

RF Exposure Report

Report No.: SA180131D03 R2

FCC ID: KA2CS2800LHA1

Test Model: DCS-2800LH

Received Date: Jan. 31, 2018

Test Date: Feb. 13 ~ Mar. 1, 2018

Issued Date: May 10, 2018

Applicant: D-Link Corporation

Address: 289 Xinhua 3rd RD Neihu district Taipei Taiwan

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
(R.O.C.)



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Table of Contents

Release Control Record	3
1 Certificate of Conformity	4
2 RF Exposure	5
2.1 Limits For Maximum Permissible Exposure (MPE).....	5
2.2 MPE Calculation Formula	5
2.3 Classification	5
2.4 Calculation Result Of Maximum Conducted Power	6

Release Control Record

Issue No.	Description	Date Issued
SA180131D03	Original release.	Mar. 2, 2018
SA180131D03 R1	Modify product name	Mar. 28, 2018
SA180131D03 R2	Modify Modulation Type from Z-Wave to FSK	May 10, 2018

1 Certificate of Conformity

Product: Wire-Free Camera

Brand: D-Link Corporation

Test Model: DCS-2800LH

Sample Status: Engineering sample

Applicant: D-Link Corporation

Test Date: Feb. 13 ~ Mar. 1, 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 RF characteristics under the conditions specified in this report.

Prepared by : Jessica Cheng, **Date:** May 10, 2018
Jessica Cheng / Senior Specialist

Approved by : Rex Lai, **Date:** May 10, 2018
Rex Lai / Associate Technical Manager

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 Calculation Result Of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2412-2462	23.65	1.93	20	0.0719	1
922	-17.78	-	20	0.0000033	0.61

Max Power (dBm): 77.42dBuV/m=-17.78dBm

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 + FSK = $0.0719 + 0.0000033 = 0.0719033$

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

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