

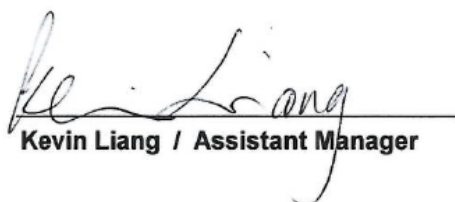
# Maximum Permissible Exposure

**Equipment** : IP Wireless Camera  
**Brand Name** : FLIR SECURE  
**Model No.** : Fxx2xxx ( x= 0-9, A-Z)  
**FCC ID** : UCZFXC21  
**Standard** : ANSI/IEEE C95.1  
**Applicant** : Lorex Technology Inc  
250 Royal Crest Court, Markham, Ontario, L3R  
**Manufacturer** : Chicony Electronics (Dong Guan ) Co.,Ltd.  
San Zhong Guan Li Qu, Qingxi Town,  
Dongguan City Guangdong 523651 China

The product sample received on Apr. 14, 2016 and completely tested on May 26, 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

[illegible]

# 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/ cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f <sup>2</sup> )*	6
30-300	61.4	0.163	1.0	6
300-1500	-	-	F/300	6
1500-100,000	-	-	5	6
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/ cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	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/cm<sup>2</sup>)

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)

**1.1.3 Result of Maximum Permissible Exposure (2.4G)**

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11 Protocol	Ch. Frequency (MHz)	Channel Number	Number of Transmit Chains (N <sub>TX</sub> )	RF Output Power (dBm)
2400-2483.5	11b	2412-2462	1-11 [11]	1	19.26
2400-2483.5	11g	2412-2462	1-11 [11]	1	18.00
Note 1: RF output power specifies that Maximum Conducted (Average) Output Power.					

Worst Maximum RF Output Power Result					
Exposure Environment		General Population / Uncontrolled Exposure			
Separation Distance (cm)		20			
Condition		RF Output Power (dBm)			
Modulation Mode	N <sub>TX</sub>	Chain- Port 1	DG (dBi)	EIRP Power	PD (S) (mW/cm <sup>2</sup> )
11b	1	19.26	0.61	19.87	0.01931
11g	1	18.00	0.61	18.61	0.01445
Maximum Permissible Exposure Limit (mW/cm <sup>2</sup> )					1
Note 1: N <sub>TX</sub> = Number of Transmit Chains					

**1.1.4 Result of Maximum Permissible Exposure (Bluetooth)**

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11 Protocol	Ch. Frequency (MHz)	Channel Number	Number of Transmit Chains (N <sub>TX</sub> )	RF Output Power (dBm)
2400-2483.5	v4.0 LE	2402-2480	0-39 [40]	1	0.38
Note 1: RF output power specifies that Maximum Conducted (Average) Output Power.					

Worst Maximum RF Output Power Result				
Exposure Environment		General Population / Uncontrolled Exposure		
Separation Distance (cm)		20		
Condition		RF Output Power (dBm)		
Modulation Mode	RF Output Power	Antenna Gain (dBi)	EIRP Power	PD (S) (mW/cm <sup>2</sup> )
v4.0 LE	0.38	0.61	0.99	0.00025
Maximum Permissible Exposure Limit (mW/cm <sup>2</sup> )				1



Worst Maximum RF Output Power Result					
Exposure Environment		General Population / Uncontrolled Exposure			
Separation Distance (cm)		20			
Condition		RF Output Power (dBm)			
Modulation Mode	N <sub>TX</sub>	RF Output Power (dBm)	DG (dBi)	EIRP Power	PD (S) (mW/cm <sup>2</sup> )
11b	1	19.26	0.61	19.87	0.01931
v4.0 LE	1	0.38	0.61	0.99	0.00025
Co-location Total					0.01956
Maximum Permissible Exposure Limit (mW/cm <sup>2</sup> )					1
Note 1: N <sub>TX</sub> = Number of Transmit Chains					