



Maximum Permissible Exposure Evaluation

FCC ID: 2AZFZ-DVR-BTD8-16

1. Client Information

Applicant	:	BLUE VIDEO TECHNOLOGY COMPANY LIMITED			
Address	1	FLAT/RM B,13/F,GOLD SHINE TOWER,NO.346-348 QUEEN'S RD CENTRAL, SHEUNG WAN,HONG KONG			
Manufacturer		JUFENG TECH COMPANY LIMITED			
Address	Lot S9, Street No. 11, Hai Son Industrial Park (Stage 3 + 4), Duc Hoa Ha Commune, Duc Hoa District, Long An Province, Viet Nam.				

2. General Description of EUT

EUT Name):	DVR				
Models No.	G.	DVR-BTD8-16, DVR-BTD8-162, BTD82LSA-169-B, BTD82LSA-1610-B				
Model Different		All these models are identical in the same PCB, layout and electrical circuit, Differences in the number and resolution of cameras that can be accessed.				
Product Description	100	Operation Frequency:	Bluetooth 4.2 (BLE): 2402MHz~2480MHz			
		Number of Channel:	Bluetooth 4.2 (BLE): 40 channels			
		RF Output Power: GFSK (BLE): 8.554 dBm				
		Antenna Gain:	1dBi PCB Antenna			
Power Rating	3	For Adapter (Model:CS-1202000) Input: 100-240V~, 50/60Hz 1.5A Output: DC12V—, 2.0A				
Software Version	:	N/A				
Hardware Version	:	AHB80N16R-LME AHB8016RA-NA-N68C-OWL V1.01				
Connecting I/O Port(S)		Please refer to the User's Manual				



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MPE Calculations for WIFI

1. Antenna Gain:

PCB Antenna:1.0dBi.

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:

Worst Maximum MPE Result								
Mode	N TX	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]
BLE (1 Mbps)		2402	8.554	8±1	9	1.0	20	0.0020
	1	2442	8.063	8±1	9	1.0	20	0.0020
		2480	7.64	7±1	8	1.0	20	0.0016
BLE (2 Mbps)	1972	2402	8.223	8±1	9	1.0	20	0.0020
	1	2442	7.993	7±1	8	1.0	20	0.0016
		2480	7.551	7±1	8	1.0	20	0.0016

Note:

(2) RF Output power specifies that Maximum Conducted Peak Output Power.

⁽¹⁾ N_{TX}= Number of Transmit Antennas



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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 BLE:2402~2480 MHz

MPE limit S: 1mW/ cm²

The MPE is calculated as **0.0020 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.

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----