

Higdon Outdoors LLC.

SAR COMPLIANCE REPORT

Report Type:
FCC SAR assessment report

Model:
99231

REPORT NUMBER
231100894SHA-002

ISSUE DATE
December 07, 2023

DOCUMENT CONTROL NUMBER:
TTRFFCCSAR-01_V1 © 2018 Intertek



TEST REPORT

Applicant: Higdon Outdoors LLC.
2800 Adams Street Paducah, KY 42001

Manufacturer: Nanjing Watt Electric Motors Co., Ltd
Lishui Economic Development Zone, Nanjing City

Factory1: Nanjing Watt Electric Motors Co., Ltd
Lishui Economic Development Zone, Nanjing City

Factory2: CHUZHOU WATT INTELLIGENT MANUFACTURING CO., LTD
A1 Building No.188 Conch Ave, Shizi Town, Quanjiao County,
Chuzhou City, Anhui Province

FCC ID: 2BDUQ-99231

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

KDB447498 D04 Interim General RF Exposure Guidance v01
FCC Part2.1091, FCC Part2.1093 FCC Part1.1307(b)

PREPARED BY:

REVIEWED BY:

Scout Gong
Project Engineer


Eric Li
Reviewer

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

Revision History

Report No.	Version	Description	Issued Date
231100894SHA-002	Rev. 01	Initial issue of report	December 07, 2023

TEST REPORT

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	The remote control for the clone motion decoy
Type/Model:	99231
Description of EUT:	The EUT is a remoter control with 433.920 MHz wireless module. The EUT can transmit 433.920 MHz signal to the receiver device (The clone motion decoy). The worst data were listed in this report.
Rating:	3V DC
Category of EUT:	Class B
EUT type:	<input checked="" type="checkbox"/> Tabletop <input type="checkbox"/> Floor standing
Software Version:	/
Hardware Version:	/
Sample Identification No.:	A231123-28-001
Sample received date:	November 24, 2023
Date of test:	November 24, 2023, to December 05, 2023

1.2 Technical Specification

Operation Frequency:	433.920MHz
Type of Modulation:	ASK
Product Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Channel Number:	1
Antenna Designation:	Integral PCB antenna, non-user removable

TEST REPORT

1.3 Description of Test Facility

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road (North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L0139
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Member No: 3598 (Registration No.: R-14243, G-10845, C-14723, T-12252)
	A2LA Accreditation Lab Certificate Number: 3309.02

TEST REPORT

2 SAR Assessment

Test result: Pass

2.1 SAR Test Exclusion Limit

This method shall only be used at separation distances up to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula below:

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

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula above.

The example values shown in below are for illustration only.

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 Assessment Results

As we can see from the test report 231100894SHA-001:

The highest EIRP adjusted with tune-up tolerance is: $87.90 - 95.30 = -7.40 \text{ dBm} = 0.182 \text{ mW}$.
 $0.182 \text{ mW} < 22 \text{ mW}$ (Test Exclusion Thresholds of 450MHz at 5mm). Therefore, the SAR requirement is deemed to be satisfied without test.

***** END *****