



No. I21Z60329-SEM01

for

Luxshare Precision Industry Co.,Ltd

onn. 2MP Indoor Smart Camera

Model Name: 100022770

Hardware Version: PCB-MINI16S-A2MB_F37 REV1_0

Software Version: ppstrong-a3-tuya2_std-4.0

FCC ID: 2AYYS-CM001

Issued Date: 2021-4-25

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

Test Laboratory:

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REPORT HISTORY

Report Number	Revision	Issue Date	Description
I21Z60329-SEM01	Rev.0	2021-4-21	Initial creation of test report
I21Z60329-SEM01	Rev.1	2021-4-25	Update the antenna gain and maximum power in section 7.1/7.2/7.3

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1. Test Laboratory

1.1. Testing Location

Company Name: CTTL(Shouxiang)
Address: No. 51 Shouxiang Science Building, Xueyuan Road, Haidian District,
Beijing, P. R. China100191
Postal Code: 100191
Telephone: 00861062304633
Fax: 00861062304793

1.2. Testing Environment

Normal Temperature: 15-25°C
Relative Humidity: 20-75%

1.3. Project data

Project Leader: Lin Hao
Testing Start Date: 2021-4-20
Testing End Date: 2021-4-20

1.4. Signature

Lin Hao

(Prepared this test report)

Qi Dianyuan

(Reviewed this test report)

Lu Bingsong

Deputy Director of the laboratory
(Approved this test report)



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2. Client Information

2.1. Applicant Information

Company Name:	Luxshare Precision Industry Co.,Ltd
Address /Post:	Floor 2,Block A,Sanyo New Industrial Area,West Haoyi Community,Shajing Subdistrict Office
Contact:	Bin Lin
Email:	Bin Lin@luxshare-ict.com
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Fax:	\

2.2. Manufacturer Information

Company Name:	LUXSHARE -ICT(NGHE AN)
Address /Post:	No. 18, Street 03, VSIP Nghe An Industrial Park, Hung Tay Commune, Hung Nguyen District, Nghe An Province
Contact:	Nan Zhang
Email:	Nan Zhang@luxshare-ict.com
Telephone:	+86 13237197110
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3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	onn. 2MP Indoor Smart Camera
Model name	100022770
Operation mode	Wi-Fi 2.4G

3.2. Internal Identification of EUT

EUT ID*	IMEI	HW Version	SW Version
EUT1	/	/	/

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE

AE ID*	Description	SN
AE1	/	/

*AE ID: is used to identify the test sample in the lab internally.

4. Reference Documents

4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

447498 D01 General RF Exposure Guidance v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies

Canadian RSS-102: standard for uncontrolled environment requires the RF-exposure value in W/m² unit, therefore the MPE limit value determined in mW/cm² unit, should be multiplied by 10 to have the required unit. The MPE limits are the same like on FCC § 1.1301 at table 1.

5. RF Exposure Limit

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	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 ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

f = frequency in MHz *Plane-wave equivalent power density

$$\text{Friis transmission formula: } P_d = \frac{P_{out} * G}{4 * \pi * r^2}$$

where

P_d = power density (mW/cm²)

P_{out} = output power to antenna (mW)

G = gain of antenna (linear scale)

r = distance between antenna and observation point (cm)

6. Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as Mobile Device.

7. Test Results

7.1. The maximum antenna gain

The maximum gain for each frequency band is:

Frequency band	Antenna gain (dBi)
WiFi 2.4G	3

7.2. The maximum rated power limits

Maximum peak output power for antenna:

Frequency band	Maximum Rated Power (dBm)
WiFi 2.4G	24.12

7.3. Output Power Into Antenna & RF Exposure value at distance 20cm

The worst cases conducted output power for every frequency band is:

Frequency band	Maximum Rated Power (dBm)	Maximum Rated Power (mW)	Antenna gain (linear)	d (cm)	Calculation (mW/cm ²)	Limit (mW/cm ²)	Calculation
WiFi	24.12	258.226	2.0	20	0.103	1.000	PASS

According above test result, the device complies with the exposure requirements.

END OF REPORT