

# 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:**  
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## TEST REPORT

Intertek Testing Services Shanghai  
Building No.86, 1198 Qinzhou Road (North)  
Caohejing Development Zone  
Shanghai 200233, China

Telephone: 86 21 6127 8200

[www.intertek.com](http://www.intertek.com)

Report no.: 231100894SHA-002

**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:

Scout Gong  
Project Engineer

### REVIEWED BY:

Eric Li  
Reviewer

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**TEST REPORT****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  $ERP_{20cm}$  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 mW < 22mW (Test Exclusion Thresholds of 450MHz at 5mm). Therefore, the SAR requirement is deemed to be satisfied without test.

\*\*\*\*\* END \*\*\*\*\*