



# RF EXPOSURE REPORT

**REPORT NO.:** SA130617E08

**MODEL NO.:** XRAG-P1, XRAG-P2, XRAG-P4

**FCC ID:** NKR-XRAGP1

**RECEIVED:** June 17, 2013

**TESTED:** June 26, 2013

**ISSUED:** July 09, 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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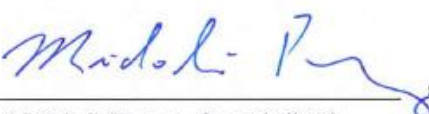
## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA130617E08	Original release	July 09, 2013

## 1.CERTIFICATION

**PRODUCT:** Second Generation RFID Smart Reader  
**BRAND NAME:** WNC  
**MODEL NO.:** XRAG-P1, XRAG-P2, XRAG-P4  
**TEST SAMPLE:** ENGINEERING SAMPLE  
**APPLICANT:** Wistron NeWeb Corp.  
**TESTED:** June 26, 2013  
**STANDARDS:** FCC Part 2 (Section 2.1091)  
FCC OET Bulletin 65, Supplement C (01-01)  
IEEE C95.1

The above equipment (Model: XRAG-P1) 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:** July 09, 2013  
( Midoli Peng, Specialist )

**APPROVED BY :** , **DATE:** July 09, 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 <sup>2</sup> )	AVERAGE TIME (minutes)
<b>LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE</b>				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

### 3. MPE CALCULATION FORMULA

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

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = 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 22cm away from the body of the user. So, this device is classified as **Mobile Device**.

## 5. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/ cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
902.75 ~ 927.25	977.237	5.50	22	0.57009	0.6

Note: Limit of Power Density = F/1500

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