RADIO TEST REPORT

Report No: STS2112351H01

Issued for

D-Link Corporation

14420 Myford Road Suite 100, Irvine California, United States

Product Name:	Compact Full HD Wi-Fi Camera
Brand Name:	D-Link
Model Name:	DCS-6100LHV2
Series Model:	DCS-6101LHV2
FCC ID:	KA2CS6100LHV2A1
Test Standard:	FCC 47CFR §2.1091

Shenzhen STS Test Services Co., Ltd.
A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China
TEL: +86-755 3688 6288 FAX: +86-755 3688 6277 E-mail:sts@stsapp.com

Test Report Certification

Applicant's Name	:	D-Link Corporation
Address	:	14420 Myford Road Suite 100, Irvine California, United States
Manufacturer's Name	:	Shenzhen Aoni Electronic Co.,Ltd
Address	:	Building 5, Honghui Industrial Park, 2nd Road Liuxian, Baoan District, Shenzhen, P.R. China, 518101

Product Description

Product Name	:	Compact Full HD Wi-Fi Camera
Brand Name	:	D-Link
Model Name	:	DCS-6100LHV2
Series Model	:	DCS-6101LHV2
Standards	:	FCC 47CFR §2.1091

Date of Test	:	
Date of receipt of test item	:	31 Dec. 2021
Date (s) of performance of tests	:	31 Dec. 2021 ~ 14 Jan. 2022
Date of Issue	:	14 Jan. 2022
Test Result	:	**Pass**

Testing Engineer : Chris Chen

(Chris Chen)

Technical Manager : Sean She

(Sean she)

Authorized Signatory : Vita

(Vita Li)

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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	14 Jan. 2022	STS2112351H01	ALL	Initial Issue

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

<table>
<tr><td>Product Name</td><td>Compact Full HD Wi-Fi Camera</td></tr>
<tr><td>Brand Name</td><td>D-Link</td></tr>
<tr><td>Model Name</td><td>DCS-6100LHV2</td></tr>
<tr><td>Series Model</td><td>DCS-6101LHV2</td></tr>
<tr><td>Model Difference</td><td>Only different in model names and shell color.</td></tr>
<tr><td>Product Description</td><td>The EUT is Compact Full HD Wi-Fi Camera
<table>
<tr><td>Operation Frequency:</td><td>802.11b/g/n 20: 2412~2462 MHz
802.11n(40MHz):2422~2452MHz</td></tr>
<tr><td>Modulation Type:</td><td>802.11b(DSSS):CCK,DQPSK,DBPSK
802.11g(OFDM):
BPSK,QPSK,16-QAM,64-QAM
802.11n(OFDM):
BPSK,QPSK,16-QAM,64-QAM</td></tr>
<tr><td>Antenna gain:</td><td>3dBi</td></tr>
<tr><td>Antenna Designation:</td><td>Ceramic Antenna</td></tr>
</table></td></tr>
<tr><td>Adapter</td><td>Input: 100-240V ~ 50/60Hz 0.25A Max
Output: DC 5V 1000mA</td></tr>
<tr><td>Hardware version number</td><td>E96KR7F-MAIM-V1.0</td></tr>
<tr><td>Software version number</td><td>1.00</td></tr>
</table>

1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD
Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

2. FCC 47CFR §2.1091 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.
Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of the human exposure to radio-frequency (RF) radiation as specified in 1.1307 (b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)
Limits for Occupational / controlled Exposures			
300 - 1500	--	--	F/300
1500 – 100000	--	--	5.0
Limits for General population / Uncontrolled Exposure			
300 - 1500	--	--	F/1500
1500 – 100000	--	--	1.0

F= Frequency in MHz

Friss Formula

Friss Transmission Formula: $Pd = (Pout * G) / (4*pi*r^2)$

Where

Pd = power density in mW/cm^2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

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

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.

2.3 EUT OPERATION CONDITION

EUT was enabled to transmit and receive at lowest, middle and highest channels.

2.4 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. Warning statement to the user for keeping at least 20cm or more separation distance from the antenna should be included in the User manual. So, this device is classified as Mobile device.

2.5 TEST RESULT

Turn up

Mode	Detector	Turn up Power
2.4G WLAN	AV	14±1dBm

ANT Gain (G)

2402-2483.5MHz: 3dBi (gain of antenna in linear scale=1.995)

Protocol	Max Turn up Power (dBm)	Max Turn up Power (mW)	ANT Gain(gain of antenna in linear scale)	Power Density (mW/cm²)	Limit (mW/cm²)	Ratio	Result
2.4G WLAN	15	31.623	1.995	0.013	1	0.013	Pass

※※※※※END OF THE REPORT※※※※※