



RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

FCC ID	2A4AS-2303A
Product Description	IP Camera
Model Name	Reolink Go PT Ultra, Reolink Go PT EXT 4K, G4K4GPTM32, Reolink Go PT Plus, Reolink Go PT EXT 5MP, G5M4GPTM32
Frequency Band (Operating)	WCDMA Band V: 826.4-846.6 MHz LTE BAND 2: Uplink: 1850-1910 MHz, Downlink: 1930-1990 MHz LTE BAND 4: Uplink: 1710-1755 MHz, Downlink: 2110-2155 MHz LTE BAND 5: Uplink: 824-849 MHz, Downlink: 869-894 MHz LTE BAND 12: Uplink: 699-716 MHz, Downlink: 729-746 MHz LTE BAND 13: Uplink: 777-787 MHz, Downlink: 746-756 MHz LTE BAND 14: Uplink: 788-798 MHz, Downlink: 758-768 MHz LTE BAND 66: Uplink: 1710-1780 MHz, Downlink: 2110-2200 MHz LTE BAND 71: Uplink: 663-698 MHz, Downlink: 617-652 MHz
Device Category	<input type="checkbox"/> Portable (<20cm separation) <input checked="" type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others:
Antenna Diversity	<input checked="" type="checkbox"/> Single antenna <input type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input type="checkbox"/> Tx/Rx diversity
Max. Output Power	WCDMA850:23.13dBm LTE BAND 2: 20.98dBm; LTE BAND 4: 23.76dBm; LTE BAND 5: 26.64dBm; LTE BAND 12: 24.88dBm; LTE BAND 13: 21.54dBm; LTE BAND 14: 22.85dBm; LTE BAND 66: 23.70dBm; LTE BAND 71: 21.83dBm
Antenna Gain	WCDMA850:1.0dBi LTE BAND 2: 0.61dBi; LTE Band 4: 0.42dBi; LTE Band 5: 1.0dBi; LTE Band 12: 0.78dBi; LTE Band 13: 0.69dBi; LTE Band 14: 0.7dBi; LTE Band 66:0.5dBi; LTE Band 71:0.45dBi
Minimum Assessment Distance	20cm
Evaluation Applied	<input checked="" type="checkbox"/> MPE Evaluation <input type="checkbox"/> SAR Evaluation
Evaluation Result	Pass

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2. PORTABLE DEVICE EVALUATION METHOD AND LIMIT

Following FCC KDB 447498 D01 "General SAR test exclusion guidance" The corresponding SAR Exclusion Threshold condition, listed below:

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
$$\left[\frac{\text{(max. power of channel, including tune-up tolerance, mW)}}{\text{(min. test separation distance, mm)}} \right] \left[\sqrt{f(\text{GHz})} \right]$$
$$\leq 3.0 \text{ for 1-g SAR, and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$
 - $f(\text{GHz})$ is the RF channel transmit frequency in GHz.
 - Power and distance are rounded to the nearest mW and mm before calculation.
 - The result is rounded to one decimal place for comparison The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

- 2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:
 - a) [Threshold at 50 mm in step 1) + (test separation distance - 50mm) (f(MHz)/150)] mW, at 100MHz to 1500 MHz;
 - b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)-10] mW at > 1500 MHz and ≤ 6 GHz;

- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
 - a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by $[1 + \log(100/f(\text{MHz}))]$ for test separation distances > 50 mm and < 200 mm.
 - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by 1/2 for test separation distances ≤ 50 mm.
 - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

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3. MOBILE DEVICE EVALUATION METHOD AND LIMIT

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 20 cm or more from persons.

LIMITS FOR GENERAL POPULATION / UNCONTROLLED 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)*	30
1.34 -- 30	824/f	2.19/f	(180/f ²)*	30
30 -- 300	27.5	0.073	0.2	30
300 -- 1500	--	--	f/1500	30
1500 -- 100,000	--	--	1.0	30

*Note:

1. f= Frequency in MHz * Plane-wave Equivalent Power Density
2. The averaging time for General Population/Uncontrolled exposure to fixed transmitters is not applicable for mobile and portable transmitters. See 47 CFR §§2.1091 and 2.1093 on source-based time-averaging requirement for mobile and portable transmitters.

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

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

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Attestation of Global Compliance(Shenzhen)Co., Ltd

Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

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



MEASUREMENT RESULT

A minimum test separation distance ≥ 20 cm is required between the antenna and radiating structures of the device and nearby persons to apply mobile device exposure limits. The distance must be at least 20 cm and fully supported by the operating and installation configurations of the transmitter and its antenna(s), according to the source-based time-averaged maximum power requirements of § 2.1091(d)(2). In cases where cable losses or other attenuations are applied to determine compliance, the most conservative operating configurations and exposure conditions must be evaluated.

WCDMA BAND V: Antenna Gain=1.0dBi (Numeric 1.26), $\pi=3.14$

LTE BAND 2: Antenna Gain=0.64dBi (Numeric 1.16), $\pi=3.14$

LTE BAND 4: Antenna Gain=0.42dBi (Numeric 1.10), $\pi=3.14$

LTE BAND 5: Antenna Gain=1.00dBi (Numeric 1.26), $\pi=3.14$

LTE BAND 12: Antenna Gain=0.78dBi (Numeric 1.20), $\pi=3.14$

LTE BAND 13: Antenna Gain=0.69dBi (Numeric 1.17), $\pi=3.14$

LTE BAND 14: Antenna Gain=0.70dBi (Numeric 1.17), $\pi=3.14$

LTE BAND 66: Antenna Gain=0.50dBi (Numeric 1.12), $\pi=3.14$

LTE BAND 71: Antenna Gain=0.45dBi (Numeric 1.11), $\pi=3.14$

Test Mode	Test Frequency (MHz)	Max.Output Power (dBm)	Max.Output Power (mW)	Power Density (mW/cm ²)	Measurement Limit (mW/cm ²)
WCDMA Band V	826.4	23.13	205.589	0.0515	0.551
LTE BAND 2	1880	20.98	125.314	0.0289	1.000
LTE BAND 4	1732.5	23.76	237.68	0.0521	1.000
LTE BAND 5	847.5	26.64	461.32	0.1156	0.565
LTE BAND 12	707.5	24.88	307.61	0.0733	0.472
LTE BAND 13	782	21.54	142.56	0.0333	0.521
LTE BAND 14	795.5	22.85	192.75	0.0451	0.530
LTE BAND 66	1779.3	23.70	234.42	0.0523	1.000
LTE BAND 71	688	21.83	152.41	0.0336	0.459

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