

IRAY MARS1417X

TECHNICAL SPECIFICATIONS

1.1.54 **IRAY MARS1417X**

1.1.57 **WIRELESS PORTABLE FLAT PANEL DETECTOR**

DIMENSIONS : 35 X 43 CM

AUTO-DETECTION (OPTION)

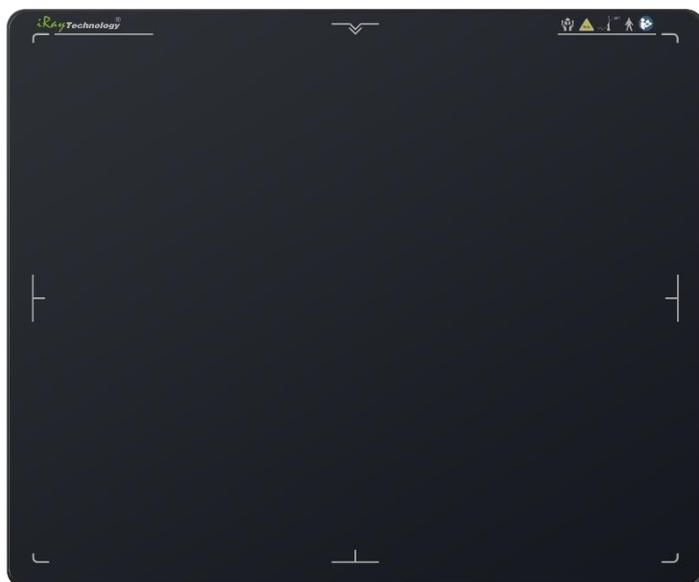


WIRELESS PORTABLE FLAT PANEL DETECTOR

1.1.54 The MARS1417X wireless portable Flat Panel Detector offers you a high level of flexibility in your Digital room.

1.1.55 The detector has the same dimensions as the standard cassette (ISO4090), it fits in existing bucky and for direct projections for specific exams (lateral exposures or with angulations, femoro-patellar, shoulders, skull, extremities, exams in stretcher or at patient bedside.

Its x-ray auto-detection functionality (option) detects first x-rays and « opens » automatically the detector, without generator connection, that allows the evolution to digital technology for analog x-ray rooms and mobile units.



Indirect conversion, amorphous silicon (a-Si)

Caesium Iodide scintillator (CsI) 1.1.58

Matrix 3,500 x 4,300 pixels (Approx. 15 Megapixels)

Imaging area 35 x 43 cm 1.1.59

Pixel size 100µm ; 4,3 lp / mm typ. 1.1.61

A/D converter 16 bits 1.1.62

> 16 millions grey levels (16 bits)

Image preview: approx. 3 second

Image to image cycle: approx. 8 seconds

Standard wifi 802.11 a/b/g/n/ac - 2,4 Ghz or 5 Ghz

	Mars1417X	Mars1717X
MTF @ 0 LP/mm (@RQA5)	1	1
MTF @ 0.5 LP/mm (@RQA5)	87.60%	87.60%
MTF @ 1.0 LP/mm (@RQA5)	70%	70.00%
MTF @ 1.5 LP/mm (@RQA5)	53.70%	53.70%
MTF @ 2.0 LP/mm (@RQA5)	40.40%	40.40%
MTF @ 2.5 LP/mm (@RQA5)	30.40%	30.40%
MTF @ 3.0 LP/mm (@RQA5)	22.80%	22.80%
MTF @ 3.5 LP/mm (@RQA5)	17.30%	17.30%
MTF @ 4.0 LP/mm (@RQA5)	13.50%	13.50%
MTF @ 4.5 LP/mm (@RQA5)	10.50%	10.50%
DQE @ 0 LP/mm (2.5uGy@RQA5)	73.40%	73.40%
DQE @ 0.5 LP/mm (2.5uGy@RQA5)	65.80%	65.80%
DQE @ 1.0 LP/mm (2.5uGy@RQA5)	55.90%	55.90%
DQE @ 1.5 LP/mm (2.5uGy@RQA5)	47.50%	47.50%
DQE @ 2.0 LP/mm (2.5uGy@RQA5)	40.40%	40.40%
DQE @ 2.5 LP/mm (2.5uGy@RQA5)	34.30%	34.30%
DQE @ 3.0 LP/mm (2.5uGy@RQA5)	28%	28.00%
DQE @ 3.5 LP/mm (2.5uGy@RQA5)	22.40%	22.40%
DQE @ 4.0 LP/mm (2.5uGy@RQA5)	17.30%	17.30%
DQE @ 4.5 LP/mm (2.5uGy@RQA5)	12.60%	12.60%

Technical specifications



Two Lithium-Ion batteries and one charger with two charging slots [1.1.64](#)



140 exposures (8h of use) per battery

Charging time: approx. 4h to charge the batteries from 0% to 100%.



X-ray auto-detection mode (without connection to the generator) is optional

Retrofit solution

Storage of 100 images in the detector

Manual synchronization mode



External dimension: 38.4 x 46 x 1.5 cm / Weight: 3.0 kg

[1.1.60](#) Waterproofness index: IP56

Uniform load: 300 kg over the whole area of the detector surface

Local load: 150kg on an area 40mm in diameter

Operating environment temperature: 5 to 35°C

Operating environment humidity: 5- 90% RH (non-condensing)

Wired option with magnetic cable for image transfer and charge the battery in the detector.