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Report No.: 2004RSU016-U2 Report Version: Issue Date: 05-18-2020

RF Exposure Evaluation Declaration

FCC ID: 2ALYU-EP7

APPLICANT: Shenzhen Pa. Times Technology Co., Ltd

Application Type: Certification

Product: Wearable video camera

Model No.: EP7

Serial Model No.: EP7S, EP7M, EPS

Brand Name: ORDRO

FCC Classification: Digital Transmission System (DTS)

Test Procedure(s): KDB 447498 D01v06

Reviewed By:

Approved By:

(Robin Wu)



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

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Page Number: 1 of 7



Revision History

Report No.	Report No. Version Description		Issue Date	Note	
2004RSU016-U2	Rev. 01	Initial Report	05-18-2020	Valid	



1. PRODUCT INFORMATION

1.1. Equipment Description

Product Name:	Wearable video camera	
Model No.:	EP7	
Serial Model No.:	EP7S, EP7M, EPS	
Brand Name:	ORDRO	
Wi-Fi Specification:	802.11b/g/n	

1.2. Product Specification Subjective

Frequency Range:	802.11b/g/n-HT20: 2412 ~ 2462 MHz
	802.11n-HT40: 2422 ~ 2452 MHz
Type of Modulation:	802.11b: DSSS
	802.11g/n: OFDM
Data Rate:	802.11b: 1/2/5.5/11Mbps
	802.11g: 6/9/12/18/24/36/48/54Mbps
	802.11n: up to 150Mbps
Antenna Type:	FPC Antenna
Antenna Gain:	1.26dBi

Page Number: 3 of 7



2. RF Exposure Evaluation

2.1. Limits

SAR Test Exclusion Thresholds for 100 MHz - 6 GHz and ≤ 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table. The equation and threshold in Note 1 must be applied to determine SAR test exclusion.

NALI-	E	10	15	20	25	mm	
MHz	5	10	15	20	25	mm	
150	39	77	116	155	194	SAR Test	
300	27	55	82	110	137	Exclusion	
450	22	45	67	89	112	Threshold	
835	16	33	49	66	82	(mW)	
900	16	32	47	63	79		
1500	12	24	37	49	61		
1900	11	22	33	44	54		
2450	10	19	29	38	48		
3600	8	16	24	32	40		
5200	7	13	20	26	33		
5400	6	13	19	26	32		
5800	6	12	19	25	31		
MHz	30	35	40	45	50	mm	
150	232	271	310	349	387	SAR Test	
300	164	192	219	246	274	Exclusion	
450	134	157	179	201	224	Threshold	
835	98	115	131	148	164	(mW)	
900	95	111	126	142	158		
1500	73	86	98	110	122		
1900	65	76	87	98	109		
2450	57	67	77	86	96		
3600	47	55	63	71	79		
		46	53	59	66		
5200	39	46	00				
5200 5400	39 39	45	52	58	65		

Note: The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:



[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] * $[\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.



2.2. Test Result of RF Exposure Evaluation

Product	Wearable video camera
Test Item	RF Exposure Evaluation

Test Mode	Frequency Band	Maximum Output Power		SAR Test Exclusion Threshold
	(MHz)	(dBm)	(mW)	(mW)
2.4G Wi-Fi	2412 ~ 2462	8.00	6.31	10

Note: Per FCC KDB 447498 D01v06, the SAR exclusion threshold for distances<50mm is defined by the following equation:

$$\frac{Max\ Power\ of\ Channel\ (mW)}{Test\ Separation\ Dist\ (mm)}*\sqrt{Frequency(GHz)} \leq 3.0$$

Based on the maximum conducted power (Include Tune-up Power) of 2.4G Wi-Fi and the antenna to use separation distance, Bluetooth SAR was not required;

$$\left(\frac{6.31\text{mW}}{5}\right) * \sqrt{2.412} = 1.96 < 3.00$$

Note: When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

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Report No.: 2004RSU016-U2



Appendix A - EUT Photograph

Refer to "2004RSU016-UE" file.