

Radio Test Report

Report No.: STS2403170H01

Issued for

Chengdu Accsoon Technology Co., LTD.

Rm. 708, Bld. 1, Xiongchuan Center, No.166, Tianfu 2nd St.,
High-tech Zone, Chengdu, China

Product Name: CineView 2 SDI

Brand Name: ACCSOON

Model Name: WIT08-S

Series Model(s): WIT08, WIT08-H

FCC ID: 2AOH408WITFR

Test Standard: FCC 47CFR §2.1091

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the ShenZhen STS Test Services Co., Ltd.



TEST REPORT

Applicant's Name.....: Chengdu Accsoon Technology Co., LTD.
Address: Rm. 708, Bld. 1, Xiongchuan Center, No.166, Tianfu 2nd St., High-tech Zone, Chengdu, China
Manufacturer's Name.....: Shenzhen Accsoon Technology Co., LTD.
Address: Room 302, BLDG D, Zhiyuanyungu, 73 Guanlan Blvd, Longhua District, Shenzhen, China.

Product Description

Product Name.....: CineView 2 SDI
Brand Name: ACCSOON
Model Name: WIT08-S
Series Model(s).....: WIT08, WIT08-H

Test Standards: FCC 47CFR §2.1091
447498 D01 Interim General RF Exposure Guidance v06

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Date of Test:
Date of receipt of test item.....: 29 Mar. 2024
Date (s) of performance of tests.....: 29 Mar. 2024~ 27 May 2024
Date of Issue.....: 27 May 2024
Test Result.....: Pass

Testing Engineer : Aaron Bu.

(Aaron Bu)

Technical Manager : Chris Chen

(Chris Chen)

Authorized Signatory : Bovey Yang

(Bovey Yang)





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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	27 May 2024	STS2403170H01	ALL	Initial Issue



1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	CineView 2 SDI	
Brand Name	ACCSOON	
Model Name	WIT08-S	
Series Model(s)	WIT08, WIT08-H	
Model Difference	Only the model name and color are different	
Product Description	The EUT is CineView 2 SDI	
	Operation Frequency:	2.4G WLAN: 802.11b/g/n (20MHz): 2412~2462MHz 5G WLAN: IEEE 802.11a/ n(HT20): 5.180GHz-5.240GHz IEEE 802.11a/ n(HT20):5.280GHz-5.320GHz IEEE 802.11a/ n(HT20):5.500GHz-5.700GHz IEEE 802.11a/ n(HT20):5.745GHz-5.825GHz
	Modulation Type:	802.11a(OFDN): BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDN): BPSK,QPSK,16-QAM,64-QAM
	Antenna gain:	ANT 1: 2.5 dBi ANT 2: 2.5 dBi MIMO 1+2: 5.51 dBi
Antenna Designation:	External Antenna	
Rating	Input: Transmitter: 5V DC(USB-C) or 7.4V DC-16.8V DC(DC input port) or 7.4VDC(DC battery terminal) Receiver: 5V DC(USB-C) or 7.4V DC-16.8V DC(DC input port) or 7.4VDC(DC battery terminal)	
Hardware Version	V1.1	
Software Version	V1.	

1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01



2. FCC 47CFR §2.1091 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of the 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)
Limits for Occupational / controlled Exposures			
300 - 1500	--	--	F/300
1500 – 100000	--	--	5.0
Limits for General population / Uncontrolled Exposure			
300 - 1500	--	--	F/1500
1500 – 100000	--	--	1.0

F= Frequency in MHz

Friss Formula

Friss Transmission Formula: $Pd = (Pout * G) / (4*pi*r^2)$

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 the center of radiator in cm

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.



2.3 TEST RESULT

Turn up

Mode	Detector	Turn up Power
2.4G WLAN	AV	14±1dBm
5G WLAN	AV	16±1dBm

RF Function	Fre (MHz)	Separation distance (cm)	Mode	Antenna	Max AVG Power (dBm)	Turn Up Power (dBm)	Max Tune Up Power (dBm)	ANT Gain (dBi)	Max EIRP (dBm)	Max EIRP (mW)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Ratio	Result
2.4G WIFI	2462	20	802.11b	Ant1	14.34	14±1	15.00	2.5	17.50	56.234	0.0112	1	0.0112	Pass
2.4G WIFI	2412	20	802.11n20	Ant1	10.98	11±1	12.00	2.5	14.50	28.184	0.0056	1	0.0056	Pass
2.4G WIFI	2412	20	802.11n20	Ant2	10.27	11±1	12.00	2.5	14.50	28.184	0.0056	1	0.0056	Pass
2.4G WIFI	2412	20	802.11n20	MIMO	13.65	14±1	15.00	2.5	17.50	56.234	0.0112	1	0.0112	Pass
5G WIFI	5580	20	802.11n20	Ant1	14.01	14±1	15.00	2.5	17.50	56.234	0.0112	1	0.0112	Pass
5G WIFI	5580	20	802.11n20	Ant2	11.73	12±1	13.00	2.5	15.50	35.481	0.0071	1	0.0071	Pass
5G WIFI	5580	20	802.11n20	MIMO	16.03	16±1	17.00	2.5	19.50	89.125	0.0177	1	0.0177	Pass

Multiple transmission:

$$2.4G\ WLAN+5G\ WLAN=0.0112+0.0177=0.0289<1$$

Note: 1. The Maximum power is less than the limit, complies with the exemption requirements.

2. The 2.4G WLAN and 5G WLAN can simultaneous transmission at the same time.

*****END OF THE REPORT*****