



Maximum Permissible Exposure

FCC ID : 2AXRO-VS80
APPLICANT : FLIR Commercial Systems Inc., Taiwan Branch
Application Type : Certification
Product : VS80 VIDEOSCOPE
Model No. : VS80
Brand Name : FLIR
FCC Rule Part(s) : Part 2.1091 (Mobile)
Received Date : October 30, 2020
Test Date : March 09, 2022

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(Chenz Ker)



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report. Test results reported herein relate only to the item(s) tested.

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Revision History

Report No.	Version	Description	Issue Date
2010TW6501-U3	1.0	Original Report	2022-03-15

1. PRODUCT INFORMATION

1.1. Equipment Description

Product Name	VS80 VIDEOSCOPE
Model No.	VS80
Brand Name	FLIR
Wi-Fi Specification	802.11b/g/n (1TX / 1RX)
Frequency Range	<u>2.4GHz:</u> For 802.11b/g/n-HT20: 2412 ~ 2462 MHz
Modulation	802.11b: DSSS, DBPSK, DQPSK, CCK 802.11g/n-20M: OFDM (BPSK, QPSK, 16QAM, 64QAM)

1.2. Antenna Description

2.4GHz	
Antenna Type	PCB
Antenna M/N	WNZ7915
Antenna Gain	2.0dBi

2. MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
0.3-1.4	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

Note : (1) f= Frequency in MHz , (2) * = Plane-wave equivalent power density

Calculation Formula: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

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

Under normal use condition, is at least 20cm away from the body of the user .

So, this device is classified as **Mobile Device**.

2.2. Test Result

Mode	Frequency (MHz)	Output Power to Antenna (dBm)	Output Power to Antenna (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
Wi-Fi 802.11g	2412~2462	20.20	104.71	2.00	20	0.0330	1.00

So, device can comply with FCC radiation exposure requirement specified in the FCC Rule 2.1091.

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