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Maximum Permissible Exposure Evaluation

FCC ID: 2AF2R-HB30TX

IC ID: 20674-HB30TX

1. Client Information

Applicant		Shenzhen Videotimes Technology Co.,Ltd		
Address		Room 601, Building B, Union Financial Building, No 1 Shihua Road, Fubao Street, Futian Free Trade Zone, Shenzhen, Guangdong, China.		
Manufacturer	:	Shenzhen Videotimes Technology Co.,Ltd		
Address		Room 601, Building B, Union Financial Building, No 1 Shihua Road, Fubao Street, Futian Free Trade Zone, Shenzhen, Guangdong, China.		

2. General Description of EUT

EUT Name	:	2.4GHz Digital Wireless Video Baby Camera			
Models No.	:	HB31TX,HB30TX			
Model Different		circuit, Only the app	e identical in the same PCB layout and electrical earance design, color and model are different. C and RF performance.		
	1	Operation Frequency:	GFSK: 2403.5MHz~2468MHz		
Product	1	RF Output Power: GFSK: 17.338dBm			
Description		Antenna Gain: 2dBi FPC Antenna			
4000		Modulation Type:	GFSK (1.5 Mbps)		
Power Supply	1	DC Voltage Supply from AC/DC Adapter for TX (Camera)			
Power Rating	:	Adapter Model:K05S050100U Input: AC 100-240V~50/60Hz, 0.2A Output: DC 5.0V@1.0A			
Software Version		1.0			

TB-RF-075-1. 0

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Shenzhen Toby Technology Co., Ltd.

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Hardware Version	ė	1.2
Connecting I/O Port(S)		Please refer to the User's Manual

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MPE Calculations

1. Antenna Gain:

FPC Antenna: 2dBi.

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

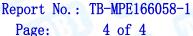
P: power input to the antenna

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:

Mode	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]
2403.5	17.338	17±1	18	2	20	0.01989495
2439.5	17.307	17±1	18	2	20	0.01989495
2468.0	17.239	17±1	18	2	20	0.01989495





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 GFSK:2403.5~2468 MHz

MPE limit S: 1mW/ cm²

The MPE is calculated as 0.01989495mW / 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-----