

SAR TEST REPORT

Applicant iRay Technology Co. Ltd.
FCC ID 2ACHK-01070189
Product Wireless Digital Flat Panel Detector
Model Mars1717X; Mars1417X
Report No. R2407A0990-S1
Issue Date October 17, 2024

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **IEEE 1528-2013, ANSI C95.1: 1992, IEEE C95.1: 1991**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2 Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3 Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.
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1.4 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25°C
Relative humidity	Min. = 20%, Max. = 80%
Ground system resistance	< 0.5 Ω
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

2 Description of Equipment Under Test

Client Information

Applicant	iRay Technology Co. Ltd.
Applicant address	RM 202, Building 7, No. 590, Ruiqing RD., Pudong, Shanghai, China
Manufacturer	iRay Technology Co. Ltd.
Manufacturer address	RM 202, Building 7, No. 590, Ruiqing RD., Pudong, Shanghai, China

General Technologies

EUT Stage	Identical Prototype
Model	Mars1717X; Mars1417X
Lab internal SN	R2407A0990/S01
Hardware Version	A01
Software Version	Mars1717X: 53 Mars 1417X: 42
Antenna Type	Internal Antenna
Wi-Fi Hotspot	Wi-Fi 2.4G Wi-Fi 5G U-NII-1&U-NII-3
Date of Sample Received	July 26, 2024
EUT Accessory	
Battery	Manufacturer: iRay Technology Taicang Ltd. Model: BATTERY-KX
Note: The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.	

Mars1717X; Mars1417X (Report No.: R2407A0990-S1) is a variant model of Mars1717X (Report No.: R2008A0570-S1).

The detailed product change description please refers to following table:

Model		Dimension	port (Pin No.)	HW Version	SW Version
Variant	Mars1717X	460 x 460 x 15 mm	19pin	A01	53
	Mars1417X	460 x 384 x15 mm			42
Original	Mars1717X	460 x 460 x 15 mm	4pin	A0	SDK:4.1.0.7574 ARM: Core: 2.1.10.69 Kernel: 1.0.4.0 FPGA: main: 2.10.6.6 MCU: 2.10.0.19

There is no test for variant in this report.

This report is used in conjunction with the original report (Report No.: R2008A0570-S1).

The detailed product change description please refers to the *Product Change Description*.

Wireless Technology and Frequency Range

Wireless Technology		Modulation	Operating mode	Tx (MHz)
Wi-Fi	2.4G	DSSS, OFDM	802.11b/g/n HT20	2412 ~ 2462
		OFDM	802.11n HT40	2422 ~ 2452
	5G	OFDM	802.11a/n 20M/40M/ ac 20M/40M/80M	5150 ~ 5250 5725 ~ 5850
			Does this device support MIMO ☒ Yes ☐ No	

3 Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1093, IEEE 1528- 2013, ANSI C95.1: 1992, IEEE C95.1: 1991, the following FCC Published RF exposure KDB procedures:

KDB 248227 D01 802.11Wi-Fi SAR v02r02

KDB 447498 D01 General RF Exposure Guidance v06

KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04

KDB 865664 D02 RF Exposure Reporting v01r02

KDB 941225 D06 Hotspot Mode v02r01

KDB 616217 D04 SAR for laptop and tablets v01r02

ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

ANNEX B: Product Change Description

The Product Change Description are submitted separately.