



## SCANNACR35+

Digital Image Plate Portable X-ray System

**WITHOUT  
COMPROMISE**

Cutting edge screening and  
detection solutions.

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# WITHOUT COMPROMISE

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## CR X-ray system with flexible film

**Scanna CR35+** is the latest generation digital X-ray system combining high sensitivity flexible film plates and a forensic standard X-ray image plate reader with inbuilt mini screen for fast image capture across a broad spectrum of defence and security applications.

The X-ray image plates are thin and flexible for easy access into confined areas and for wrapping around objects of interest. Unlike electronic DR imagers, CR image plates are totally flexible and do not require any cables or batteries. The image plates are available in a range of sizes and can be used individually or mounted in multiple combinations to check larger objects.

Plates can be used over 1000 times and can be erased during the scanning process to allow immediate reuse.

The CR35+ Image Plate Reader scans the plates in as little as 35 seconds and produces ultra high resolution X-ray images either on its inbuilt 4" screen or in a larger format on a laptop. Its ability to reveal fine wire and electronic component detail in seconds makes it an invaluable system for those needing to make fast accurate decisions in the field and equally for lab-based forensic and analytical tasks.



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## Features and Benefits

### High Resolution Images

CR35+ uses high sensitivity flexible plates that produce 10 lp/mm, 50 micron images. The X-ray exposure time required is ten times less than needed with polaroid film.

### No reliance on laptop

Scanna CR35+ has an integrated 4" touchscreen for fast X-ray image acquisition and viewing without reliance on a connecting laptop. Image options include black and white images, negative and zoom. Images can be viewed on and offline and communicated with other users for in-depth analysis via a removable SD card, Ethernet cable or by wi-fi connection to an external laptop/PC.

### Fast Set up and X-ray Image Acquisition

Unload and set up the CR35+ system, shoot X-ray images and read them on screen in less than 2 minutes start to finish.

### Easy Slide through scanning

Unlike some X-ray image plate processors, CR35+ has no fixed image plate size, no clips, no carousel and can be used whilst wearing gloves.

### Range of Image Plate Sizes

CR X-ray Image Plates are available in a range of sizes: from compact 18 x 24 cm up to a longer length 35 x 130 cm. All plates can be used in multiple combinations with the Flexray Mounting System for checking longer and larger objects, such as a car door in a single X-ray shot.

### Meets the needs of tough environments.

CR X-ray Image Plates are easy to handle and deploy. They are lightweight and flexible and suitable for use in the most challenging Defence and Security Tasks including EOD, Search and Detailed Forensic Investigation. The image plates are stand alone - no cables and no power required for use.

### Reduced Film Costs

The use of Digital Film is cost effective and has low consumable costs compared with other film options. It also allows operators to store and manage X-ray images in a database for improved and easier report writing and evidential record keeping.

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## Technical Specifications - Image Processor and Image Plates

### CR35+ Processor



<b>Dimensions:</b>	37 (w) x 47 (l) x 40 (h) cm	<b>Laser Class:</b>	1, [EN60950-1:1994-03+2002-7=A2: 2001-03] + CFR 1040.10
<b>Weight:</b>	17.5 kgs	<b>Data:</b>	Ethernet, W-LAN or SD Card
<b>Resolution:</b>	10 lp/mm	<b>Power:</b>	Mains or Optional Lithium Ion Battery Pack
<b>Pixel Pitch:</b>	200-50 microns	<b>Storage:</b>	SDHC, max 32 GB
<b>Screen Size:</b>	4" TFT, 800 x 480 px		

### X-ray Image Plates



<b>Standard Sizes:</b>	<ul style="list-style-type: none"> <li>Standard: 20 x 25 cm [8 x 10"]</li> <li>Medium: 30 x 40 cm [11 x 15"]</li> <li>Large: 35 x 43 cm [14 x 17"]</li> </ul>	<b>Plate Accessories:</b>	<ul style="list-style-type: none"> <li>Flexible Cassettes</li> <li>Protective Covers</li> <li>Rigid Carbon Fibre Cassettes</li> <li>FlexRay Cassettes</li> </ul>
<b>Longer Length:</b>	<ul style="list-style-type: none"> <li>35 x 90 cm [14 x 36"]</li> <li>35 x 130 cm [14 x 51"]</li> <li>Other custom sizes on request</li> </ul>		

### Flexray Image Plate Mounting System



The Flexray Image Plate Mounting system enables the examination of large objects by combining multiple image plates in a variety of configurations. The capability to check large surface areas with a single X-ray shot reduces the time spent in the target area and ultimately time spent on task. Standard size plates can be used to combine from two to nine plates together. Longer length plates can be used in combinations of two or three together enabling over 1m<sup>2</sup> to be checked using a single X-ray exposure.

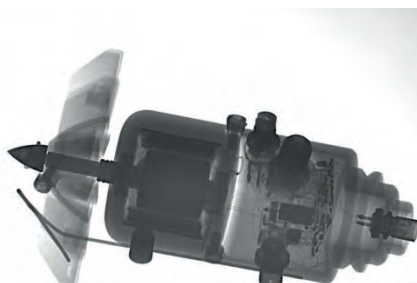
Flexray Image Plate kits includes stiffened canvas image plate cassettes, Velcro fastenings, guy line, eyelets, carabiners and suction cups giving you the flexibility to free stand or hang Image Plates behind the target or to directly attach them to the area of interest.

Technical Details subject to change.

### Firearms Inspection



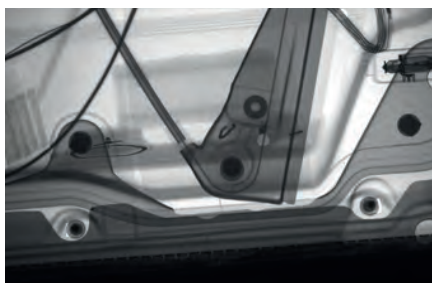
### EOD/CMD Work



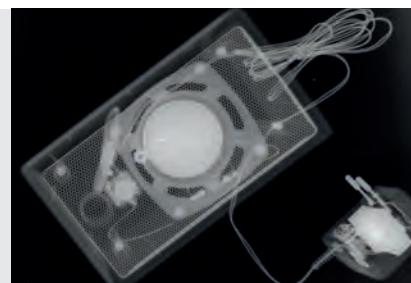
### IED and Weapons Identification



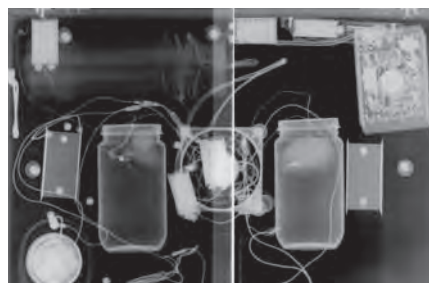
### Customs Vehicle Inspection



### TSCM and Forensics



### Stitch multiple images together



## Technical Specifications - Portable X-ray Generators

### X-Ray Generator Options



#### XR200 Standard Generator

<b>Applications:</b>	Police, General Security, Postal Blast Investigation
<b>Penetration:</b>	15mm steel
<b>Pulses per charge:</b>	4,000
<b>Dimensions:</b>	31.75 [l] x 11.5 [w] x 19 [h] cm
<b>Weight:</b>	5.5kgs with battery



#### XR150 Lightweight Generator

<b>Applications:</b>	Special Forces, Light Duty Applications
<b>Penetration:</b>	15mm steel
<b>Pulses per charge:</b>	1,500
<b>Dimensions:</b>	10.4 [l] x 8 [w] x 27.3 [h] cm
<b>Weight:</b>	2 kgs with battery



#### XRS-3 Heavy Duty Generator

<b>Applications:</b>	Military, Counter IED, UXO Inspection, TSCM, NDT
<b>Standard Penetration:</b>	26mm steel
<b>Pulses per charge:</b>	4,000
<b>Dimensions:</b>	35.5 [l] x 11.5 [w] x 19 [h] cm
<b>Weight:</b>	5.5kgs with battery

### Laptop Options



The Scanna CR35+ 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 ruggedised MilSpec models are available.

### Cases



## Scanview X-ray Imaging Software

### Scanview Features:

- Select Scanning Resolution
- Scan Image
- Erase Image Plate
- Reverse Image Plate
- Brightness and Contrast
- Gamma Correction/Stretch
- Pseudo Colour Images
- Inverse (polarity) image
- Edge Enhancement
- Find Edges
- Smoothing
- Sharpening
- 3D [Emboss]
- Image Rotate
- Flip and Mirror image
- Sub-image
- Summing
- Clean
- Import/Export Images
- Digital Zoom
- Multiple Zoom including Zoom Thumbnail window
- Zoom to Region of Interest
- Grid Overlay
- Image Stitching and Cropping
- Calibrate measurements
- Measure [multiple units]
- Multiple Undo, Image Restore
- Copy/paste
- Overlay
- Histocontrast
- Histogram Equalisation
- Annotate Images
- Save Annotations
- Select Region
- Shaped Regions
- User login
- Save and export images in windows formats - jpg, bmp, tif
- Query and Sort in database
- Ability to back up database including name, date, category
- Battery Monitor
- Email option
- On Screen Help
- Vocal annotation
- Compact Database
- Foreign language options

# Imaging Expertise

**Scanna** has a long track-record of providing high performance X-ray Imaging Equipment to the Defence and Security sector with a deep insight into the challenges faced by our customers.

Scanna X-ray products combine leading-edge, field proven technologies with simple to use functionality, enabling operators to make intelligent decisions in the most challenging field based scenarios. Scanna CR35+ portable X-ray systems with flexible imaging plates deliver industry-leading image quality - an indispensable asset when inspecting IEDs, for weapons intelligence and during TSCM tasks or forensic investigations.

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## Truly Portable

- No laptop required for initial image capture
- Wirefree lightweight (100-200g) digital film
- Plates require no cables, nor battery for X-raying
- Weight of items at Target less than 6 kgs

## High Performance

- High Resolution Imaging
- 10 lp/mm resolution
- 50 micron pixel pitch
- Uncover critical detail in seconds

## User Friendly Flexible System

- Very fast and simple operation from start to finish
- Set up scanner, place, fire, scan and erase image plates in <2 minutes
- Connect multiple plates quickly using Flexray to check larger areas

## Wide Range of Applications

- Designed to perform in tough environments
- Thin Flexible film allows access in confined areas
- Works equally in field and lab based environments
- Operates with pulsed, continuous and Flash X-ray Systems

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