RF Exposure Evaluation Declaration

Product Name	:	Parrot Camera FPV
Model No.	:	Camera FPV
FCC ID	:	2AG6ICAMFPV

Applicant	:	PARROT DRONE SAS
Address	:	174 Quai de Jemmapes Paris France 75010

Date of Receipt	:	Jul. 13th, 2017
Issued Date	:	Aug. 30th, 2017
Report No.	:	1772069R-RF-US- P20V01
Report Version	:	V1.2

Test Report Certification

Issued Date : Aug. 30th, 2017
Report No. : 1772069R-RF-US-P20V01

Product Name	:	Parrot Camera FPV
Applicant	:	PARROT DRONE SAS
Address	:	174 Quai de Jemmapes Paris France 75010
Manufacturer	:	GoerTek Inc.
Address	:	NO 268 DONGFANG NEW&HIGH-TECH INDUSTRY DEVELOPMENT ZONE WEIFANG,SHANDONG 261031
Model No.	:	Camera FPV
FCC ID	:	2AG6ICAMFPV
EUT Voltage	:	DC 3.3V
Test Voltage	:	AC120V/60Hz
Brand Name	:	Parrot
Applicable Standard	:	KDB 447498D01V06 FCC Part1.1310
Test Result	:	Complied
Performed Location	:	DEKRA Testing and Certification (Suzhou) Co., Ltd. No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006, Jiangsu, China TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098 IC Lab Code: 4075B

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Approved By : Harry Zhao

(Engineering Manager: Harry Zhao)

1. RF Exposure Evaluation

1.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm2)	Average Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
300-1500	--	--	F/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500	--	--	F/1500	6
1500-100,000	--	--	1	30

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4*pi*r2)

Where

Pd = power density in mW/ cm^2

Pout = 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

Pd is the limit of MPE, 1 mW/cm^2 . If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.
The temperature and related humidity: 18℃and 78％ RH.

1.3. Test Result of RF Exposure Evaluation

Product	:	Parrot Camera FPV
Test Item	:	RF Exposure Evaluation
Test Site	:	AC-6

- **Antenna Information:**

Antenna manufacturer	N/A					
Antenna Delivery	☒	1*TX+1*RX	☐	2*TX+2*RX	☐	3*TX+3*RX
Antenna technology	☒	SISO				
	☐	MIMO	☐	Basic		
			☐	Sectorized antenna systems		
			☐	Cross-polarized antennas		
			☐	Unequal antenna gains, with equal transmit powers		
			☐	Spatial Multiplexing		
			☐	CDD		
			☐	Beam-forming		
Antenna Type	☐	External	☐	Dipole		
	☒	Internal	☐	PIFA		
			☒	PCB		
			☐	Ceramic Chip Antenna		
			☐	Metal plate type F antenna		
			☐	Cross-polarize Antenna		
Antenna Gain	-0.2dBi					

- **Power Density:**

Test Mode	Frequency Band (MHz)	EIRP (dBm)	Limit of Power Density S(mW/cm^2)	Power Density at R = 20 cm (mW/cm^2)
802.11b/g	2400 ~ 2483.5	22.83	1	0.0360
BLE(related plane)	2400 ~ 2483.5	-0.97	1	0.0002
Simultaneous transmission				0.0362

Note:

1. The maximum power of related plane is calclate for simultaneous MPE.
2. The power density is 0.0362 mW/cm^2 for Parrot Camera FPV without any other radio equipment.

The End