
Health Test Report

Report No.:AGC11034210702EH04A

PRODUCT DESIGNATION : IP Camera

BRAND NAME : Reolink

MODEL NAME : Reolink Go Plus, Reolink Go EXT

APPLICANT : REOLINK INNOVATION LIMITED

DATE OF ISSUE : May 13, 2022

STANDARD(S) : EN 62311:2020
: EN 50665:2017

REPORT VERSION : V1.0



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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	May 13, 2022	Valid	Initial release

Note: The original test report Ref. No. AGC11034210702EH04 (dated 2021-08-25), was modified on 2022-05-13 to add a model name, no further testing necessary.

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1. TEST RESULT CERTIFICATION

Applicant	REOLINK INNOVATION LIMITED
Address	FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET MONG KOK KL HONG KONG
Manufacturer	REOLINK INNOVATION LIMITED
Address	FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET MONG KOK KL HONG KONG
Factory	Shenzhen Reolink Technology Co., Ltd.
Address	2-4th Floor, Building 2, YuanLing Industrial Park, ShangWu, Shiyan Street, Bao'an District, Shenzhen, China
Product Designation	IP Camera
Brand Name	Reolink
Model Name	Reolink Go Plus, Reolink Go EXT
Declaration of Difference	All the same except the model name.
Date of test	Jul. 20, 2021~Aug. 11, 2021
Test Result	Pass

We (AGC), Attestation of Global Compliance (Shenzhen) Co., Ltd. for compliance with the requirements set forth in the European Standard EN62311:2008. The results of testing in this report apply to the product/system which was tested only.

Prepared By



Eder Zhan
(Project Engineer)

May 13, 2022

Reviewed By



Calvin Liu
(Reviewer)

May 13, 2022

Approved By



Max Zhang
Authorized Officer

May 13, 2022

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2. TECHNICAL INFORMATION

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

Product Designation	IP Camera
Brand Name	Reolink
Test Model	Reolink Go Plus
Hardware Version	L3G05 V110
Software Version	471_21072100
Operation frequency	GSM 900: 880 -915 MHz DCS1800: 1710 -1785 MHz UMTS Band I: 1920-1980 MHz; UMTS Band VIII: 880-915 MHz FDD Band 1: 1920 MHz – 1980 MHz FDD Band 3: 1710 MHz – 1785 MHz FDD Band 7: 2500 MHz – 2570 MHz FDD Band 8: 880 MHz – 915 MHz FDD Band 20: 832 MHz – 862 MHz FDD Band 28: 703 MHz -748 MHz
Modulation	LTE:QPSK/16QAM
Rated Output Power	GSM 900: 33.34dBm; DCS1800: 30.59dBm UMTS Band I:23.03dBm; UMTS Band VIII:23.07dBm LTE FDD Band 1: 22.76dBm LTE FDD Band 3:23.02dBm LTE FDD Band 7: 21.96dBm LTE FDD Band 8: 25.44dBm LTE FDD Band 20: 25.57dBm LTE TDD Band 28: 23.91dBm
Antenna Designation	PIFA Antenna
Antenna Gain	GSM900:1.75dBi; DCS1800:1.28dBi Band I:1.15dBi; Band VIII:1.75dBi FDD Band 1:1.15dBi, FDD Band 3:1.28dBi, FDD Band 7:0.89dBi, FDD Band 8:1.77dBi; FDD Band 20:1.77dBi; FDD Band 28:1.32dBi;
Power Supply	DC 3.65V

Note: For more details, please refer to the user's manual of the EUT.

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3. RF EXPOSURE MEASUREMENT

3.1 INTRODUCTION

This International Standard applies to electronic and electrical equipment for which no dedicated product- or product family standard regarding human exposure to electromagnetic fields applies.

This generic standard applies to electronic and electrical apparatus for which no dedicated product- or product family standard regarding human exposure to electromagnetic fields applies.

The frequency range covered is 0 Hz to 300 GHz.

The object of this generic standard is to provide assessment methods and criteria to evaluate such equipment against basic restrictions or reference levels on exposure of the general public related to electric, magnetic, electromagnetic fields and induced and contact current.

NOTE: This standard is intended to cover both intentional and non-intentional radiators. If the equipment complies with the requirements in another relevant standard, e.g. EN 62479 covering low power equipment, then the requirements of this standard (IEC 62311) are considered to be met and the application of this standard to that equipment is not necessary.

3.2 TEST LIMIT

According to EN 62311:2008, the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified 1999/5/EC.

Reference level for electric, magnetic and electromagnetic fields (0Hz to 300GHz, Unperturbed rms values)				
Frequency Range	E-field Strength (V/m)	H-Field Strength (A/m)	B-Field (UT)	Equivalent plane Wave Power Density (W/m ²)
0-1 Hz	--	3.2×10^4	4×10^4	--
1-8 Hz	10000	$3.2 \times 10^4 / f^2$	$4 \times 10^4 / f^2$	--
8-25 Hz	10000	4000/f	5000/f	--
0.025-0.8 KHz	250/f	4/f	5/f	--
0.8-3 KHz	250/f	5	6.25	--
3-150 KHz	87	5	6.25	--
0.15-1 MHz	87	0.73/f	0.92/f	--
1-10 MHz	$87 / f^{1/2}$	0.73/f	0.92/f	--
10-400 MHz	28	0.073	0.092	2
400-2000 MHz	$1.375 f^{1/2}$	$0.0037 f^{1/2}$	$0.0046 f^{1/2}$	f/200
2-300 GHz	61	0.16	0.20	10

*Note:

1. f as indicated in the frequency range column.
2. Provided that basic restrictions are met and adverse indirect effects can be excluded, field strength values can be exceeded.
3. For frequencies between 100 kHz and 10 GHz, S, E2, H2 and B2 are to be averaged over any 6-min period.
4. For peak values at frequencies up to 100 kHz see Table 4, note 3.
5. For peak values at frequencies exceeding 100 kHz see Figs.1 and 2. Between 100 KHz and 10MHz, peak values for the field strengths are obtained by interpolation from the 1.5-fold peak at 100 kHz to the 32-fold peak at 10 MHz. For frequencies exceeding 10 MHz it is suggested that the peak equivalent plane wave power density, as averaged over the pulse width, does not exceed 1,000 times the S restrictions, or that the field strength does not exceed 32 times the field strength exposure levels given in the table.
6. For frequencies exceeding 10 GHz, S, E2, H2 and B2 are to be averaged over any 68/ f1.05 –min period (f in GHz).
7. No E-field value is provided for frequencies < 1 Hz, which are effectively static electric fields, Electric shock from low impedance sources is prevented by established electrical safety procedures for such equipment

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4. CLASSIFICATION OF THE ASSESSMENT METHODS

According to User manual, the antenna of the product is at least 25cm away from the body of the user. Warning statement to the user for keeping at least 25cm 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.

Far Field Calculation Formula

$$E = \eta_0 H = \frac{\sqrt{30PG(\theta, \phi)}}{r}$$

G = antenna gain relative to an isotropic antenna
 θ, ϕ = elevation and azimuth angles to point of investigation
 r = distance from observation point to the antenna
 η_0 = Characteristic impedance of free space

The Pointing vector gives the power density:

$$S = E \times H = \frac{E^2}{\eta} = \frac{P}{4\pi r^2}$$

5. EUT OPERATION CONDITION

Set the EUT to transmit at lowest, middle and highest channel individually at maximum power.

Note: only worst case recorded in the test report.

6. TEST RESULTS

Operating Band	Frequency	Output Power	Antenna Gain (Linera)	Output Power	E-Field Strength	E-Field Limit	Result
	MHz	dBm	(dBi)	W	V/m	V/m	Pass/Fail
GSM 900	880	33.34	1.50	2.1577	39.415	40.79	Pass
DCS1800	1785	30.59	1.34	1.1455	27.144	58.09	Pass
UMTS Band I	1920	23.03	1.30	0.2009	11.197	60.25	Pass
UMTS Band VIII	915	23.07	1.50	0.2028	12.083	41.59	Pass
LTE Band 1	1977.5	22.76	1.30	0.1888	10.854	60.41	Pass
LTE Band 3	1775.0	23.02	1.34	0.2004	11.355	62.29	Pass
LTE Band 7	2502.5	21.96	1.23	0.1570	9.629	61.00	Pass
LTE Band 8	880.7	25.44	1.50	0.3499	15.873	40.81	Pass
LTE Band 20	834.5	25.57	1.50	0.3606	16.113	39.72	Pass
LTE Band 28	704.5	23.91	1.36	0.2460	12.673	36.50	Pass

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