



## RF Exposure Evaluation Declaration

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**FCC ID:** 2ACS5-CGOET

**APPLICANT:** Yunee Technology Co., Limited

**Application Type:** Certification

**Product:** 3-Axis Gimbal Camera

**FCC Model No.:** CGOET\*\*\*\*\* (The "\*" can be 0 to 9, a to z, A to Z, blank or any plus, for marketing purpose.)

**Brand Name:** YUNEEC

**FCC Classification:** Unlicensed National Information Infrastructure (UNII)

Reviewed By : Robin Wu  
( Robin Wu )

Approved By : Marlin Chen  
( Marlin Chen )



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

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## Revision History

Report No.	Version	Description	Issue Date
1603RSU01702	Rev. 01	Initial report	04-13-2016

## 1. PRODUCT INFORMATION

### 1.1. Equipment Description

Product Name	3-Axis Gimbal Camera
FCC Model No.	CGOET***** (The "*" can be 0 to 9, a to z, A to Z, blank or any plus, for marketing purpose.)
Frequency Range	802.11a: 5745 ~ 5825MHz
Type of Modulation	802.11a: OFDM

### 1.2. Antenna Description

Antenna Type	Manufacturer	Frequency Band (GHz)	Max Peak Gain (dBi)
Omni-directional Antenna	Yuneec Technology Co., Limited	5.8	-3.66

## 2. RF Exposure Evaluation

### 2.1. 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/cm <sup>2</sup> )	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

Calculation Formula:  $Pd = (Pout \cdot G) / (4 \cdot \pi \cdot r^2)$

Where

Pd = power density in mW/cm<sup>2</sup>

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, 1mW/cm<sup>2</sup>. 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.

## 2.2. Test Result of RF Exposure Evaluation

Product	3-Axis Gimbal Camera
Test Item	RF Exposure Evaluation

Antenna Gain: Refer to Clause 1.2 of antenna description.

Test Mode	Frequency Band (MHz)	Maximum Output Power (dBm)	Power Density at R = 20 cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
802.11a	5745 ~ 5825	12.78	0.0016	1

### CONCLUSION:

The Max Power Density at R (20 cm) = 0.0016mW/cm<sup>2</sup> < 1mW/cm<sup>2</sup>.  
So the EUT complies with the requirement.

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