

RF EXPOSURE REPORT

FCC ID: 2AGNTDFRP240958A

Test Report No.....: RF251027002-03-004

Product(s) Name.....: Dragonfish Repeater

Model(s).....: FRP

Trade Mark.....: AUTEL ROBOTICS

Applicant.....: Autel Robotics Co., Ltd.

Address.....: 601,701,801,901, Block B1, Nanshan iPark, No. 1001 Xueyuan Avenue,
Nanshan District, Shenzhen, Guangdong, 518055, China

Receipt Date.....: 2025.10.14

Test Date.....: 2025.10.15~2025.11.07

Issued Date.....: 2025.11.07

Standards.....: FCC Guidelines for Human Exposure IEEE C95.1
FCC Title 47 Part 2.1091
KDB 447498 D01 General RF Exposure Guidance v06

Testing Laboratory.....: Shenzhen Haiyun Standard Technical Co., Ltd.

Prepared By:	Checked By:	Approved By:	
Jason Huang	Black Ding	Tim Zhang	
<i>Jason Huang</i>	<i>Black Ding</i>	<i>Tim Zhang</i>	

History of this test report

Original Report Issue Date: 2025.11.07

- ☒ No additional attachment
- ☐ Additional attachments were issued following record

Attachment No.	Issue Date	Description

1.. MPE CALCULATION METHOD

Radio Frequency Exposure Limit

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)
300-1,500	--	--	f/1500
1,500-100,000	--	--	1.0

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi^2} = \frac{EIRP}{4\pi^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna

For 900M transfer image

Antenna gain		Antenna Type
Ant1: 8.01dBi	Ant2: 8.01dBi	Integrated antenna

For 2.4G transfer image

Antenna gain		Antenna Type
Ant1: 9.74dBi	Ant2: 9.74dBi	Integrated antenna

For 5.2G transfer image

Antenna gain		Antenna Type
Ant1: 8.8dBi	Ant2: 8.8dBi	Integrated antenna

For 5.8G transfer image

Antenna gain		Antenna Type
Ant1: 7.56dBi	Ant2: 7.56dBi	Integrated antenna

2.. TEST RESULTS

Worst case as below

Operating Mode	Freq.	Maximum conducted output power	Directional Antenna Gain	Calculated maximum EIRP		MPE Limit	MPE Value
	(MHz)	(dBm)	(dBi)	(dBm)	(mW)	(mW/cm ²)	
900M transfer image	904-926	24.32	11.02	35.34	3419.794	0.61	0.30238
2.4G transfer image	2403.5-2475.5	23.20	12.75	35.95	3935.500	1	0.34797
5.2G transfer image	5154-5246	16.87	11.81	28.68	737.904	1	0.06525
5.8G transfer image	5728-5847	24.06	10.57	34.63	2904.023	1	0.25677

Note: 1. The calculated distance is 30 cm.

Result: Complies

Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technical Co., Ltd. (hereinafter referred to as the unit).
2. The report is invalid without the signature of the approver.
3. The report is invalid if altered arbitrarily.
4. The report shall not be partially copied without the written approval of the unit.
5. The reported test results are only valid for the tested samples.
6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

Shenzhen Haiyun Standard Technical Co., Ltd.

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(END OF REPORT)