



RF EXPOSURE REPORT

REPORT NO.: SA130709E03

MODEL NO.: DCAW1R1-01

FCC ID: NKR-DTVDCCKII

RECEIVED: July 09, 2013

TESTED: July 30, 2013

ISSUED: Nov. 04, 2013

APPLICANT: Wistron NeWeb Corp.

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Park, Hsinchu 308, Taiwan, R.O.C.

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

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RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|-------------|-------------------|---------------|
| SA130709E03 | Original release | Nov. 04, 2013 |



1. CERTIFICATION

PRODUCT: DIRECTV Cinema Connection Kit
BRAND NAME: DIRECTV
MODEL NO.: DCAW1R1-01
TEST SAMPLE: ENGINEERING SAMPLE
APPLICANT: Wistron NeWeb Corp.
TESTED DATE: July 30, 2013
STANDARDS: FCC Part 2 (Section 2.1091)
FCC OET Bulletin 65, Supplement C (01-01)
IEEE C95.1

The above equipment (Model: DCAW1R1-01) 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 : Phoenix Huang , **DATE:** Nov. 04, 2013
(Phoenix Huang, Specialist)

APPROVED BY : May Chen , **DATE:** Nov. 04, 2013
(May Chen, Manager)

2. RF EXPOSURE LIMIT

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 | | | | |
| 300-1500 | ... | ... | F/1500 | 30 |
| 1500-100,000 | ... | ... | 1.0 | 30 |

F = Frequency in MHz

3. MPE CALCULATION FORMULA

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

r = distance between observation point and center of the radiator in cm

4. 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**.

5. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

For 15.247(2.4GHz):

| FREQUENCY- (MHz) | MAX POWER (mW) | ANTENNA GAIN (dBi) | DISTANCE (cm) | POWER DENSITY (mW/ cm ²) | LIMIT (mW/cm ²) |
|---------------------|-------------------|--------------------------|------------------|--|--------------------------------|
| 2412-2462 | 954.694 | 3.1 | 20 | 0.38779 | 1 |

For 15.247(5GHz):

| FREQUENCY (MHz) | MAX POWER (mW) | ANTENNA GAIN (dBi) | DISTANCE (cm) | POWER DENSITY (mW/ cm ²) | LIMIT (mW/cm ²) |
|--------------------|-------------------|--------------------------|------------------|--|--------------------------------|
| 5745 ~ 5825 | 558.985 | 2.8 | 20 | 0.21190 | 1 |

For 15.407(5GHz):

| FREQUENCY (MHz) | MAX POWER (mW) | ANTENNA GAIN (dBi) | DISTANCE (cm) | POWER DENSITY (mW/ cm ²) | LIMIT (mW/cm ²) |
|--|-------------------|--------------------------|------------------|--|--------------------------------|
| 5180-5240 5260-5320 5500-5580 & 5660-5700 | 177.630 | 2.8 | 20 | 0.06734 | 1 |

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