

NEOS III

The NEOS III is our newest small format, high resolution flat panel imaging system. The system produces 16-bit images allowing viewing of 65,536 grey levels. The panel is 18 mm thin and weighs only 3.3 kg, while still being shielded for CP or HF X-ray sources up to 330 kV. With two scintillator options, DRZ Fine (100 Micron*) and DRZ+ (160 micron*), you have the option to select the best solution for you needs. It has a low ground level border that allows imaging just 8 mm off the ground. The NEOS III also offers the advantages of built in wireless communications and a removable panel battery that provides two hours of operation for situations where ultra-portability and short-range communications are desirable.

*Based on ISO-17636-2 .



NEOS III DR System

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 NDT 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 mains power is available at the PC workstation), and 400 m* wireless range or up to 200 m wired range.

* Line of Sight

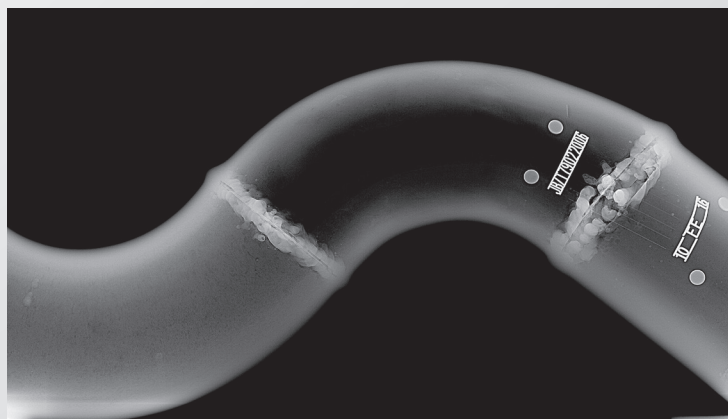
Features

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



Common Applications for the NEOS III DR System:

- Oil & Gas
- Petrochemicals
- Aerospace
- Art and Technology
- Power Plants
- Munitions
- Castings



Carbon Steel pipe, OD 89 mm, WT 4 mm

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

Specifications NEOS III DR SYSTEM

Technology	Amorphous Silicon with TFT
Scintillator	Gadox
Pixel Area	12.8" x 10.2", 32.5 x 26.0 cm
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 CP or HF X-ray Sources
Weight	7.3 lb (3.3 kg)
Dimensions (Panel)	15.2" x 12.6" x 0.7" 38.5 x 32.0 x 1.8 cm
Power - ASÝRMATOS II	100-240 VAC (50-60 Hz), 2A using included power supply 14.4 V, 93 Wh, Li-Ion hot-swappable battery pack
Power - Panel Battery	11.1 V, 37.8 Wh, Li-Ion battery pack
Operating Temperature	-4° tp 122° F (Wired) 32° to 104° F (Wireless) -20 to 50 C 0 to 40 C
Storage Temperature	-4° to 122° F -20 to 50 C
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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