



Maximum Permissible Exposure Evaluation

FCC ID: 2BDR5-P24TX

1. Client Information

Applicant	:	Videotimes Technology (Hubei) Co.,Ltd
Address	:	B5-1, B5-2, Electronic Information Industry Park, Wuxue, Huanggang, Hubei, China.
Manufacturer	:	Videotimes Technology (Hubei) Co.,Ltd
Address	:	B5-1, B5-2, Electronic Information Industry Park, Wuxue, Huanggang, Hubei, China.

2. General Description of EUT

EUT Name	:	2.4GHz Digital Wireless Video Baby Camera	
Models No.	:	HB2438, BBM830, BBM830-2, BBM830TX, HB2438-2, HB2438TX, VT301, VT301-2, VT301TX	
Model Different	:	All of these models are identical in the same PCB, layout and circuit, the only difference is different customer, different model name and appearance.	
Product Description	:	Operation Frequency:	2.4GHz:2409.5MHz~2468MHz
	:	Number of Channel:	40Channels
	:	Antenna Gain:	2.65 dBi Built in antenna
Power Rating	:	Adapter#1: K05V050100U Input:100-240V~50/60Hz,0.2A Output:5V1A Adapter#2: A318-050100W-US2 Input:100-240V~50/60Hz,0.2A Output:5V1A	
Software Version	:	1.0	
Hardware Version	:	1.0	
Connecting I/O Port(S)	:	Please refer to the User's Manual	
Remark	:	the evaluation report used the EUT(HC-C-202311-0173-01-01-2#).	



MPE Calculations for 2.4G

1. EUT Operation Condition:

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

2. 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

3. Test Result:

2.4GHz worst reported.

Frequency	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]	Limit of Power Density (mW/ cm ²) (S)
2409.5	17.354	17±1	18	2.65	20	0.02311	1
2439.5	17.763	17±1	18	2.65	20	0.02311	1
2468	17.878	17±1	18	2.65	20	0.02311	1

4. 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/ cm ²)
300-1,500	F/1500
1,500-100,000	1.0

For 2.4GHz:2412~2469 MHz

MPE limit S: 1mW/ cm²

The MPE is calculated as **0.02311 mW / 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.

5. 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-----

