

## **RF EXPOSURE EVALUATION**

### **1. PRODUCT INFORMATION**

Product Description	Cherry Gen2 Basic Care (Home Camera)
Model Name	GEN 2 BASIC CARE
FCC ID	2AWI6-G2BCC

### **2. EVALUATION METHOD AND LIMIT**

Human exposure to RF emissions from mobile devices(47CFR§2.1091) may be evaluated based on the MPE limits adopted by the FCC for electric and magnetic field strength and/or power density, as appropriate, since exposures are assumed to occur at distances of 20 cm or more from persons.

The device under test (Cherry Gen2 Basic Care Home Camera) is not a mobile device nor a RF exposure product and it is not closed to 20cm distance from persons

### **LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE**

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density(S) (mW/cm <sup>2</sup> )	Averaging Time IEL <sup>2</sup> , IHI <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
2. The averaging time for General Population/Uncontrolled exposure to fixed transmitters is not applicable for mobile and portable transmitters. (operated in BT/ WIFI) See47CFR§§2.1091 and 2.1093 on source-based time-averaging requirement for mobile and portable transmitters.

$$S=PG/4\pi R^2$$

Where:

S=power density

P=power input to antenna

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

R=distance to the center of radiation of the antenna

### 3. CALCULATION

A minimum test separation distance 20cm is required between the antenna and radiating structures of the device and near by persons to apply mobile device exposure limits. The distance must be at least 20cm and fully supported by the operating and installation configurations of the transmitter and its antenna(s), according to the source-based time-averaged maximum power requirements of §2.1091(d)(2). In cases where cable losses or other attenuations are applied to determine compliance, the most conservative operating configurations and exposure conditions must be evaluated.

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**Antenna Gain (2.4GHz) = 1.22 dBi (Numeric =1.324) , Antenna Gain (5GHz) = 3.2 dBi (Numeric = 2.089),**

**rr = 3.14**

Frequency MHz	Output Power dBm	Output Power mW	Power Density mW/cm <sup>2</sup>	Power Density Limit mW/cm <sup>2</sup>
2437	22.54	179.47	0.047	1
5220	17.42	55.20	0.022	1

Note:

1. Only the worst case recorded.