

# RF MPE REPORT

**Report No.:** 20240717G12724X-W7

**Product Name:** Ultra High Brightness Hanging Double-Sided Displays, Ultrathin Digital Poster, Double sided window poster, Intelligent multimedia display, LCD digital display

**Main Model No.:** D55R1

**Series Model No.:** UDS55HD10, ASLUDS55HD10, ASHUDS55HD10, D55\*\*\*\*\*,  
UDS55\*\*\*\*\*, ASLUDS55\*\*\*\*\*, ASHUDS55\*\*\*\*\*, D\*\*\*\*\*,  
UDS\*\*\*\*\* , TC55\*\*\*\*\* , M55\*\*\*\*\* , L55\*\*\*\*\* ,  
OH\*\*\*\*\* , OM\*\*\*\*\* ("\*" = 0~9 or A~Z or blank)

**FCC ID:** 2AVB8-0010010038877

**Applicant:** Shanghai Goodview Electronics Technology Co., Ltd

**Address:** Room 118, 1st Floor, No. 2, Lane 3999, Xiupu Road, Pudong District, Shanghai

**Dates of Testing:** 07/13/2024 - 08/19/2024

**Issued by:** CCIC Southern Testing Co., Ltd.

**Lab Location:** Electronic Testing Building, No.43, Shahe Road, Xili Street, Nanshan District, Shenzhen, Guangdong, China.

**Tel:** 8-755-26627338      **E-Mail:** manager@ccic-set.com

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## Test Report

**Product**.....: Ultra High Brightness Hanging Double-Sided Displays, Ultrathin Digital Poster, Double sided window poster, Intelligent multimedia display, LCD digital display

**Trade Name** .....: Goodview

**Applicant**.....: Shanghai Goodview Electronics Technology Co., Ltd

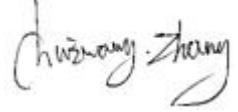
**Applicant Address**.....: Room 118, 1st Floor, No. 2, Lane 3999, Xiupu Road, Pudong District, Shanghai

**Manufacturer**.....: Shanghai Goodview Electronics Technology Co., Ltd

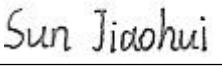
**Manufacturer Address**.....: Room 118, 1st Floor, No. 2, Lane 3999, Xiupu Road, Pudong District, Shanghai

**Test Standards**.....: 47 CFR Part 2.1091

**Test Result**.....: Pass

**Tested by** .....:  2024.08.19

Chuiwang Zhang, Test Engineer

**Reviewed by** .....:  2024.08.19

Sun Jiaohui, Senior Engineer

**Approved by** .....:  2024.08.19

Chris You, Manager

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Change History		
Issue	Date	Reason for change
1.0	2024.08.19	First edition

## 1. GENERAL INFORMATION

### 1.1. EUT Description

Product Name	Ultra High Brightness Hanging Double-Sided Displays, Ultrathin Digital Poster, Double sided window poster, Intelligent multimedia display, LCD digital display
Device Type	Fixed devices
EUT supports Radios application	Bluetooth LE V5.4 WLAN 2.4GHz 802.11b/g/n(HT20/HT40)/ax(HE20/HE40) WLAN 5.0GHz 802.11a/n(HT20/HT40)/ac(VHT20/VHT40/ax(HE20/HE40)
Modulation Type	DSSS (802.11b), OFDM (802.11a/g/n/ac), OFDMA (802.11ax)
Antenna Type	External antenna
Antenna Gain	2.4G WIFI/BT/BLE: 4.17dBi 5.0G WIFI: 4.12dBi

Note 1: The information of antenna gain and cable loss is provided by the manufacturer and our lab is not responsible for the accuracy of the antenna gain and cable loss information.

Note 2: All models are different only in appearance color, software version, and customer code, which has no impact on RF, safety and EMC performance. Among all models in this application, the screen size is 55 inches, and the external structure, internal structure, used circuit board and devices are all the same, which does not affect the RF, safety and EMC performance of the product.

## 1.2. EUT Description

EUT has been tested according to the following standards.

No.	Identity	Document Title
1	47 CFR Part 1	Practice and Procedure
2	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
3	KDB 447498 D01 General RF Exposure Guidance v06	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
4	OET Bulletin 65 Edition 97-01	Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields

## 1.3. Laboratory Facilities

### FCC-Registration No.: CN1283

CCIC Southern Testing Co., Ltd EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN1283, valid time is until Jun. 30th, 2025.

### ISED Registration: 11185A

CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A on Aug. 04, 2016, valid time is until Jun. 30th, 2025.

### CAB number: CN0064

### A2LA Code: 5721.01

CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025. The accreditation certificate number is 5721.01.

## 1.4. Laboratory Location

Company Name:	CCIC Southern Testing Co., Ltd.
Address:	Electronic Testing Building, No.43, Shahe Road, Xili Street, Nanshan District, Shenzhen, Guangdong, China

## 2. Technical Requirements Specification in CFR Title 47 Part 2.1091

### 2.1. Exposure Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b).

**Table 1 to § 1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)**

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Averaging Time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	< 6
3.0-30	1824/f	4.89/f	*(900/f <sup>2</sup> )	< 6
30-300	61.4	0.163	1.0	< 6
300-1500	/	/	f/300	< 6
1500-100,000	/	/	5	< 6
(ii) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	< 30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	< 30
30-300	27.5	0.073	0.2	< 30
300-1500	/	/	f/1500	< 30
1500-100,000	/	/	1.0	< 30

Note: f = frequency in MHz. \* = Plane-wave equivalent power density.

### 2.2. Predication of MPE limit at a given distance

Refer to formulas on page 19 of OET Bulletin 65, Edition 97-01.

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = power density (in appropriate units, e.g. mW/cm<sup>2</sup>)

P = power input to the antenna (in appropriate units, e.g., mW)

G = numeric gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the centre of radiation of the antenna (appropriate units, e.g., cm)

### 2.3. Evaluation Results

#### Worst-Case mode Conducted Output Power Results for WLAN/BLE

Operation Mode	Frequency (MHz)	Maximum Output power (dBm)	Max Tune up power (dBm)	Max Tune up power (mW)
WIFI 802.11b	2462	16.21	16±1	50.119
WIFI 802.11a	5500	14.94	14±1	31.623
BT	2441	10.02	10±1	12.589
BLE	2440	7.56	8±1	7.943

#### Calculation results: Worst-Case mode

Operation Mode	Antenna Gain (dBi)	Antenna Gain (numeric)	Distance (cm)	Result (mW/cm2)	Power Density (mW/cm2)	Ratio
WIFI 802.11b	4.17	2.61	20	0.026	1.00	0.026
WIFI 802.11a	4.12	2.58	20	0.016	1.00	0.016
BT	4.17	2.61	20	0.007	1.00	0.007
BLE	4.17	2.61	20	0.004	1.00	0.004

#### Simultaneous Transmission Calculation (Worst-case mode)

No.	Transmitter Combinations	Scenario Supported or not
1	BT + 2.4G WLAN	Yes
2	BT + 5G WLAN	Yes

#### Max Simultaneous Transmission Calculation (Worst-case mode)

No.	Worst Mode	MPE Ratio	Limit	Results
1	BT + 2.4G WLAN	0.033	≤ 1.0	Pass

Note: MPE Ratio = 0.007 + 0.026 = 0.033.

### 2.4. Conclusion

According to the KDB 447498 D01 General RF Exposure Guidance v06 section 7.2 determine the device is exclusion from SAR test.

\*\* END OF REPORT \*\*