

RF EXPOSURE REPORT

FCC ID: 2AGNTNESTRF6

Test Report No.....: RF251027002-01-006

Product(s) Name.....: OmniLink

Model(s).....: Nest RF-6

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.....: 2025.10.07

Test Date.....: 2025.10.08~2025.10.28

Issued Date.....: 2025.10.31

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:	
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<i>Jason Huang</i>	<i>Black Ding</i>	<i>Tim Zhang</i>	

History of this test report

Original Report Issue Date: 2025.10.31

- ☒ 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 Module 1 CP0 2.4G transfer image

Antenna gain		Antenna Type
Ant1: 4.2dBi	Ant2: 4.2dBi	Integrated antenna

For Module 1 CP0 5.2G transfer image

Antenna gain		Antenna Type
Ant1: 3.6dBi	Ant2: 3.6dBi	Integrated antenna

For Module 1 CP0 5.8G transfer image

Antenna gain		Antenna Type
Ant1: 4.7dBi	Ant2: 4.7dBi	Integrated antenna

For Module 2 CP1 900M transfer image

Antenna gain		Antenna Type
Ant1: 3.3dBi	Ant2: 3.3dBi	Integrated antenna

For Module 2 CP1 2.4G transfer image

Antenna gain		Antenna Type
Ant1: 4.2dBi	Ant2: 4.2dBi	Integrated antenna

For Module 2 CP1 5.2G transfer image

Antenna gain		Antenna Type
Ant1: 3.5dBi	Ant2: 3.5dBi	Integrated antenna

For Module 2 CP1 5.8G transfer image

Antenna gain		Antenna Type
Ant1: 4.9dBi	Ant2: 4.9dBi	Integrated antenna

For 2.4GWiFi

Antenna gain		Antenna Type
Ant1: 3.8dBi	Ant2: 3.8dBi	Integrated antenna

For 5.2GWiFi

Antenna gain		Antenna Type
Ant1: -0.2dBi	Ant2: -0.2dBi	Integrated antenna

For 5.8GWiFi

Antenna gain		Antenna Type
Ant1: 0.3dBi	Ant2: 0.3dBi	Integrated antenna

2.. TEST RESULTS

Worst case as below
Module 1 CP0

Operating Mode	Test Bandwidth (MHz)	Freq.	TX Type	Maximum conducted output power	Directional Antenna Gain	Calculated maximum EIRP		MPE Limit	MPE Value
		(MHz)				(dBm)	(mW)		
2.4G transfer image	3	2404.5	MIMO	28.52	7.21	35.73	3741.11	1.0	0.33079
5.2G transfer image	10	5157	MIMO	17.69	6.61	24.30	269.15	1.0	0.02380
5.8G transfer image	5	5730	MIMO	19.82	7.71	27.53	566.24	1.0	0.5007

Module 2 CP1

Operating Mode	Test Bandwidth (MHz)	Freq.	TX Type	Maximum conducted output power	Directional Antenna Gain	Calculated maximum EIRP		MPE Limit	MPE Value
		(MHz)				(dBm)	(mW)		
900M transfer image	5	924	MIMO	27.99	6.31	34.3	2691.53	0.61	0.23798
2.4G transfer image	1.4	2403.5	MIMO	26.23	7.71	33.94	2477.42	1.0	0.21905
5.2G transfer image	3	5157	MIMO	17.76	6.51	24.27	267.30	1.0	0.10582
5.8G transfer image	20	5730	MIMO	19.52	7.91	27.43	533.35	1.0	0.04893

WIFI

Operating Mode	Freq.	Maximum conducted output power	Directional Antenna Gain	Calculated maximum EIRP		MPE Limit	MPE Value
	(MHz)			(dBm)	(mW)		
2.4G Wifi ant1	2437	17.62	3.8	21.42	138.676	1	0.01226
2.4G Wifi ant2	2412	19.26	3.8	23.06	202.302	1	0.01789
5.2G Wifi MIMO	5230	21.32	2.81	24.13	258.821	1	0.02288
5.8G Wifi MIMO	5755	20.84	3.31	24.15	260.016	1	0.02299

Note: 1. The calculated distance is 30 cm.
2. The Wifi function can transmit at the same time with the transfer image function

Simultaneous transmitting consideration

The ratio= $MPE_{Module1\ 2.4G\ transfer\ image}/limit + MPE_{Module2\ 900M\ transfer\ image}/limit + MPE_{2.4G\ Wifi\ ant2}/limit + MPE_{5.2G\ Wifi}/limit$
 $= 0.33079/1 + 0.23798/1 + 0.01789/1 + 0.02299/1 = 0.60965 < 1.0$

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)