

TEST REPORT

Product Name : SKYVIEW FPV Real-time Video Transmission Drone
Model Number : DRCSC48-BLK, DRCSC48-BLK-T37-4,
DRCSC48-BLK-T57-2, 2003, 2106, 2106S, 2306,
2306S, 2308, 2308S, 2411, 2411S, 2418S, 2418W
FCC ID : 2AWZK-2106S

Prepared for : GUANGDONG HENGDI TECHNOLOGY CORP.,LTD.
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Report Number : EDG2408300360E00202R
Date(s) of Tests : Aug 30, 2024 to Feb 27, 2025
Date of issue : Feb 28, 2025

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1. TEST RESULT CERTIFICATION

Applicant : GUANGDONG HENGDI TECHNOLOGY CORP.,LTD.
Address : Building C, Jinhui Industrial Building, South of Yuting Road, East of Taian Road, Shantou, China
Manufacturer : GUANGDONG HENGDI TECHNOLOGY CORP.,LTD.
Address : Building C, Jinhui Industrial Building, South of Yuting Road, East of Taian Road, Shantou, China
Factory : GUANGDONG HENGDI TECHNOLOGY CORP.,LTD.
Address : Building C, Jinhui Industrial Building, South of Yuting Road, East of Taian Road, Shantou, China
EUT : SKYVIEW FPV Real-time Video Transmission Drone
Model Name : DRCSC48-BLK, DRCSC48-BLK-T37-4, DRCSC48-BLK-T57-2, 2003, 2106, 2106S, 2306, 2306S, 2308, 2308S, 2411, 2411S, 2418S, 2418W
Trademark : N/A

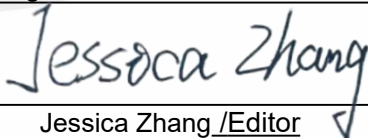
Measurement Procedure Used:

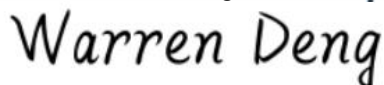
APPLICABLE STANDARDS	
STANDARD	TEST RESULT
§ 15.247(i), § 2.1091	PASS

The above equipment was tested by EMTEK(DONGGUAN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 15.247(i), § 2.1091.

The test results of this report relate only to the tested sample identified in this report

Date of Test : Aug 30, 2024 to Feb 27, 2025

Prepared by : 
Jessica Zhang /Editor

Reviewer : 
Warren Deng /Supervisor

Approve & Authorized Signer :  
Sam Lv /Manager

Modified History

Version	Report No.	Revision Date	Summary
	EDG2408300360E00202R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	SKYVIEW FPV Real-time Video Transmission Drone
Model Number:	DRCSC48-BLK, DRCSC48-BLK-T37-4, DRCSC48-BLK-T57-2, 2003, 2106, 2106S, 2306, 2306S, 2308, 2308S, 2411, 2411S, 2418S, 2418W All products are identical except the model number. Here we selected DRCSC48-BLK for all the test.
Sample:	1#
Data Rate:	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: MCS0-MCS15
Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM for 802.11a/n
Operating Frequency Range(s) :	5180-5240MHz for 802.11a/n(HT20);
Transmit Power Max:	10.65 dBm(0.011614 W)
Antenna Gain:	3.21 dBi
Power supply:	DC 3.7V from Li-ion Battery
Evaluation applied:	☒ MPE Evaluation ☐ SAR Evaluation

3. Test Requirement:

RF EXPOSURE EVALUATION

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
(A) Limits for Occupational/Control Exposures				
300-1500	--	--	F/300	6
1500-100000	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	--	--	F/1500	6
1500-100000	--	--	1	30

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = Power density in mW/cm²

P_{out} =output power to antenna in mW

G = Numeric gain of the antenna relative to isotropic antenna

π =3.1416

R = distance between observation point and center of the radiator in 20 cm

P_d the limit of MPE, 1mW/cm². If we know the maximum gain of the nd total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

4. Measurement Result

Antenna gain: 3.21 dBi

Channel Freq. (MHz)	modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result	Power density Limits
		(dBm)		tune-up power		Gain			
				(dBm)	(mW)	(dBi)	Numeric	(mW/cm2)	(mW/cm2)
5180	11A	9.41	9±1	10	10.000	3.21	2.09	0.0042	1
5200		9.4	9±1	10	10.000	3.21	2.09	0.0042	1
5240		10.61	10±1	11	12.589	3.21	2.09	0.0052	1
5180	11N20SISO	9.38	9±1	10	10.000	3.21	2.09	0.0042	1
5200		9.48	9±1	10	10.000	3.21	2.09	0.0042	1
5240		10.65	10±1	11	12.589	3.21	2.09	0.0052	1

*** End of Report ***