

FCC RF EXPOSURE REPORT

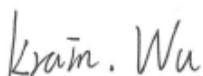
FCC ID: KA2CS8630LHA1

Project No. : 1911H008
Equipment : Full HD Wi-Fi Spotlight Camera
Brand Name : D-Link
Test Model : DCS-8630LH
Series Model : DCS-8627LH
Applicant : D-Link Corporation
Address : No.289,Sinhu 3rd Rd, Neihu District, Taipei 114, Taiwan, R.O.C
Manufacturer : D-Link Corporation
Address : No.289, Sinhu 3rd Rd, Neihu District, Taipei 114, Taiwan, R.O.C
Factory : LEEDARSON LIGHTING CO., LTD.
Address : Xingtai Industrial Zone, Economic Development Zone, Changtai County, Zhangzhou City, Fujian Province, P.R.China
Date of Receipt : Dec. 30, 2019
Date of Test : Jan. 17, 2020 ~ Mar. 13, 2020
Issued Date : Apr. 07, 2020
Report Version : R01
Test Sample : Engineering Sample No.: SH2019122670-2, SH2019122670-3, SH2020012018, SH2020030390
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091
FCC Title 47 Part 2.1091, OET Bulletin 65 Supplement C

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.



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REPORT ISSUED HISTORY

| Report Version | Description | Issued Date |
|----------------|--|---------------|
| R00 | Original Issue. | Mar. 31, 2020 |
| R01 | Add the max simultaneous transmission in page 4. | Apr. 07, 2020 |

1. 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:

For LE:

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) |
|------|-------|------------|--------------|-----------|------------|
| 1 | N/A | N/A | Internal | IPEX | 2.0 |

For Zigbee:

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) |
|------|-------|------------|--------------|-----------|------------|
| 1 | N/A | N/A | Internal | IPEX | 2.80 |

For 2.4GHz

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) | Note |
|------|-------|------------|--------------|-----------|------------|------|
| 1 | N/A | N/A | Internal | IPEX | 2.80 | N/A |
| 2 | N/A | N/A | Internal | IPEX | 2.80 | N/A |

Note:

The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R), all transmit signals are completely uncorrelated, then, Direction gain = GANT, that is Directional gain =2.80.

2. TEST RESULTS

For LE:

| Antenna Gain (dBi) | Antenna Gain (numeric) | Max. Peak Output Power (dBm) | Max. Peak Output Power (mW) | Power Density (S) (mW/cm ²) | Limit of Power Density (S) (mW/cm ²) | Test Result |
|--------------------|------------------------|------------------------------|-----------------------------|---|--|-------------|
| 2.0 | 1.5849 | 5.13 | 3.2584 | 0.00103 | 1 | Complies |

For Zigbee:

| Antenna Gain (dBi) | Antenna Gain (numeric) | Max. Peak Output Power (dBm) | Max. Peak Output Power (mW) | Power Density (S) (mW/cm ²) | Limit of Power Density (S) (mW/cm ²) | Test Result |
|--------------------|------------------------|------------------------------|-----------------------------|---|--|-------------|
| 2.80 | 1.9055 | 7.85 | 6.0954 | 0.00231 | 1 | Complies |

For 2.4GHz:

| Directional Gain (dBi) | Directional Gain (numeric) | Max. Average Output Power (dBm) | Max. Average Output Power (mW) | Power Density (S) (mW/cm ²) | Limit of Power Density (S) (mW/cm ²) | Test Result |
|------------------------|----------------------------|---------------------------------|--------------------------------|---|--|-------------|
| 2.80 | 1.9055 | 26.89 | 488.6524 | 0.18533 | 1 | Complies |

For the max simultaneous transmission MPE:

LE+2.4G+ Zigbee

| Power Density (S) (mW/cm ²) | Power Density (S) (mW/cm ²) | Power Density (S) (mW/cm ²) | Total | Limit of Power Density (S) (mW/cm ²) | Test Result |
|---|---|---|---------|--|-------------|
| LE | 2.4GHz | Zigbee | | | |
| 0.00103 | 0.00231 | 0.18533 | 0.18867 | 1 | Complies |

Note: The calculated distance is 20 cm.
Output power including tune up tolerance.

End of Test Report