



RF Exposure Evaluation Report

Application No.: DNT2412020555R4898-07472

Applicant: Shenzhen Cylan Technology Co., Ltd.

Address of Applicant: Rm 1B16-1B17-1B18, Folk Culture Industrial Area, Qunli 2nd Rd, Dongxing, Baoan, Shenzhen, China

EUT Description: Two-Way Video Camera

Model No.: SC398-WBC2, SC398-WBC3, SC398-WBC4, A40, A40L, A40LM, A40M, C40, C30, C40L, C40M, C40LM

FCC ID: 2BE7Z-SC398-WBC2

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

Trade Mark: N/A

Standards: 47 CFR Part 2.1091
FCC KDB 447498 D01 v06

Date of Receipt: 2024/12/02

Date of Test: 2024/12/03 to 2024/12/22

Date of Issue: 2024/12/23

Test Result: **PASS**

Prepared By: Wayne Lin (Testing Engineer)

Reviewed By: Pengfei Chen (Project Engineer)

Approved By: Heise Shen (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.

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Dec.23, 2024	Valid	Original Report



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1 General Information

1.1 Test Location

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

1.2 General Description of EUT

Manufacturer:	Shenzhen Cylan Technology Co., Ltd.
Address of Manufacturer:	Rm 1B16-1B17-1B18, Folk Culture Industrial Area, Qunli 2nd Rd, Dongxing, Baoan, Shenzhen, China
EUT Description::	Two-Way Video Camera
Test Model No.:	SC398-WBC2
Additional Model(s):	SC398-WBC3,SC398-WBC4,A40,A40L,A40LM,A40M,C40,C30,C40L,C40M,C40LM
Chip Type:	SV6158M
Serial Number	PR2412020555R4898
Power Supply	DC 5V From Adapter 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
Antenna Gain:	☒ Provided by applicant
	2.78dBi

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.



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/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	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 Exposure				
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 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: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

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

P_d is 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.



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]
11B	Ant1	2412	15.02
		2437	17.14
		2462	16.33
11G	Ant1	2412	16.81
		2437	18.30
		2462	17.92
11N20SISO	Ant1	2412	17.08
		2437	18.51
		2462	18.15
11N40SISO	Ant1	2422	17.42
		2437	18.50
		2452	18.72

The Worst Mode	Antenna	Peak output power (dBm)	Target power (dBm)	MAX Target power (dBm)	Antenna gain		Power Density (S) (mW /cm²)	Limited of Power Density (S) (mW /cm²)	Test Result	Distance (cm)
					(dBi)	(Linear)				
2.4G Band										
11 N20	Ant1	18.51	18±1	19	2.78	1.897	0.0300	1	Complies	20

The End Report