

RF Exposure Evaluation Report

Application No.: DNT240266R0437-0958

Applicant: Shenzhen Jooan Technology Co., Ltd

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

Street, Longhua District, Shenzhen, China

EUT Description: Smart Camera

Model No.: T2R-U, T2T-U, T2R-U-L

FCC ID: 2BBQ4-T2R-U

Power supply AC 100-240V,50/60Hz

Trade Mark: N/A

47 CFR Part 2.1091

Standards: FCC KDB 447498 D01 v06

Date of Receipt: 2024/3/5

Date of Test: 2024/3/6 to 2024/3/12

Date of Issue: 2024/3/14

Test Result: PASS *

Prepared By: Wayne . Jin (Testing Engineer)

Reviewed By: [encils then (Project Engineer)

Approved By: Wick fen (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 Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes		
V1.0		Mar.14, 2024	Valid	Original Report		



Report No.: DNT240266R0437-0958

Date: March 14, 2024

Page: 3/6

Contents

1	GENER	RAL INFORMATION	4
		EST LOCATION	
		POSURE EVALUATION	
	2.1 / R	F EXPOSURE COMPLIANCE REQUIREMENT	5
	2.1.1	Limits	5
	2.1.2	Test Procedure	6
	2.1.3	EUT RF Exposure Evaluation	6



Report No.: DNT240266R0437-0958 Date: March 14, 2024 Page: 4 / 6

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, Guanlan Street, Longhua District, Shenzhen, China
EUT Description::	Smart Camera
Test Model No.:	T2R-U
Additional Model(s):	T2T-U, T2R-U-L
Chip Type:	SV6355
Serial Number	PR240266R0437
Power Supply	AC 100-240V, 50Hz/60Hz
Trade Mark:	N/A
Hardware Version:	V1.0
Software Version:	V1.0
Sample Type:	☐ Portable Device, ☐ Module, ☒ Mobile Device
Antenna Type:	☐ External, ⊠ Integrated
Antenna Gain:	⊠ Provided by applicant
7 interina Gain.	4.28dBi

Remark:

*All models are just color differences, motherboard, PCB circuit board, chip, electronic components, appearance is al I the same.

*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.: DNT240266R0437-0958 Date: March 14, 2024 Page: 5 / 6

2 RF Exposure Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 Limits

Frequency range (MHz)			Power density (mW/cm2)	Averaging time (minutes)	
	(A) Limits for Occup	ational/Controlled Expo	sures		
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	1	1	f/300	6	
1500-100,000		\ \(\sigma\)	5	6	
	(B) Limits for General P	opulation/Uncontrolled	Exposure		
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.: DNT240266R0437-0958 Date: March 14, 2024 Page: 6 / 6

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	6.57		
BLE 1M	Ant1	2440	5.98		
		2480	4.94		
		2402	6.59		
BLE 2M	Ant1	2440	6.02		
	,	2480	4.94		
		2412	14.30		
11B	Ant1	2437	14.07		
		2462	13.62		
		2412	13.71		
11G	Ant1	2437	13.40		
		2462	13.14		
		2412	15.08		
11N20SISO	Ant1	2437	14.34		
		2462	12.95		
()		2422	14.10		
11N40SISO	Ant1	2437	13.82		
		2452	12.48		
		2412	15.55		
11AX20SISO	Ant1	2437	14.98		
		2462	13.60		
		2422	14.56		
11AX40SISO	Ant1	2437	14.34		
		2452	13.07		

The Worst Mode	Antenna	Peak output power (dBm)	Target power (dBm)	MAX Target power (dBm)	Anten (dBi)	na gain (Linear)	Power Density (S) (mW /cm²)	Limited of Power Density (S) (mW /cm²)	Test Result
2.4G Band									
BLE	Ant1	6.59	6±1	7	4.28	2.6792	0.0027	1	Complies
2.4GWIFI	Ant1	15.55	15±1	16	4.28	2.6792	0.0212	1	Complies

The End Report