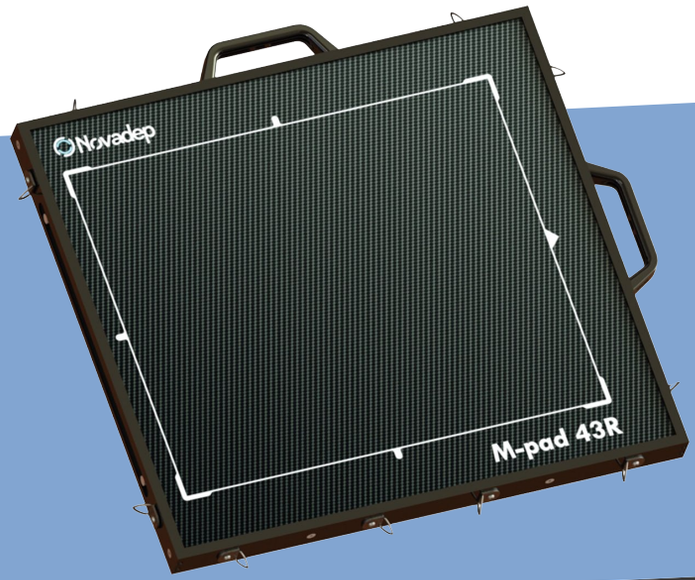
M-pad 43R
Flat Panel Detector

Novadep
NDT Systems



Portable digital X-ray technology like you've never seen

Key features

Pixel Size:
100 µm

Pixel Matrix:
4200 x 34000

Greyscale resolution:
16 bits (65536 values)

Tecnology:
Amorphous silicon

Variable gain:
4 levels

Scintillator:
Direct Dep. CsI
or Gadox

Dimensions:
515 x 467 x 33 mm

Weight:
9.1 kg

Complete pack

Rugged suitcase for transporting the entire kit



1 x Battery charger
2x Li-P batteries



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M-pad 43R | DataSheet

Technical specifications

SENSOR

Panel	*Amorphous silicon*
Scintillator	*Direct deposition CsI: Tl or Gadox*
Pixel matrix	*4200 x 3400*
Pixel size	*100 µm*
Active area	*420 mm x 340 mm*
Shielding	*2 mm of tungsten*
Binning Modes	*1x1 / 2x2*

GENERAL

External dimensions	*515 x 467 x 33 mm*
Weight	*9.1 kg*
Housing	*Aluminium and polymer*

ELECTRONICS

Amplifiers	*Low-noise ASICS with 4 gain levels*
ADC	*16-bit*
Image transfer	*Wireless: 3000 / 600 ms*

COMUNICACIONS

Screen	*OLED display*
Wireless data I/F	*802 11n Wi-Fi standard at 5 GHz*

ADVANCED FEATURES

Dynamic mode	*1 fps @ 200 µm resolution*
Corrections	*Background, shading and defect pixels*

IMAGE QUALITY

Typical SRb	*130 µm*
Dynamic range	*>77 db*
Image lag	*<8% 1st frame (CsI)*
Admitted radiation	*X-ray (400 kV max)*
	Gamma (Se-75, Ir-192)

OPERATING ENVIROMENT

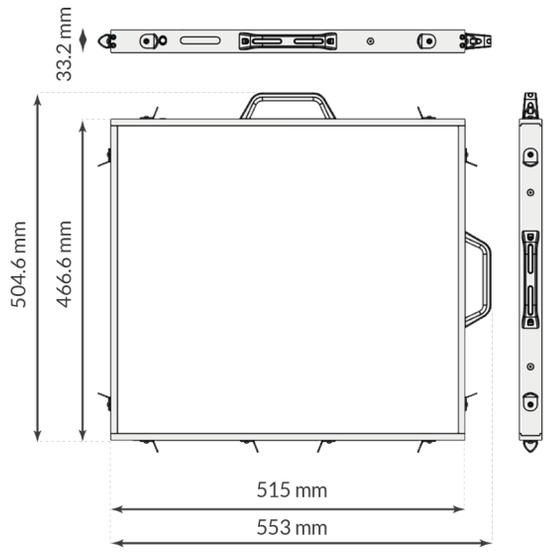
Temperature	*-5°C to 55°C operating conditions*
Humidity	*20% to 80% operating conditions*
IP Rating	*IPX4 rated (protection against splashing water)*

CUSTOMER PACKAGE

Battery	*2x Li-Po battery, 5.8 Ah (up to 5h operation)*
Battery charger	*Two bay charger 100 - 240 V AC, 50/60 Hz*
Carry case	*Peli iM2875 (Dimensions: 632 x 602 x 333 mm)*

REGULATION

Norms	*EN 60601-1/A1, EN 60601-1-2,*
	FCC part 15 sub-part E
	ETSI EN 301 893 V2 .1 1,
	ETSI EN 301 489-1 V2 .2 0,
	ETSI EN 301 489-17 V3 .2 0
	EN ISO 10993-5, EN ISO 10993



Related products

Det-X

Fast and intuitive image acquisition software, designed for the M series. It allows integrated control of both the X-ray tube and the detector from a single control panel.

InXpect

Software designed to complement Det-X, enabling the simple and intuitive analysis and inspection of digital Z-rays. It allows users to easily assess high-quality images and export them in various formats (PNG, DOCX, PDF)

M-link

M-link is an access point with a built-in battery that allows various X-ray devices (wireless sources and detectors, etc.) to be connected to the control system without the need for power sockets or duplicate Wi-Fi networks. In enviroments with poor wireless connectivity, it ensures a conection via Ethernet.

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