

RF Exposure Evaluation Report

Application No.: DNT240287R0472-0962

Applicant: Shenzhen Jooan Technology Co., Ltd

Address of Applicant: Building 101-3,5 and 6, No.8, Guixiang Community Square Road, Guanlan Street Langhus District Shanghan China

Street, Longhua District, Shenzhen, China

EUT Description: Smart Camera

Model No.: A6M-U

FCC ID: 2BBQ4-A6M-U

Power supply DC 5V From Adapter Input AC 100-240V,50/60Hz

Trade Mark: /

Standards: 47 CFR Part 2.1091

FCC KDB 447498 D01 v06

Date of Receipt: 2024/3/2

Date of Test: 2024/3/5 to 2024/3/14

Date of Issue: 2024/3/15

Test Result: PASS *

Prepared By: Name. Jim (Testing Engineer)

Reviewed By: (Project Engineer)

Approved By: Will (Manager)

Note: If there is any objection to the results in this report, please submit a written inquiry to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp, and is issued by the company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached page. Unless otherwise stated, the results presented in this report only apply to the samples tested this time. Partial reproduction of this report is not allowed unless approved by the company in writing.



Report No.: DNT240287R0472-0962 Date: March 15, 2024 Page: 2 / 7

Report Revise Record

Report Version	on Revise Time Issued Date		Valid Version	Notes	
V1.0	1	Mar.15, 2024	Valid	Original Report	



Report No.: DNT240287R0472-0962

Date: March 15, 2024

Page: 3/7

Contents

1	G	ENERAL INFORMATION	4
	1.1	TEST LOCATION	Δ
	1.2	GENERAL DESCRIPTION OF EUT	4
2	R	F EXPOSURE EVALUATION	5
		RF EXPOSURE COMPLIANCE REQUIREMENT	
		1.1 Limits	
	2.	1.2 Test Procedure	Ć
	2.	1.3 EUT RF Exposure Evaluation	Ć



Report No.: DNT240287R0472-0962 Date: March 15, 2024 Page: 4 / 7

1 General Information

1.1 Test Location

Company:	Dongguan DN Testing Co., Ltd
Address:	No. 1, West Fourth Street, South Xinfa Road, Wusha Liwu, Chang ' an Town, Dongguan City, Guangdong P.R.China
Test engineer:	Wayne Lin

1.2 General Description of EUT

Manufacturer:	Shenzhen Jooan Technology Co., Ltd
Address of Manufacturer:	Building 101-3,5 and 6, No.8 , Guixiang Community Square Road, Guanlar Street, Longhua District, Shenzhen, China
EUT Description::	Smart Camera
Model No.:	A6M-U
Additional Model(s):	
Chip Type:	SV6355
Serial Number	PR240287R0472
Power Supply	DC 5V From Battery Input AC 100-240V, 50/60Hz
Trade Mark:	N/A
Hardware Version:	V1.0
Software Version:	V1.0
Sample Type:	☐ Portable Device, ☐ Module, ☒ Mobile Device
Antenna Type:	☐ External, ⊠ Integrated
Antonno Coin.	⊠ Provided by applicant
Antenna Gain:	4.28dBi

Remark:

^{*}Since the above data and/or information is provided by the applicant relevant results or conclusions of this report are only made for these data and/or information, DNT is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.



Report No.: DNT240287R0472-0962 Date: March 15, 2024 Page: 5 / 7

2 RF Exposure Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 Limits

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm2)	Averaging time (minutes)	
(A) Limits for Occupa	tional/Controlled Exposure	s			
0.3-3.0	614	1.63	*(100)	6	
3.0-30	1842/f	4.89/f	*(900/f2)	6	
30-300	61.4	0.163	1.0	6	
300-1500			f/300	6	
1500-100,000	/	/	5	6	
(B) Limits for General	Population/Uncontrolled E	xposure	_	_	
0.3-1.34	614	1.63	*(100)	30	
1.34-30	824/f	2.19/f	*(180/f2)	30	
30-300	27.5	0.073	0.2	30	
300-1500	/	1	f/1500	30	
1500-100,000			1.0	30	

F=frequency in MHz

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4* Pi * R 2)

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

^{*=}Plane-wave equivalent power density



Report No.: DNT240287R0472-0962 Date: March 15, 2024 Page: 6 / 7

2.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually

2.1.3 **EUT RF Exposure Evaluation**

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.0 / 2.0 in linear scale. Output Power Into Antenna & RF Exposure Evaluation Distance:

This confirmed that the device comply with MPE limit.

Test Mode	Antenna	Freq(MHz)	Power [dBm]	
		2402	6.5	
BLE 1M	Ant1	2440	5.98	
		2480	4.88	
<i>\(\)</i> .		2402	6.52	
BLE 2M	Ant1	2440	5.98	
		2480	4.94	
		2412	14.09	
11B	Ant1	2437	13.73	
		2462	13.49	
		2412	13.72	
11G	Ant1	2437	13.34	
		2462	13.06	
		2412	14.93	
11N20SISO	Ant1	2437	14.14	
		2462	12.87	
		2422	13.82	
11N40SISO	Ant1	2437	13.57	
		2452	12.46	
		2412	15.50	
11AX20SISO	Ant1	2437	14.76	
		2462	13.49	
<i>(</i>		2422	14.44	
11AX40SISO	Ant1	2437	14.38	
		2452	13.22	



)	Worst	Antenna	Peak output power (dBm)	Target power (dBm)	MAX Target	Antenna gain			Limited	
The Mode						(dBi)	(Linear)	Power Density (S) (mW /cm ²)	of Power Density (S) (mW /cm ²)	Test Result
2.4G Band										
BLE		Ant1	6.52	6±1	7	4.28	2.6792	0.0027	1	Complies
11AX20)	Ant1	15.5	15±1	16	4.28	2.6792	0.0212	1	Complies

The End Report