
General RF Exposure Test Report

Report No.: AGC02562150401FH02

FCC ID : Y2L00006

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : Scouting Camera

BRAND NAME : Boly Guard, Scout Guard

MODEL NAME : MG883G-12mHD(Series model name please see attached list on page 5)

CLIENT : Boly Media Communications (Shenzhen) Co., Ltd.

DATE OF ISSUE : May 21,2015

STANDARD(S) : KDB447498 D01/ OET Bulletin 65

Attestation of Global Compliance (Shenzhen) Co., Ltd

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	May 21, 2014	Valid	Original Report

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1. TEST RESULT CERTIFICATION

Applicant Name:	Boly Media Communications (Shenzhen) Co., Ltd.
Address:	2F, Shanshui Building A, B, Yungu Innovation Industrial Park, No. 1183, Liuxian Blvd, Nanshan District, Shenzhen, Guangdong, China
Manufacturer Name:	Boly Media Communications (Shenzhen) Co., Ltd.
Address:	2F, Shanshui Building A, B, Yungu Innovation Industrial Park, No. 1183, Liuxian Blvd, Nanshan District, Shenzhen, Guangdong, China
Product Designation	Scouting Camera
Brand Name	Boly Guard, Scout Guard
Test Model	MG883G-12mHD
Series Model	Series model name please see attached list on page 6
Difference description	All the same except for the brand name, model name and appearance.
Test Standard	KDB447498 D01 General RF Exposure Guidanc v05r02/ OET Bulletin 65
Date of Test:	May 12,2015 to May 20,2015

We (AGC), Attestation of Global Compliance Co., Ltd. for compliance with the requirements set forth in the KDB447498 D01 General RF Exposure Guidanc v05r02 The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Prepared By



Bart Xie

May 21,2015

Checked By



Kidd Yang

May 21,2015

Authorized By



Solger Zhang

May 21,2015

2. TECHNICAL INFORMATION

Note: the following data is based on the information by the applicant.

ATTACHED LIST

Series model	SG883G-12mHD MG883G-XXXXX ("X" can be replaced by digit "0-9" or letter "A-Z") SG883G-XXXXX ("X" can be replaced by digit "0-9" or letter "A-Z")
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2.1 EUT DESCRIPTION

Product Designation:	Scouting Camera
Hardware version:	MG883G-V11M_20150228
Software version:	N/A
Frequency Bands:	☒ GPRS 850 ☒ GPRS 1900 (U.S. Bands) ☒ GPRS 900 ☒ GPRS 1800 (Non-U.S. Bands) ☒ UMTS FDD Band II ☒ UMTS FDD Band V (U.S. Bands) ☒ UMTS FDD Band I ☒ UMTS FDD Band VIII (Non-U.S. Bands)
Antenna:	PIFA Antenna
Type of Modulation	GPRS : GMSK WCDMA : QPSK
Antenna gain(GPRS):	1.2dBi(GPRS/WCDMA 850), 1.2dBi (GPRS/WCDMA 1900)
Power Supply:	DC 6V by Battery
Single Card:	WCDMA / GPRS Card Slot
GPRS Class	12
Extreme Vol. Limits:	DC5.1 V to 6.9 V (Normal: DC 6 V)
Extreme Temp. Tolerance	-10°C to +50°C
*** Note: The High Voltage DC6.9V and Low Voltage DC5.1V were declared by manufacturer, The EUT couldn't be operating normally with higher or lower voltage. Other functions have been performed according to verification procedure except for Bluetooth and MS function.	

Note:

1. For more details, please refer to the User's manual of the EUT.

3. RF EXPOSURE MEASUREMENT

3.1 INTRODUCTION

Human exposure to RF emissions from mobile devices (47 CFR §2.1091) may be evaluated based on the MPE limits adopted by the FCC for electric and magnetic field strength and/or power density, as appropriate, since exposures are assumed to occur at distances of 2.5 cm or more from persons.

The 1992 ANSI/IEEE standard (See Listed limit table) specifies a minimum separation distance of 1cm for performing reliable field measurements to determine adherence to MPE limits.

If the minimum separation distance between a transmitter and nearby persons is more than 2.5 cm under normal operating conditions, compliance with MPE limits may be determined at such distance from the transmitter. When applicable, operation instructions and prominent warning labels may be used to alert the exposed persons to maintain a specified distance from the transmitter or to limit their exposure durations and usage conditions to ensure compliance.

3.2 FCC LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE(MPE)**LIMITS FOR GENERAL POPULATION / CONTROLLED EXPOSURE**

Frequency Range (MHz)	E-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)*	6
1.34 -- 30	824/f	4.89/f	(900/f ²)*	6
30 -- 300	61.4	0.163	1.0	6
300 -- 1500	--	--	f/300	6
1500 -- 100,000	--	--	5	6

*Note:

1. f=Frequency in MHz * Plane-wave Equivalent Power Density.

4. CLASSIFICATION OF THE ASSESSMENT METHODS

According to user manual, The antenna of the product, under normal use condition is at least 0.2m away from the body of the user. Warning statement to the user for keeping at least 2m separation distance and the prohibition of operating to a person has been printed on the user's manual. So, this product under normal use is located on electromagnetic far field between the human body.

$$S = PG / 4\pi R^2$$

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

5. EUT OPERATION CONDITION

Make the EUT to transmit at lowest, middle and highest channel individually.

6. TEST RESULTS

Antenna Gain 1.2dBi (Numeric 1.32), $\pi = 3.1416$

GPRS 900:

Channel	Frequency	Output Power (peak)	Output Power (peak)	Power Density	Power Density Limit	Result
	MHz	dBm	mW	mW/cm ²	mW/cm ²	Pass/Fail
L	824.2	32.46	1761.98	0.463	2.75	Pass
M	836.6	32.42	1745.82	0.458	2.79	Pass
H	848.8	32.37	1725.84	0.453	2.83	Pass

GPRS 1800:

Channel	Frequency	Output Power (peak)	Output Power (peak)	Power Density	Power Density Limit	Result
	MHz	dBm	mW	mW/cm ²	mW/cm ²	Pass/Fail
L	1850.2	29.68	928.97	0.244	5	Pass
M	1880	29.64	920.45	0.242	5	Pass
H	1909.8	29.61	914.11	0.240	5	Pass

UMTS BAND II:

Channel	Frequency	Output Power (peak)	Output Power (peak)	Power Density	Power Density Limit	Result
	MHz	dBm	mW	mW/cm ²	mW/cm ²	Pass/Fail
L	1852.4	23.67	232.81	0.061	5	Pass
M	1880	23.64	231.21	0.061	5	Pass
H	1907.6	23.61	229.21	0.060	5	Pass

UMTS BAND V:

Channel	Frequency	Output Power (peak)	Output Power (peak)	Power Density	Power Density Limit	Result
	MHz	dBm	mW	mW/cm ²	mW/cm ²	Pass/Fail
L	826.4	23.71	234.96	0.062	2.75	Pass
M	836.6	23.67	232.81	0.061	2.79	Pass
H	846.6	23.64	231.21	0.061	2.82	Pass

Note: The distance between users and EUT is 0.2m.