





TEST REPORT

Applicant	Zhiwei Robotics Corp.
Address	Room 603, 2 Boyun Road, Pudong, Shanghai P.R. China

Manufacturer or Supplier	Zhiwei Robotics Corp.	
Address	Room 603, 2 Boyun Road, Pudong, Shanghai P.R. China	
Product	UNIHIKER	1100
Brand Name	N/A	
Model	DFR0706	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
Additional Model & Model Difference	N/A	
Date of tests	Dec. 02, 2022 ~ Feb. 06, 2023	
		· · · · · · · · · · · · · · · · · · ·

The submitted sample of the above equipment has been tested according to the requirements of the following standard:

◯ EN IEC 62311:2020

EN 50665:2017

CONCLUSION: The submitted sample was found to **COMPLY** with the test requirement

Tested by Andy Zhu	Approved by Glyn He
Supervisor / EMC Department	Assistant Manager / EMC Department

Date: Mar. 09, 2023

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/ and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

Snely

No. 96, Guantai Road (Houjie Section), Houjie Town, Dongguan City, Guangdong Province. 523942. People's Republic of China. Tel.: +86 769 8998 2098 Fax: +86 769 8593 1080



TABLE OF CONTENTS

TE	EST REPORT	1
RI	ELEASE CONTROL RECORD	3
• • •		
1.	GENERAL INFORMATION	4
	A A OFNERAL RECORDINATION OF FUT	
	1.1 GENERAL DESCRIPTION OF EUT	4
2.	RF EXPOSURE MEASUREMENT	4
	2.1 INTRODUCTION	5
	2.2 LIMIT	5
	2.3 CLASSIFICATION OF THE ASSESSMENT METHODS	5
	2.4 TEST RESULTS	6



RELEASE CONTROL RECORD

ISSUE NO.	JE NO. REASON FOR CHANGE	
SE2211WDG0121-2	Original release	Mar. 09, 2023

Tel.: +86 769 8998 2098 Fax: +86 769 8593 1080



1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

PRODUCT	UNIHIKER	
MODEL NO.	DFR0706	
ADDITIONAL MODEL	N/A	
NOMINAL VOLTAGE	DC 5V From USB host unit	
OPERATING TEMPERATURE RANGE	-20 ~ +60°C	
MODULATION TECHNOLOGY	DSSS, OFDM	
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM	
OPERATING FREQUENCY	2412-2472MHz for 11b/g/n(HT20) 2422-2462MHz for 11n(HT40)	
EIRP (MAX.)	14.63dBm (Measured Max.)	
ANTENNA TYPE	PCB Antenna, -2.16dBi Gain	
CABLE SUPPLIED	USB Line: Unshielded, detachable, 1.0m	

NOTES:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
- 3. Please refer to the EUT photo document (Reference No.: 2211WDG0121) for detailed product photo.

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch Tel.: +86 769 8998 2098

Fax: +86 769 8593 1080



2. RF EXPOSURE MEASUREMENT

INTRODUCTION 2.1

This International Standard applies to electronic and electrical equipment for which no dedicated productor product family standard regarding human exposure to electromagnetic fields applies.

The frequency range covered is 0 Hz to 300 GHz.

The object of this generic standard is to provide assessment methods and criteria to evaluate such equipment against basic restrictions or reference levels on exposure of the general public related to electric, magnetic and electromagnetic fields and induced and contact current.

2.2 LIMIT

According to EN IEC 62311, the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified 1999/519/EC.

FREQUENCY RANGE (GHz)	E-FIELD STRENGTH (V/m)
2 ~ 300	61

2.3 CLASSIFICATION OF THE ASSESSMENT METHODS

The antenna of the product, under normal use condition is at least 20 cm away from the body of the user. Warning statement to the user for keeping at least 20cm separation distance and the prohibition of operating to a person has been printed on the WLAN easy install sheet. So, this product under normal use is located on electromagnetic far field between the human body.

Far Field Calculation Formula

$$E = \eta_0 H = \frac{\sqrt{30PG(\theta, \phi)}}{r}$$

G = antenna gain relative to an isotropic antenna θ, ϕ = elevation and azimuth angles to point of investigation

r = distance from observation point to the antenna η_0 = Characteristic impedance of free space

No. 96, Guantai Road (Houjie Section), Houjie Tel.: +86 769 8998 2098 Town, Dongguan City, Guangdong Province. Fax: +86 769 8593 1080 523942. People's Republic of China.

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch



2.4 TEST RESULTS

CALCULATION FOR MAXIMUM E.I.R.P.

Output Power E.I.R.P. (dBm)	Output Power E.I.R.P. (mW)	E-Field Strength (V/m)	E-Field Strength Limit (V/m)	PASS / FAIL
14.63	29.040	4.667	61.00	PASS

Tel.: +86 769 8998 2098 Fax: +86 769 8593 1080

Email: customerservice.dg@bureauveritas.com