

NEOS III

Logos Imaging's NEOS III is our latest small format DR imaging system specifically designed to withstand the rigors of harsh environments. The imager housing is cast Mg and includes shielding to allow use with higher X-ray energies. The design of the NEOS III provides shock, vibration, and water ingress protection giving users unparalleled confidence in the system's performance wherever the job site is located. The system also offers the advantages of built in wireless communications and a removable battery that provides two hours of operation for situations where ultra-portability and short-range communications are desirable.



NEOS III DR System

Ideally suited for dismounted operations, the NEOS III is the lightest DR system provided by Logos Imaging. With a built in battery and internal wireless communication, the NEOS III is perfect for users that want to quickly assess an item. At 3.3 kg and only 18 mm thin, the NEOS III can be easily transported on target with minimal effort. The NEOS III produces high resolution 16-bit images and is shielded for up to 330 kV sources.

In environments where wireless communication is acceptable, the entire imaging system consists of only a flat panel detector, an operating PC, LIA Security software, and carrying case. In full wireless mode, the NEOS III can operate for up to two hours on a single battery charge. The system includes two batteries for a total of up to four hours of operation on a single battery charge (additional batteries can be purchased to extend run time).

Batteries are easily changed in the field and are charged with the supplied dual battery charger.

With a wireless range of 50 m* using only the PC or tablet internal wireless card, users can work safely in almost any environment. When longer battery life and extended wireless range or wired operation are required, the ASÝRMATOS II interface provides up to seven hours of additional battery life (the system can also be operated continuously when main power is available at the PC workstation), and 400 m* wireless range or up to 200 m wired range.

* Line of Sight

Features

- *Wired and Wireless Panel Operation*
- *8 mm Bottom Border*
- *High Resolution and Sensitivity, 127 μ m Pixel Size, 3.9 lp/mm*
- *Multiple Scintillator Options*

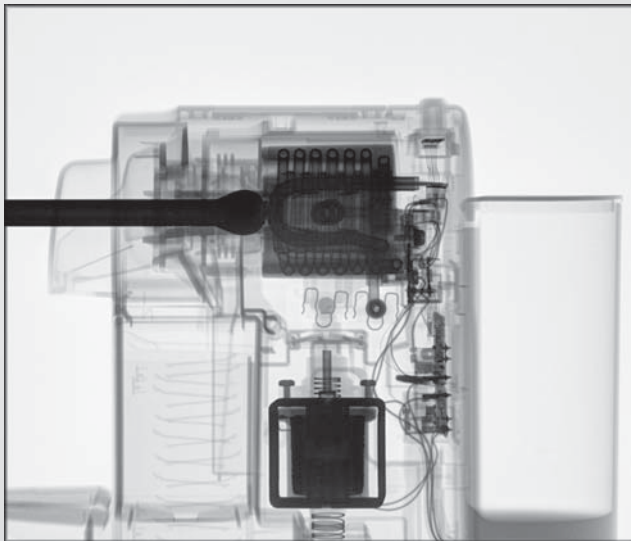


Specifications

NEOS III DR SYSTEM

Common Applications for the NEOS III DR System:

- EOD/IEDD
- Forensics
- Customs
- Border Protection
- Event Security



A full NEOS III system in lightweight, backpack configuration weighs under 10 kg.

Technology	Amorphous Silicon with TFT
Scintillator	Gadox
Pixel Area	32.5 x 26.0 cm, 12.8" x 10.2"
Pixel Matrix	2560 x 2048 pixels
Pixel Size	127 µm
Limiting Resolution	3.9 lp/mm
AD Conversion	16 bits
Communications Interface	Wireless 2.4 GHz (5 GHz Optional) Wired LAN
Communications Range	Wireless 50 m or up to 400 m with inter- face* (using 2.4 GHz) Wired option 50 m to 200 m
Image Transfer	Wired - 5 seconds Wireless - 9 seconds**
X-ray Energy Range	40 - 330 kV
Weight	3.3 kg (7.3 lbs)
Dimensions (Panel)	38.5 x 32.0 x 1.8 cm 15.2" x 12.6" x 0.7"
Power	100-240 VAC (50-60 Hz), 2A using included power supply 14.4 V, 93 Wh, Li-Ion hot-swappable battery pack
Operating Temperature	-20 to 50 C (Wired), 0 to 40 C (Wireless) -4 to 122 F 32 to 104 F
Storage Temperature	-20 to 50 C -4 to 122 F
PC Specs (Minimum)	Core i7 Processor, 4 GB RAM, 500 GB hard disk, 14" 1600 x 900 display, Windows 7 Professional

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