REVEAL™ 35C
FLAT PANEL DETECTOR

KA IMAGING™

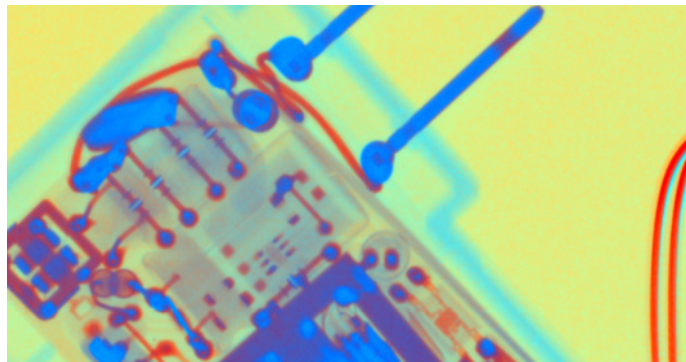# WELCOME INNOVATION AND EXPLORE FURTHER

Be ready for the world's first portable dual-energy / multi-energy X-ray detector. KA Imaging's Reveal™ 35C provides better images than the current options on the market, excelling at applications involving metal and plastic separation, hidden defects detection and hidden compartment screening.

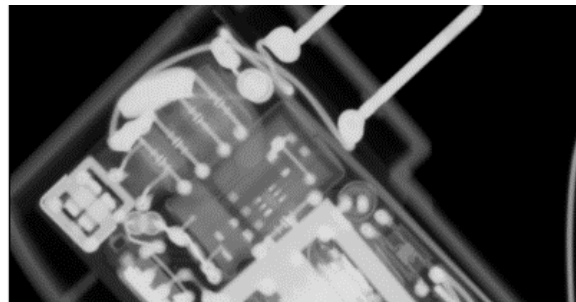# EXCLUSIVE TECHNOLOGY FOR A UNIQUE AND COST-EFFECTIVE SOLUTION

Using a single exposure with a conventional X-ray source, Reveal™ is capable of generating three types of images: traditional DR, low-density and high-density materials. This single exposure eliminates the motion artifact problem observed in traditional dual-energy systems that require two exposures. The detector's unique energy features can be customized simply through software settings to distinguish various types of high and low-density materials.

Reveal™ comes in a standard ISO 4090 35 cm x 43 cm size, which can be retrofitted onto existing systems.

Reveal™ is capable of performing in a multitude of environments. The tethered configuration provides rapid data transfer, and its wireless capabilities deliver flexibility and increased reach. The portability and wireless capabilities of the X-ray device makes it ideal for both fixed and mobile applications.

The above photo displays an image of an AC power adaptor taken by **KA Imaging's** Reveal™. Notice the material-based colorization.

The above photo is a comparison photo taken with a regular X-ray detector.

TECHNICAL
SPECIFICATIONS

System	KA Imaging Reveal 35C Flat Panel Detector
Detector Size	14 x 17 inch/35 x 43 cm (ISO 4090)
Pixel Pitch	140 µm
Sensor Type	Amorphous Silicon
Scintillator	CsI
Communication	Wireless or gigabit ethernet
Trigger	Lossless AED
Power	Battery and/or tethered AC 100-240 VAC/50-60 Hz
A/D Conversion	16 bits
Cycle Time	Typ. 20 seconds
Preview Time	Typ. 7 seconds
Software	SDK available for system integration
Energy Range	40 ~ 150 keV*

System	KA Imaging Reveal 35C Flat Panel Detector		
Dose Efficiency and Resolution**	lp/mm	DQE	MTF
	0	75%	N/A
	1	67%	64%
	2	53%	35%
	3	34%	18%
	Nyquist	21%	13%
Dose Range**	Saturation Dose		140 µGy
	Maximum Linear Dose		120 µGy
	Noise Equivalent Dose		80 nGy

Advanced Material Separation

Portable and retrofittable

Wireless capabilities

1 **Single exposure, no motion artifact**

Hot swappable battery

Automatic Exposure Detection (AED)

*Higher energy supported on request
**Measured at RQA5

About KA imaging

KA Imaging was founded in 2015 as a University of Waterloo spin-off. The company has successfully developed a line of innovative x-ray imaging products in the areas of micro-computed tomography, high efficiency x-ray area detection and multi-energy spectral separation detection. KA is proud to strive to understand the needs of its customers, ensuring to stay ahead of the innovation curve.

KA IMAGING™

Reveal 35C NDT 2023.1