

TEST REPORT

Applicant: Adept Industries Limited
Address: 9-10.20F, Mega Trade Center, 1 MeiWan ST. Tsuen Wan HongKong, China
Equipment Type: Wireless follow controller
Model Name: Sidekick Remote 1.0
Brand Name: ALPHARD
FCC ID: 2ANDF-WFSREM
Test Standard: KDB 447498 D04 v01
Test Date : Oct. 25, 2022 - Nov. 18, 2022
Date of Issue: Nov. 21, 2022

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

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(Chief Engineer)

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Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions Content</u>
<u>Rev. 01</u>	<u>Nov. 21, 2022</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	<input checked="" type="checkbox"/> Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	<input type="checkbox"/> 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Adept Industries Limited
Address	9-10.20F, Mega Trade Center, 1MeiWan ST. Tsuen Wan HongKong, China

2.2 Manufacturer Information

Manufacturer	GuangZhou Prominent Industrial Co., Ltd
Address	Room 401, Jinkeng Industrial Road, Nancun Village, Panyu District, Guangzhou, Guangdong 511400, China

2.3 Factory Information

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Name	Wireless follow controller
Model Name Under Test	Sidekick Remote 1.0
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	6.0
Software Version	1.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.5 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	PinGe
	Model No.	902030-500mAh
	Serial No.	N/A
	Capacity	500mAh
	Rated Voltage	3.7 V
	Limit Charge Voltage	4.2 V

2.6 Technical Information

Network and Wireless connectivity	2.4G ISM Band, UWB
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The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	2.4G ISM Band; UWB	
Frequency Range	2.4G ISM Band	2404 ~ 2480 MHz
	UWB	6240 ~ 6739.2 MHz
Antenna Type	2.4G ISM Band	PCB Antenna
	UWB	Ceramic Antenna
Exposure Category	General Population/Uncontrolled Exposure	
EUT Stage	Portable Device	

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	KDB 447498 D04 v01	KDB 447498 D04 Interim General RF Exposure Guidance v01

4 DEVICE CATEGORY AND LEVELS LIMITS

FCC KDB 447498 Derives:

According with FCC KDB 447498 D04, Appendix A, Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

When maximum available power each individual transmitting antenna within the same time averaging period is ≤ 1 mW, and the nearest parts of the antenna structures of the simultaneously operating transmitters are separated by at least 2 cm.

When the aggregate maximum available power of all transmitting antennas is ≤ 1 mW in the same time-averaging period.

5 ASSESSMENT RESULT

5.1 Output Power

Mode	2.4G ISM Band
E (dB μ V/m)	95.08
EIRP (dBm)	-0.18
Note: This report listed the maximal case power value, please refer to Report No. BL-SZ2290654-601 for more details.	

UWB	
Mode	CH5
EIRP (dBm)	-34.78
Note: This report listed the maximal case power value, please refer to Report No. BL-SZ2290654-602 for more details.	

5.2 Tune-up power

Mode	EIRP Range (dBm)	ERP Range (dBm)
2.4G ISM Band	[-2.18, -0.18]	[-4.33, -2.33]
UWB	[-36.78, -34.78]	[-38.93, -36.93]

Note1: ERP= EIRP -2.15dB.

Note2: According KDB 447498 D04, used the greater of maximum conducted power and ERP to compare with the threshold value Pth.

5.3 RF Exposure Evaluation Result

Mode	Calculation Frequency (MHz)	Tune-up limit power (dBm)	Tune-up limit power (mW)	Threshold Value(mW)	Verdict
2.4G ISM Band	2480	-2.33	0.5848	1.00	Compliance
UWB	6489.7	-36.93	0.0002	1.00	Compliance

Note: The available maximum time-averaged power is no more than 1 Mw, a single RF source is exempt.

5.4 Collocated Power Calculation

Evolution mode	Frequency(MHz)	Power(mW)	Σ Power(mW) of 2.4G ISM Band + UWB	Verdict
2.4G ISM Band	2480	0.5848	0.5850	Pass
UWB	6489.7	0.0002		
Note: The aggregate maximum available power of all transmitting antennas is ≤ 1 mW in the same time-averaging period.				

5.5 Conclusion

This EUT is deemed to comply with the reference level limits, therefore the basic restrictions are compliant with human exposure limits.

Statement

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--END OF REPORT--