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Applicant: Shanghai HUVITZ Co., Ltd.

Address of Applicant: Building 1, No. 150, Renjie Road, Fengxian, Shanghai

Product Name : Automatic Visual Acuity Tester

Model No. : CDC-1,SB-404

Brand Name : CHAROPS, Specsavers

Standards : FCC Part 2.1091

OET Bulletin 65 Edition 97-01 June 2001

Date of Receipt : 2021-12-10

Date of Test : 2021-12-10 ~ 2022-03-08

Date of Issue : 2022-03-09

Remark:

This report details the results of the testing carried out on one sample, the results contained in this report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

Prepared by:

Reviewed by:

(Jennifer Zhou)

Jennifer zhou

Approved by: Guoyou Chi)





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1 General Information

1.1 Testing Laboratory

Company Name	ICAS Testing Technology Services (Shanghai) Co., Ltd.			
Address No.1298 Pingan Rd, Minhang District, Shanghai, China				
Telephone	0086 21-51682999			
Fax	0086 21-54711112			
Homepage	www.icasiso.com			

1.2 Environmental conditions

Temperature (°C)	18-25
Humidity (%RH)	40-65
Barometric Pressure (mbar)	960-1060
Ambient noise & Reflection (W/kg)	< 0.012

1.3 Details of Application

Company Name	Shanghai HUVITZ Co., Ltd.		
Address	Building 1, No. 150, Renjie Road, Fengxian, Shanghai		
Contact Person	Jiaqiang.zhuo		
Telephone	18621890304		
Email	jiaqiang.zhuo@aliyun.com		
Manufacturer Company Name	Shanghai HUVITZ Co., Ltd.		
Address	Building 1, No. 150, Renjie Road, Fengxian, Shanghai		
Factory Company Name	Shanghai HUVITZ Co., Ltd.		
Address	Building 1, No. 150, Renjie Road, Fengxian, Shanghai		





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1.4 Details of EUT

Product Name	Automatic Visual Acuity Tester	
Test Model No.Brand Name	CHAROPS	
Series Model No. Brand Name	Specsavers	
Test Model No.	CDC-1	
Series Model No.	SB-404	
Difference Description	The difference between models is for different market sale, th (hardware and software) was the same as before.	e other
FCC ID	2AT8E-CDC1	
Mode of Operation	WLAN 802.11b/g/n(HT20/40); Bluetooth BR/EDR	Circ
Frequency Range	2400MHz ~ 2483.5MHz	
Modulation Type	DSSS, OFDM GFSK, π/4-DQPSK, 8-DPSK	
Antenna Type	Internal Antenna	
Antenna Gain	2dBi	

Note(s):

All applicable tests as described in test case and measurement sections were performed on model CDC-1.







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2 Maximum Permissible Exposure (MPE)

2.1 Limits

According to FCC Part 1.1307, systems operating under the provisions of this section shall be operated in a manner the ensures that the public is not exposed to radio frequency energy level in excess of the commission's guidelines.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
	(A) Limits for O	ccupational/Controlled Exp	oosure	Water control of the second of
0.3-3.0	614	1.63	*100	6
3.0-30	1842/1	4.89/1	f *900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
	(B) Limits for Gener	ral Population/Uncontrolle	d Exposure	8
0.3-1.34	614	1.63	*100	30
1.34-30	824/1	2.19/1	f *180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

2.2 Assessment methods

Calculation Formula from FCC OET 65:

$$S = \frac{P * G}{4 * \pi * R^2}$$

Where:

S = Power Density (mW/cm2)

P = Input Power of the Antenna (mW)

G = Antenna Gain Relative to an Isotropic Antenna

R = Distance from the Antenna to the Point of Investigation (cm)





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2.3 Test Result

Operation Mode	Frequency Range (MHz)	Max Conducted Power (dBm)	Antenna Gain (dBi)	Max EIRP (mW)	Power Density at R = 20 cm (mW/cm²)	Limit (mW/cm²)
WLAN 2.4GHz	2400 ~ 2483.5	14.96	2.00	49.66	0.0099	1.0
Bluetooth	2400 ~ 2483.5	2.37	2.00	2.74	0.0005	1.0

Note(s):

- 1. The device can not transmit with WIFI and BT simultaneously, so MPE is not evaluated in this configuration.
- 2. For 300 1,500MHz: Power Density limit is f/1500 mW/cm2
- 3. For 1,500 100,000MHz: Power Density limit is 1.0 mW/cm²

2.4 Conclusion

The Power Density at the position which is 20 cm far from the EUT is smaller than the General Population/Uncontrolled Exposure limit.







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3 Appendixes

3.1 Sample Photograph



All of the sample



Front of the sample



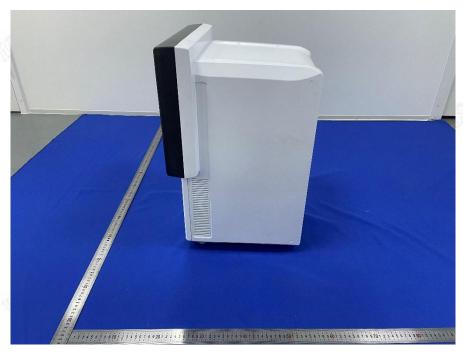




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Rear of the sample



Left of the sample



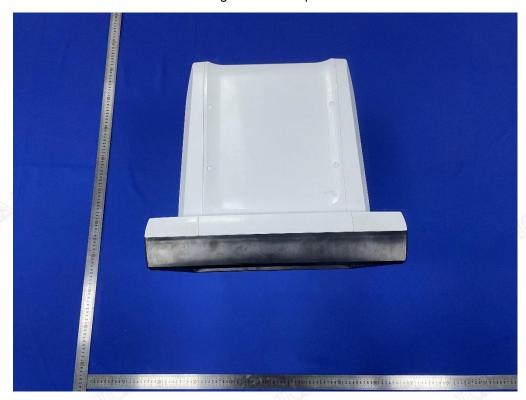




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Right of the sample



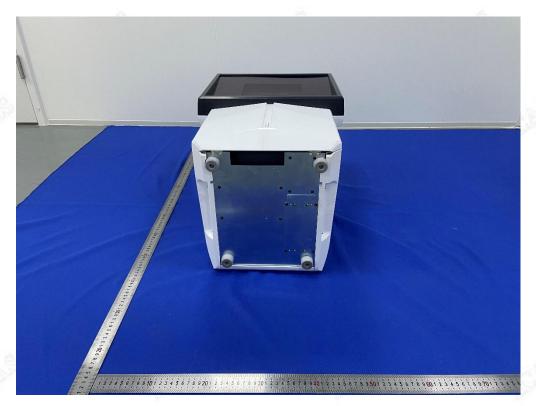
Top of the sample







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Bottom of the sample
End of the report



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