

# FCC RF EXPOSURE REPORT

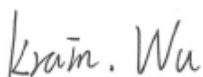
## FCC ID: KA2CS8630LHA1

**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 <sup>2</sup> ) | Limit of Power Density (S) (mW/cm <sup>2</sup> ) | 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 <sup>2</sup> ) | Limit of Power Density (S) (mW/cm <sup>2</sup> ) | 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 <sup>2</sup> ) | Limit of Power Density (S) (mW/cm <sup>2</sup> ) | 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 <sup>2</sup> ) | Power Density (S) (mW/cm <sup>2</sup> ) | Power Density (S) (mW/cm <sup>2</sup> ) | Total   | Limit of Power Density (S) (mW/cm <sup>2</sup> ) | 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**