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Report No.: 2411TW6501-U3
Report Version: 1.0
Issue Date: 2025-05-27

RF Exposure Evaluation Declaration

FCC ID: 2AA5FVX

APPLICANT: Medical Intubation Technology Corp.

Application Type: Certification

Product: Industrial Videoscope

Model No.: V8 Plus

Trademark: 

FCC Rule Part(s): Part 2.1093

Received Date: November 5, 2024

Reviewed By

: 

(Paddy Chen)



Testing Laboratory
3261

Approved By

: 

(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.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Taiwan) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2411TW6501-U3	1.0	Original Report	2025-05-27	

1. PRODUCT INFORMATION

1.1. Equipment Description

Product Name	Industrial Videoscope
Model No.	V8 Plus
Series Model No.	X600 Plus, V8 NEO
Trademark	
Operating Frequency	2412 ~ 2462 MHz
Modulation Type	802.11b: DSSS, DBPSK, DQPSK, CCK 802.11g/n-20M: OFDM, BPSK, QPSK, 16QAM, 64QAM
Accessory	
Power Adapter	MFR: BILLION Model No: BA018-050300HXX Input: AC 100-240V~0.5A, 50-60Hz Output: DC 5V, 3A

NOTE:

- Model Difference: The difference of models only for marketing different, the other hardware was the same. (declared by the manufacturer)
- The test was performed base on V8 Plus.

1.2. Antenna Description

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	LB-LINK	WNZ7915	PCB	2dBi

2. MAXIMUM PERMISSIBLE EXPOSURE (MPE)

2.1. FCC 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:

$$Pd = (Pout * G) / (4 * \pi * r^2)$$

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 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

Band (MHz)	Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WIFI 2.4G	2412 ~ 2462	17.59	57.41	2.0	20	0.0181	1

The End
