



## RF EXPOSURE EVALUATION

### 1. PRODUCT INFORMATION

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FCC ID                      | 2A4AS-2304A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Product Description         | IP Camera                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Model Name                  | Reolink Go Ultra, Reolink Go Plus, Reolink Go EXT 4K, Reolink Go EXT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Frequency Band (Operating)  | <input checked="" type="checkbox"/> LTE Band 2:1850 MHz -1909.9 MHz<br><input checked="" type="checkbox"/> LTE Band 4:1710 MHz -1754.9 MHz<br><input checked="" type="checkbox"/> LTE Band 5:824 MHz -848.9 MHz<br><input checked="" type="checkbox"/> LTE Band 12:699 MHz -715.9 MHz<br><input checked="" type="checkbox"/> LTE Band 13:777 MHz -786.9 MHz<br><input checked="" type="checkbox"/> LTE Band 14: 788 MHz -798 MH<br><input checked="" type="checkbox"/> LTE Band 66:1710 MHz -1780 MHz<br><input checked="" type="checkbox"/> LTE Band 71:663MHz -698 MHz |
| Device Category             | <input type="checkbox"/> Portable (<20cm separation)<br><input checked="" type="checkbox"/> Mobile (>20cm separation)<br><input type="checkbox"/> Others:                                                                                                                                                                                                                                                                                                                                                                                                                |
| Antenna Diversity           | <input checked="" type="checkbox"/> Single antenna<br><input type="checkbox"/> Multiple antennas<br><input type="checkbox"/> Tx diversity<br><input type="checkbox"/> Rx diversity<br><input type="checkbox"/> Tx/Rx diversity                                                                                                                                                                                                                                                                                                                                           |
| Antenna Gain                | LTE Band 2: 2.51dBi; LTE Band 4: 1.07dBi; LTE Band 5: -0.84Bi;<br>LTE Band 12: -0.19dBi; LTE Band 13: -0.50dBi;LTE Band 14: -0.58dBi;<br>LTE Band 66:1.07dBi; LTE Band 71:-0.94dBi                                                                                                                                                                                                                                                                                                                                                                                       |
| Minimum Assessment Distance | 20cm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Evaluation Applied          | <input checked="" type="checkbox"/> MPE Evaluation<br><input type="checkbox"/> SAR Evaluation                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Evaluation Result           | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

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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  $\leq 50$  mm are determined by:  
$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] [\sqrt{f(\text{GHz})}]}{\leq 3.0 \text{ for 1-g SAR, and } \leq 7.5 \text{ for 10-g extremity SAR, where}}$$
  - $f(\text{GHz})$  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  $\leq 50$  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) (  $f(\text{MHz})/150$ )] 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  $\leq 6$  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  $\leq 50$  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 <sup>2</sup> ) | Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (Minutes) |
|-----------------------|----------------------------|-----------------------------------|-----------------------------------------|-------------------------------------------------------------------|
| 0.3 -- 1.34           | 614                        | 1.63                              | (100)*                                  | 30                                                                |
| 1.34 -- 30            | 824/f                      | 2.19/f                            | (180/f <sup>2</sup> )*                  | 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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#### 4. MEASUREMENT RESULT

A minimum test separation distance  $\geq 20$  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.

| Test Mode   | Test Frequency (MHz) | Antenna Gain (linear) | Max. Output Power (dBm) | Max. Output Power (mW) | Power Density (mW/cm <sup>2</sup> ) | Measurement Limit (mW/cm <sup>2</sup> ) |
|-------------|----------------------|-----------------------|-------------------------|------------------------|-------------------------------------|-----------------------------------------|
| LTE BAND 2  | 1880                 | 1.78                  | 24.88                   | 307.610                | 0.1091                              | 1.253                                   |
| LTE BAND 4  | 1747.5               | 1.28                  | 25.60                   | 363.078                | 0.0924                              | 1.165                                   |
| LTE BAND 5  | 824.7                | 0.82                  | 23.21                   | 209.411                | 0.0343                              | 0.550                                   |
| LTE BAND 12 | 700.5                | 0.96                  | 23.97                   | 249.459                | 0.0475                              | 0.467                                   |
| LTE BAND 13 | 782                  | 0.89                  | 23.11                   | 204.644                | 0.0363                              | 0.521                                   |
| LTE BAND 14 | 793                  | 0.87                  | 23.72                   | 235.505                | 0.0410                              | 0.529                                   |
| LTE BAND 66 | 1772.5               | 1.28                  | 24.46                   | 279.254                | 0.0711                              | 1.182                                   |
| LTE BAND 71 | 680.5                | 0.81                  | 22.67                   | 184.927                | 0.0296                              | 0.454                                   |

Note:

1. Only the worst case recorded.