



MEDICATECH USA®

Master Fluoro

**Master Fluoro
3**



**Master Fluoro
Omni**

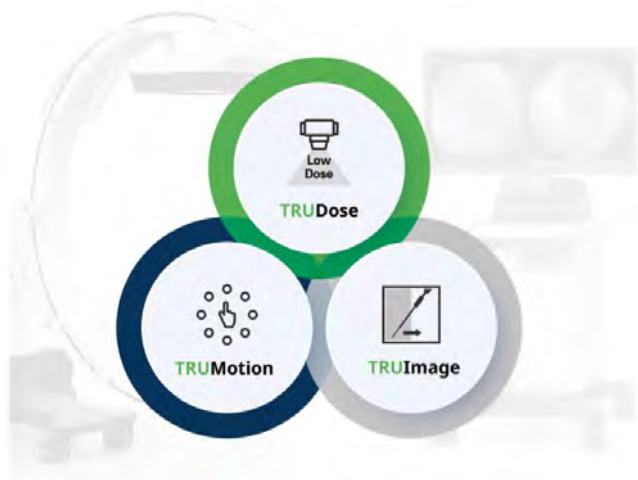


Lowest Dose Compact Surgical Mobile C-arm
Solution for Veterinary



MEDICATECH USA®

Powered by TruDigitalArchitecture



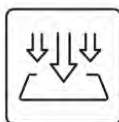
Premium imaging platform TRUDIGITAL Architecture provides flawless low dose imaging to meet the high imaging standards of any challenging surgical procedures. TRUDIGITAL powered by premium grade EXPEED surgical detector and state-of-the-art image processing technology provides faster and more accurate 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



**10
Dose Modes**



**Beam Filter
Technology**



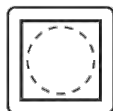
ABC & ABM



RNR
Real-time Noise
Reduction

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**

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



**Large
43" Monitor**



**Touch
OP Console**



**Wide
C-arc**



**Virtual
Collimation**

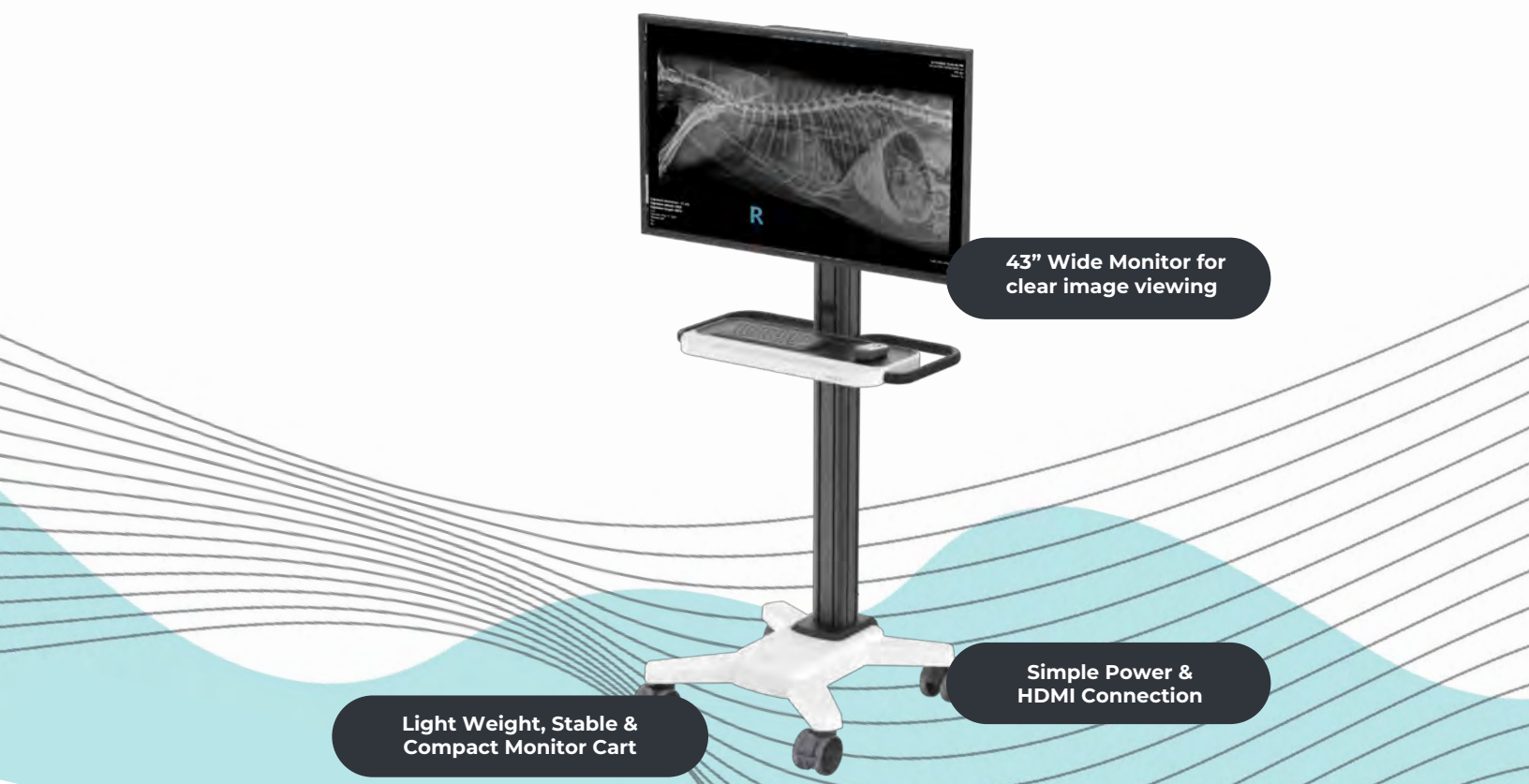
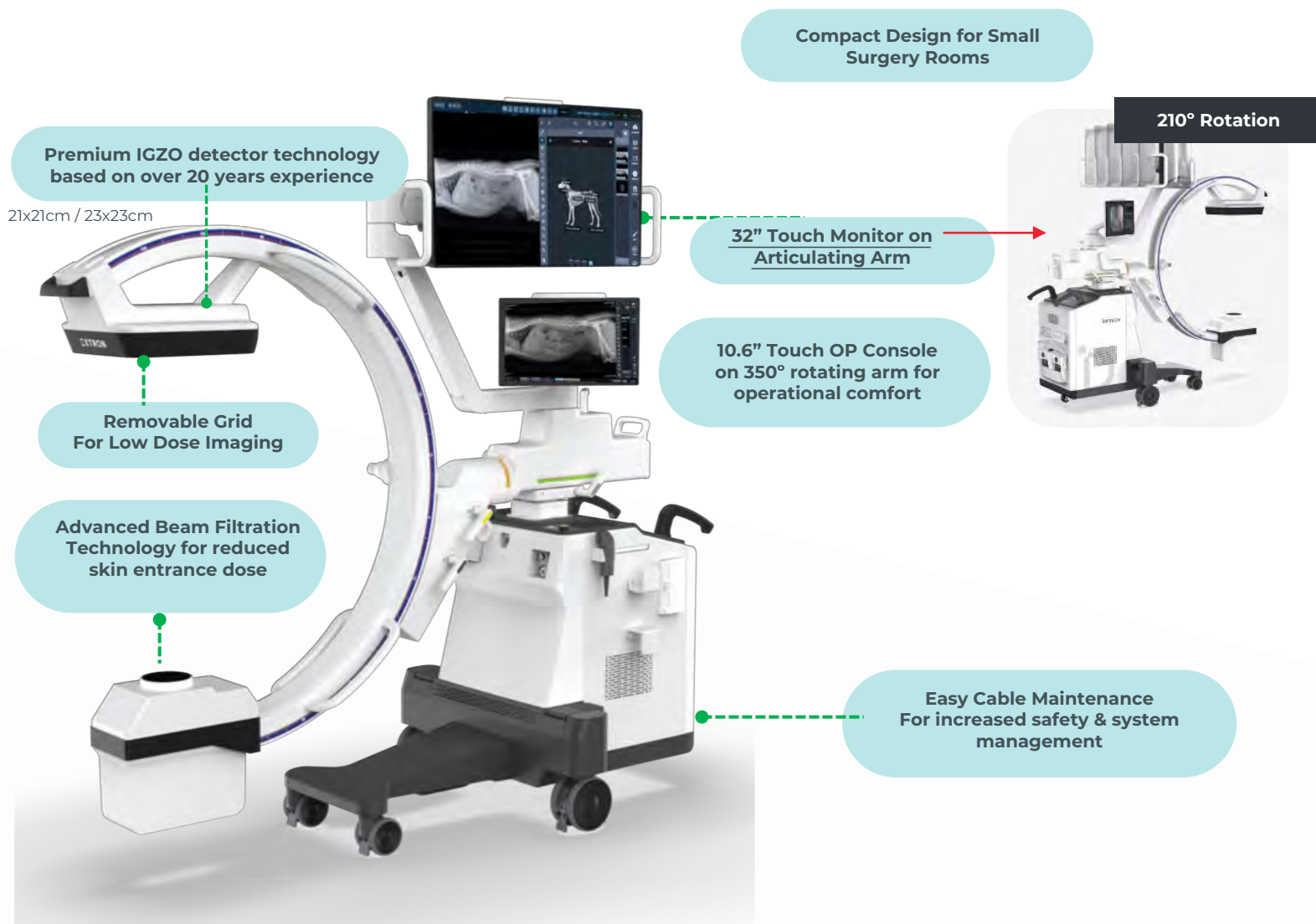


Technical Specification Summary

Detector		IGZO flat-panel detector
		140 μ m(21x21)/ 148 μ m(23x23)
		21cm x 21cm (9" x 9"), 1,500X1,500 23cm x 23cm (9" x 9"), 1,536X1,536
Capacity	Fluro	0.6kW(120kV *5mA)
	Boost	3.3kW(110kV*30mA)
	Radio	5kW (50kV*100mA)
Anode Heat Capacity		74,000 HU
X-ray Tube		Stationary, 0.6/1.2mm
C-arc		1300 ϕ
Immersion Depth		73 cm (28.7")
Free Space		80.3 cm (31.6")
Orbital Movement		165°
Monitor		43": 700cd/m ²
		32" Touch Monitor (Option)
Footswitch		Wired 2 button / Wireless 4 button
Power Consumption		220-240VAC 50/60Hz: 10A (cont.)/ 12A
		110-127VAC 50/60Hz: 16A (cont.) /18A
Weight		Main Body EXTRON 3: 245kg
		Main Body EXTRON 3 Omni: 290kg
		Monitor Cart: 70kg (43" Monitor)



MEDICATECH USA®



Premium Low-Dose Detector Technology



Premium IGZO FPD that delivers clean, noise-free, high-resolution images at low dose



Small pixel size of $140\ \mu\text{m}$ / $148\ \mu\text{m}$ for high-resolution images



Real-time delay-free imaging with fast image transfer speed



Provides wide FOV square images without distortion



Proven durability to maintain high-resolution image quality for long-term use



Premium Low-Dose IGZO Detector

Premium IGZO FPD that delivers clean, noise-free, high-resolution images at low dose



10 times faster electron mobility compared to conventional a-Si

The 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 the lowest dose.

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

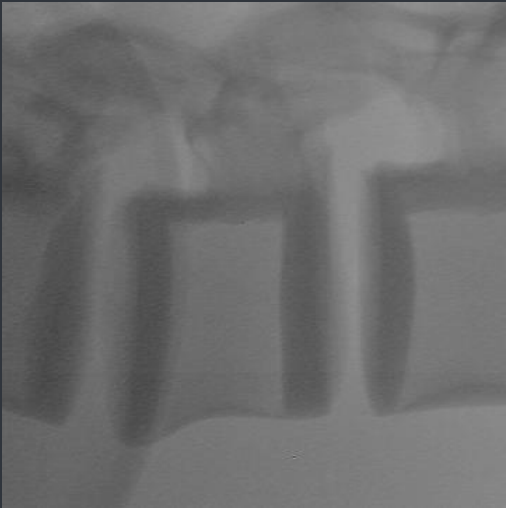


Small Pixel Size For High Resolution Images

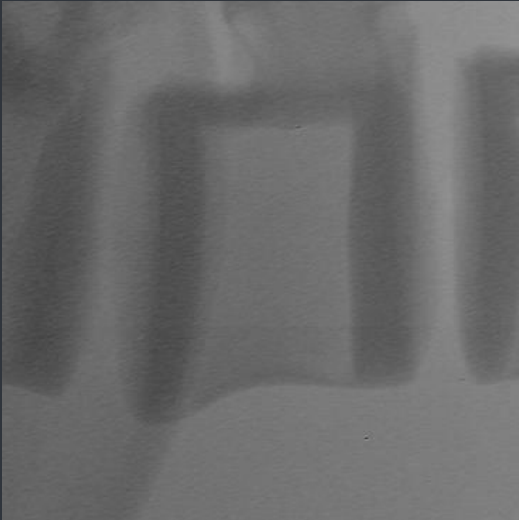
Clear & high -resolution images with
smaller pixel size of
140 μm /148 μm



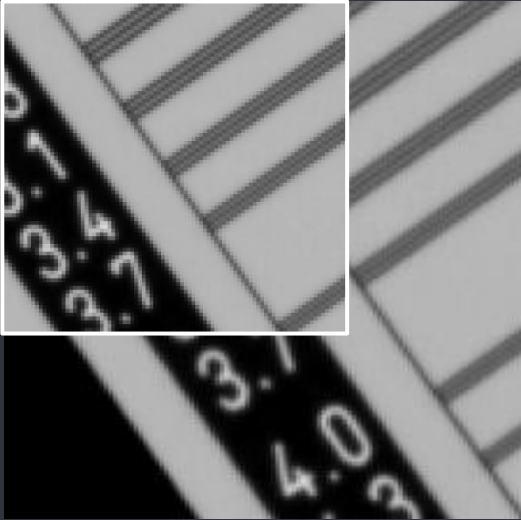
Full size (21x21)



Magnification Mode



Magnification mode 2 size



Spatial Resolution phantom



MEDICATECH USA®

Large Field of View (FOV) without Image Distortion

Improved surgical accuracy with Large FOV without Image distortion

21 X 21cm / 30 x 30cm FPD's Large FOV provides more anatomical information compared to I.I

FPD provides accurate square images without distortion



21x21



23x23

Low Dose Technology



**ABC (Auto Brightness Control)
& ABM (Auto Brightness Memory)**



Easy Grid removal for Dose Reduction



Beam Filtration for Dose Reduction



Dose Comparison : I.I & FPD





ABC (Auto Brightness Control) & ABM (Auto Brightness Memory)

ABC (Auto Brightness Control)

As the object is detected pixel to pixel, **object detection rate is improved drastically.** With this accurate detection method, high quality images are provided within 0.5secs resulting in low dose imaging.

ABM (Auto Brightness Memory)

By storing and fixing the brightness (dose data) for each position, the brightness can be maintained even when the exposure condition is reduced, resulting in **Dose reduction of up to 25%.**

It offers a variety of Dose modes for optimal low - dose imaging

*Specification may change without notice

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

Dynamic Pulse Low Dose Mode

The System detects object motion in realtime and applies the most optimized pulse rate for best image quality and dose.

If motion is sensed, It automatically increases the pulse rate for high image quality and decreases the pulse rate when there is no motion to minimize the dose exposure.



MEDICATECH USA®

Grid Removal & Beam Filtration

Easy Removable Grid for Dose Reduction



Obtaining low-dose images is simple, easy grid removal. Remove the grid quickly to lower the dose for pediatric imaging or surgeries where dose reduction is necessary.

Improved beam-quality and reduced dose-exposure by Beam Filtration



Image Processing Technology



RNR, Real-time Noise Reduction Imaging Technology

Real-time motion & non-motion region analysis enables optimal image processing and delivers high-quality low noise images of up to 30% higher SNR compared to competitors



Maintain brightness when inserting surgical tools with Metal Detection technology



Needle Enhancement

Needle Enhancement technology prevents the disappearance of the needle even under high-dose conditions, enabling safe surgery.



Image Quality





MEDICATECH USA®



T. +1 800-817-5030

T. +1 949-679-2881

F. +1 949-679-2882



www.medicattechusa.com



info@medicatechusa.com

Proudly Made in the USA