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.

Iscaa Min

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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:

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

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) LE	Power Density (S) (mW/cm^2) 2.4GHz	Power Density (S) (mW/cm^2) Zigbee	Total	Limit of Power Density (S) (mW/cm^2)	Test Result
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