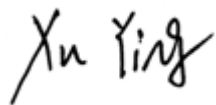


## RF TEST REPORT

**Applicant** iRay Technology Co. Ltd.  
**FCC ID** 2ACHK-01070189  
**Product** Wireless Digital Flat Panel Detector  
**Model** Luna1012X  
**Report No.** R2212A1306-R2  
**Issue Date** June 30, 2023

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15E (2022)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.



Prepared by: Xu Ying



Approved by: Xu Kai

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### TA Technology (Shanghai) Co., Ltd.

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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 **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)**

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

#### **A2LA (Certificate Number: 3857.01)**

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

### 1.3. Testing Location

Company: TA Technology (Shanghai) Co., Ltd.  
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City: Shanghai  
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## 2. General Description of Equipment under Test

### 2.1. Applicant and Manufacturer Information

|                             |                                                                   |
|-----------------------------|-------------------------------------------------------------------|
| <b>Applicant</b>            | iRay Technology Co. Ltd.                                          |
| <b>Applicant address</b>    | RM 202, Building 7, No. 590, Ruiqing RD., Pudong, Shanghai, China |
| <b>Manufacturer</b>         | iRay Technology Co. Ltd.                                          |
| <b>Manufacturer address</b> | RM 202, Building 7, No. 590, Ruiqing RD., Pudong, Shanghai, China |

### 2.2. General information

| EUT Description                  |                                                                                                     |                                                |
|----------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------|
| Model                            | Luna1012X                                                                                           |                                                |
| Lab Internal SN                  | Original: R2209A0844/S02                                                                            |                                                |
| Hardware Version                 | A11                                                                                                 |                                                |
| Software Version                 | ARM: Kernel: 1.0.45.0<br>Core: 2.4.1.81<br>FPGA: 2.10.2.11<br>MB: 255.255.255.255<br>MCU: 2.10.0.17 |                                                |
| Power Supply                     | Battery / AC adapter                                                                                |                                                |
| Antenna Type                     | Internal Antenna                                                                                    |                                                |
| Antenna Connector                | A permanently attached antenna (meet with the standard FCC Part 15.203 requirement)                 |                                                |
| Antenna Gain                     | U-NII-1:                                                                                            | Short Cable: 1.42 dBi<br>Long Cable: 2.78 dBi  |
|                                  | U-NII-3:                                                                                            | Short Cable: 3.04 dBi<br>Long Cable: -0.30 dBi |
| Directional Gain                 | NA                                                                                                  |                                                |
| Operating Frequency Range(s)     | U-NII-1: 5150MHz-5250MHz<br>U-NII-3: 5725MHz -5850MHz                                               |                                                |
| Modulation Type                  | 802.11a/n (HT20/HT40) : OFDM<br>802.11ac (VHT20/VHT40/VHT80): OFDM                                  |                                                |
| EUT Accessory                    |                                                                                                     |                                                |
| Adapter                          | Manufacturer: Shenzhen Longxc Power Supply Co., LTD<br>Model: LXCP61-024300                         |                                                |
| Rechargeable Li-ion Battery Pack | Manufacturer: iRay Technology Taicang Ltd.<br>Model: BATTERY-KX                                     |                                                |
| DC cable                         | Manufacturer: iRay Technology Co. Ltd.                                                              |                                                |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                    |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Model: /                                                           |
| Charger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Manufacturer: iRay Technology Taicang Ltd.<br>Model: CHARGER-COMBO |
| <p>Note:</p> <ol style="list-style-type: none"> <li>1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.</li> <li>2. This device support automatically discontinue transmission, while the device is not transmitting any information, the device can automatically discontinue transmission and become standby mode for power saving. The device can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.</li> <li>3. (a) Manufacturers implements security features in any digitally modulated devices capable of operating in any of the U-NII bands, so that third parties are not able to reprogram the device to operate outside the parameters for which the device was certified. The software prevents the user from operating the transmitter with operating frequencies, output power, modulation types or other radio frequency parameters outside those that were approved for the device. Manufacturers uses means including, but not limited to the use of a private network that allows only authenticated users to download software, electronic signatures in software or coding in hardware that is decoded by software to verify that new software can be legally loaded into a device to meet these requirements and must describe the methods in their application for equipment authorization.</li> <li>(b) Manufacturers take steps to ensure that DFS functionality cannot be disabled by the operator of the U-NII device.</li> </ol> |                                                                    |

**Luna1012X (Report No.: R2212A1306-R2) is a variant model of Mars1013X (Report No.: R2209A0844-R2).**

**There is only tested Unwanted Emissions, and did not worsen, so they were not recorded in the report.**

**This report is used in conjunction with the original report (Report No.: R2209A0844-R2).**

**The detailed product change description please refers to the *FCC Class II Permissive Change Application Letter*.**

## ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

## ANNEX B: Product Change Description

The Product Change Description are submitted separately.

\*\*\*\*\*END OF REPORT \*\*\*\*\*