



1. Product Information

FCC ID	2A8CD-EVERVIEW
Product name	Outdoor Security Camera
Test Model	EverView
Additional Model No.	OCB01, OCBOB01
Model Declaration	PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Power Supply	Input: 5.0V=2.0A For AC Adapter Input: 100-240V~, 50/60Hz Adapter Output: 5.0V=2.0A, 10.0W
Hardware Version	1
Software Version	1
2.4GWIFI Frequency Range	2412MHz ~ 2462MHz
Channel Spacing	5MHz
Channel Number	11 Channels for 20MHz bandwidth (2412~2462MHz)
Modulation Type	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description	FPC Antenna, 2.11dBi (max.)
Exposure category	General population/uncontrolled environment
EUT Type	Production Unit
Device Type	Mobile Devices
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2. Evaluation Method

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

FCC ID: 2A8CD-EVERVIEW

In accordance with KDB447498D01 for Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modelled or measured field strengths or power density, is ≤ 1.0. The MPE ratio of each antenna is determined at the minimum test separation distance required by the operating configurations and exposure conditions of the host device, according to the ratio of field strengths or power density to MPE limit, at the test frequency. Either the maximum peak or spatially averaged results from measurements or numerical simulations may be used to determine the MPE ratios. Spatial averaging does not apply when MPE is estimated using simple calculations based on far-field plane-wave equivalent conditions. The antenna installation and operating requirements for the host device must meet the minimum test separation distances required by all antennas, in both standalone and simultaneous transmission operations, to satisfy compliance.

3. Limit

3. 1 Refer Evaluation Method

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

FCC KDB publication 447498 D01 General 1 RF Exposure Guidance v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.

FCC CFR 47 part2 2.1091: Radiofrequency radiation exposure evaluation: mobile devices

3. 2 Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency	Electric Field	Magnetic Field	Power Density	Averaging Time
Range(MHz)	Strength(V/m)			(minute)
	Limits for Oc	cupational/Controll	led Exposure	
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	/	1	5	6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

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	Frequency	Electric Field	Magnetic Field	Power Density	Averaging Time	
	Range(MHz)	Strength(V/m)	Strength(A/m)	(mW/cm²)	(minute)	
1	Limits for Occupational/Controlled Exposure					
Ī	0.3 - 3.0	614	1.63	(100) *	30	
	3.0 - 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	1	1.0	30	

F=frequency in MHz



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^{*=}Plane-wave equivalent power density



4. MPE Calculation Method

Predication of MPE limit at a given distance Equation from page 18 of OET Bulletin 65, Edition 97-01

S=PG/4πR²

Where: S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

5. Antenna Information

FPC Antenna can only use antennas certificated as follows provided by manufacturer;

Internal	Antenna type and	Operate frequency	Maximum antenna	Note
Identification	antenna number	band	gain	NOLE
Antenna	FPC Antenna	2412MHz-262MHz	2.11dBi(Max.)	WIFI Antenna

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6. Conducted Power

eu Power			
		<2.4G WIFI>	
Mode	Channel	Frequency(MHz)	Max Conducted Power (dBm)
	1	2412	15.20
IEEE 802.11b	6	2437	15.35
	11	2462	14.68
IEEE 802.11g	1	2412	14.04
	6	2437	14.14
	11	2462	13.86
IEEE 802.11n HT20	1	2412	13.98
	6	2437	13.95
	11	2462	13.70

7. Manufacturing Tolerance

< 2.4G WIFI>

11B (Peak)						
Channel	Channel 1	Channel 6	Channel 11			
Target (dBm)	15.0	15.0	14.0			
Tolerance ±(dB)	1.0	1.0	1.0			
8 8	11G (l	Peak)				
Channel	Channel 1	Channel 6	Channel 11			
Target (dBm)	14.0	14.0	13.0			
Tolerance ±(dB) 1.0		1.0	1.0			
11N20SISO (Peak)						
Channel	Channel 1	Channel 6	Channel 11			
Target (dBm)	13.0	13.0	13.0			
Tolerance ±(dB)	1.0	1.0	1.0			













8. Measurement Results

8.1 Standalone MPE

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, r =20cm, as well as the gain of the used antenna refer to antenna information, the RF power density can be obtained.

<2.4G WIFI>

	RF output power		Antenna Gain	MPE	MPE
Band/Mode	dBm	mW	(dBi)	(mW/cm2)	Limits (mW/cm2)
IEEE 802.11b	16.0	39.8107	2.11	0.0129	1.0000
IEEE 802.11g	15.0	31.6228	2.11	0.0102	1.0000
IEEE 802.11n HT20	14.0	25.1189	2.11	0.0081	1.0000

Remark:

- 1. Output power including tune-up tolerance;
- 2. MPE evaluate distance is 20cm from user manual provide by manufacturer;

8.2 Simultaneous Transmission MPE

Not Applicable

9. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

THE END OF REPORT	
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