

RF Exposure Report

Report No.: SA180515C27

FCC ID: KA2CS1820LMA1

Test Model: DCS-1820LM

Received Date: May 15, 2018

Date of Evaluation: Jun. 06, 2018

Issued Date: Jun. 07, 2018

Applicant: D-Link Corporation

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FCC Registration /

788550 / TW0003

Designation Number:





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Release Control Record

Issue No.	Description	Date Issued
SA180515C27	Original Release	Jun. 07, 2018



1 Certificate of Conformity

Product: LTE camera

Brand: D-Link Corporation

Test Model: DCS-1820LM

Sample Status: Identical Prototype

Applicant: D-Link Corporation

Date of Evaluation: Jun. 06, 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 :	<i>y</i> • • • • • • • • • • • • • • • • • • •	, Date:	Jun. 07, 2018
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Ivonne Wu / Supervisor

Dylan Chiou / Project Engineer



2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

. , , , , , , , , , , , , , , , , , , ,		Magnetic Field Power Density Strength (A/m) (mW/cm²)		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

 $Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 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**.

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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/cm²)
LTE 2 1850.7-1909.3	22.5	2.2	20	0.059	1
LTE 4 1710.7-1754.3	22.5	3.9	20	0.087	1
LTE 13 779.5-784.5	22.5	1.59	20	0.051	0.52
WLAN 2412-2462	17.5	4.4	20	0.031	1
Bluetooth 2402-2480	11.5	4.4	20	0.008	1

Conclusion:

The formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1

CPD = Calculation power density

LPD = Limit of power density

WWAN + WLAN = 0.087 + 0.027 = 0.114

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

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