

RF Exposure Evaluation Report

Report No.: 2405T53345EC

Applicant: Prometheus Group LLC

Address: 2 Perimeter Park South. Suite 305E BIRMINGHAM ALABAMA
35243 USA.

Product Name: HUNTING CAMERA

Product Model: BTC-VPHDL

Multiple Models: N/A

Trade Mark: BROWNING

FCC ID: 2ALGTBTC-VPHDL

Standards: 47 CFR §1.1307
KDB 447498 D04 Interim General RF Exposure Guidance v01

Test Date: 2024-06-28

Test Result: Complied

Report Date: 2024-07-01

Reviewed by:

Abel Chen

Abel Chen
Project Engineer

Approved by:

Jacob Kong

Jacob Kong
Manager

Prepared by:

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen,
Guangdong, People's Republic of China



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Revision History

Version No.	Issued Date	Description
00	2024-07-01	Original

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1 General Information

1.1 Client Information

Applicant:	Prometheus Group LLC
Address:	2 Perimeter Park South. Suite 305E BIRMINGHAM ALABAMA 35243 USA.
Manufacturer:	Prometheus Group LLC
Address:	2 Perimeter Park South. Suite 305E BIRMINGHAM ALABAMA 35243 USA.

1.2 Product Description of EUT

The EUT is HUNTING CAMERA that contains LTE radio.

Sample Serial Number	2MBB-2 for RE test, 2MBB-3 RF conducted test (assigned by WATC)
Sample Received Date	2024-06-04
Sample Status	Good Condition
Frequency Range	LTE Band 2: 1850-1910(TX); 1930-1990(RX) LTE Band 4: 1710-1755(TX); 2110-2155(RX) LTE Band 5: 824-849(TX); 869-894(RX) LTE Band 12: 699-716(TX); 729-746(RX) LTE Band 13: 777-787(TX); 746-756(RX) LTE Band 25: 1850-1915(TX); 1930-1995(RX) LTE Band 26(Part 90S): 814-824 (TX); 859-869 (RX) LTE Band 26(Part 22H): 824-849 (TX); 869-894 (RX)
Maximum Conducted Output Power	LTE Band 2: 23.28dBm, LTE Band 4: 22.25dBm LTE Band 5: 23.43dBm, LTE Band 12: 23.41dBm LTE Band 13: 23.00dBm, LTE Band 25: 23.18dBm LTE Band 26(Part 90S): 23.74dBm, LTE Band 26(Part 22H): 23.94dBm
Modulation Technology	LTE: QPSK, 16QAM
Antenna Gain [#]	Band 2: 3.89dBi; Band 4: 2.59dBi; Band 5: 2.29dBi Band 12: 4.04dBi; Band 13: 3.59dBi; Band 25: 3.89dBi Band 26: 2.29dBi
Spatial Streams	N/A
Power Supply	DC 12V from battery or DC 12V from external power port
Adapter Information	N/A
Modification	Sample No Modification by the test lab

1.3 Laboratory Location

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Tel: +86-755-29691511, Email: qa@watc.com.cn

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 463912, the FCC Designation No. : CN5040.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0160.

2 RF Exposure Evaluation

2.1 Standard

According to §1.1307(b)(3)(i), For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

- (A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);
- (B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

d = the separation distance (cm);

- (C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

Table 1 to § 1.1307(b)(3)(i)(C)—Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3–1.34	1,920 R ² .
1.34–30	3,450 R ² /f ² .
30–300	3.83 R ² .
300–1,500	0.0128 R ² f.
1,500–100,000	19.2R ² .

According to §1.1307(b)(3)(ii), For multiple RF sources: Multiple RF sources are exempt if:

(A) The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those is paragraph (b)(3)(i)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).

(B) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

2.2 Result

Single RF source:

Option C:

Radio	Frequency (MHz)	Distance (mm)	Exemption ERP (mW)	Maximum Conducted Power including Tune-up Tolerance (dBm)	Antenna Gain (dBi)	ERP		Result Option C
						dBm	mW	
LTE B2	1850-1910	200	768	23.5	3.89	25.24	334.2	exempt
LTE B4	1710-1755	200	768	22.5	2.59	22.94	196.8	exempt
LTE B5	824-849	200	422	24.0	2.29	24.14	259.4	exempt
LTE B12	699-716	200	358	23.5	4.04	25.39	345.9	exempt
LTE B13	777-787	200	398	23.5	3.59	24.94	311.9	exempt
LTE B25	1850-1915	200	768	23.5	3.89	25.24	334.2	exempt
LTE B26 (Part 90S)	814-824	200	417	24.0	2.29	24.14	259.4	exempt
LTE B26 (Part 22H)	824-849	200	422	24.0	2.29	24.14	259.4	exempt

Note: The Maximum Conducted Power including Tune-up Tolerance was declared by manufacturer.

Multiple RF sources transmission simultaneously consider:

N/A

Result: Complied

---End of Report---