

	iRay 奕瑞	Doc ID	042-501-01
		Version	A3
	Mars1417X Product Specification	Revision Date	2020-10-12
		Page	1 / 4

Mars1417X Product Specification

Content

1.	Product Description and Feature.....	2
2.	Basic Technical Specification	2
3.	Image Performance	2
4.	Workflow	3
5.	Environmental Requirement	3
6.	Detector Reference Drawing	4

	iRay 奕瑞	Doc ID	042-501-01
		Version	A3
	Mars1417X Product Specification	Revision Date	2020-10-12
		Page	2 / 4

1. Product Description and Feature

Mars1417X is a 14x17 cassette-size wireless portable flat panel detector designed for Human used digital radiography.


- Fast workflow
- More image details
- Excellent image quality
- Cassette-size flat panel detector

2. Basic Technical Specification

Detector Technology	Amorphous Silicon
Scintillator	CsI
Active Area	14inch*17inch
Number of Pixels	3500 x 4300
Pixel Pitch	100 um
AD Conversion	16 bit
Trigger Mode	AED (Optional) /Software
Data Interface	WiFi(802.11ac) - First Stage; Tethered - Second Stage
Dimension	384mm x 460mm x 15mm
Weight	3.0 kg
Water Proof	IP56
Drop Height	100cm @3mm PVC
Static Loading	300kg Uniformly
Battery Capacity	8.5 h
Battery Charging	4h in Charger

3. Image Performance

	Min.
Maximum Linear Dose(uGy)	80uGy
MTF @ 0 LP/mm (@RQA5)	1
MTF @ 1.0 LP/mm (@RQA5)	65%

	iRay 奕瑞	Doc ID	042-501-01
		Version	A3
	Mars1417X Product Specification	Revision Date	2020-10-12
		Page	3 / 4

MTF @ 2.0 LP/mm (@RQA5)	35%
MTF @ 3.0 LP/mm (@RQA5)	19%
MTF @ 4.0 LP/mm (@RQA5)	10%
MTF @ Nyquist (@RQA5)	6%
DQE @ 0 LP/mm (@RQA5)	68%
DQE @ 1.0 LP/mm (@RQA5)	54%
DQE @ 2.0 LP/mm (@RQA5)	38%
DQE @ 3.0 LP/mm (@RQA5)	24%
DQE @ 4.0 LP/mm (@RQA5)	14%
DQE @ Nyquist (@RQA5)	6%

4. Workflow

Trigger Mode	AED (Optional) /Software
Pre-image Time	≤ 1s
Full Image Time	≤ 3s
Cycle Time	< 8s

5. Environmental Requirement

Operating Temperature	10°C~35°C
Storage & Transport Temperature with Package	-20°C~55°C
Operating Humidity	5%~90%
Storage & Transport Humidity with Package	5%~95%
Operating Atmospheric Pressure	700mbar~1060mbar
Storage & Transport Atmospheric Pressure	600mbar~1060mbar

	iRay 奕瑞	Doc ID	042-501-01
		Version	A3
	Mars1417X Product Specification	Revision Date	2020-10-12
		Page	4 / 4

6. Detector Reference Drawing

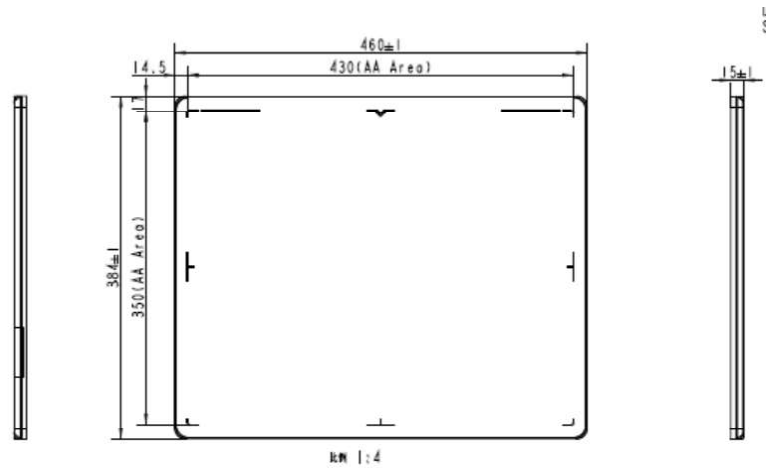


Fig1. Detector Mechanical Outline (unit:mm)