

Report No.: DDT-R21053109-2E03

■Issued Date: Jun. 23, 2021

## RF EXPOSURE REPORT

#### **FOR**

Applicant	:	10moons Intelligent Maunfacuring (Huizhou) Co., Ltd.		
Address	•	6 Floor,Building A, 10moons Technology Park, No.6 Hechang Road, Zhongkai High-tech Zone, Huizhou, Guangdong, China		
Equipment under Test	:	Fever screening thermographic terminal		
Model No.	••	AAC-SA801-LTT-IR		
Trade Mark	:	N/A		
FCC ID	•	2A2UD-SA801LTTIR		
Manufacturer	10moons Intelligent Maunfacuring (Huizhou) (Ltd.			
Address	•	6 Floor,Building A, 10moons Technology Park, No.6 Hechang Road, Zhongkai High-tech Zone, Huizhou, Guangdong, China		

## Issued By: Dongguan Dongdian Testing Service Co., Ltd.

**Add.:** No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

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### **TEST REPORT DECLARE**

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Equipment under Test	:	Fever screening thermographic terminal		
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Trade Mark	:	N/A		
Manufacturer	: 10moons Intelligent Maunfacuring (Huizhou) Co., Ltd.			
Address :		6 Floor,Building A, 10moons Technology Park, No.6 Hechang Road, Zhongkai High-tech Zone, Huizhou, Guangdong, China		

Standard Used: KDB447498 D01 General RF Exposure Guidance v06

#### We Declare:

The equipment described above is assessed by Dongguan Dongdian Testing Service Co., Ltd and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these assess.

After evaluation, our opinion is that the equipment In Accordance with above standard.

Report No:	DDT-R21053109-2E03		
Date of Receipt:	Jun. 01, 2021	Date of Test:	Jun. 01, 2021 ~ Jun. 23, 2021

Prepared By:

Ben Jin/Engineer

Damon Hu/EMC Manager

Approved By

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

# **Revision History**

Rev.	Revisions		Issue Date	Revised By
	Initial issue ®	8	Jun. 23, 2021	8
	201	201	a D	Jr

## 1. General information

### 1.1. Description of Equipment

EUT* Name	:	Fever screening thermographic terminal
Model Number	:	AAC-SA801-LTT-IR
EUT function description	:	Please reference user manual of this device
Power supply	:	DC 12V2A powered by external adapter
Radio Specification	:	NFC, IEEE802.11b/g/n
Operation frequency		NFC: 13.56MHz EEE 802.11b: 2412MHz—2462MHz IEEE 802.11g: 2412MHz—2462MHz IEEE 802.11n HT20: 2412MHz—2462MHz IEEE 802.11n HT40: 2422 MHz—2452MHz
Modulation	:	NFC: ASK IEEE 802.11b: DSSS (CCK, QPSK, BPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK)
		IEEE 802.11b: 1, 2, 5.5, 11 Mbps
Antenna Type	:	NFC Antenna: N/A 2.4G WIFI Antenna: Dedicated FPC antenna, 2.4G band maximum PK gain: 4.7 dBi
Sample Type	:	N/A
Serial Number	:	N/A

#### 1.2. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808.

Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, G-20118

## 2. RF Exposure Evaluation

### 2.1. Requirement

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)			Power Density (S) (mW/ cm <sup>2</sup> )	Averaging Time $ E ^2$ , $ H ^2$ or S (minutes)	
0.3-1.34	614	1.63	(100)*	30	
1.34-30	824/f	2.19/f	(180/f)*	30	
30-300	27.5	0.073	0.2	30	
300-1500			F/1500	30	
1500-100,000			1.0	30	

Note: f = frequency in MHz; \*Plane-wave equivalent power density

#### 2.2. Calculation method

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power Density:  $S(mW/cm^2) = \frac{E^2}{377}$ 

E = Electric field (V/m)

P = Peak RF output power (mW)

G = EUT Antenna numeric gain (numeric)=

d = Separation distance between radiator and human body (m)

The formula can be changed to

We can change the formula to:

$$S = \frac{30 \times P \times G}{377 \times d^2} \text{ or, } d = \sqrt{\frac{30 \times P \times G}{377 \times S}}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2 m, as well as the gain of the used antenna, the RF power density can be obtained.

## 2.3. Estimation result

Worst Mode	PK Output	Output	Antenna	Antenna	MPE	MPE
	power	power	Gain	Gain	Values	Limit
	(dBm)	(mW)	(dBi)	(linear)	(mW/cm²)	(mW/cm²)
2.4G wifi 11N20	22.06	160.69	4.7	2.95	0.0943	1

Note: The estimation distance is 20 cm

Conclusion: No SAR evaluation required since transmitter power is below FCC threshold

**END OF REPORT**