

RF EXPOSURE REPORT

REPORT NO.: SA110908C06
MODEL NO.: DIR-653
FCC ID: KA2IR653A1
RECEIVED: Sep. 08, 2011
TESTED: Sep. 12 ~ Oct. 12, 2011
ISSUED: Oct. 19, 2011

APPLICANT: D-Link Corporation

ADDRESS: 17595 Mt. Herrmann, Fountain Valley, CA 92708, U.S.A.

- **ISSUED BY:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
- LAB ADDRESS: No. 47, 14th Ling, Chia Pau Tsuen, Lin Kou Hsiang, Taipei Hsien 244, Taiwan, R.O.C.
- **TEST LOCATION:** No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
Original release	NA	Oct. 19, 2011



1. CERTIFICATION

PRODUCT:Wireless N 300 Gigabit Home RouterMODEL:DIR-653BRAND:D-LinkAPPLICANT:D-Link CorporationTEST SAMPLE:ENGINEERING SAMPLETESTED:Sep. 12 ~ Oct. 12, 2011STANDARDS:FCC Part 2 (Section 2.1091)FCC OET Bulletin 65, Supplement C (01-01)IEEE C95.1

The above equipment (Model: DIR-653) 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

Lin / Specialist

DATE: Oct. 19, 2011

APPROVED BY

Technical Manager Gary Chang

DATE: Oct. 19, 2011



2. RF EXPOSURE

2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)			POWER DENSITY (mW/cm ²)	AVERAGE TIME (minutes)					
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE									
300-1500			F/1500	30					
1500-100,000			1.0	30					

F = Frequency in MHz

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**.



MODULATION MODE	FREQUENCY BAND (MHz)	MAX CONDUCTED POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm²)
802.11b	2412-2462	23.8	5	20	0.151	1
802.11g	2412-2462	27.2	5	20	0.330	1
802.11n (20MHz)	2412-2462	26.6	2	20	0.144	1
802.11n (40MHz)	2422-2452	27.2	2	20	0.165	1

2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

NOTE: (802.11 b/g): Directional gain =2dBi+10log(2)=5dBi