

# RF EXPOSURE REPORT

**REPORT NO.:** SA120903C17

MODEL NO.: U1 Lite(WR)

FCC ID: RLS-STAVL1234

**RECEIVED:** Sep. 03, 2012

**TESTED:** Oct. 06 ~ Oct. 09, 2012

**ISSUED:** Oct. 19, 2012

APPLICANT: SYSTEMS & TECHNOLOGY CORP.

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**ISSUED BY:** Bureau Veritas Consumer Products Services

(H.K.) Ltd., Taoyuan Branch

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**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.	SUE NO. REASON FOR CHANGE	
SA120903C17	Original release	Oct. 18, 2012

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#### 1. CERTIFICATION

**PRODUCT:** GPS Vehicle Tracking Device

MODEL NO.: U1 Lite(WR)

**BRAND: CAREU** 

**APPLICANT: SYSTEMS & TECHNOLOGY CORP.** 

**TEST SAMPLE:** ENGINEERING SAMPLE

**TESTED:** Oct. 06 ~ Oct. 09, 2012

STANDARDS: FCC Part 2 (Section 2.1091)

FCC OET Bulletin 65, Supplement C (01-01)

**IEEE C95.1** 

The above equipment (Model: U1 Lite(WR)) 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 : Oct. 19, 2012

Ivonne Wu / Senior Specialist

APPROVED BY: , DATE: Oct. 19, 2012

Roy Wu / Manager



#### 2. RF EXPOSURE

### 2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)			POWER DENSITY (mW/cm²)	AVERAGE TIME (minutes)			
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE							
300-1500	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/cm<sup>2</sup>

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**.

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## 2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	ERP (dBm)	EIRP (dBm)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
824.2MHz ~ 848.8MHz	26.56	28.71	20	0.148	0.549

FREQUENCY BAND	EIRP	DISTANCE	POWER DENSITY	LIMIT
(MHz)	(dBm)	(cm)	(mW/cm²)	(mW/cm²)
1850.2MHz ~ 1909.8MHz	30.54	20	0.225	1

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