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MPE TEST REPORT

FCC Per 47 CFR 2.1091(b)

Report Reference No.....:	**CTL1503020528-WM**
FCC ID.....:	**2AC8CUM565-3GV**
Compiled by (position+printed name+signature)..:	File administrators Jennifer NI
Name of the organization performing the tests (position+printed name+signature)..:	Test Engineer Jacky Chen
Approved by (position+printed name+signature)..:	Manager Tracy Qi
Date of issue.....:	Mar. 11, 2015
Test Firm.....:	**Shenzhen CTL Testing Technology Co., Ltd.**
Address.....:	Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road, Nanshan District, Shenzhen, China 518055
Applicant's name.....:	**UOVision Technology (HONGKONG) Co., Ltd**
Address.....:	UNIT A3, 9/F SILVER INTERNATIONAL TOWER, 707-713 NATHAN ROAD, MONGKOK, KOWLOON, HONGKONG
Test specification:	
Standard .....:	**FCC Per 47 CFR 2.1091(b)**
TRF Originator.....:	Shenzhen CTL Testing Technology Co., Ltd.
Master TRF.....:	Dated 2011-01

Test item description ..... :	**Wireless Infrared Scouting Camera**
FCC ID……..:	**2AC8CUM565-3GV**
Trade Mark .....:	UOVision
Model/Type reference.....:	Phantom(UM565-3GV)
CDMA 2000 1X EVDO Release A	
Transmit .....:	BC0: 824~849MHz BC1:1851~1909 MHz
Receive .....:	BC0: 869~894MHz BC1: 1930-1990 MHz
Type of modulation.....:	QPSK
Antenna Gain .....:	1.0 dBi
Antenna type .....:	Internal
Result.....:	**Positive**

Test Report

Test Report No. :	**CTL1503020528-WM**	Mar. 11, 2015 Date of issue

Equipment under Test	:	**Wireless Infrared Scouting Camera**
Model /Type	:	Phantom(UM565-3GV)
Applicant	:	**UOVision Technology (HONGKONG) Co., Ltd**
Address	:	UNIT A3, 9/F SILVER INTERNATIONAL TOWER, 707-713 NATHAN ROAD, MONGKOK, KOWLOON, HONGKONG
Manufacturer		**UOVision Technology（Shenzhen）Co., Ltd.**
Address		3rd Floor, East Wing,the 4Th Building, ZhongGuan HongHualing Industrial Zone, 1268# Liuxian BLVD, Nanshan District, Shenzhen, CHN 518055

Test Result according to the standards on page 4:	**Positive**

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. SUMMARY

1.1. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- ● - supplied by the manufacturer
- o - supplied by the lab

1.2. Equipment Under Test

Power supply system utilised

Power supply voltage : o 120V / 60 Hz o 115V / 60Hz
o 12 V DC o 24 V DC
■ Other (specified in blank below)

DC 6V from battery

1.3. Description of the test mode

CTL has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode	Channel	Frequency(MHz)
BC0 (850MHz)	1013	824.70
	384	836.52
	777	848.31
BC1 (1900MHz)	25	1851.25
	600	1880.00
	1175	1908.75

Note:
1. Regards to the frequency band operation: the lowest、middle and highest frequency of channel were selected to perform the test, then shown on this report.
2. For the ERP/EIRP and radiated emission test, every axis (X, Y, Z) was verified, and show the worst result on this report.

2. TEST ENVIRONMENT

2.1. Address of the test laboratory

Shenzhen CTL Testing Technology Co., Ltd.
Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road, Nanshan District, Shenzhen, China 518055

The sites are constructed in conformance with the requirements of ANSI C6230, ANSI C63.4 (2009) and CISPR Publication 22.

2.2. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

2.3. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen CTL Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CTL laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10dB	(1)
Radiated Emission	1~12.75GHz	4.32dB	(1)
Conducted Disturbance	0.15~30MHz	3.22dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3. Method of measurement

3.1. Applicable Standard

According to §1.1307(b)(1), 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 level in excess of the Commission's guidelines.
According to §1.1310 and §2.1091 RF exposure is calculated.

3.2. Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm^2)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
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

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm^2)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	30
3.0 – 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

F=frequency in MHz
*=Plane-wave equivalent power density

3.3. MPE Calculation Method

Predication of MPE limit at a given distance
Equation from page 18 of OET Bulletin 65, Edition 97-01
$S=PG/4\pi R^2$
Where: S=power density
P=power input to antenna
G=power gain of the antenna in the direction of interest relative to an isotropic radiator
R=distance to the center of radiation of the antenna
EIRP=P+G
The measured EIRP was used for Power Density caculations.

TEST RESULTS

BC0 (850MHz)

Test Frequency (MHz)	Minimum Separation Distance (cm)	Max. EIRP (dBm)	Max. EIRP (mW)	Power Density Limit (mW/cm^2)	Power Density at 20 cm (mW/cm^2)	Test Results
824.70	20.00	26.20	416.9	0.55	0.083	Pass
836.52	20.00	26.33	429.5	0.558	0.085	Pass
848.31	20.00	26.48	444.6	0.566	0.088	Pass

BC1 (1900MHz)

Test Frequency (MHz)	Minimum Separation Distance (cm)	Max. EIRP (dBm)	Max. EIRP (mW)	Power Density Limit (mW/cm^2)	Power Density at 20 cm (mW/cm^2)	Test Results
1851.25	20.00	24.27	267.3	1.000	0.053	Pass
1880.00	20.00	24.39	274.8	1.000	0.055	Pass
1908.75	20.00	24.41	276.1	1.000	0.055	Pass

4. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 (b) for the controlled RF Exposure.

.....End of Report.....