

TEST REPORT

Maximum Permissive Exposure

for

Products Name: Action Camera

Model No.: C8, C9, C8 Pro, C9 Pro

FCC ID: 2BW6DC8C9

Report No.: SST2608E151

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Issued for

Shenzhen Tianchida Intelligent Technology CO.,LTD

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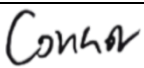
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1. Basic Introduction

Applicant's name..... :	Shenzhen Tianchida Intelligent Technology CO.,LTD	
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Manufacturer's name	Shenzhen Tianchida Intelligent Technology CO.,LTD	
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Factory's name	Shenzhen Tianchida Intelligent Technology CO.,LTD	
Address	Room 41B Block C, Electronics Science & Technology Bldg.,2070 Shennan Zhong Road, Futian District, Shenzhen, Guangdong, China	
Products Name..... :	Action Camera	
Model No..... :	C8, C9, C8 Pro, C9 Pro	
Trade Mark	/	
Rating(s)..... :	DC 3.7V 2000mAh battery Or DC 5V by external power supply	
Software version..... :	/	
Hardware version	/	
Operation frequency..... :	2412MHz ~ 2462MHz	
Channel numbers	11	
Channel separation	5MHz	
Modulation technology :	802.11b/g/n	
Antenna type	IFA Antenna	
Antenna gain	1.59 dBi (declare by Applicant)	
Date of sample receipt..... :	2026-7-14	
Date of Test..... :	2026-7-14~2026-8-17	
Standard(s)	FCC 47 CFR PART 1.1310 FCC 47 CFR PART 1.1307 KDB 447498 D04	
Tested by (+signature)..... :	Connor Ma	
Check by (+signature)..... :	Davis Zhou	
Approved by (+signature).... :	Tiger Chen	



2. RF EXPOSURE EVALUATION MAXIMUM PERMISSIBLE EXPOSURE (MPE)

2.1 Introduction

This document is prepared to show compliance with the RF Exposure requirements as required in §1.1310 of the FCC Rules

The limit for maximum permissible exposure(MPE), specific in §1.1307of the FCC Rules and KDB 447498 D04 were list in below

The available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

The available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula.

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B.2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).
 The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

	Distance (mm)									
	5	10	15	20	25	30	35	40	45	50
Frequency (MHz)										
300	39	65	88	110	129	148	166	184	201	217
450	22	44	67	89	112	135	158	180	203	226
835	9	25	44	66	90	116	145	175	207	240
1900	3	12	26	44	66	92	122	157	195	236
2450	3	10	22	38	59	83	111	143	179	219
3600	2	8	18	32	49	71	96	125	158	195
5800	1	6	14	25	40	58	80	106	136	169

For multiple RF sources

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

2.2 MPE Calculation

Type	Frequency (MHz)	Antenna Gain (dBi)	Output power (dBm)	Output power (mW)	ERP (dBm)	ERP (mW)	Limit (mW, d=0.5cm)	Ratio (%)	Result
WLAN	2462	1.59	2.37	1.726	1.81	1.517	2.7	63.93	PASS

Note: The available RF source will be Maximum time-averaged power or ERP, whichever is greater.
 $P_{th} = 3060 * (d/20)^x$, where x is $-\log_{10}(60/3060 * \sqrt{F, \text{ in GHz}})$;
eg: $3060 * (0.5/20)^{-\log_{10}(60/3060 * \sqrt{2.462})} = 2.7$

3 Conclusion

The device meets the portable RF exposure limit at a minimum separation distance as specified in §2.1093 of the FCC Rules and Regulations. An appropriate RF exposure compliance statement will be placed in the user's manual.

*****End of report*****