

TEST REPORT

Reference No...... : WTD21D02012811W003 V1
FCC ID : 2APJQ-WC30895A
Applicant..... : KEEPWAY INDUSTRIAL(ASIA)CO.,LTD
Address..... : Flat D, 8/F., SuccessInd.Bld G., No.17, SheungHeiSt., SanPoKong, Kowloon, Hongkong
Manufacturer : HUARUI TECHNOLOGY(SHENZHEN)CO.,LTD
Address..... : 401, building 3, No.32,Dafu Road, Zhangge community, Fucheng street, Longhua District, Shenzhen, China
Product..... : Covert Wireless Trail Camera
Model(s). : WC30-A, CT895A
Standards..... : FCC 1.1307
Date of Receipt sample : 2021-02-24
Date of Test : 2021-02-25 to 2021-03-15
Date of Issue..... : 2021-03-26
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.

Prepared By:

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3 Revision History

Test report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD21D02012 811W003	2021-02-24	2021-02-25 to 2021-03-15	2021-03-15	original	-	Replaced
WTD21D02012 811W003 V1	2021-02-24	2021-02-25 to 2021-03-15	2021-03-26	Version 1	Updated	Valid

4 General Information

4.1 General Description of E.U.T.

Product:	Covert Wireless Trail Camera
Model(s):	WC30-A, CT895A
Model Description:	Only the model name is different
WCDMA Band(s):	FDD Band II/IV/V
LTE Band(s):	FDD Band 2/4/12
Hardware Version:	KT895MV07
Software Version:	CT895ANC2Lx146018
Highest frequency (Exclude Radio):	26MHz
Storage Location:	Internal Storage

4.2 Details of E.U.T.

Operation Frequency:	WCDMA Band II: 1850~1910MHz
	WCDMA Band V: 824~849MHz
	WCDMA Band IV: 1710~1755MHz
	LTE Band 2: 1850~1910MHz
	LTE Band 4: 1710~1755MHz
Type of Modulation:	LTE Band 12: 699~716MHz
	BPSK, QPSK, 16QAM
	Antenna installation: External antenna with RP-SMA connector
Antenna Gain:	1.0dBi
Ratings:	DC 9V

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.

5 **Test Summary**

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

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/ cm ²)	Averaging Time E ² , H ² or 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/ cm ²)	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)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)
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	24.00	251.19	0.062910	1
LTE (Band 2)	1.00	1.259	23.00	199.53	0.049971	1
LTE (Band 4)	1.00	1.259	23.00	199.53	0.049971	1
LTE (Band 12)	1.00	1.259	23.00	199.53	0.049971	1

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