Scansilc

Flat Panel Portable X-ray Systems

Scansilc is a range of high performance flat panel portable X-ray systems offering high definition image quality for multiple defense and security field applications including IED search and investigation, unattended baggage checks, vehicle inspection cell searches and for detecting weapons and contraband material. Scansilc systems also have applications within the fields of forensics and counter surveillance (TSCM).

The flat slimline panel design allows operators to carry out X-ray work in difficult to access areas, while the different image panel sizes provide options for lightweight back-packable systems for rapid deployment tasks and larger image panels for screening larger objects such as unattended bags.

Scansilc imaging systems utilize proprietary Scanview EOD X-ray acquisition and image enhancement software and is suitable for users requiring an advanced X-ray screening solution with high definition images in the fields of defense, security and NDT. Images and specific regions of interest can be manipulated within Scanview software and stored within a searchable database for evidential purposes or exported for report writing.

Scanview software is available in different languages including Arabic. In addition, the Scansilc system can be easily modified to incorporate a dual energy capability. Using this functionality allows operators to create an X-ray image and also determine whether organic material such as explosives.

FEATURES

High Dynamic Range
Scansilc high performance, high resolution flatpanel X-ray imagers feature a 14 bit dynamic rangeto produce clear, sharp digital images in seconds.

High Sensitivity
Scansilc flat panels are highly sensitive and allow deeper penetration through brick, concrete and steel than conventional X-ray systems.

Battery Operation
Scansilc systems are fully portable and all components can operate independently using the battery for up to 5 hours without any reliance on mains power or powered cables during operations. The charging system is integrated within the system case allowing simultaneous charging of all system components.

Range of Imager Sizes
Scansilc panels are available in three standard sizes: a compact 20 x 25 cm, 30 x 40 cm and a larger 43 x 36 cm size for X-raying larger objects such as hand luggage in a single shot. Custom sizes, backpack and transit case options are available for specific user applications.

Safe
X-ray acquisition is controlled from a safe distance using the system's Scanview software. Multiple X-rays of varying exposure times can be taken in seconds without the need to reapproach the target.

Ruggedised design
Scansilc X-ray imagers are specifically designed for easy handling in difficult to reach areas and special protective imager covers provide additional strength and durability for challenging defense and security environments and in harsh climates.

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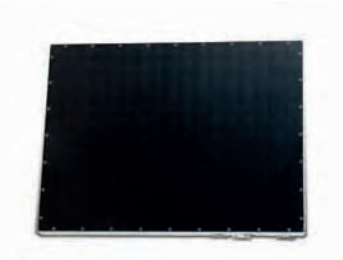
Technical Specifications - Imaging Panels

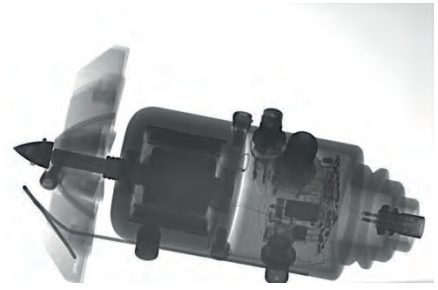


	Scansilc 2520	Scansilc 4030	Scansilc 4336
Image Area Format:	25 x 20 cm	30 x 40 cm	43 x 36 cm
Active Imaging Area:	179mm x 238mm	291mm x 405 mm	424mm x 353mm
Imager Size:	400 x 235 x 25.7mm	450 x 337 x 34mm	492 x 475 x 23 mm
Imager Weight:	3.3 kgs	7.5 kgs	5.5 kgs
Dynamic Range:	14 bits	14 bits	14 bits
Resolution:	3.94 lp/mm	3.94 lp/mm	3.6 lp/mm
Pixel Pitch:	127 microns	127 microns	139 microns
Receptor:	Amorphous Silicon	Amorphous Silicon	Amorphous Silicon
Housing:	Aluminum with carbon fiber Aluminum sensor protection	Aluminum with carbon fiber Aluminum sensor protection	Molded polycarbonate

Interface Control Box	
Dimensions:	255(l) x 90(w) 190(h) mm
Weight:	3.8kgs

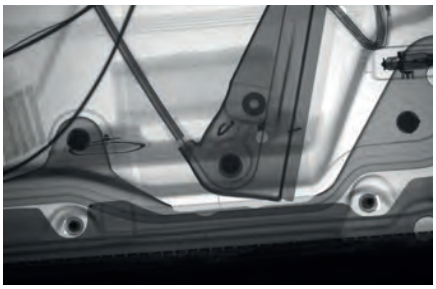
Weapons Inspection

EOD Tasks

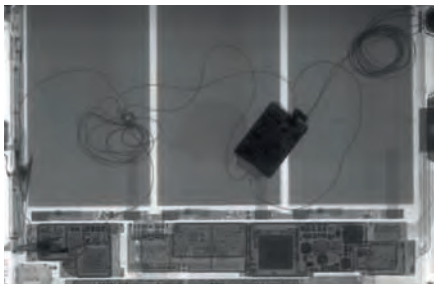


IED Identification

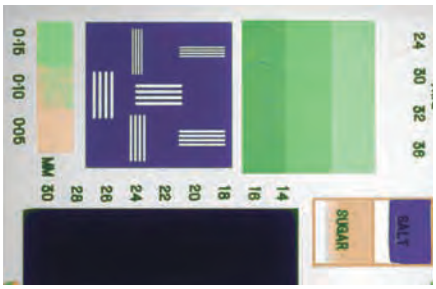
Customs Vehicle Inspection



Forensics



Dual Energy Material Discrimination



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Technical Specifications - Portable X-ray Generators

X-Ray Generator Options

XR200 Standard Generator	
Applications:	Police, General Security, Postal Blast Investigation
Penetration:	15mm steel
Pulses per charge:	4,000
Dimensions:	31.75 (l) x 11.5 (w) x 19 (h) cm
Weight:	5.5kgs with battery

XR150 Lightweight Generator	
Applications:	Special Forces, Light Duty Applications
Penetration:	15mm steel
Pulses per charge:	1,500
Dimensions:	10.4 (l) x 8 (w) x 27.3 (h) cm
Weight:	2 kgs with battery

XRS-3 Heavy Duty Generator	
Applications:	Miltary, Counter IED, UXO Inspection, TSCM, NDT
Standard Penetration:	26mm steel
Pulses per charge:	4,000
Dimensions:	35.5 (l) x 11.5 (w) x 19 (h) cm
Weight:	5.5kgs with battery

Laptop Options

- Scantrak is supplied with a high performance laptop running Windows 7 Professional 32 bit. Minimum spec: Intel Dual Core Processor, 500 GB Hard Drive, 4 Gb Memory.
- Other brand name variants and ruggedized MilSpec models with foreign keyboard and OS options are available.
- Wireless option (802.11G)

Options

- Wireless Image Transmission 802.11g
- Wireless X-ray Trigger
- 50/100/150 m Cable Extensions
- Custom Cases and Backpackable Systems
- Foreign Language Software
- ROV Robot Integration
- Imager and Generator Tripod Mounts
- External Camera

Scanview X-ray Imaging Software Features:

- X-ray Generator selection
- X-ray pulse setting
- X-ray pulse Activation
- X-ray Firing Delay
- Password Controlled Safety Timeout
- Accumulation of Pulses (Summing)
- Audible and Visual Warning during X-ray activation
- Incident Reference Creation
- Visual database o_ X-ray images including name, date, category, place, file name
- Ability to back up database
- Query and Sort in database
- Compact Database
- Digital Zoom
- Vocal annotation
- Email option
- Battery Monitor
- User login
- Print
- Fax
- On-Screen Help
- Multiple Zoom including zoom thumbnail window
- Zoom to region of_ interest
- Inverse (polarity) image
- Pseudo Color Images
- 3D (Emboss) Image
- Sharpening
- Smoothing
- Edge Enhancement, Find Edges
- Clean
- Brightness and Contrast
- Gamma Correction/Stretch
- Import/Export Images
- Shaped Regions
- Select Region
- Annotate Images, Save Annotations
- Sub-image
- Rotate, Flip and Mirror image
- Histogram Equalization
- Histocontrast
- Overlay
- Copy/paste
- Multiple Undo, Image Restore
- Measure (multiple units)
- Calibrate measurements
- Summing
- Image Stitching and Cropping
- Grid Overlay
- Save to windows image formats
- Foreign language options

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