

# EMC TEST REPORT

For  
Shenzhen Idea-Fly Technology Co., Ltd

**Multi Copter**

**Mode No.: Poseidon 480**

**Test Report Number : ESTBA151201219E**



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## 1. GENERAL INFORMATION

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### 1.1 Product Description for Equipment under Test (EUT)

#### Client Information

Applicant: **Shenzhen Idea-Fly Technology Co., Ltd**  
 Address of applicant: 6 Floor,A3 Building, Zhongyuguan Industrial Park, Longhua New District, Shenzhen, China  
 Manufacturer: **Shenzhen Idea-Fly Technology Co., Ltd**  
 Address of Manufacturer: 6 Floor,A3 Building, Zhongyuguan Industrial Park, Longhua New District, Shenzhen, China

#### General Description of E.U.T

EUT Description: Multi Copter  
 Trade Name: Idea-Fly  
 Model No.: Poseidon 480  
 Test Model No.: Poseidon 480  
 Rating: DC 22.2V  
 Test Power Supply: DC 22.2V

### 1.2 Test Standards

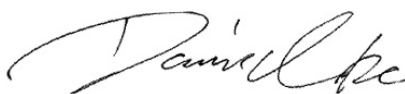
The following Declaration of Conformity report of EUT is prepared in accordance with

EN 61000-6-3: 2007+A1: 2011  
 EN 61000-6-1: 2007

The objective of the manufacturer is to demonstrate compliance with the described standards above.

Date of Test : Jul. 20~24, 2015

Prepared by :

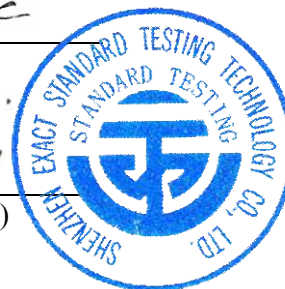


(Engineer: David He)

Reviewer :



(Project Manager: Ronnie Liu)



Approved & Authorized Signer :



(Manager: Alex Chen)

### 1.3 Test Summary

For the EUT described above. The standards used were EN 61000-6-3 for Emissions & EN 61000-6-1 for Immunity.

Table 1: Tests Carried Out Under EN 61000-6-3: 2007+A1: 2011

Standard	Test Items	Status
EN 61000-6-3: 2007 +A1: 2011	Disturbance Voltage at The Mains Terminals (150KHz To 30MHz)	×
	Radiated Disturbances (30MHz To 1000MHz)	√

- √ Indicates that the test is applicable  
 × Indicates that the test is not applicable

Table 2: Tests Carried Out Under EN61000-3-2: 2006+A1: 2009+A2: 2009 / EN61000-3-3: 2013

Standard	Test Items	Status
EN 61000-3-2: 2006+A1: 2009 +A2: 2009	Harmonic Current Test	×
EN 61000-3-3: 2013	Voltage Fluctuations and Flicker Test	×

- √ Indicates that the test is applicable  
 × Indicates that the test is not applicable

Table 3: Tests Carried Out Under EN 61000-6-1: 2007

Standard	Test Items	Status
IEC61000-4-2: 2008	Electrostatic discharge Immunity	√
IEC61000-4-3: 2010	Radiated Susceptibility (80MHz to 1GHz)	√
IEC61000-4-4: 2012	Electrical Fast Transient/Burst Immunity	×
IEC61000-4-5: 2005	Surge Immunity	×
IEC61000-4-6: 2013	Conducted Susceptibility (150kHz to 80MHz)	×
IEC61000-4-11: 2004	Voltage Dips, Short Interruptions Immunity	×

- √ Indicates that the test is applicable  
 × Indicates that the test is not applicable

### 1.4 Test Methodology

All measurements contained in this report were conducted with CISPR 16-1: 2002, radio disturbance and immunity measuring apparatus, and CISPR16-2: 2002, Method of measurement of disturbances and immunity.

### 1.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC – Registration No.: 600491

Global United Technology Service Co., Ltd has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 600491

## 1.6 Test Equipment List and Details

Table 1: Test Equipment for Emission Test and Harmonic Current / Flicker Test

Equipment	Manufacturer	Model#	Serial #	Data of Cal.	Due Data
3m Semi-Anechoic Chamber	ZhongYu Electro	9.2(L)*6.2(W)*6.4(H)	GTS201	Apr.28, 2015	Apr.27, 2016
EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Apr.28, 2015	Apr.27, 2016
EMI Test Software	AUDIX	E3	N/A	N/A	N/A
Coaxial cable	GTS	N/A	GTS400	Mar. 18, 2015	Mar. 17, 2016
BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS204	Mar. 12, 2015	Mar. 11, 2016
Amplifier(100KHz-2GHz)	HP	8347A	GTS210	Mar. 18, 2015	Mar. 17, 2016
Double-ridged horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS205	Mar. 12, 2015	Mar. 11, 2016
Amplifier(2GHz-2.4GHz)	HP	8349b	GTS224	Mar. 18, 2015	Mar. 17, 2016
Band filter	Amindeon	82346	SEL0094	Mar. 18, 2015	Mar. 17, 2016
Shielding Room	Zhong Yu Electron	7.0(L)x3.0(W)x3.0(H)	GTS206	Apr. 10, 2015	Apr. 10, 2016
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS207	Mar. 18, 2015	Mar. 17, 2016
ISN	Rohde & Schwarz	ENY22110 9	EMC011 4	Mar. 18, 2015	Mar. 17, 2016
ISN	Rohde & Schwarz	ENY41111 0	EMC011 5	Mar. 18, 2015	Mar. 17, 2016
EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS208	Mar. 18, 2015	Mar. 17, 2016
Coaxial Cable	GTS	N/A	GTS207	Mar. 18, 2015	Mar. 17, 2016
AC Power Source	EMTEST	ACS500	GTS218	Mar. 27, 2015	Mar. 26, 2016
Power Analyzer	EMTEST	DPA500	GTS217	Mar. 27, 2015	Mar. 26, 2016
Test software	EMTEST	ACS	N/A	N/A	N/A

Table 2: Test Equipment for Immunity Test

Equipment	Manufacturer	Model#	Serial #	Data of Cal.	Due Data
ESD Simulator	EMPEK	ESD-2030A	GTS219	Mar. 03, 2015	Mar. 02, 2016
Tsurge	EMTEST system	UCS500N	GTS216	Sept. 09, 2014	Sept. 08, 2015
Capacitive Clamp	Thermo ELECTRON	N/A	GTS220	N/A	N/A
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	N/A	Apr.28, 2015	Apr. 27, 2016
Signal Generator	Rohde & Schwarz	SML03	SEL0068	Aug. 01, 2014	Jul. 31, 2015
RF Amplifier 30M-1GHz	Amplifier Research	250W 1000A	SEL0066	Apr.28, 2015	Apr. 27, 2016
RF Amplifier 0.8M-3.0GHz	Amplifier Research	60S1G3	SEL0065	Apr.28, 2015	Apr. 27, 2016
Power Meter	Rohde & Schwarz	NRVD	SEL0069	Mar. 18, 2015	Mar. 17, 2016
Power Meter	Rohde & Schwarz	URV5-Z2	SEL0071	Mar. 18, 2015	Mar. 17, 2016
Power Meter	Rohde & Schwarz	URV5-Z2	SEL0072	Mar. 18, 2015	Mar. 17, 2016
Software EMC32	Rohde & Schwarz	EMC32-S	SEL0082	N/A	N/A
Log-periodic Antenna	Amplifier Research	AT1080	SEL0073	N/A	N/A
Antenna Tripod	Amplifier Research	TP1000A	SEL0074	N/A	N/A
ProPLUS System	Thermo ELECTRON	N/A	SEL0007	Apr.28, 2015	Apr. 27, 2016
Pro PLUS Capacitive Clamp	Thermo ELECTRON	N/A	SEL0008	N/A	N/A
CM-HCOIL H-field loop	Thermo ELECTRON	N/A	SEL0010	Apr.28, 2015	Apr. 27, 2016
RF-Generator	SCHAFFNER	NSG2070	SEL0039	Apr.28, 2015	Apr. 27, 2016
Coupling/Decoupling Network	SCHAFFNER	CDNM016	SEL0040	Apr.28, 2015	Apr. 27, 2016
EM CLAMP	SCHAFFNER	KEMZ801	SEL0041	Apr.28, 2015	Apr. 27, 2016

Table 3: General used equipment

Equipment	Manufacturer	Model#	Serial #	Data of Cal.	Due Data
Humidity/Temperature Indicator	Shanghai	ZJ1-2B	GTS250	Apr.28, 2015	Apr. 27, 2016
Barometer	Changchun	DYM3	GTS251	Jun. 22, 2015	Jun. 21, 2016

## 2. SYSTEM TEST CONFIGURATION

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### 2.1 Justification

The system was configured for testing in a typical fashion (as normally used by a typical user).

### 2.2 EUT Exercise Software

The EUT exercising program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The software offered by manufacture, can let the EUT being normal operation.

### 2.3 Special Accessories

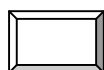
As shown in section 2.5, interface cable used for compliance testing is shielded as normally supplied by **Shenzhen Idea-Fly Technology Co., Ltd** and its respective support equipment manufacturers.

### 2.4 Equipment Modifications

The EUT tested was not modified by **Shenzhen Exact Standard Testing Technology Co., Ltd.**

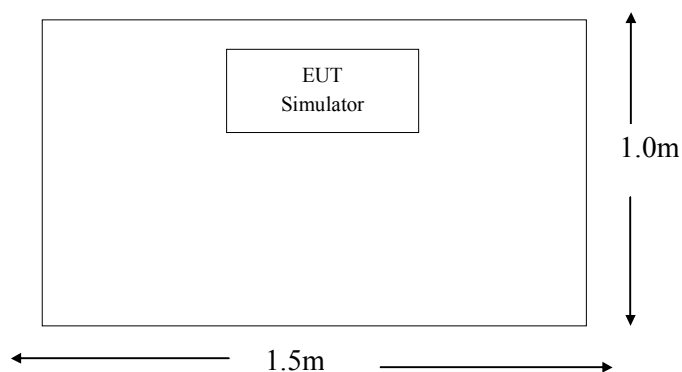
### 2.5 Configuration of Test System

For On Mode:



EUT

### 2.6 Test Setup Diagram



### 3. RADIATED DISTURBANCES

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#### 3.1 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement is  $\pm 4.0$  dB.

#### 3.2 Limit of Radiated Disturbances (EN 61000-6-3)

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dB $\mu$ V/m)
30 ~ 230	3	40
230 ~ 1000	3	47

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

(2) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.

#### 3.3 EUT Setup

The radiated emission tests were performed in the open area 3-meter test site, using the setup accordance with the CISPR 16-1: 2002, CISPR16-2: 2002. The specification used was EN 61000-6-3 limits

The EUT was placed on the center of the test table.

Maximum emission emitted from EUT was determined by manipulating the EUT, support equipment, interconnecting cables and varying the mode of operation and the levels in the final result of the test were recorded with the EUT running in the operating mode that maximum emission was emitted.

#### 3.4 Test Receiver Setup

According to EN 61000-6-3 rules, the frequency was investigated from 30 to 1000 MHz. During the radiated emission test, the test receiver was set with the following configurations:

Test Receiver Setting:

Detector.....Peak & Quasi-Peak  
 IF Band Width.....120 KHz  
 Frequency Range.....30MHz to 1000MHz  
 Turntable Rotated.....0 to 360 degrees

Antenna Position:

Height.....1m to 4m  
 Polarity.....Horizontal and Vertical



### 3.5 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the peak detection mode. Quasi-peak readings performed only when an emission was found to be marginal (within -10 dB $\mu$ V of specification limits), and are distinguished with a "QP" in the data table.

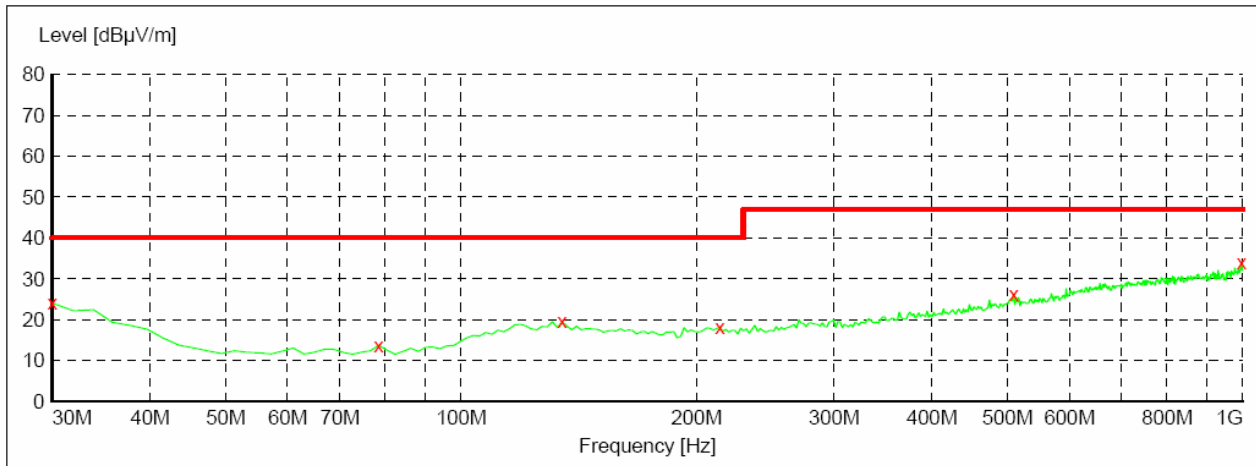
### 3.6 Radiated Emissions Test Result

Temperature ( °C )	<b>24</b>
Humidity ( %RH )	<b>56</b>
Barometric Pressure ( mbar )	<b>1001.00</b>
EUT	<b>Multi Copter</b>
M/N	<b>Poseidon 480</b>
Operating Mode	<b>On Mode</b>
Test Result	<b>Pass</b>

Test data see following pages

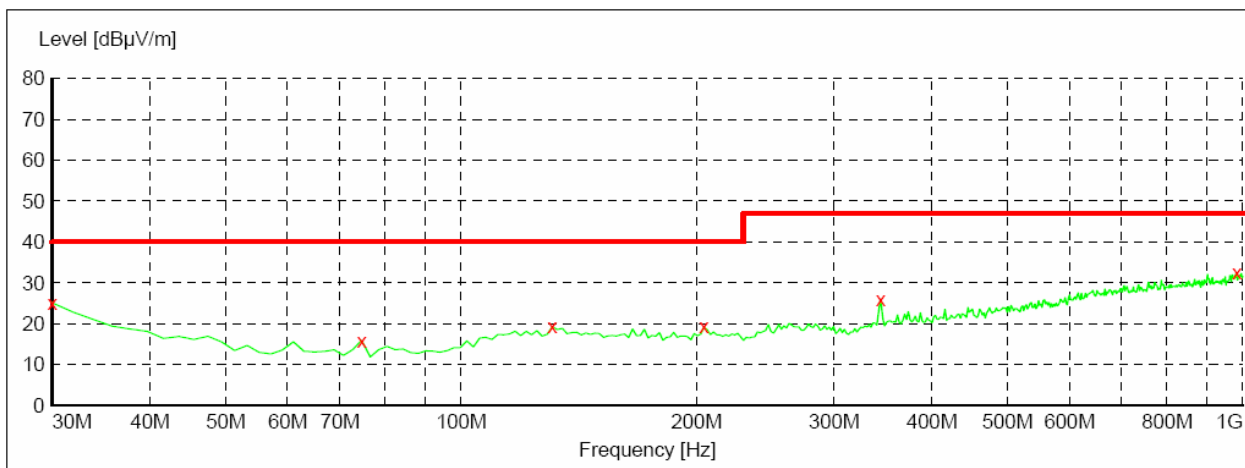
**Remark:** (1) When PK reading is less than relevant limit 20dB, the QP reading and AV reading will not be recorded.  
 (2) Where QP reading is less than relevant AV limit, the AV reading will not be measured

Radiated Emission Test Data	
EUT	Multi Copter
M/N	Poseidon 480
Operating Condition	On Mode
Test Site	3m chamber
Operator	David
Test Specification	DC 22.2V



Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	24.10	20.8	40.0	15.9	---	0.0	0.00	HORIZONTAL
78.500000	13.70	8.4	40.0	26.3	---	0.0	0.00	HORIZONTAL
134.760000	19.50	14.4	40.0	20.5	---	0.0	0.00	HORIZONTAL
214.300000	18.20	14.0	40.0	21.8	---	0.0	0.00	HORIZONTAL
509.180000	26.30	20.3	47.0	20.7	---	0.0	0.00	HORIZONTAL
996.120000	34.10	27.2	47.0	12.9	---	0.0	0.00	HORIZONTAL

Radiated Emission Test Data	
EUT	Multi Copter
M/N	Poseidon 480
Operating Condition	On Mode
Test Site	3m chamber
Operator	David
Test Specification	DC 22.2V



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	25.10	20.8	40.0	14.9	---	0.0	0.00	VERTICAL
74.620000	15.90	8.3	40.0	24.1	---	0.0	0.00	VERTICAL
130.880000	19.20	14.5	40.0	20.8	---	0.0	0.00	VERTICAL
204.600000	19.20	14.1	40.0	20.8	---	0.0	0.00	VERTICAL
344.280000	26.00	16.6	47.0	21.0	---	0.0	0.00	VERTICAL
982.540000	32.50	27.0	47.0	14.5	---	0.0	0.00	VERTICAL

## 4. EN 61000-6-1 MEASUREMENT INSTRUMENTATION

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### 4.1 Electrostatic Discharge Mode Test System

An ESD simulator is used for all testing. It is capable of applying Electrostatic discharges in both contact discharge modes to 4 kV and air discharge modes to 8 kV in both positive and negative polarities. This is in accordance with the IEC 61000-4-2 basic EMC publication.

### 4.2 Radiated Susceptibility Test System

An signal generator and a Amplifier Research power amplifier are used to provide a signal at the appropriate power and frequency to a transmitting antenna to obtain the required electromagnetic field at the position of the EUT in accordance with the IEC 61000-4-3 basic EMC publication. The field was monitored by Amplifier Research field probe and Amplifier Research PM2002 power meter according the IEC 61000-4-3 standards. In order to judge the performance of the EUT, a set of monitor system is used.

### 4.3 Equipment Test Table

IEC 61000-4-2 specifies that a tabletop EUT shall be placed on a non-conducting table which is 80 centimeters above a ground reference plane and that floor mounted equipment shall be placed on a insulating support approximately 10 centimeters above a ground plane. During the tests, the EUT is positioned over a ground reference plane in conformance with this requirement.

For tabletop equipment, a 1.6 by 0.8-meter metal sheet (HCP) is placed on the table and connected to the ground plane via a metal strap with two 470 k Ohms resistors in series. The EUT and attached cables are isolated from this metal sheet by *0.5-millimeter* thick insulating material. A Vertical Coupling Plane (VCP) grounded on the ground plane through the same configuration as in the HCP is used.

IEC 61000-4-3 specify that a tabletop EUT be placed on a non-conducting table 80 centimeters above a ground reference plane and that floor-mounted equipment shall be placed on an insulating support approximately 10 centimeters above a ground plane. During the IEC 61000-4-3 tests, the EUT is positioned on a table in a shielded semi-anechoic test chamber to reduce reflections from the internal surfaces of the chamber.

### 4.4 Instrument Calibration

All test equipment is regularly checked to ensure that performance is maintained in accordance with the manufacturer's specifications.

Extensive engineering efforts have been made to ensure test data reliability through Quality Control and regular equipment calibration schedules. However, the application of radio frequency fields and voltages are not without an unavoidable level of uncertainty. These include inaccuracies in antenna factors, chamber imperfections and possible test generator output uncertainties.

## **5. EN 61000-6-1 TEST PROCEDURES**

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### **5.1 EUT and Cable Placement**

The EUT and any peripherals are located at the center of the table for tabletop devices and in the center of the ground plane with the insulating support for floor-standing devices. The standards require that interconnecting cables to be connected to available ports of the unit and that the placement of the unit and the attached cables simulate a typical installation so far as to be practical.

### **5.2 Application of Electrostatic Discharge Mode Immunity Test**

The test is conducted in the following order according to the basic standard IEC 61000-4-2: Air Discharge Mode, Direct Contact Discharge Mode, Indirect Contact Horizontal Coupling Plane Discharge Mode, and Indirect Contact Vertical Coupling Plane Discharge Mode. The Electrostatic Discharge Mode test levels are set and discharges for the different test modes are set appropriately. The Electrostatic Discharge Mode is applied to the conductive surface of the computer in which the EUT is enclosed, and along all seams and control surfaces on the computer. When a discharge occurs and an error is caused, the type of error, discharge level and location is recorded.

### **5.3 Application of Radiated Susceptibility Test**

The electromagnetic field is established at the front edge of the EUT. The frequency range is swept from 80 to 1000 MHz using a power level necessary to obtain a 3 volt/meter and 80% amplitude of a 1 kHz sine wave modulated field Strength is directed at the EUT. The test is performed with each of four sides of EUT facing the transmitting antenna. If an error is detected when the susceptible side of the EUT facing the transmitting antenna, the field is reduced until the error is not repeatable, the field is then manually increased until the error begins to occur. This threshold level, the frequency and the error created are noted before continuing. Both horizontal and vertical polarization of the antenna are set on test and measured individually

### **5.4 Deviations from the Standard**

No deviations from EN 61000-6-1 were made when performing the tests described in this report.

## 6. TEST DATA

### 6.1 Electrostatic Discharge Mode Immunity Test (IEC 61000-4-2)

Temperature ( °C )	24
Humidity ( %RH )	57
Barometric Pressure ( mbar )	1001.1
EUT	<b>Multi Copter</b>
M/N	<b>Poseidon 480</b>
Operating Mode	On Mode

Table 1: Electrostatic Discharge Mode Immunity (Air Discharge Mode)

IEC 61000-4-2 Test Points	Test Levels										
	-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV	-15 kV	+15 kV	
Switch 10 points	A	A	A	A	A	A	A	A	A	/	/
Slots 8 points	A	A	A	A	A	A	A	A	A	/	/

Table 2: Electrostatic Discharge Mode Immunity (Direct Contact Discharge Mode)

IEC 61000-4-2 Test Points	Test Levels									
	-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV	-15 kV	+15 kV
Metal of EUT 8 points	A	A	A	A	/	/	/	/	/	/

Table 3: Electrostatic Discharge Mode Immunity (Indirect Contact Discharge Mode HCP)

IEC 61000-4-2 Test Points	Test Levels									
	-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV	-15 kV	+15 kV
Front Side	A	A	A	A	/	/	/	/	/	/
Back Side	A	A	A	A	/	/	/	/	/	/
Left Side	A	A	A	A	/	/	/	/	/	/
Right Side	A	A	A	A	/	/	/	/	/	/

Table 4: Electrostatic Discharge Mode Immunity (Indirect Contact Discharge Mode VCP)

IEC 61000-4-2 Test Points	Test Levels									
	-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV	-15 kV	+15 kV
Front Side	A	A	A	A	/	/	/	/	/	/
Back Side	A	A	A	A	/	/	/	/	/	/
Left Side	A	A	A	A	/	/	/	/	/	/
Right Side	A	A	A	A	/	/	/	/	/	/

## 6.2 Radiated Susceptibility Test (IEC 61000-4-3)

**Frequency Range (MHz):** 80~1000MHz

**Modulation:** Amplitude 80%, 1 kHz sine wave

**Severity Level:** 3V/m

Temperature ( °C )	24
Humidity ( %RH )	57
Barometric Pressure ( mbar )	1001.1
EUT	<b>Multi Copter</b>
M/N	<b>Poseidon 480</b>
Operating Mode	On Mode

Frequency Range (MHz)	Front (3 V/m)		Rear (3 V/m)		Left Side (3 V/m)		Right Side (3 V/m)	
	VERT	HORI	VERT	HORI	VERT	HORI	VERT	HORI
80-1000	A	A	A	A	A	A	A	A

Note:

- A ----- Continue to operate as intended during and after test. no degradation of performance or loss of function.
- B ----- Permissible loss of performance. No change of actual operating state or stored data.
- C ----- Temporary loss of function, self-recoverable or can be restored by the operation of controls.

## 7. TEST RESULTS

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The following tests were performed on the **Shenzhen Idea-Fly Technology Co., Ltd's** product; model **Poseidon 480**; the actual test results are contained within the Test Data section of this report.

### 7.1 IEC 61000-4-2 Electrostatic Discharge Mode Immunity Test Configuration

The EUT was subjected to the electrostatic discharge tests required by EN 61000-6-1 and all lower levels specified in IEC 61000-4-2.

*The EUT continued to perform as intended during and after the application of the ESD. Test setup photographs presented in Appendix B.*

### 7.2 IEC 61000-4-3 Radiated Susceptibility Test Configuration

The EUT was subjected to a 3-volt/meter, 80% Amplitude, 1 kHz Sine wave field as required by EN 61000-6-1 and all lower levels specified in IEC 61000-4-3.

*The EUT continued to perform as intended during and after the application of the electromagnetic field. Test setup photographs presented in Appendix B.*



## APPENDIX A. EUT PHOTOGRAPHS

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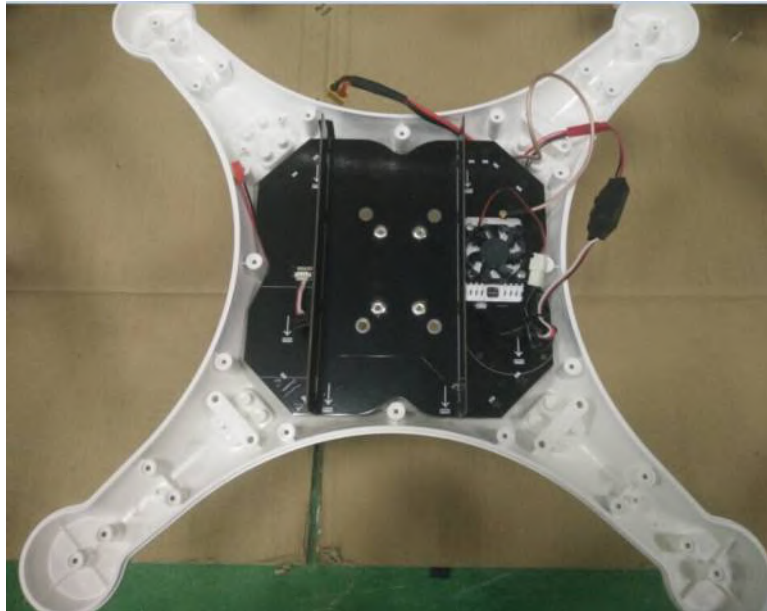
**EUT – Front View**



**EUT – Back View**



**EUT – Inside View**



**EUT – Inside View**



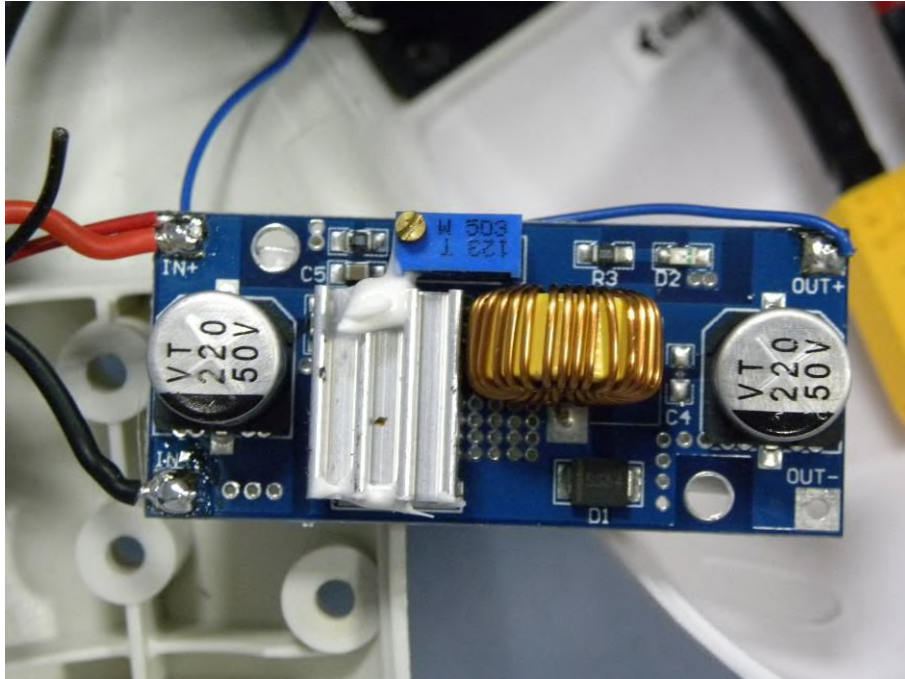
EUT – Inside View



EUT – Inside View



**EUT – Inside View**



**EUT – Inside View**



## APPENDIX B. TEST SETUP PHOTOGRAPHS

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### Radiated Emission



### Radiated Susceptibility Test



## Electrostatic Discharge Immunity Test

