

Equipment: Y-cam Evo, HD Wi-Fi Motion Activated Cloud

Security Camera

Brand Name : Y-cam

Model No. : HMHDI07

FCC ID : V4FY-CAMEVO

Standard : ANSI/IEEE C95.1

Applicant : Y-cam Solutions Ltd

2nd Floor Allied House, 29-39 London Road,

Twickenham, Middlesex, TW1 3SZ, United Kingdom

1190

Report No.: FA5N2626

Manufacturer : Chicony Electronics (Dong Guan) Co.,Ltd.

San Zhong Guan Li Qu, Qingxi Town, Dongguan City Guangdong 523651 China

The product sample received on Jan. 07, 2016 and completely tested on Feb. 16, 2016. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI/IEEE C95.1 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:

Kevin Liang / Assistant Manager

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Revision History

Report No.	Version	Description	Issued Date
FA5N2626	Rev. 01	Initial issue of report	May 17, 2016
	1		

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1 Human Exposure Assessment

1.1 Maximum Permissible Exposure

1.1.1 Limit of Maximum Permissible Exposure

Limits for Occupational / Controlled Exposure								
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time E ², H ² or S (minutes)				
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				
Limits for Consul Devulation / Uncontrolled Function								

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Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time E ², H ² or S (minutes)
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

Note 1: f = frequency in MHz; *Plane-wave equivalent power density

Note 2: For the applicable limit, see FCC 1.1310

1.1.2 MPE Calculation Method

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

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 (appropriate units, e.g., cm)

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1.1.3 Result of Maximum Permissible Exposure (2.4GHz)

RF General Information							
Frequency Range (MHz) IEEE Std. 802.11 Protocol Ch. Frequency (MHz) Channel Number Number of Transmit Chains (N _{TX}) Power (dB							
2400-2483.5	b	2412-2462	1-11 [11]	1	17.33		
2400-2483.5 g 2412-2462 1-11 [11] 1 16.24							

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Note 1: RF output power specifies that Maximum Conducted (Average) Output Power.

Worst Maximum RF Output Power Result							
Exposure Environme	nt	General Population / Uncontrolled Exposure					
Separation Distance (cm)	20					
Condition		RF Output Power (dBm)					
Modulation Mode	N _{TX}	Chain- Port 1	Sum Chain	DG (dBi)	EIRP Power	PD (S) (mW/cm²)	
11b	1	17.33	17.33	2.50	19.83	0.01913	
Maximum Permissible Exposure Limit (mW/cm²) 1						1	
Note 1: N _{TX} = Number of Transmit Chains							

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1.1.4 Result of Maximum Permissible Exposure (Bluetooth)

RF General Information							
Frequency Range (MHz) IEEE Std. 802.11 (MHz) Ch. Frequency Channel Number of Transmit Chains (N _{TX}) RF Output Power (dBm)							
2400-2483.5	v4.0 LE	2402-2480	0-39 [40]	1	0.35		
Note 1: RF output power specifies that Maximum Conducted (Average) Output Power.							

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Worst Maximum RF Output Power Result						
Exposure Environment	General Populatio	General Population / Uncontrolled Exposure				
Separation Distance (cm)	20	20				
Condition		RF Output Power (dBm)				
Modulation Mode	RF Output Antenna Gain EIRP Power PD (S					
v4.0 LE	0.35 2.29 2.64 0.00365					
Maximum P	1					

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