TEST REPORT

Reference No. : WTD20S12095295W003

FCC ID : 2APJQ-ICU800

Applicant.....: KEEPWAY INDUSTRIAL(ASIA)CO.,LTD

Address.....: Flat D, 8/F., SuccessInd.Bld G., No.17, SheungHeiSt., SanPoKong,

Kowloon, Honakona

Manufacturer: The same as above

Address.....: The same as above

Product.....: Wireless Trail Camera

Model(s).: : ICU800, ICU4R, ICU41R, ICU42R, ICU4W, ICU41W

Standards..... : FCC 1.1307

Date of Receipt sample : 2020-12-10

Date of Test : 2020-12-11 to 2021-02-03

Date of Issue.....: 2021-02-04

Test Result.....: Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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3 Revision History

Test report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD20S12095 295W003	2020-12-10	2020-12-11 to 2021-02-03	2021-02-04	original	-	Valid

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4 General Information

4.1 General Description of E.U.T.

Product: Wireless Trail Camera

Model(s): ICU800, ICU4R, ICU41R, ICU42R, ICU4W, ICU41W

Model Description: Only different for the model names.

WCDMA Band(s): FDD Band II/IV/V

LTE Band(s): FDD Band 2/4/5

Hardware Version: ICU800MV03

Software Version: ICU4R210129A

Highest frequency

(Exclude Radio):

Storage Location: Internal Storage

4.2 Details of E.U.T.

WCDMA Band II: 1850~1910MHz

WCDMA Band V: 824~849MHz

WCDMA Band IV:1710~1755MHz

Operation Frequency: LTE Band 2: 1850~1910MHz

LTE Band 4: 1710~1755MHz LTE Band 5: 824~849MHz

Type of Modulation: BPSK, QPSK, 16QAM

Antenna installation: internal permanent antenna

Antenna Gain: 1.0dBi Ratings: DC 12V

4.3 Test Facility

The test facility has a test site registered with the following organizations:

ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

Waltek Testing Group Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration number 7760A, October 15, 2016.

FCC Designation No.: CN1201. Test Firm Registration No.: 523476.

Waltek Testing Group Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration number 523476, September 10, 2019.

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5 Test Summary

Test Items	Test Requirement	Result	
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS	

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6 RF Exposure

Test Requirement: FCC Part 1.1307

Test Mode: The EUT work in test mode(Tx).

6.1 Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

6.2 The procedures / limit

FCC Part 1.1307:

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time E ², H ²or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f (900 / f)*		6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time E ², H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz;

^{*}Plane-wave equivalent power density

6.3 MPE Calculation Method

Predication of MPE limit at a given distance

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

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

From the peak EUT RF output power, the minimum mobile separation distance, d=20cm, as well as the gain of the used antenna, the RF power density can be obtained Remark:

FCC Part 1.1307:

Mode	Antenna Gain (dBi)	Antenna Gain (numeric)	Max.Peak Output Power (dBm)	Peak Output Power (mW)		Limit of Power Density (mW/cm²)
WCDMA (Band II)	1.00	1.259	23.00	199.53	0.049971	1
WCDMA (Band IV)	1.00	1.259	22.00	158.49	0.039694	1
WCDMA (Band V)	1.00	1.259	23.00	199.53	0.049971	1
LTE (Band II)	1.00	1.259	21.00	125.89	0.031530	1
LTE (Band IV)	1.00	1.259	22.00	158.49	0.039694	1
LTE (Band V)	1.00	1.259	23.00	199.53	0.049971	1

====End of Report=====