

Report No.: SA180131E09

FCC ID: KA2CS8525LHA1

Test Model: DCS-8525LH

Received Date: Jan. 31, 2018

Test Date: Feb. 08 to 13, 2018

Issued Date: Mar. 15, 2018

Applicant: D-Link Corporation

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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**FCC Registration /
Designation Number:** 723255 / TW2022

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Release Control Record

Issue No.	Description	Date Issued
SA180131E09	Original release.	Mar. 15, 2018

1 Certificate of Conformity

Product: Full HD Pan & Tilt Wi-Fi Camera

Brand: D-Link

Test Model: DCS-8525LH

Sample Status: ENGINEERING SAMPLE

Applicant: D-Link Corporation

Test Date: Feb. 08 to 13, 2018

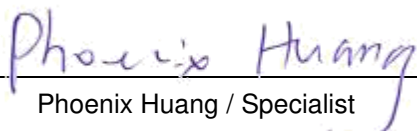
Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

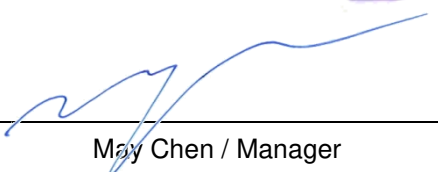
Prepared by :


Phoenix Huang / Specialist

Date:

Mar. 15, 2018

Approved by :


May Chen / Manager

Date:

Mar. 15, 2018

2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	f/1500	30
1500-100,000	1.0	30

f = Frequency in MHz ; *Plane-wave equivalent power density

2.2 MPE Calculation Formula

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user.

So, this device is classified as **Mobile Device**.

2.4 Antenna Gain

Brand Name	Model No.	Antenna Net Gain (dBi)	Frequency range (GHz ~ GHz)	Antenna Type	Connector Type	Cable Length (mm)
HL TECHNOLOGY	533080193409G	1.91	2.4~2.4835	Dipole	i-pex(MHF)	70

2.5 Calculation Result of Maximum Conducted Power

For BT-LE the Maximum power was refer to the FCC test report (Report No.: RF180131E09B-2)

WLAN:

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2412-2462	418.794	1.91	20	0.12934	1

BT-LE

Frequency Band (MHz)	Max. Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2402-2480	14.322	1.91	20	0.00442	1

Conclusion:

The formula of calculated the MPE is:

$CPD1 / LPD1 + CPD2 / LPD2 + \dots \text{etc.} < 1$

CPD = Calculation power density

LPD = Limit of power density

WLAN + Bluetooth = $0.12934 / 1 + 0.00442 / 1 = 0.13376$

Therefore the maximum calculations of above situations are less than the “1” limit.

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