

Report No.: TB-MPE184787

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Maximum Permissible Exposure Evaluation

FCC ID: SJ8-CA794

1. Client Information

Applicant) :	RDI Technology (Shenzhen) Co., Ltd	
Address	13	101 to 401, Building 1, and Building 2, No. 7 Yongyue Road, East Baishixia, Fuyong, Baoan, Shenzhen, PRC. China.	
Manufacturer	:	RDI Technology (Shenzhen) Co., Ltd	
Address		101 to 401, Building 1, and Building 2, No. 7 Yongyue Road, East Baishixia, Fuyong, Baoan, Shenzhen, PRC. China.	

2. General Description of EUT

EUT Name	1	Wireless Camera				
Models No.		CA794				
Model Different						
Brand Name	:	CasaCam				
		Operation Frequency:	802.11b/g: 2412MHz~2462MHz			
Product Description		Number of Channel:	802.11b/g:11 channels			
		RF Output Power:	16.93dBm (Max)			
		Antenna Gain:	Dipole antenna, Maximum Gain: 2.0dBi			
Power Rating		Adapter(CS6D090060FUF) Input: AC 100-240V~50/60Hz 200mA Output: 9V, 0.6A 5.4W				
Software Version	:	21/2				
Hardware Version	:	N/A				
Connecting I/O Port(S)		Please refer to the User's Manual				
Remark	V	the MPE report used the EUT-2(20211014-10-2#).				



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MPE Calculations for WIFI

1. Antenna Gain:

Dipole Antenna: 2.0dBi.

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

4. Test Result:

				2.4G WiF	i MPE Result			
Mode	N тх	Freq. (MHz)	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm ²) [S]
	010	2412	16.70	16±1	17	2	20	0.0158
802.11b	1	2437	16.68	16±1	17	2	20	0.0158
	18	2462	16.93	16±1	17	2	20	0.0158
M.		2412	16.86	16±1	17	2	20	0.0158
802.11g	1	2437	16.74	16±1	17	2	20	0.0158
		2462	16.87	16±1	17	2	20	0.0158

Note:

N_{TX}= Number of Transmit Antennas

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 2.4G WIFI: 2412~2462MHz

MPE limit S: 1mW/ cm²

The MPE is calculated as **0.0158***mW* / *cm*² < *limit* 1*mW* / *cm*². 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.

6. Conclusion:

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

----END OF REPORT----