RF Exposure Evaluation Declaration

FCC ID: 2ACS5-E10T

APPLICANT: Yuneec Technology Co., Limited

Product: 3-Axis Gimbal Camera

Model No.: E10T

Brand Name: YUNEEC

FCC Classification: Digital Transmission System (DTS)
Unlicensed National Information Infrastructure (UNII)

Test Procedure(s): KDB 447498 D01v06

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(Paddy Chen)

Approved By : Chenz Ker
(Chenz Ker)

Revision History

Report No.	Version	Description	Issue Date	Note
1801TW0107-U2	Rev. 01	Initial Report	01-23-2017	Valid

1. PRODUCT INFORMATION

1.1. Equipment Description

Product Name	3-Axis Gimbal Camera
Model No.	E10T
Brand Name	YUNEEC
Wi-Fi Specification	802.11a
Antenna Type	Omni-directional Antenna
Antenna Gain	2.33dBi

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^2)	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*G)/(4*pi*r2)

Where
Pd = power density in mW/cm2
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, $1mW/cm^2$. 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.

2.2. Test Result of RF Exposure Evaluation

Product	3-Axis Gimbal Camera
Test Item	RF Exposure Evaluation

Test Mode	Frequency Band (MHz)	Maximum EIRP (dBm)	Safety Distance (cm)	Power Density (mW/cm^2)	Limit of Power Density (mW/cm^2)
802.11a	5745 ~ 5825	24.90	20	0.0615	1

The wireless device described within this report has been shown to be capable of compliance with basic restrictions related to human exposure to electromagnetic fields for General public. The calculations shown in this report were made in accordance the procedures specified in the applied test specifications. The safety distance is 20cm.

The End