

## Options

Fully secured and encrypted wireless communication between the generator, image capture unit and laptop provides a 50 m / 164 ft line of vision (faster set-up and greater ease of operation).

Image capture unit	Large active window area: 250 x 325 mm / 9.89 x 12.7 in (custom sizes available)
	Overall dimensions: 350 x 450 x 170 mm / 13.7 x 17.7 x 6.7 in
	High performance CCD camera: 768 x 576 pixels, 8 bit resolution
	Operating time: 2h1/2 continuous
	Battery type: 36 V 1200 mAh Ni-Cad (fast charge: 1 h)
	Weight: 9,7 kg / 21.3 lbs
	Easy to handle 50 m / 164 ft communication cable (other lengths available on request)

	Cp120	Cp160
X-ray generator	Wave form: Constant potential	Constant potential
	X-ray dose 1 ft: 1000 $\mu$ Sv/s	4000 $\mu$ Sv/s
	Max. capacity / 1 batt.: 5-6 min cont. X-ray generation (Up to 120 images with 3 seconds exposition)	5-6 min cont. X-ray generation
	Maximum kV: 120 kV (kV adj.: 40 to 120kV)	160kV
	Maximum mA: 1.5mA between 40 and 80kV 1mA between 81kV and 120kV (mA adj.: 0.1 to 1.5mA)	0.5mA
	Exposure time: adjustable from 1s to 99s	adjustable from 1s to 99s
	Pre-warning time: adjustable from 0s to 99s	adjustable from 0s to 99s
	Steel penetration: 12mm / 0.47 inch (Distance between x-ray source and image capt. Unit: 15cm / 5.9in)	21mm / 0.83 inch
	Focal spot size: 0,25x0,50mm/0.0098x0.0197in	0,20x0,40mm/0.0079x0.0157in
	Tube life: Unlimited	Unlimited
	2 batteries (1spare): 36V 600mAh NiCd	36V 600mAh NiCd
	Weight: 6,5kg / 14.3lbs	7kg / 15.4lbs
	Beam angle: 60°x52°	60°x40°

X-Spector software	Sort and file management (storage on CD or hard disk)
	Reverse black & white
	Pseudo 3D
	Pseudo colour (colour map fully configurable by the user)
	Zoom (window selection)
	Contrast stretch
	4 successive image captures for time resolved studies
	4 successive image captures at different X-ray voltages
	Annotation tools
	kV, mA and exposure time of the CP1201 can be adjusted directly from the laptop

Fast battery charger	1 h charge
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Communication cable	50 m / 164 ft (with optional country-specific power network cabling)
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Carrying cases	670 x 560 x 220 mm / 26.3 x 22 x 8.66 in and 450 x 450 x 290 mm / 17.7 x 17.7 x 11.4 in
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# X-SPECTOR

The revolutionary portable X-ray solution to improve threat identification!

- Explosive Ordnance Disposal
- Customs, Police
- Counter Surveillance
- Non Destructive Testing

Battery powered constant potential x-ray generator

KV & mA outputs selectable from the laptop

4 images at 4 different penetration levels





## X-SPECTOR

ICM has developed the X-Spector, a state-of-the-art, fully digital X-ray system that combines an exceptional **CONSTANT POTENTIAL** X-ray source with a hi-tech, laptop extendable, image capture unit. Not only does the X-Spector set a new standard for image quality, it also provides EOD technicians, customs, police, the army and other law enforcement agents with all the features necessary to respond more efficiently, more quickly and more safely to incidents that threaten the security of innocent citizens.

- NDT inspection
- Bomb detection
- Drug search
- Customs control
- Fully battery operated, small and light
- Amazing flexibility with Crisp image
- Ultra light constant potential X-ray set
- No X-ray tube replacement needed
- kV and mA outputs selectable from PC
- Mini focal spot, wide angle beam
- Multi energy multi images
- Powerful database management tools
- Optional wireless communication



## Image Capture Unit (ICU)

The X-Spector image capture unit is PC based and contains a web browser as well as powerful software for image processing. All images are transferred to a laptop at a very fast rate thanks to the Intranet communication system, optionally, wireless. This enables the connection to any kind of laptop without additional software. The image quality is maximised by the use of a high resolution fluoroscopic capture screen and a camera with matched spectral output and response characteristics. The unit is powered by a Ni-Cad battery, which recharges in less than one hour.



## X-ray generator

Our Constant Potential Generators are the most advanced battery powered portable X-ray generator available on the market. Powered by a 36Vdc battery, its constant potential output produces a stable, penetrating and contrast-rich beam. The mini focal spot makes up to 5 times magnification possible without loss of image sharpness. Because the kV and mA of the Constant Potential series can be regulated, the right quality of X-rays and the correct dose can be selected to suit each, individual suspect item. Furthermore, it is possible to take automatically successive shots at different settings for progressive penetration depth studies in a 4 images displayed screen with individual image processing facilities. The wide beam angle allows the generator to be placed very close (32 cm / 12½ in) to the image capture unit, thereby increasing the effective penetration capability of the System as a whole.



## Laptop specification

The modular design concept of the X-Spector offers buyers a significant cost saving. Because the image capture unit communicates data using the universal web browser protocol (http), images can be viewed on any up-to-date laptop. The minimum requirements are:

- ▶ Laptop with 14.1" screen (35.8cm)
- ▶ Windows XP
- ▶ 100Mb Ethernet network card
- ▶ 256k RAM
- ▶ CD writer

Should no suitable laptop be available, ICM is, of course, able to supply one that meets the above specification.

## Software

The operator can select all the following processing operations: reverse black & white, pseudo 3D, pseudo colour, zoom, contrast stretch, annotation tools and most usefully, to take automatically 4 successive image captures at different X-ray voltages for progressive depth penetration and / or time resolved studies. Thanks to the Intranet communication, the interface can be any web browser: Mozilla Netscape Internet Explorer 6.0 ... By developing their own secured internet connection, users can also send IN REAL TIME images and other information to distantly located colleagues.

## Fast battery charger

The fast battery charger charges one battery in 1 hour, optimizes the charge, protects the batteries and extends their lifetime.

## Carrying cases

2 very light, robust, easily carried, reinforced aluminium cases