DEKRA Testing and Certification (Shanghai) Ltd.
No.250,Jiangchangsan Road, Shanghai ,200436 P.R.China
www.dekra.com

Test report No: 6221746.55

TEST REPORT
Radio Spectrum Matters (RF)

Identification of item tested	BLUEDRIVE X Remote Control
Trademark	AQUA MARINA
Model and /or type reference	RC-23BXN
Features	**3,7 Vdc**
FCC ID	2AVFRRC-23BXN
Applicant´s name / address	Oriental Recreational Products (Shanghai) Co., LTD. No.1699 Daye Road, Fengxian, 201402 Shanghai, China
Test method requested, standard	FCC CFR Title 47 Part 2 Subpart J Section 2.1093 IEEE Std C95.3:2002
Verdict Summary	IN COMPLIANCE
Prepared by (name / position & signature)	Vincent GAO Project Manager
Approved by (name / position & signature)	Wency YANG Manager
Date of issue	2026-06-01
Report template No	TRF_MPE_RF01 V1.0

INDEX

page

COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

GENERAL CONDITIONS

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.
5. This report will not be used for social proof function in China market.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%
Atmospheric pressure	86 kPa – 106 kPa

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not measured	N/M

DEFINITION OF SYMBOLS USED IN THIS TEST REPORT

☒ Indicates that the listed condition, standard or equipment is applicable for this report/test/EUT.				
☐ Indicates that the listed condition, standard or equipment is not applicable for this report/test/EUT.				
Decimal separator used in this report	☒	Comma (,)	☐	Point (.)

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT	:	Equipment Under Test
QP	:	Quasi-Peak
CAV	:	CISPR Average
AV	:	Average
CDN	:	Coupling Decoupling Network
SAC	:	Semi-Anechoic Chamber
OATS	:	Open Area Test Site
BW	:	Bandwidth
AM	:	Amplitude Modulation
PM	:	Pulse Modulation
HCP	:	Horizontal Coupling Plane
VCP	:	Vertical Coupling Plane
U_N	:	Nominal voltage
*T*x	:	Transmitter
*R*x	:	Receiver
N/A	:	Not Applicable
N/M	:	Not Measured

DOCUMENT HISTORY

Report nr.	**Date**	**Description**
6221746.55	2026-06-01	First release.

REMARKS AND COMMENTS

The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).

The test results relate only to the samples tested.

This report shall not be reproduced, except in full, without the written approval.

1 GENERAL INFORMATION

1.1 General Description of the Item(s)

Description of the item .....:	BLUEDRIVE X Remote Control
Model / Type number.....:	RC-23BXN
Trademark.....:	AQUA MARINA
FCC ID .....:	2AVFRRC-23BXN
Test Sample Number.....:	6221746-4
Manufacturer.....:	Oriental Recreational Products (Shanghai) Co., LTD. No.1699 Daye Road, Fengxian, 201402 Shanghai, China

Operating frequency(s).....:	915 MHz
Operating frequency range(s) .....:	902~928 MHz
Type of Modulation .....:	ASK
Antenna type.....:	FPC Antenna
Antenna gain.....:	2 dBi
Number of channel .....:	1
Operating Temperature Range.....:	-10~40 ℃

Note: Antenna information was provided from applicant.

Rated power supply .....:	Voltage and Frequency		Reference poles				
			L1	L2	L3	N	PE
	☒	AC: 100-240 Vac	☒	☐	☐	☒	☒
	☐	DC:					
	☒	Battery: 22,2 Vdc					
Mounting position.....:	☒	Table top equipment					
	☐	Wall/Ceiling mounted equipment					
	☐	Floor standing equipment					
	☒	Hand-held equipment					
	☐	Other:					

Intended use of the Equipment Under Test (EUT)
The apparatus as supplied for the test is a remote control of BLUEDRIVE X Power Fin, intended for residential use.

No	Module/parts of test item	Type	Manufacturer
1			

1.2 Test date

Test Location	DEKRA Testing and Certification (Shanghai) Ltd. No. 1050, Xingxian Road, Jiading District, Shanghai, China
Date of receipt of test item	2026-01-10
Date (s) of performance of tests	2026-01-10~2026-04-20

2 RF Exposure Evaluation

2.1 FCC Limit

According to FCC KDB 447498 D04V01-SAR-Based Exemption

The available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th}\ (\text{mW}) = \begin{cases} ERP_{20\ cm}(d/20\ \text{cm})^{x} & d \le 20\ \text{cm} \\ ERP_{20\ cm} & 20\ \text{cm} < d \le 40\ \text{cm} \end{cases}$$

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right)$$ and f is in GHz;

and

$$ERP_{20\ cm}\ (\text{mW}) = \begin{cases} 2040f & 0.3\ \text{GHz} \le f < 1.5\ \text{GHz} \\ 3060 & 1.5\ \text{GHz} \le f \le 6\ \text{GHz} \end{cases}$$

d = the separation distance (cm);

The example values shown in below table are for illustration only.

Table 1 - Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)										
		5	10	15	20	25	30	35	40	45	50
	300	39	65	88	110	129	148	166	184	201	217
	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
	1900	3	12	26	44	66	92	122	157	195	236
	2450	3	10	22	38	59	83	111	143	179	219
	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

2.2 Result of Exemption

Mode	Frequency Range (MHz)	Conducted Peak Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Distance (mm)	FCC Exclusion threshold (mW)	Exemption
ASK	902 ~ 928	-2.16	2	-0.16	-2.31	0.588	5	8.13	Complies

Note: EIRP = ERP + 2.15

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