

TEST REPORT

Reference No...... : WTD25D04083471W004
FCC ID : 2BADD-R4GLPLUS
Applicant..... : Black Gate Hunting Products, LLC
Address..... : 8200 Canthy Circle, Garner, NC 27529, United States
Manufacturer : HuaRui Technology(ShenZhen)CO.,Ltd
Address..... : 401, Building 3, No.32, Dafu Road, Zhangge Community, Fucheng Street, Longhua District, Shenzhen, China
Product..... : Wireless Trail Camera
Model(s) : R4GLPLUS
Standards..... : FCC 47CFR Part 2 Subpart J Section 2.1091
Date of Receipt sample : 2025-04-08
Date of Test : 2025-04-09 to 2025-04-29
Date of Issue..... : 2025-05-29
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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2. Contents

	Page
1 COVER PAGE.....	1
2. CONTENTS.....	2
3. REVISION HISTORY.....	3
4. GENERAL INFORMATION.....	4
4.1. GENERAL DESCRIPTION OF E.U.T.....	4
4.2. DETAILS OF E.U.T.	4
4.3. TEST FACILITY	6
4.4. SUBCONTRACTED	6
4.5. ABNORMALITIES FROM STANDARD CONDITIONS	6
5. TEST SUMMARY	7
6. RF EXPOSURE.....	8
6.1. REQUIREMENTS	8
6.2. THE PROCEDURES / LIMIT	8
6.3. MPE CALCULATION METHOD.....	9
6.4. RADIO FREQUENCY RADIATION EXPOSURE EVALUATION.....	9

3. Revision History

Test Report No.	Date of Receipt Sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD25D04083471W004	2025-04-08	2025-04-09 to 2025-04-29	2025-05-29	Original	-	Valid

4. General Information

4.1. General Description of E.U.T.

Product:	Wireless Trail Camera
Model(s):	R4GLPLUS
Model Description:	N/A
Test Sample No.:	1-1/1
WCDMA Band(s):	FDD Band II/IV/V
LTE Band(s):	FDD Band 2/4/5/12/13/25/26
Hardware Version:	R4GplusMV02
Software Version:	R4G_Plus_020

4.2. Details of E.U.T.

Operation Frequency:	WCDMA Band II: 1850~1910MHz WCDMA Band IV: 1710~1755MHz WCDMA Band V: 824~849MHz LTE Band 2: 1850~1910MHz LTE Band 4: 1710~1755MHz LTE Band 5: 824~849MHz LTE Band 12: 699~716MHz LTE Band 13: 777~787MHz LTE Band 25: 1850~1915MHz LTE Band 26(Part 90): 814~824MHz LTE Band 26(Part 22): 824~849MHz
Max. RF output power:	WCDMA Band II: 22.77dBm WCDMA Band IV: 22.25dBm WCDMA Band V: 22.87dBm LTE Band 2: 23.16dBm LTE Band 4: 22.36dBm LTE Band 5: 22.95dBm LTE Band 12: 23.11dBm LTE Band 13: 22.91dBm LTE Band 25: 24.30dBm LTE Band 26(Part 90): 23.42dBm LTE Band 26(Part 22): 24.21dBm
Max. ERP/EIRP:	WCDMA Band II: 25.23dBm WCDMA Band IV: 25.24dBm WCDMA Band V: 23.82dBm LTE Band 2: 26.50dBm(QPSK), 26.66dBm(16QAM) LTE Band 4: 25.72dBm(QPSK), 25.76dBm(16QAM) LTE Band 5: 23.78dBm(QPSK), 23.62dBm(16QAM) LTE Band 12: 24.33dBm(QPSK), 24.36dBm(16QAM) LTE Band 13: 23.85dBm(QPSK), 24.02dBm(16QAM) LTE Band 25: 27.59dBm(QPSK), 27.95dBm(16QAM)

Modulation Technology:	LTE Band 26(Part 90): 25.31dBm(QPSK), 25.38dBm(16QAM)
	LTE Band 26(Part 22): 26.24dBm(QPSK), 25.58dBm(16QAM)
	WCDMA: BPSK, 16QAM
	LTE: QPSK, 16QAM
Antenna installation:	External antenna with RP-SMA connector
Antenna Gain:	WCDMA Band II: 3dBi
	WCDMA Band IV: 3dBi
	WCDMA Band V: 1dBi
	LTE Band 2: 3dBi
	LTE Band 4: 3dBi
	LTE Band 5: 1dBi
	LTE Band 12: 1dBi
	LTE Band 13: 1dBi
	LTE Band 25: 3dBi
	LTE Band 26(Part 90): 1dBi
	LTE Band 26(Part 22): 1dBi

Note:

#: The antenna gain is provided by the applicant, and the applicant should be responsible for its authenticity, WALTEK lab has not verified the authenticity of its information.

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.

4.4. Subcontracted

Whether parts of tests for the product have been subcontracted to other labs:

☐ Yes ☒ No

If Yes, list the related test items and lab information:

Test Lab: N/A

Lab address: N/A

Test items: N/A

4.5. Abnormalities from Standard Conditions

None.

5. Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	FCC Part 2.1091	PASS

6. RF Exposure

Test Requirement: FCC 47CFR Part 2 Subpart J Section 2.1091

Evaluation Method: FCC 47CFR Part 1 Subpart I Section 1.1310,
KDB 447498 D01 General RF Exposure Guidance v06

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 0.2 m normally can be maintained between the user and the device.

6.2. The procedures / limit

Table 1 to § 1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
(ii) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

6.3. MPE Calculation Method

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

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

P = output power 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, R=20cm, as well as the gain of the used antenna, the RF power density can be obtained

6.4. Radio Frequency Radiation Exposure Evaluation

Band	Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WCDMA Band II	3	2.00	22.77	189.23	0.075106	1.0
WCDMA Band IV	3	2.00	22.25	167.88	0.066631	0.55
WCDMA Band V	1	1.26	22.87	193.64	0.048492	1.0
LTE Band 2	3	2.00	23.16	207.01	0.082163	1.0
LTE Band 4	3	2.00	22.36	172.19	0.068340	1.0
LTE Band 5	1	1.26	22.95	197.24	0.049394	0.55
LTE Band 12	1	1.26	23.11	204.64	0.051248	0.47
LTE Band 13	1	1.26	22.91	195.43	0.048941	0.52
LTE Band 25	3	2.00	24.30	269.15	0.106825	1.0
LTE Band 26 (Part 90)	1	1.26	23.42	219.79	0.055039	0.54
LTE Band 26 (Part 22)	1	1.26	24.21	263.63	0.066020	0.55

Note:

1. For conservativeness, the lowest frequency of each band is used to determine the MPE limit of that band.
2. Chose the maximum power to do MPE analysis.

Conclusion:

RF Exposure is FCC compliant.

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