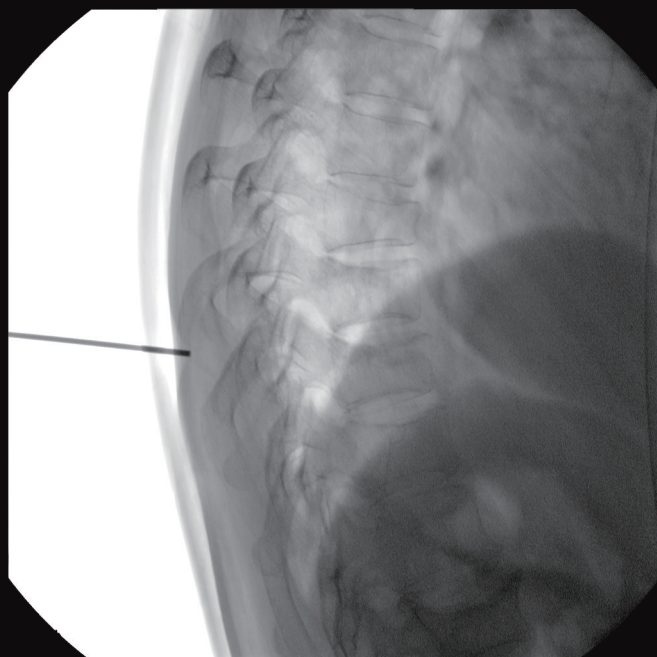
Clinical Images



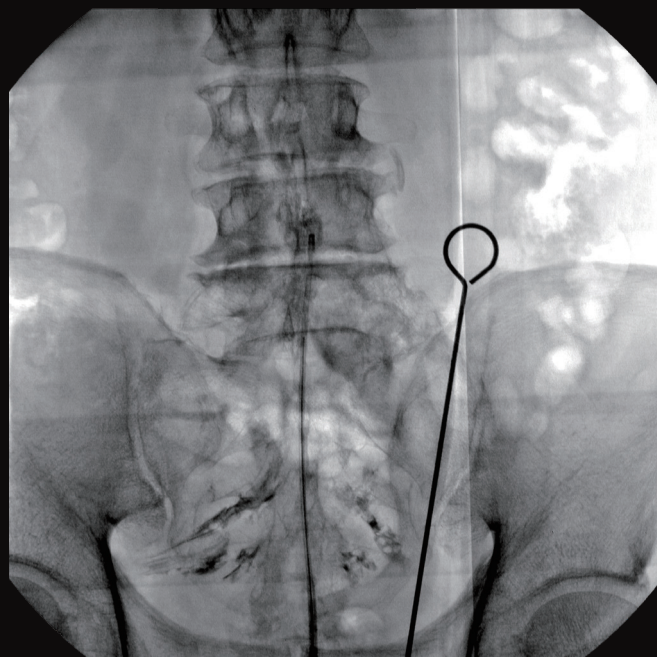
T-Spine AP



Coccyx LAT



T-Spine LAT



L-Spine AP



Ankle AP



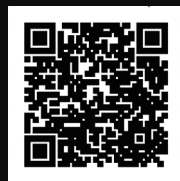
Ankle LAT



Knee



Shoulder



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