



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: KA2DIR615T1

Project No. : 1304C170
Equipment : Wireless Router
Model : DIR-612; DIR-612B; DIR-615
Applicant : D-LINK CORPORATION
**Address : No. 289, Sinhu 3rd Rd., Neihu District, Taipei City
114, Taiwan, P.O.C**

**According: : FCC Guidelines for Human Exposure IEEE
C95.05.1**

Neutron Engineering Inc.

No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.

TEL : (0769) 8318-3000 FAX : (0769) 8319-6000



MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi^2} = \frac{EIRP}{4\pi^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	HL TECHNOLOGY GROPU LIMITED	800000000237	Dipole Antenna	N/A	5.05	TX/R X
2	HL TECHNOLOGY GROPU LIMITED	800000000237	Dipole Antenna	N/A	5.05	TX/R X

Note:

The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers (2T2R).

Operating Mode TX Mode	1TX	2TX
	802.11b	V (ANT1 or ANT2)
802.11g	V (ANT1 or ANT2)	-
802.11n(20MHz)	-	V (ANT1 & ANT2)
802.11n(40MHz)	-	V (ANT1 & ANT2)



TEST RESULTS

EUT:	Wireless Router	Model Name :	DIR-612
Temperature:	24 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE CH01/CH06/CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
5.05	3.1989	18.02	63.3870	0.04035993	1	Complies
5.05	3.1989	17.94	62.2300	0.03962328	1	Complies
5.05	3.1989	18.08	64.2688	0.04092139	1	Complies

EUT:	Wireless Router	Model Name :	DIR-612
Temperature:	24 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE CH01/CH06/CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
5.05	3.1989	23.79	239.3316	0.15238786	1	Complies
5.05	3.1989	23.74	236.5920	0.15064349	1	Complies
5.05	3.1989	23.69	233.8837	0.14891909	1	Complies



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EUT:	Wireless Router	Model Name :	DIR-612
Temperature:	24 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N20MHz MODE CH01/CH06/CH11 ANT1 + ANT2		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
5.05	3.1989	23.84	242.1029	0.15415243	1	Complies
5.05	3.1989	23.17	207.4914	0.13211446	1	Complies
5.05	3.1989	23.17	207.4914	0.13211446	1	Complies

EUT:	Wireless Router	Model Name :	DIR-612
Temperature:	24 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N40MHz MODE CH03/CH06/CH09 ANT1 + ANT2		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
5.05	3.1989	23.57	227.5097	0.14486063	1	Complies
5.05	3.1989	23.39	218.2730	0.13897938	1	Complies
5.05	3.1989	23.28	212.8139	0.13550346	1	Complies

Note: the calculation distance is 20cm