



**BUREAU  
VERITAS**

**TEST REPORT No: (5217)091-0094(A)**

## RF EXPOSURE REPORT

To:	<b>NEW BRIGHT INDUSTRIAL CO., LTD.</b>	To:	-
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Folder No.:	NBT-17MA258ETHS-B		
Factory name:	--		
Location:	--		
Product:	614VR wifi camera Model No.: GF614C		
	Sample No:	HK170330/024	
	Date of Receipt:	March 30, 2017	
	Test date:	April 26, 2017 to May 05, 2017	
	Requirement:	FCC Part 2 (section 2.1091)	
	Method:	KDB 447498 D01 IEEE C95.1	
	FCC ID:	G6DGF614C	
<b>The results given in this report are related to the tested specimen of the described electrical apparatus.</b>			
<b>CONCLUSION: The submitted sample was found to <u>COMPLY</u> with requirement of FCC Part 15 Subpart C.</b>			
Authorized Signature:			
			
Reviewed by: Kinko Wong		Approved by: Law Man kit	
Date: May 24, 2017		Date: May 24, 2017	

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This report is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. Our report is limited to the test samples identified herein. The results set forth in this report are not necessarily indicative or representative of the statistical quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof. You shall have thirty days from receipt of this report to request additional testing of the samples or to notify us of any errors or omissions relating to our report, provided, however, such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



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## Result Summary

<b>RF EXPOSURE EVALUATION</b>			
<b>Requirement: FCC Part 2 (Section 2.1091)</b>			
Required Item	Method	Result	
		Pass	Failed
RF EXPOSURE EVALUATION	KDB 447498 D01 IEEE C95.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### Report Revision & Sample Re-submit History:

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### Location of the test laboratory

Radiated and Conducted emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.10 – 2013. An Open Area Test Site and Full Anechoic Chamber are set up for investigation and located at :

### BUREAU VERITAS HONG KONG LIMITED, EMC CENTRE

No. 2106-2107, 21/F., Westin Centre,  
26 Hung To Road,  
Kwun Tong, Kowloon,  
Hong Kong

### List of measuring equipment

#### Radiated Emission

EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DATE	CAL. DUE DATE
EMI TEST RECEIVER	R&S	ESCI	100379	22-FEB-2017	21-FEB-2018
SIGNAL ANALYZER 40GHZ	R&S	FSV 40	100977	16-AUG-2016	15-AUG-2017
BILOG ANTENNA	SCHAFFNER	CBL6112D	25229	27-FEB-2016	26-FEB-2018
OPEN AREA TEST SITE	BVCPS	N/A	N/A	18-JUN-2016	17-JUN-2017
ANECHOIC CHAMBER	ALBATROSS	M-CDC	80374004499B	11-MAY-2016	10-MAY-2017
BICONICAL ANTENNA	R&S	HK116	100179	14-APR-2016	13-APR-2018
LOG-PERIODIC DIPOLE ARRAY ANTENNA	R&S	HL223	832369/001	07-APR-2016	06-APR-2018
LOOP ANTENNA	ETS-LINDGREN	6502	00102266	06-NOV-2015	05-NOV-2017
HORN ANTENNA (1-18GHZ)	SCHWARZBECK	BBHA9120D	9120D-692	05-NOV-2016	04-NOV-2018
HORN ANTENNA (7.5 – 18GHZ)	SCHWARZBECK	HWRD 750	00015	17-JUN-2016	16-JUN-2018
WIDEBAND HORN ANTENNA	STEATITE	QWH-SL-18-40- K-SG	12688	03-SEP-2015	02-SEP-2017
COAXIAL CABLE	SUHNER	N/A	N/A	06-JAN-2017	05-JAN-2018
COAXIAL CABLE	HUBER + SUHNER	RG214	N/A	04-OCT-2016	03-OCT-2017

#### Measurement Uncertainty

MEASUREMENT	FREQUENCY	UNCERTAINTY
Radiated emissions	9kHz to 30MHz	4.2dB
	30MHz to 200MHz	4.5dB
	200MHz to 1GHz	5.6dB
	1GHz to 18GHz	4.7dB
	18GHz to 40GHz	5.2dB
Maximum Peak Conducted Output Power	30MHz to 18GHz	2.0dB

#### Remarks:-

N/A : Not Applicable or Not Available

The measurement instrumentation uncertainty would be taking into consideration on each of the test result

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**Equipment Under Test [EUT]**

**Description of Sample:**

Model Name: 614VR wifi camera  
Model Number: GF614C  
Rating: 5Vd.c.

**Description of EUT Operation:**

The Equipment Under Test (EUT) is a NEW BRIGHT INDUSTRIAL CO., LTD of Digital Device. It is a transceiver which operating at 2417MHz. The EUT transmit while received the corresponding signal, Modulation by IC, and type is GFSK.

**Antenna Requirement (Section 15.203)**

The EUT is use of a permanently antenna. The antenna consists of 7cm long wire. It is soldered on the PCB. The antenna is not replaceable or user serviceable. The requirements of S15.203 are met. There are no deviations or exceptions to the specifications.

**Photo of Antenna**





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**Limits for Maximum Permissible Exposure (MPE):**

Frequency Range [MHz]	Power Density [mW/cm <sup>2</sup> ]	Average Time [minutes]
300 – 1,500	F/1500	30
1,500 – 100,000	1.0	30

**Calculation Formula:**

$$P_d = (P_{out} \times G) / (4 \times \pi \times r^2)$$

Where:

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = output power to antenna in mW

G = gain of antenna in linear scale

$\pi$  = 3.1416

r = distance between observation point and center of the radiator in cm

**Calculation Result of Maximum Conducted Power:**

Frequency Band (MHz)	Maximum Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
2417	101.0	2	20	0.031749	1.0

\*The antenna of this product, under normal use condition, is at least 20cm away from the body of the user.

**\*\*\*\*\* End of Report \*\*\*\*\***