

FLATSCAN30®

E.O.D. MOBILE SCANNER IS NOW A MATURE TECHNOLOGY...

The second generation of the E.O.D. scanner has its performances boosted by the latest state of the art technologies.

FASTER:

- 3" BOOTING TIME
- 5" IMAGE CAPTURE
- 1 CLICK POST PROCESS

MORE SECURE:

- 1 APPROACH SYSTEM
- PRATICALLY DEAD ZONE FREE
- NO RF EMISSION (OPTION)

MORE ENHANCED FEATURES...

- 30" IMAGE AREA
- 3 EDGES
- EXTRA-LONG LIFE BATTERY

SECOND GENERATION

FLATSCAN30 is the second generation of ICM's highly innovative flat and portable photodiodes scanner system. As a result of improving the majority of its characteristics, the **FLATSCAN**30 is capable of identifying any threat both faster and in a more secure manner than ever. With 50% more photodiodes and an ultrafast FPGA micro-controller technology, the new **FLATSCAN**30 has a better image, is easier to use and is more reliable in harsh RF environment.

LARGER ACTIVE AREA, SMALLER OVERALL SIZES

Within even smaller sizes than first generation, its active zone has been increased to 30" diagonal enabling inspections in just one scan and avoiding the operator to expose himself to threat a second time. Furthermore, the **FLATSCAN**30 is now an exclusive "3-Edge" system allowing objects to be fully scanned up to the extremity of the 3 **FLATSCAN**30 edges.

MATERIAL DISCRIMINATION

As a hardware and software option, the **FLATSCAN**30 differentiates organic and non-organic material in as fast as 5 seconds capture.

SEVERAL HUNDREDS SHOTS WITH A SINGLE BATTERY CHARGE

By using the very latest "free of memory effect" nanophosphate battery technology, the **FLATSCAN**30 can be used for hours and captures 500 images before it requires a new charge. Furthermore, to avoid unexpected disruption, the state of the battery is displayed in remaining hours onto the PC software.

EXTENDED LIFETIME

The **FLATSCAN**30 has 768 units of 800 µm photodiodes (1,536 units of 400 µm optional), which are mounted on 12 chips. In case of dead pixel, every chip can be individually, simply and inexpensively replaced instead of being obliged to scratch the whole equipment as it is the case with 2D flat panels.

INNOVATIVE SOFTWARE FEATURES

The user-friendly multilingual interface allows the operator to take and process his first pictures after just a few minutes training. The thumbnails bar is particularly helpful to visualize the different images taken during the operation. Moreover, the database-oriented storage system makes it possible to annotate, store, classify and retrieve images in a very intuitive way.











FLATSCAN30® technical specifications:

FLATSCAN30	
Sensor type	Linear diode array
Resolution	40 AWG / 1.8 lp/mm
Pixel size	800 μm (400 optional)
Dynamic range (Grey levels)	14 bit (16,384)
Active area	614 (W) x 460 (H) mm² / 24 (W) x 18 (H) in / 30 in diagonal
Maximum penetration ¹	25 mm of steel (guaranteed with CP120B) / 29 mm of steel (typical with CP120B)
	30 mm of steel (guaranteed with CP160B) / 34 mm of steel (typical with CP160B)
Number of "covered sides"	3 (Left, right and bottom)
Uncovered active area	5 mm (from bottom) / 7 mm (from sides)
Booting time	3 sec
Image acquisition time: min/max	5 / 275 sec
Battery life	4 h (standby mode, no RF) > 500 images (5s, no RF)
External dimensions	628 x 642 x 42 mm³ / 24.7 x 25.2 x 1.65 in³
Weight	9.5 kg / 20.9 lbs
Operating temperature	-10 to +50 °C / +14 to +122 °F
Storage temperature	-10 to +70 °C / +14 to +158 °F
Communication protocols	Bluetooth / Wi-Fi 802.11n (cable optional for zero RF radiation)

CP120B & CP160B	CP 120B	CP 160B
Waveform	Constant potential	Constant potential
Maximum kV	120 kV (kV adj.: 40 to 120 kV)	160 kV (kV adj.: 40 to 160 kV)
Maximum mA	1.0 mA	0.5 mA
Exposure time	adjustable from 1 s. to 300 s.	adjustable from 1 s. to 300 s.
Pre-warning time	adjustable from 0 s. to 99 s.	adjustable from 0 s. to 99 s.
Focal spot sizes	$0.8 \times 0.5 \text{ mm}^2 / 0.031 \times 0.019 \text{ in.}^2$	0.8 x 0.7 mm ² / 0.031 x 0.027 in.
Beam angle	50° x 50°	60° x 60°
Tube life	> 10 years of daily use	> 10 years of daily use
Leakage dose at 1m	1250 µSv/h	2000 µSv/h
1 battery (Li-Ion)	37 V 1400 mAh	37 V 1400 mAh
Max. capacity / 1 battery ²	14 min cont. X-ray generation	14 min cont. X-ray generation
Charger type	Intelligent fast battery charger	Intelligent fast battery charger
Charging time	Th	Th .
Weight (including battery)	7 kg / 15.3 lbs	9.2 kg / 20.1 lbs

¹Distance between x-ray source and image capt. unit: 15 cm ² Equivalent to 200 images

Tel: +32 (0) 87 / 440 150 Fax: +32 (0) 87 / 440 160 E-mail: sales@icmxray.com

Imaging Station (PC)

HDD	Ram	Screen	Processor	Туре	
320 GB - 7200 RPM	4GB 1333MHz	15.6" High Definition	Intel Core -i5 2520M (2.5GHz Dual-Core)	Notebook LATITUDE E6520	

Carrying Cases Type

Flycase for detector air transport	Backpack for detector daily use	IP66 Hermetic case for X-Ray source & accessories
800 x 750 x 190 mm³ / 31.5 x 29.5 x 7.5 in.³	750 x 650 x 100 mm ³ / 29.5 x 25.6 x 3.9 in. ³	830 x 550 x 310 mm ³ / 32.7 x 21.6 x 12.2 in. ³

Options

External camera	Tripods and stands	Materials separation software	Hermetic envelope for the detector that is being used	Personal dosimeters	30 m ON/OFF cable for the use of PF Films	Process Free Films (8"x10", 10"x12" or customized sizes)	200 m fibre optical cable for zero RF emission	50 m or 100 m Ethernet cable for zero RF emission	Spare batteries for the detector or X-ray source	Wireless repeaters
-----------------	--------------------	-------------------------------	---	---------------------	---	--	--	---	--	--------------------

Software Features

Materials discrimination (optional)	X-Ray source parameters adjustable (kV, mA and time)	Low battery alarm	Histogram	Deep focus	Pseudo colour	Reverse black and white	Pan, Zoom, Distances Measurement	



