# RF EXPOSURE REPORT

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|---|---|
| **REPORT NO.:** | SA140826E09B |
| **MODEL NO.:** | LNC230-C |
| **FCC ID:** | UCZLNC230-C |
| **RECEIVED:** | Aug. 26, 2014 |
| **TESTED:** | Sep. 16, 2014 |
| **ISSUED:** | Apr. 21, 2015 |
| **APPLICANT:** | Lorex Technology Inc. |
| **ADDRESS:** | 250 Royal Crest Court, Markham, Ontario, Canada L3R 3S1 |
| **ISSUED BY:** | Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory |
| **LAB ADDRESS :** | No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan, R.O.C. |
| **TEST LOCATION (1):** | No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan, R.O.C. |
| **TEST LOCATION (2):** | No. 49, Ln. 206, Wende Rd., Shangshan Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan, R.O.C. |

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# RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|---|---|---|
| SA140826E09B | Original release | Apr. 21, 2015 |

## 1. CERTIFICATION

| | |
|---|---|
| **PRODUCT:** | HD Wireless Color Network Camera |
| **BRAND NAME:** | LOREX |
| **MODEL NO.:** | LNC230-C |
| **TEST SAMPLE:** | ENGINEERING SAMPLE |
| **APPLICANT:** | Lorex Technology Inc. |
| **TESTED DATE:** | Sep. 16, 2014 |
| **STANDARDS:** | FCC Part 2 (Section 2.1091) |
| | KDB 447498 D03 |
| | IEEE C95.1 |

The above equipment (Model: LNC230-C) 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 :** _____ , **Date:** Apr. 21, 2015

Claire Kuan / Specialist

**Approved by :** _____ , **Date:** Apr. 21, 2015

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

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

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 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. ANTENNA GAIN

The antenna provided to the EUT, please refer to the following table:

| Antenna Type | Gain (dBi) | Connector Type | Frequency range (MHz to MHz) |
|---|---|---|---|
| Chip | 2 | NA | 2400 ~ 2500 |

## 6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

**802.11b**

| FREQUENCY (MHz) | CONDUCTED POWER (mW) | ANTENNA GAIN (dBi) | DISTANCE (cm) | POWER DENSITY ($mW/cm^2$) | LIMIT ($mW/cm^2$) |
|---|---|---|---|---|---|
| 2412 - 2462 | 36.308 | 2 | 20 | 0.01145 | 1.00 |

**802.11g**

| FREQUENCY (MHz) | CONDUCTED POWER (mW) | ANTENNA GAIN (dBi) | DISTANCE (cm) | POWER DENSITY ($mW/cm^2$) | LIMIT ($mW/cm^2$) |
|---|---|---|---|---|---|
| 2412 - 2462 | 364.754 | 2 | 20 | 0.11501 | 1.00 |

**802.11n (HT20)**

| FREQUENCY BAND (MHz) | CONDUCTED POWER (mW) | ANTENNA GAIN (dBi) | DISTANCE (cm) | POWER DENSITY ($mW/cm^2$) | LIMIT ($mW/cm^2$) |
|---|---|---|---|---|---|
| 2412 - 2462 | 299.226 | 2 | 20 | 0.09435 | 1.00 |

**802.11n (HT40)**

| FREQUENCY BAND (MHz) | CONDUCTED POWER (mW) | ANTENNA GAIN (dBi) | DISTANCE (cm) | POWER DENSITY ($mW/cm^2$) | LIMIT ($mW/cm^2$) |
|---|---|---|---|---|---|
| 2422 - 2452 | 213.796 | 2 | 20 | 0.06741 | 1.00 |

**-- END ---**