

Shenzhen Huatongwei International Inspection Co., Ltd.

Keji S,12th, Road, Hi-tech Industrial Park, Shenzhen, Guangdong, China Phone:86-755-26748099 Fax:86-755-26748089

http://www.szhtw.com.cn



Jerone lus guchao.wang Wendiagl

MPE TEST REPORT

FCC Per 47 CFR 2.1091(b)

Report Reference No.....: TRE1309000703 R/C: 20609

FCC ID.....: Y2L00003

Compiled by

(position+printed name+signature)..: File administrators Jerome Luo

Supervised by

Test Engineer Yuchao Wang (position+printed name+signature)..:

Approved by

(position+printed name+signature)... Manager Wenliang Li

Date of issue.....: Sep 19, 2013

Testing Laboratory Name Shenzhen Huatongwei International Inspection Co., Ltd

Address....: Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China

Applicant's name..... Boly Media Communications (Asia) Co., Ltd.

WORKSHOP B9.6/F.BLOCK B.CAMBRIDGE PLAZA NO.188 SAN Address....:

WAN ROAD, SHEUNG SHUI, N.T., HONG KONG

Test specification:

FCC Per 47 CFR 2.1091(b) Standard:

KDB447498 v05r01

TRF Originator....: Shenzhen Huatongwei International Inspection CO., Ltd

Master TRF.....: Dated 2006-06

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Test item description: Hunting/Security Camera

Trade Mark: **BOLYGUARD/SCOUTGUARD**

Manufacturer..... Boly Media Communications (shenzhen) Co., Ltd.

Model/Type reference....: MG982K-10M

Listed Models:

Ratings...... DC 6.00V

Modulation: GMSK for GSM/EDGE

GPRS/ EGPRS Class..... 12

GPRS operation mode Class B

Frequency..... GSM850; PCS1900;

Result..... **Positive**

MPE TEST REPORT

Test Report No. :	TRE1309000703	Sep 19, 2013
rest Report No	11C1309000703	Date of issue

Equipment under Test : Hunting/Security Camera

Model /Type : MG982K-10M

Listed Models : /

Applicant : Boly Media Communications (Asia) Co., Ltd.

Address : WORKSHOP B9,6/F,BLOCK B,CAMBRIDGE PLAZA

NO.188 SAN WAN ROAD, SHEUNG SHUI, N.T., HONG

KONG

Manufacturer Boly Media Communications (shenzhen) Co., Ltd.

Address : 2F,Shanshui Building B,Yungu Innovation Industrial

park,NO.1183,Liuxian Blvd, Nanshan District,Shenzhen..Guangdong,China

Test Result according to the standards on page 4:	Positive
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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

0	Power Cable	Length (m):	1
		Shield :	1
		Detachable :	1
0	Multimeter	Manufacturer :	1
		Model No. :	1

1.2. **NOTE**

1. The EUT is a Hunting/Security Camera with GPRS/EDGE and 433.92MHz receiver function, The functions of the EUT listed as below:

	Test Standards	Reference Report
GPRS/EDGE	FCC Part 22/FCC Part 24	TRE1309000701
433.92MHz Receiver	FCC Part 15B	TRE1309000702
MPE	Oet 65	TRE1309000703

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2. TEST ENVIRONMENT

2.1. Address of the test laboratory

Shenzhen Huatongwei International Inspection Co., Ltd Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China Phone: 86-755-26715686 Fax: 86-755-26748089

The sites are constructed in conformance with the requirements of ANSI C63.7, 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 TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen Huatongwei International Inspection 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 Shenzhen Huatongwei laboratory is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.57 dB	(1)

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

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.

KDB447498 v05r01:Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies

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3.2. Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency	Electric Field	Magnetic Field	Power Density	Averaging Time
Range(MHz)	Strength(V/m)	Strength(A/m)	(mW/cm ²)	(minute)
	Limits for Oc	cupational/Controll	ed Exposure	
0.3 - 3.0	614	1.63	(100) *	6
3.0 - 30	3.0 – 30 1842/f		(900/f ²)*	6
30 – 300 61.4		0.163	1.0	6
300 – 1500 /		1	f/300	6
1500 – 100,000			5	6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency	Frequency Electric Field		Power Density	Averaging Time
Range(MHz)	Strength(V/m)	Strength(A/m)	(mW/cm²)	(minute)
0.3 - 3.0	614	1.63	(100) *	30
3.0 - 30	3.0 – 30 824/f		$(180/f^2)*$	30
30 – 300	27.5	0.073	0.2	30
300 – 1500	1	1	f/1500	30
1500 – 100,000	1	1	1.0	30

F=frequency in MHz

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/4πR²

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

As declared by the Applicant, the EUT transmits with the maximum soure-baed Duty Cycle of 100%-see the User manual, and the EUT is a wireless device used in a mobile application, at least 25 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum mobile separation distance, r = 25cm, as well as the gain of the used antenna is 3.00dBi, the RF power density can be obtained.

TEST RESULTS

Manufacturing tolerance

GPRS/EGPRS (GMSK Modulation)

GFR3/EGFR3 (GM3K Modulation)						
GSM 850 GPRS						
Cha	nnel	251	190	128		
1 Txslot	Target (dBm)	32.00	32.00	32.00		
1 1 XSIOL	Tolerance ±(dB)	1	1	1		
2 Typlot	Target (dBm)	29.50	29.50	29.50		
2 Txslot	Tolerance ±(dB)	1	1	1		
2 Typlot	Target (dBm)	27.50	27.50	27.50		
3 Txslot	Tolerance ±(dB)	1	1	1		
4 Txslot	Target (dBm)	26.50	26.50	26.50		
4 1 8 5 10 1	Tolerance ±(dB)	1	1	1		
		GSM 850 EGPRS				
Cha	nnel	251	190	128		
1 Txslot	Target (dBm)	31.50	31.50	31.50		
1 1 XSIUL	Tolerance ±(dB)	1	1	1		
2 Txslot	Target (dBm)	29.50	29.50	29.50		

^{*=}Plane-wave equivalent power density

	Tolerance ±(dB)	1	1	1
3 Txslot	Target (dBm)	27.50	27.50	27.50
3 1 8 5 10 1	Tolerance ±(dB)	1	1	1
4 Txslot	Target (dBm)	26.50	26.50	26.50
4 1 1 1 1 1 1 1 1	Tolerance ±(dB)	1	1	1
		GSM 1900 GPRS		
Cha	innel	810	661	512
1 Txslot	Target (dBm)	29.00	29.00	29.00
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tolerance ±(dB)	1	1	1
2 Txslot	Target (dBm)	26.50	26.50	26.50
2 1 1 1 1 1 1 1	Tolerance ±(dB)	1	1	1
3 Txslot	Target (dBm)	24.50	24.50	24.50
3 1 8 3 10 1	Tolerance ±(dB)	1	1	1
4 Txslot	Target (dBm)	23.50	23.50	23.50
4 1 1 1 1 1 1 1 1	Tolerance ±(dB)	1	1	1
		GSM 1900 EGPRS		
Cha	innel	810	661	512
1 Txslot	Target (dBm)	29.00	29.00	29.00
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tolerance ±(dB)	1	1	1
2 Txslot	Target (dBm)	26.50	26.50	26.50
2 1 1 1 1 1 1 1	Tolerance ±(dB)	1	1	1
3 Txslot	Target (dBm)	24.50	24.50	24.50
3 1 8 3 10 1	Tolerance ±(dB)	1	1	1
4 Txslot	Target (dBm)	23.50	23.50	23.50
7 1 1 1 1 1 1 1	Tolerance ±(dB)	1	1	1

GPRS850

Test Frequency (MHz)	Minimum Separation Distance (cm)	Output Power (dBm)	Output Power (mW)	Antenna Gain (Numeric)	Power Density At 25 cm (mW/cm²)	Power Density Limit (mW/cm²)	Test Results
824.20	25.00	31.62	1452.11	1.9953	0.3689	0.5495	PASS
836.60	25.00	32.37	1725.84	1.9953	0.4384	0.5577	PASS
848.80	25.00	32.46	1761.98	1.9953	0.4476	0.5659	PASS

EGPRS850

Test Frequency (MHz)	Minimum Separation Distance (cm)	Output Power (dBm)	Output Power (mW)	Antenna Gain (Numeric)	Power Density At 25 cm (mW/cm ²)	Power Density Limit (mW/cm²)	Test Results
824.20	25.00	30.96	1247.38	1.9953	0.3169	0.5495	PASS
836.60	25.00	31.82	1520.55	1.9953	0.3863	0.5577	PASS
848.80	25.00	32.06	1606.94	1.9953	0.4082	0.5659	PASS

GPRS1900

Test Frequency (MHz)	Minimum Separation Distance (cm)	Output Power (dBm)	Output Power (mW)	Antenna Gain (Numeric)	Power Density At 25 cm (mW/cm²)	Power Density Limit (mW/cm²)	Test Results
1850.20	25.00	29.75	944.06	1.9953	0.2398	1.0000	PASS
1880.00	25.00	29.97	993.12	1.9953	0.2523	1.0000	PASS
1909.80	25.00	28.68	737.90	1.9953	0.1875	1.0000	PASS

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EGPRS1900

Test Frequency (MHz)	Minimum Separation Distance (cm)	Output Power (dBm)	Output Power (mW)	Antenna Gain (Numeric)	Power Density At 25 cm (mW/cm ²)	Power Density Limit (mW/cm²)	Test Results
1850.20	25.00	29.72	937.56	1.9953	0.2382	1.0000	PASS
1880.00	25.00	29.93	984.01	1.9953	0.2500	1.0000	PASS
1909.80	25.00	28.59	722.77	1.9953	0.1836	1.0000	PASS

4. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure.
End of Report