

Shenzhen Toby Technology Co., Ltd.



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Maximum Permissible Exposure Evaluation FCC ID: 2BDR5-30T

1. Client Information

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

2. General Description of EUT

Z. Ochleral E	,63	Cription of Lot			
EUT Name	1:	2.4GHz Digital Wireless Video Baby Camera			
Models No.	:		4,BBM872,HB30-2,HB30TX,HB31,BBM873, VT31-2,VT31TX,DVM64,DVM64C		
Model Different		All these models are ide	entical in the same PCB, layout and electrical nce is that the model name and appearance		
Dun duni		Operation Frequency:	2.4G:2412MHz~2469MHz		
Product	16	Number of Channel:	58Channels		
Description	100	Antenna Gain:	2.75dBi Copper Tube Antenna		
Power Rating		Please see Note(List:1)			
Software Version	•	: 1.0			
Hardware Version		1.2			
Connecting I/O Port(S)	:	Please refer to the User's Manual			





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(1) List:

	AC Adapter 1# (Model: K05V050100U):
1#	Input: 100-240V~50/60Hz, 0.2A Output: 5.0V==1.0A
24	AC Adapter 1# (Model: K05S050100U):
2#	Input: 100-240V~50/60Hz, 0.2A Output: 5.0V=1.0A
0,11	AC Adapter 1# (Model: K05E050100U):
3#	Input: 100-240V~50/60Hz, 0.2A Output: 5.0V==1.0A
411	AC Adapter 1# (Model: A318-050100W-US2):
4#	Input: 100-240V~50/60Hz, 0.2A Output: 5.0V==1.0A
RSE testing uses	only 1# adapters Evaluate worst pattern





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MPE Calculations

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)
2412MHz	15.15	15±1	16	2.75	20	0.01492	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/ cm²)
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 0.01492 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----

