



EMF TEST REPORT

Applicant: ZhenHui Electronic Technology (Dongguan) Co., Ltd
Address: Room 201, building 1, 101shutian road, humen town , dongguan city, guangdong province, China.
Manufacturer: ZhenHui Electronic Technology (Dongguan) Co., Ltd
Address: Room 201, building 1, 101shutian road, humen town , dongguan city, guangdong province, China.
EUT: Face Recognition Equipment
Brand Name:  振汇通
Model Number: ZH-800T
ZH-800L, ZH-800G, ZH-800Q, ZH700L, ZH700G, ZH500, ZH350
Date of Receipt: Apr. 01, 2020
Test Date: Apr. 01, 2020 - Apr. 08, 2020
Date of Report: Apr. 08, 2020
Prepared By: Shenzhen DL Testing Technology Co., Ltd.
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Applicable Standards: EN 62311:2008
Test Result: Pass
Report Number: DL-2020040730R

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Approved(Manager): Jade Yang



This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.



1. VERSION

Version No.	Date	Description
00	Apr. 08, 2020	Original

2. GENERAL INFORMATION

2.1 Description of Device (EUT)

EUT:	Face Recognition Equipment
Brand Name:	 振汇通
Model Number:	ZH-800T ZH-800L, ZH-800G, ZH-800Q, ZH700L, ZH700G, ZH500, ZH350
Model Difference:	The product's different for model number and appearance color.
Power Supply:	DC 12V from adapter
Adapter:	Model: JHD-AP024C-120200BA-A Input: AC 100-240V 50/60Hz 0.45A Output: DC 12V  2000mA
Operation Frequency :	802.11b/g/n20:2412~2472 MHz 802.11n40:2422~2462 MHz
Modulation Type:	DSSS, OFDM
Number Of Channel:	13CH
Bit Rate of Transmitter:	300Mbps Max
Antenna Type:	Internal antenna*2
Antenna Gain:	2.0dBi
Hardware Version:	---
Software Version:	---
Firmware:	---

Note1: ZH-800T was selected as the test model and the data's have been recorded in this report.

2: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



3 REQUIREMENT

3.1 GENERAL INFORMATION

EN 62311 Generic standard to demonstrate the compliance of electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields (0 Hz–300 GHz) is to demonstrate the compliance of apparatus with the basic restrictions or reference levels on exposure of the general public related to electric, magnetic, electromagnetic fields as well as induced and contact current.

3.2 Limit

Reference levels for electric, magnetic and electromagnetic fields
(0 Hz to 300 GHz, unperturbed rms values)

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (μT)	Equivalent plane wave power density S_{eq} (W/m ²)
0-1 Hz	—	$3,2 \times 10^4$	4×10^4	—
1-8 Hz	10 000	$3,2 \times 10^4/f^2$	$4 \times 10^4/f^2$	—
8-25 Hz	10 000	$4\ 000/f$	$5\ 000/f$	—
0,025-0,8 kHz	$250/f$	$4/f$	$5/f$	—
0,8-3 kHz	$250/f$	5	6,25	—
3-150 kHz	87	5	6,25	—
0,15-1 MHz	87	$0,73/f$	$0,92/f$	—
1-10 MHz	$87/f^{1/2}$	$0,73/f$	$0,92/f$	—
10-400 MHz	28	0,073	0,092	2
400-2 000 MHz	$1,375 f^{1/2}$	$0,0037 f^{1/2}$	$0,0046 f^{1/2}$	$f/200$
2-300 GHz	61	0,16	0,20	10

Notes:

1. f as indicated in the frequency range column.



3.3 Test Method

$$E (V/m) = (30 \cdot P \cdot G)^{0.5} / d$$

E = Electric Field (V/m)

P = Peak RF output Power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained.

3.4 Test Result

EMF Test Data						
Test Mode	Max Output Power (dBm)	Max Output Power (W)	Antenna Gain(dBi)	Electric Field (V/m)	Limit (V/m)	Result
802.11b	8.58	0.00721	2.00	2.93	20.00	Pass
802.11g	6.77	0.00475	2.00	2.38	20.00	Pass
802.11n HT20	5.83	0.00383	2.00	2.13	20.00	Pass
802.11n HT40	6.89	0.00489	2.00	2.41	20.00	Pass

Note: The max output power(dBm) data is a reference RF report.



4 EUT PHOTOGRAPHS

Please references EMC report.

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