

Report No.: TB-MPE182926

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Maximum Permissible Exposure Evaluation

FCC ID: 2AZFZ-BTD8-8-4POE

1. Client Information

| Applicant | : | BLUE VIDEO TECHNOLOGY COMPANY LIMITED | | |
|--------------|---|--|--|--|
| Address | • | FLAT/RM B, 13/F, GOLD SHINE TOWER, NO.346-348 QUEEN'S RD CENTRAL, SHEUNG WAN, HONG KONG | | |
| Manufacturer | 1 | 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. | : | DVR-BTD8-8-4POE, DVR-BTD8-8-4POE-2, CLB8D12-282ILSA | | | |
| Model Different | : | All these models are identical in the same PCB, layout and electrical circuit, the only difference is Appearance and Model name. | | | |
| Brand Name | E | Nightowl | | | |
| Product Description | | Operation Frequency: | Bluetooth 4.2(BLE): 2402MHz~2480MHz | | |
| | | Number of Channel: | Bluetooth 4.2(BLE): 40 channels see note (3) | | |
| | | RF Output Power: | 5.464 dBm (Max) | | |
| | | Antenna Gain: | 1.0 dBi PCB Antenna | | |
| Power Rating | | Adapter (CS-4801500) Input: 100-240V~, 50/60Hz, 2.0A MAX Output: DC 48V1.5A | | | |
| Software Version | : | | | | |
| Hardware Version | : | | | | |
| Connecting I/O Port(S) | | Please refer to the User's Manual | | | |
| Remark | | the MPE report used the EUT-2(20210720-32-02). | | | |



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MPE Calculations for Bluetooth

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:

Bluetooth 4.2(BLE)

| 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] | Limit of Power Density (mW/ cm ²) (S) |
|------|----------------------------------|--------------------------|--------------------------------------|--------------------------|-------------------------|---|---|
| 2402 | 5.464 | 5±1 | 6 | 1 | 20 | 0.001 | 1 |
| 2442 | 4.317 | 4±1 | 5 | 081 | 20 | 0.0008 | 1 |
| 2480 | 5.190 | 5±1 | 6 | 1 | 20 | 0.001 | 1 |



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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 Bluetooth 4.2(BLE):2402~2480 MHz

MPE limit S: 1mW/ cm²

The MPE is calculated as **0.001mW / 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----