



Test Report No.: FS170531N026

## RF EXPOSURE REPORT

|           |                                                                               |
|-----------|-------------------------------------------------------------------------------|
| Applicant | GUANGDONG SYMA MODEL AIRCRAFT INDUSTRIAL CO., LTD                             |
| Address   | NO.2 West Xingye Road Laimei Industrial Area Chenghai Shantou Guangdong China |

|                                     |                                                                               |
|-------------------------------------|-------------------------------------------------------------------------------|
| Manufacturer or Supplier            | GUANGDONG SYMA MODEL AIRCRAFT INDUSTRIAL CO., LTD                             |
| Address                             | NO.2 West Xingye Road Laimei Industrial Area Chenghai Shantou Guangdong China |
| Product                             | wifi Camera                                                                   |
| Brand Name                          | LOGIC                                                                         |
| Model                               | LOG1632-R2                                                                    |
| Additional Model & Model Difference | N/A                                                                           |
| Date of tests                       | Jun. 01, 2017 ~ Jul. 10, 2017                                                 |

☒ FCC Part 2 (Section 2.1091)

☒ KDB 447498 D01

☒ IEEE C95.1

**CONCLUSION:** The submitted sample was found to COMPLY with the test requirement

Tested by Breeze Jiang  
Project Engineer / EMC Department

Approved by Glyn He  
Supervisor / EMC Department

Date: Jul. 12, 2017

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## RELEASE CONTROL RECORD

| ISSUE NO.    | REASON FOR CHANGE | DATE ISSUED   |
|--------------|-------------------|---------------|
| FS170531N026 | Original release  | Jul. 12, 2017 |

## 1. CERTIFICATION

|                        |                                   |
|------------------------|-----------------------------------|
| <b>FCC ID:</b>         | QV7-GC88752-13                    |
| <b>PRODUCT:</b>        | wifi Camera                       |
| <b>BRAND NAME:</b>     | LOGIC                             |
| <b>MODEL NO.:</b>      | LOG1632-R2                        |
| <b>ADDITIONAL NO.:</b> | N/A                               |
| <b>TEST SAMPLE:</b>    | Engineering Sample                |
| <b>APPLICANT:</b>      | SHENZHEN LOGIC TECHNOLOGY LIMITED |
| <b>STANDARDS:</b>      | FCC Part 2 (Section 2.1091)       |
|                        | KDB 447498 D01                    |
|                        | IEEE C95.1                        |

## 2. RF EXPOSURE LIMIT

### LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| FREQUENCY RANGE (MHz)                                 | ELECTRIC FIELD STRENGTH (V/m) | MAGNETIC FIELD STRENGTH (A/m) | POWER DENSITY (mW/cm <sup>2</sup> ) | AVERAGE TIME (minutes) |
|-------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|------------------------|
| LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE |                               |                               |                                     |                        |
| 300-1500                                              | ...                           | ...                           | F/1500                              | 30                     |
| 1500-100,000                                          | ...                           | ...                           | 1.0                                 | 30                     |

F = Frequency in MHz

## 3. MPE CALCULATION FORMULA

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

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

## 4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

## 5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

| Transmitter Circuit | Peak Gain (dBi) | Antenna Type |
|---------------------|-----------------|--------------|
| Chain 0             | 2               | Wire Antenna |

## 6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The tuned conducted Average Power (declared by client)

| Mode          | Frequency (MHz) | Target Power (dBm) | Tolerance (dBm) | Lower Tolerance (dBm) | Upper Tolerance (dBm) |
|---------------|-----------------|--------------------|-----------------|-----------------------|-----------------------|
| 802.11b       | 2412-2462       | 12                 | +2              | 10                    | 14                    |
| 802.11g       | 2412-2462       | 11                 | +2              | 9                     | 13                    |
| 802.11n(HT20) | 2412-2462       | 10                 | +2              | 8                     | 12                    |

The measured conducted Average Power

| Mode          | Frequency (MHz) | Averaged Power (dBm) |
|---------------|-----------------|----------------------|
| 802.11b       | 2412            | 12.14                |
| 802.11g       | 2412            | 11.46                |
| 802.11n(HT20) | 2437            | 10.11                |

| FREQUENCY BAND (MHz) | MAX AVERAGE POWER (dBm) | ANTENNA GAIN (dBi) | DISTANCE (cm) | POWER DENSITY (mW/cm <sup>2</sup> ) | LIMIT (mW/cm <sup>2</sup> ) |
|----------------------|-------------------------|--------------------|---------------|-------------------------------------|-----------------------------|
| 2412-2462            | 14                      | 2                  | 20            | 0.00792                             | 1.0                         |

--- END ---