

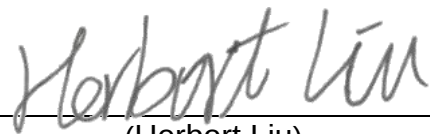
# Maximum Permissible Exposure Report

**FCC ID: 2AEUPBHASC042**

Project No. : 10804T043  
Equipment : Ring  
Test Model : Spotlight Cam-Battery  
Series Model : N/A  
Applicant : Ring, Inc.  
Address : 1523 26th St, Santa Monica, CA 90404,USA  
  
According: : FCC Guidelines for Human Exposure IEEE  
C95.1

Authorized Signatory

:

  
(Herbert Liu)

**B T L I N C .**

No.18, Ln. 171, Sec. 2, Jiuzong Rd.,  
Neihu Dist., Taipei City, Taiwan (R.O.C.)  
TEL:+886-2-2657-3299 FAX: +886-2-2657-3331



## MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi^2} = \frac{EIRP}{4\pi^2}$$

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

Table for Filed Antenna

Group I:

| Ant. | Manufacturer | Model Name | Antenna Type   | Connector | Gain (dBi) |
|------|--------------|------------|----------------|-----------|------------|
| 1    | PSA          | N/A        | Dipole Antenna | I-PEX     | 0.5        |

Group II:

| Ant. | Manufacturer | Model Name | Antenna Type   | Connector | Gain (dBi) |
|------|--------------|------------|----------------|-----------|------------|
| 1    | WIESON       | N/A        | Dipole Antenna | I-PEX     | 1.08       |

Group 2 is found to be the worst case and used for final test.

## TEST RESULTS

|             |                              |
|-------------|------------------------------|
| Test Mode : | TX B Mode / CH01, CH06, CH11 |
|-------------|------------------------------|

| Antenna Gain (dBi) | Antenna Gain (numeric) | Average Output Power (dBm) | Average Output Power (mW) | Power Density (S) (mW/cm <sup>2</sup> ) | Limit of Power Density (S) (mW/cm <sup>2</sup> ) | Test Result |
|--------------------|------------------------|----------------------------|---------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| 1.08               | 1.2823                 | 12.73                      | 18.7499                   | 0.00478575                              | 1                                                | Complies    |
| 1.08               | 1.2823                 | 12.39                      | 17.3380                   | 0.00442538                              | 1                                                | Complies    |
| 1.08               | 1.2823                 | 12.86                      | 19.3197                   | 0.00493117                              | 1                                                | Complies    |

|             |                              |
|-------------|------------------------------|
| Test Mode : | TX G Mode / CH01, CH06, CH11 |
|-------------|------------------------------|

| Antenna Gain (dBi) | Antenna Gain (numeric) | Average Output Power (dBm) | Average Output Power (mW) | Power Density (S) (mW/cm <sup>2</sup> ) | Limit of Power Density (S) (mW/cm <sup>2</sup> ) | Test Result |
|--------------------|------------------------|----------------------------|---------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| 1.08               | 1.2823                 | 11.42                      | 13.8676                   | 0.00353957                              | 1                                                | Complies    |
| 1.08               | 1.2823                 | 12.88                      | 19.4089                   | 0.00495394                              | 1                                                | Complies    |
| 1.08               | 1.2823                 | 12.11                      | 16.2555                   | 0.00414907                              | 1                                                | Complies    |

|             |                                  |
|-------------|----------------------------------|
| Test Mode : | TX N-20M Mode / CH01, CH06, CH11 |
|-------------|----------------------------------|

| Antenna Gain (dBi) | Antenna Gain (numeric) | Average Output Power (dBm) | Average Output Power (mW) | Power Density (S) (mW/cm <sup>2</sup> ) | Limit of Power Density (S) (mW/cm <sup>2</sup> ) | Test Result |
|--------------------|------------------------|----------------------------|---------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| 1.08               | 1.2823                 | 10.86                      | 12.1899                   | 0.00311136                              | 1                                                | Complies    |
| 1.08               | 1.2823                 | 12.83                      | 19.1867                   | 0.00489723                              | 1                                                | Complies    |
| 1.08               | 1.2823                 | 11.58                      | 14.3880                   | 0.00367240                              | 1                                                | Complies    |

Note:

(1) The calculated distance is 20 cm.