

RF EXPOSURE EVALUATION REPORT

FCC ID : 2AF77-H2261820
Equipment : Wired Floodlight Camera
Brand Name : blink
Model Name : BFM00100U
BFM00100UW
Applicant : Immedia Semiconductor LLC.
100 Riverpark Drive Suite 125, North
Reading, MA, United States 01864
Manufacturer : Immedia Semiconductor LLC.
100 Riverpark Drive Suite 125, North
Reading, MA, United States 01864
Standard : 47 CFR Part 2.1091

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part2.1091 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC evaluation.

The results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full.



Approved by: Cona Huang / Deputy Manager



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History of this test report

| Report No. | Version | Description | Issued Date |
|------------|---------|-------------------------|---------------|
| FA2O0303 | Rev. 01 | Initial issue of report | Nov. 24, 2022 |
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1. Description of Equipment Under Test (EUT)

| Product Feature & Specification | |
|---|---------------------------------------|
| EUT Type | Wired Floodlight Camera |
| Brand Name | blink |
| Model Name | BFM00100U BFM00100UW |
| FCC ID | 2AF77-H2261820 |
| Wireless Technology and Frequency Range | WLAN 2.4GHz Band: 2412 MHz ~ 2484 MHz |
| Mode | WLAN: 802.11b/g/n HT20 |
| EUT Stage | Identical Prototype |

Reviewed by: Jason Wang

Report Producer: Paula Chen

2. Maximum RF average output power among production units

| Mode | Maximum Output power(dBm) |
|-------------|---------------------------|
| WLAN 2.4GHz | 19 |

3. Determination of exemption

Per 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 Pth (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). Pth is given by:

$$P_{th} \text{ (mW)} = ERP_{20cm} (d / 20)^x \text{ for distance } d \leq 20\text{cm}$$

$$P_{th} \text{ (mW)} = ERP_{20cm} \text{ for distance } 20\text{cm} < d \leq 40\text{cm}$$

$$x = -\log_{10} \left(\frac{60}{ERP_{20cm} \sqrt{f}} \right)$$

| | | |
|---------------------------|--|--------|
| $ERP_{20cm} \text{ (mW)}$ | $0.3 \text{ GHz} \leq f < 1.5 \text{ GHz}:$ | 2040 f |
| | $1.5 \text{ GHz} \leq f \leq 6 \text{ GHz}:$ | 3060 |

- (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 | $19.2 R^2$. |



4. RF Exposure Evaluation

4.1. Standalone assessment

General Note:

1. Pi means the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm.
2. Pth means the exemption threshold power (Pth) according to the § 1.1307(b)(3)(i)(B) formula for fixed, mobile, or portable RF source i.
3. In this report, Part1.1307(b)(3)(i)(B) is used to perform RF Exposure evaluation.
4. The distance of 20cm is for this device.

| Band | Antenna Gain (dBi) | Maximum Conducted Power (dBm) | Maximum EIRP (dBm) | Maximum ERP (dBm) | Maximum EIRP (mW) | Maximum ERP (mW) | Pi (dBm) | Pi (mW) | Part1.1307 option(b) Threshold (mW) |
|-------------|--------------------|-------------------------------|--------------------|-------------------|-------------------|------------------|----------|---------|-------------------------------------|
| WLAN 2.4GHz | 2.80 | 19.00 | 21.8 | 19.65 | 151.36 | 92.26 | 19.65 | 92.26 | 3060.000 |

Conclusion:

According to 47 CFR §1.1307, the RF exposure analysis concludes that the RF Exposure is FCC compliant.