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# Maximum Permissible Exposure Evaluation

FCC ID: 2AKUR-E-D

# 1. Client Information

Applicant	nt : Hangzhou Jufeng Technology Co., Ltd.			
Address	•	Building 9, Yinhu Innovation Center, No.9 FuXian Road, YinHu Street, Hangzhou China		
Manufacturer	:	Hangzhou Jufeng Technology Co., Ltd.		
Address		Building 9, Yinhu Innovation Center, No.9 FuXian Road, YinHu Street, Hangzhou China		

2. General Description of EUT

<b>EUT Name</b>	:	BULLET CAMERA					
Models No.		E-D, EL-2D, EL-3D, EL-5D, EG-2D, EG-3D, EG-5D, EH-2D, EH-3D, EH-5D					
Model Different	:	All these models are in the same PCB, layout and electrical circuit, the only difference is Appearance and resolution ratio.					
Product Description		Operation Frequency:  RF Output Power:  Antenna Gain:  Modulation Type:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n (HT40): 2422MHz~2452MHz 802.11b: 16.43 dBm 802.11g: 16.45 dBm 802.11n (HT20): 13.88dBm 802.11n (HT40): 13.68 dBm 3dBi External Antenna 802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n: OFDM(BPSK,QPSK,16QAM, 64QAM)				
Power Supply	•	Adapter(CS-1201000) Input: AC 100-240V, 50/60Hz, 0.5A Output: DC 12V, 1000mAh					
Software Version	:	: V1.0					
Hardware Version	•	: V1.0					
Connecting I/O Port(S)		Please refer to the User's Manual					
Remark		the MPE report used the EUT(TBBJ-20191211-05-2#).					



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# **MPE Calculations for WIFI**

#### 1. Antenna Gain:

External Antenna: 3dBi.

#### 2. EUT Operation Condition:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

## 3. Exposure Evaluation:

Equation from page 18 of OET Bulletin 65, Edition 97-01

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

Where

S: power density

P: power input to the 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



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# 4. Test Result:

Worst Maximum MPE Result										
ANT	Mode	Freq. (MHz)	Conducted Power(max ) (dBm) [P]	Tune up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Dista-nc e (cm) [R]	Power Density (mW/ cm <sup>2</sup> ) [S]	Power Density Limit (mW/ cm <sup>2</sup> )	Result
)	В	2412	15.87	16±1	17	300	20	0.01989		PASS
POTE		2437	16.43	16±1	17			0.01989		
		2462	15.71	16±1	17			0.01989		
63	G	2412	15.98	16±1	17			0.01989		
		2437	16.45	16±1	17			0.01989		
ANT		2462	15.90	16±1	17			0.01989		
1	N20	2412	13.15	13±1	14			0.00997		
		2437	13.88	14±1	15			0.01255		
		2462	13.24	13±1	14			0.00997		
333	N40	2422	13.35	13±1	14			0.00997		
		2437	13.68	14±1	15			0.01255		
	diff.	2452	13.57	14±1	15	1		0.01255	33	_ (
	Max Pow sity(mW/	•			Power D	Density=0.	01989		Tim.	E.

Note:
RF Output power specifies that Maximum Conducted Peak Output Power.



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#### 5. Conclusion:

As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),

### **Limits for General Population/ Uncontrolled Exposure**

Frequency Range (MHz)	Power density (mW/ cm²)		
300-1,500	F/1500		
1,500-100,000	1.0		

For 802.11b/g/n:2412~2462 MHz

MPE limit S: 1mW/ cm<sup>2</sup>

The MPE is calculated as 0.01989mW / cm² < limit 1mW / cm². So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.

#### Note

For a more detailed features description, please refer to the RF Test Report.

----END OF REPORT----