

RF Exposure Report

Report No.: SA161018E04C

FCC ID: KA2SHC310A1

Test Model: DSH-C310

Received Date: Feb. 15, 2017

Test Date: Feb. 23, 2017

Issued Date: Mar. 15, 2017

Applicant: D-Link Corporation

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

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Report Issue History Record of EUT

Attachment No.	Issue Date	Description
SA161018E04	Dec. 16, 2016	Original
SA161018E04C	Mar. 15, 2017	Add DFS band <5.26 ~ 5.32GHz, 5.50 ~ 5.70GHz>

Release Control Record

Issue No.	Description	Date Issued
SA161018E04C	Original release.	Mar. 15, 2017

1 Certificate of Conformity

Product: Omna 180Cam HD

Brand: D-Link

Test Model: DSH-C310

Sample Status: ENGINEERING SAMPLE

Applicant: D-Link Corporation

Test Date: Feb. 23, 2017

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 : Wendy Wu , **Date:** Mar. 15, 2017
Wendy Wu / Specialist

Approved by : May Chen , **Date:** Mar. 15, 2017
May Chen / 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

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

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**.

2.4 Antenna Gain

Brand	Model	Antenna Net Gain(dBi)	Frequency range (GHz ~ GHz)	Antenna Type	Connector Type	Cable Length (mm)
Mgear	C037-511444-A	2.4	2.4~2.4835	PCB	MHF	56.5
		4.8	5.15~5.85			

2.5 Calculation Result of Maximum Conducted Power

For 2.4GHz and 5GHz (U-NII-1 and UNII-3 band) data was copied from the original test report (Report No.: SA161018E04)

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2412-2462	349.14	2.4	20	0.12071	1
5180-5240	221.82	4.8	20	0.13327	1
5260-5320	159.221	4.8	20	0.09566	1
5500-5700	140.605	4.8	20	0.08448	1
5745-5825	224.905	4.8	20	0.13512	1

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