

Shanghai Goodview Electronic Technology Co., Ltd.

Specification

TC22H1



Sign and Date by: _____

Customer

Sign and Date by: _____

GoodView

File Type	<input type="checkbox"/> Management guide <input type="checkbox"/> Program File <input type="checkbox"/> Management standard <input checked="" type="checkbox"/> Technical manual <input type="checkbox"/> Standard class <input type="checkbox"/> Inspection specification <input type="checkbox"/> Inspection guide <input type="checkbox"/> Inspection standard <input type="checkbox"/> Guidance file <input type="checkbox"/> Technical standard						
File Code	GV-RD-PJ-039	Version	V1.0	Effective Date	2019/9/1	Page	16

Content

Chapter I.	Revision History	2
Chapter II.	Summary	3
2.1.	Statement	3
2.2.	Safety instructions	4
Chapter III	Product Parameter	5
3.1.	Main Technical Parameters	5
3.1.1.	LCD Panel Technical Parameters	7
3.2.	Specification Overview	7
3.2.1.	AC Input Electrical Characteristics	8
3.2.2.	Green mode function	8
3.3.	External Interface Portion	8
Chapter IV.	Mechanical Portion	9
4.1.	Outline drawing	9
Chapter V.	Packaging Portion	10
5.1.	Packing Size	10
5.2.	Packaging Drawings	10
5.3.	Nameplate	11
5.4.	Labels	11
5.4.1.	Nameplate Labels	11
5.4.2.	Packaging Labels	12
Chapter VI.	Environmental Requirement	13
6.1.	Operating Temperature	13
6.2.	Storage Temperature	14
Chapter VII.	ID Rendering	14
7.1.	Six Sides Figure	14
7.2.	Front View	15
7.3.	Back View	15
7.4.	End View	16
7.5.	Interface Rear View	16

File Type	<input type="checkbox"/> Management guide <input type="checkbox"/> Program File <input type="checkbox"/> Management standard <input checked="" type="checkbox"/> Technical manual <input type="checkbox"/> Standard class <input type="checkbox"/> Inspection specification <input type="checkbox"/> Inspection guide <input type="checkbox"/> Inspection standard <input type="checkbox"/> Guidance file <input type="checkbox"/> Technical standard						
File Code	GV-RD-PJ-039	Version	V1.0	Effective Date	2019/9/1	Page	16

Chapter II. Summary

2.1. Statement

All parts of this product, including accessories and software, all the intellectual property right are owned by Shanghai Goodview Electronic Technology Co., Ltd. (hereinafter refers to "Goodview") or authorizes the relevant subjects xxxx to use. Without the permission of the right subjects, no copying or translation is allowed.

There is no any form of guarantee, position expression or other implication in this manual, if there is any direct or indirect loss of data, loss of profits or termination of business caused by the product information mentioned in this manual, Goodview and its employees are not liable for it. In addition to this, the product specifications and information mentioned in this manual are only for reference and will be updated at any time without further notice. Faults or damages caused by the following factors are not covered by free warranty:

- Damage caused by natural disasters (floods, fires, earthquakes, lightning strikes, typhoons, etc.), force majeure or inadvertent use of man-made operations.
- Self-assemble, repair, or send the product to a maintenance shop not authorized or certified by Goodview for inspection and repair.
- Damages and faults caused by users who may or request a third party to modify, repair, alter specifications and install, add and expand parts that are not sold, authorized or approved by our company without authorization.
- Usage problems and faults caused by improper installation and setting of software by users themselves.
- Problems and malfunctions caused by computer viruses.
- Warranty identification label of our company is torn or unrecognizable.
- Other problems and faults caused by abnormal use.

The product names mentioned in the user's manual are only for identification, and these names may belong to registered trademarks or copyrights of other companies.

Goodview reserves the right to change any or all specifications without notice. The information contained in this document is subject to change without notice.

For the latest upgrade information of product specifications, please call to Shanghai Goodview Electronic Technology Co., Ltd.

File Type	<input type="checkbox"/> Management guide <input type="checkbox"/> Program File <input type="checkbox"/> Management standard <input checked="" type="checkbox"/> Technical manual <input type="checkbox"/> Standard class <input type="checkbox"/> Inspection specification <input type="checkbox"/> Inspection guide <input type="checkbox"/> Inspection standard <input type="checkbox"/> Guidance file <input type="checkbox"/> Technical standard						
File Code	GV-RD-PJ-039	Version	V1.0	Effective Date	2019/9/1	Page	16

2.2. Safety instructions

Safety of Electrical

- ✧ In order to avoid serious damage caused by possible electric shock, please remove the power cord of the equipment temporarily from the power socket before moving the equipment
- ✧ When you want to add or remove the hardware device in the system, you must connect the data line of the device first and then the power line. If possible, unplug the power cord of the device before installing the hardware device.
- ✧ Before you connect or unplug any data lines from the module, make sure that all the power lines have been unplugged beforehand.
- ✧ Before using an extension card or an adapter card, we suggest that you seek for professional assistance first. These devices may interfere with the grounding circuit.
- ✧ Make sure that the voltage settings of the power supply have been adjusted to the voltage standard values used in the country/region. If you are not sure what the supply voltage value is in your area, please ask the local power company personnel nearby.
- ✧ If the power supply is damaged, please do not attempt to repair it by yourself. Please seek the help of professional technical service personnel.

.....Safety in operation

- ✧ Before you install modules and add hardware devices, be sure to read the relevant information provided in this manual in detail.
- ✧ Before using the product, make sure that all the data lines and power lines are connected correctly. If you find any defects, please contact Goodview as soon as possible.
- ✧ In order to avoid electrical short circuit, make sure that all unused screw, paper clip and other parts are put away, and do not leave them on the module or in the equipment.
- ✧ Dust, moisture and drastic temperature changes will affect the life of the motherboard, so please try to avoid placing them in these places.
- ✧ Do not place the equipment in a place that is easy to shake.
- ✧ If there are any technical problems in the use of this product, please contact the technicians who have been verified or experienced.



File Type	<input type="checkbox"/> Management guide <input type="checkbox"/> Program File <input type="checkbox"/> Management standard <input checked="" type="checkbox"/> Technical manual <input type="checkbox"/> Standard class <input type="checkbox"/> Inspection specification <input type="checkbox"/> Inspection guide <input type="checkbox"/> Inspection standard <input type="checkbox"/> Guidance file <input type="checkbox"/> Technical standard						
File Code	GV-RD-PJ-039	Version	V1.0	Effective Date	2019/9/1	Page	16

Chapter III. Product Parameter

3.1. Main Technical Parameters

NO	Subtype	Name	Parameter	Unit	Note
1		Panel	22 inches LED backlight		
2	Product Parameter	Product size (mm)	529.6(H)×321(V)×42.3(D)	mm	
3		Active size (mm)	475.0 (H) ×266.4(V)	mm	
4		Color	Aluminum alloy frame + black shell		
5		Weight (Gross)	8.1	KG	
6		Weight (Net)	6.1	KG	
7		Speaker	Stereo 2×2W 4Ω	Watt	
8		Screen hanging mode	Portrait/Landscape		
9		OSD Language	Chinese/English		
10		Play mode	<input checked="" type="checkbox"/> Horizontal <input checked="" type="checkbox"/> Vertical <input checked="" type="checkbox"/> Split display <input checked="" type="checkbox"/> Play List		
11		Multimedia transmission	USB、WAN、LAN		
12		Watchdog function	Support		
13		Timer	Timing power on/off		
14		Core	CPU	RK 3288 Quad-core ARM Cortex A17 (Max. 1.6GHz)	
15	GPU		Quad-core ARMMail-764		
16	Memory		DDR3 2GB		
17	Storage		8GB eMMC FLASH		
18	Operation System		Android 7.1		

File Type	<input type="checkbox"/> Management guide <input type="checkbox"/> Program File <input type="checkbox"/> Management standard <input checked="" type="checkbox"/> Technical manual <input type="checkbox"/> Standard class <input type="checkbox"/> Inspection specification <input type="checkbox"/> Inspection guide <input type="checkbox"/> Inspection standard <input type="checkbox"/> Guidance file <input type="checkbox"/> Technical standard						
File Code	GV-RD-PJ-039	Version	V1.0	Effective Date	2019/9/1	Page	16

19	Touch Panel	Touch Type		Capacitive			
20		Touch Point		10 point			
21		Enter mode		Finger、capacitive stylus			
22	Multimedia	Picture	Extension	JPG、JPEG、BMP、PNG		TBD	
23		Audio	Extension	MP3 audio format, etc			
24		Video	Extension	MPEG1、MPEG2、MPEG4、H.264、WMV、MKV、TS、flv and other mainstream video formats			
25		Text	Extension	.txt			
26		HTMI 5		Support			
27	Installation	VESA standard		400×200			
28		Hanging mode		Hanging bracket/VESA installation			
29	Accessories			<ol style="list-style-type: none"> 1. Warranty card×1 2. Certificate×1 3. Quick Start×1 4. AC power line×1 5. 2.4G WiFi antenna×1 6. Remote control×1 7. AAA battery×2 8. Security and Environmental Protection×1 9. Hanging bracket×1 			
30	Certification			 			

File Type	<input type="checkbox"/> Management guide <input type="checkbox"/> Program File <input type="checkbox"/> Management standard <input checked="" type="checkbox"/> Technical manual <input type="checkbox"/> Standard class <input type="checkbox"/> Inspection specification <input type="checkbox"/> Inspection guide <input type="checkbox"/> Inspection standard <input type="checkbox"/> Guidance file <input type="checkbox"/> Technical standard						
File Code	GV-RD-PJ-039	Version	V1.0	Effective Date	2019/9/1	Page	16

3.1.1. LCD Panel Technical Parameters

	Symbol	Parameter			Unit	Note
		Min	Typ	Max		
LCD Panel Size		-	21.5	-	inches	Led backlight
Active Screen Size		476.064(H) × 267.786 (V)			mm	
Pixel Format		1920×1080			Pixels	
Panel Luminance		200	250		cd/m ²	
Production Luminance		170	212		cd/m ²	
Contrast Ratio	CR	700	1000	-		
Color Depth		6bit, 16.7 Million colors				
Pixel Pitch		0.24795 (H) X 0.24795(V)			mm	
Color Temperature			6500		K	
Color Gamut			72		%	
Response Time	G to G BW	-	14	25	ms	
Backlight Life Time		30000	-	-	Hrs	
Viewing Angle	Xaxis,right=0°	R	85	89	-	
	x axis, left=180°	L	85	89	-	
	y axis, up =90°	U	85	89	-	
	yaxis, down=270°	D	85	89	-	

3.2. Specification Overview

File Type	<input type="checkbox"/> Management guide <input type="checkbox"/> Program File <input type="checkbox"/> Management standard <input checked="" type="checkbox"/> Technical manual <input type="checkbox"/> Standard class <input type="checkbox"/> Inspection specification <input type="checkbox"/> Inspection guide <input type="checkbox"/> Inspection standard <input type="checkbox"/> Guidance file <input type="checkbox"/> Technical standard						
File Code	GV-RD-PJ-039	Version	V1.0	Effective Date	2019/9/1	Page	16

3.2.1. AC Input Electrical Characteristics

Item	Symbol	Values			Unit	Note
		Min	Typ	Max		
AC Power Input Voltage	AC IN	110	220	240	VAC	
AC Power Input Current	TBD	-	-	0.5A	AAC	
Power Consumption	TBD	-	-	25W	Watt	

3.2.2. Green mode function

Item	Symbol	Values			Unit	Note
		Min	Typ	Max		
Stand-by power consumption	TBD	/	/	0.5	Watt	

3.3. External Interface Portion

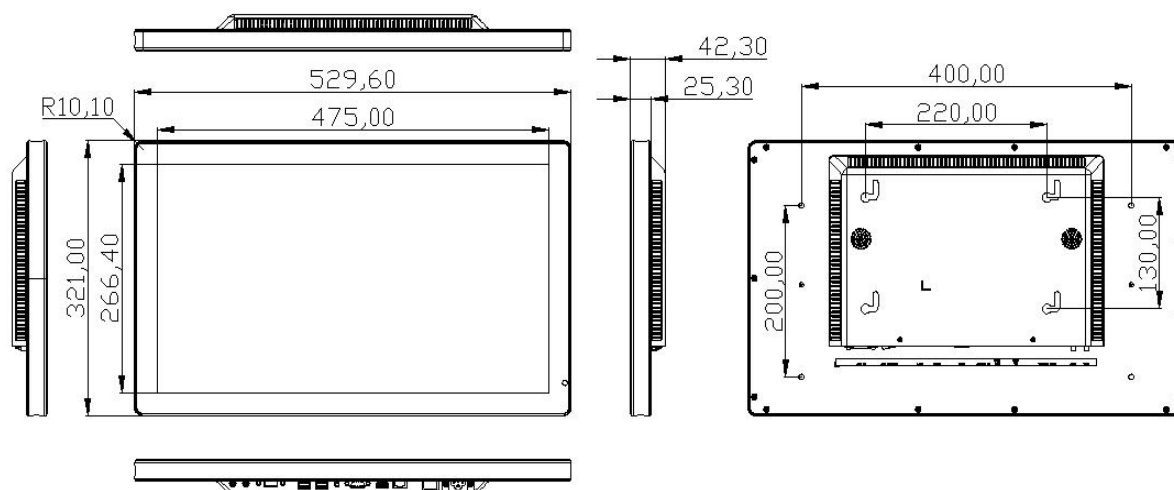
NO	Subtype	Name	Number	Parameter
1	Input Terminals	HDMI	×1	2.0
2		VGA	×1	1D-SUB 15pin
3		AUDIO IN	×1	3.5mm
4	Control Terminals	Ethernet RJ45	×1	100M Ethernet
5		WiFi	×1	2.4G/5G 802.11b/g/n/ac Bluetooth 4.2
6		USB	×2	USB OTG USB HOST

File Type	<input type="checkbox"/> Management guide <input type="checkbox"/> Program File <input type="checkbox"/> Management standard <input checked="" type="checkbox"/> Technical manual <input type="checkbox"/> Standard class <input type="checkbox"/> Inspection specification <input type="checkbox"/> Inspection guide <input type="checkbox"/> Inspection standard <input type="checkbox"/> Guidance file <input type="checkbox"/> Technical standard						
	File Code	GV-RD-PJ-039	Version	V1.0	Effective Date	2019/9/1	Page

7		TOUCH USB	×1	外置触摸 USB 接口
---	--	-----------	----	-------------

Chapter IV. Mechanical Portion

4.1. Outline drawing



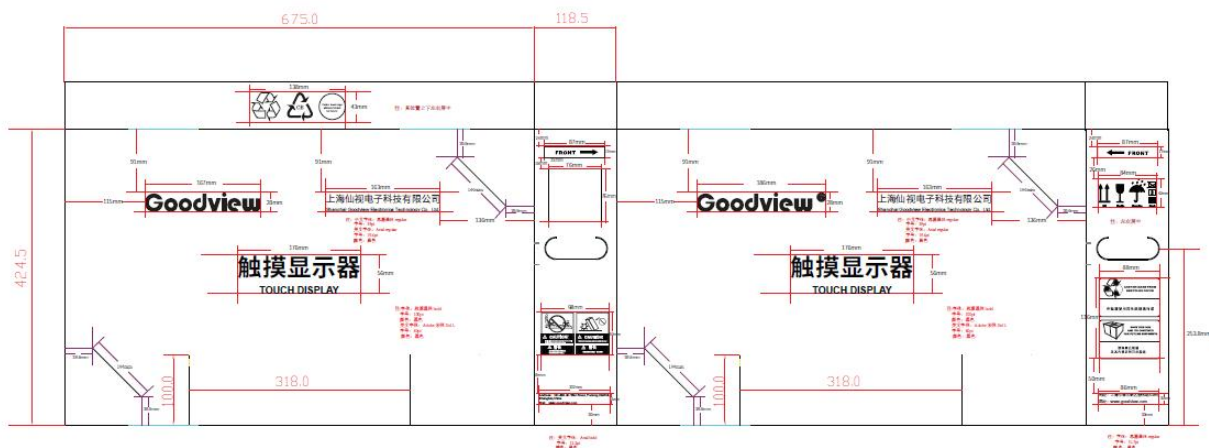
File Type	<input type="checkbox"/> Management guide <input type="checkbox"/> Program File <input type="checkbox"/> Management standard <input checked="" type="checkbox"/> Technical manual <input type="checkbox"/> Standard class <input type="checkbox"/> Inspection specification <input type="checkbox"/> Inspection guide <input type="checkbox"/> Inspection standard <input type="checkbox"/> Guidance file <input type="checkbox"/> Technical standard						
	File Code	GV-RD-PJ-039	Version	V1.0	Effective Date	2019/9/1	Page

Chapter V. Packaging Portion

5.1. Packing Size

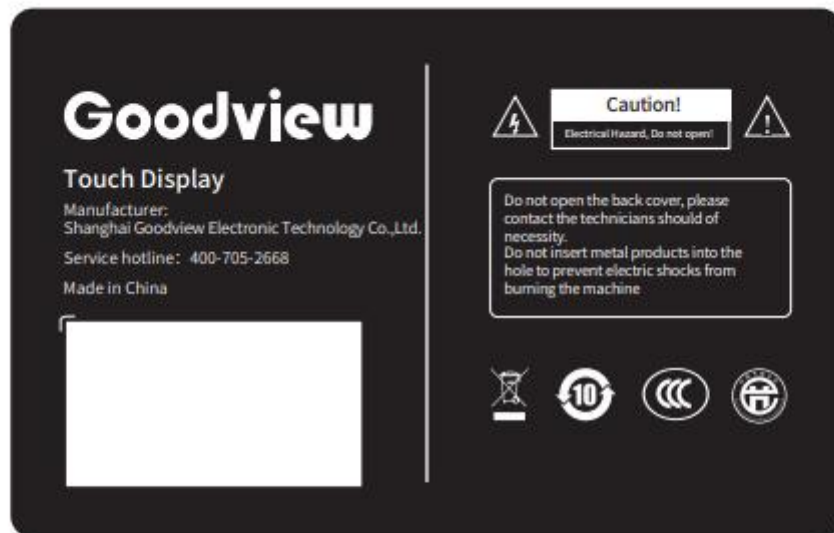


5.2. Packaging Drawings



File Type	<input type="checkbox"/> Management guide <input type="checkbox"/> Program File <input type="checkbox"/> Management standard <input checked="" type="checkbox"/> Technical manual <input type="checkbox"/> Standard class <input type="checkbox"/> Inspection specification <input type="checkbox"/> Inspection guide <input type="checkbox"/> Inspection standard <input type="checkbox"/> Guidance file <input type="checkbox"/> Technical standard						
File Code	GV-RD-PJ-039	Version	V1.0	Effective Date	2019/9/1	Page	16

5.3. Nameplate



Technological parameter

1. Size: length 110mm, Width 70mm, thickness 0.25mm, R Angle diameter 3mm
2. Nameplate color: white on black
3. Nameplate material: PVC

5.4. Labels

5.4.1. Nameplate Labels

File Type	<input type="checkbox"/> Management guide <input type="checkbox"/> Program File <input type="checkbox"/> Management standard <input checked="" type="checkbox"/> Technical manual <input type="checkbox"/> Standard class <input type="checkbox"/> Inspection specification <input type="checkbox"/> Inspection guide <input type="checkbox"/> Inspection standard <input type="checkbox"/> Guidance file <input type="checkbox"/> Technical standard						
	File Code	GV-RD-PJ-039	Version	V1.0	Effective Date	2019/9/1	Page

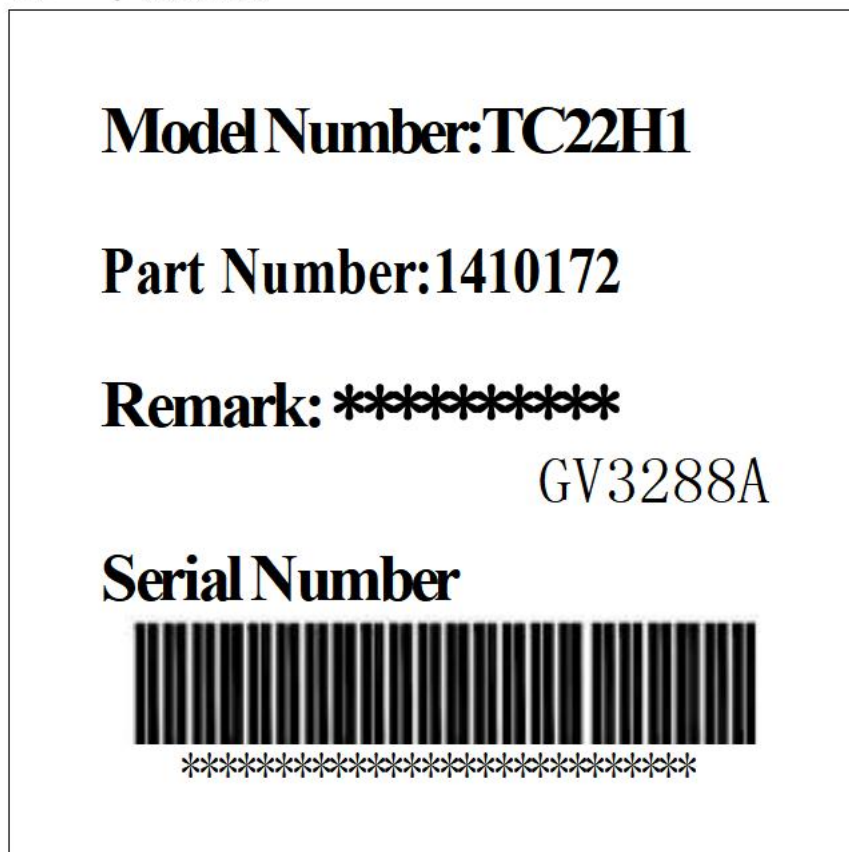
MODELNO: TC22H1
POWER RATING:
100-240V, 50/60Hz, 0.5A
PartNumber: 1410172



Confidential

File Type	<input type="checkbox"/> Management guide <input type="checkbox"/> Program File <input type="checkbox"/> Management standard <input checked="" type="checkbox"/> Technical manual <input type="checkbox"/> Standard class <input type="checkbox"/> Inspection specification <input type="checkbox"/> Inspection guide <input type="checkbox"/> Inspection standard <input type="checkbox"/> Guidance file <input type="checkbox"/> Technical standard						
File Code	GV-RD-PJ-039	Version	V1.0	Effective Date	2019/9/1	Page	16

5.4.2. Packaging Labels



Chapter VI. Environmental Requirement

6.1. Operating Temperature

Item	Symbol	Values			Unit	Note
		Min	Typ	Max		
Operating Temperature	Hop	0	-	40	°C	
Operating Ambient Humidity	Hop	10%	-	80%	%RH	Relative humidity (non-condensing).

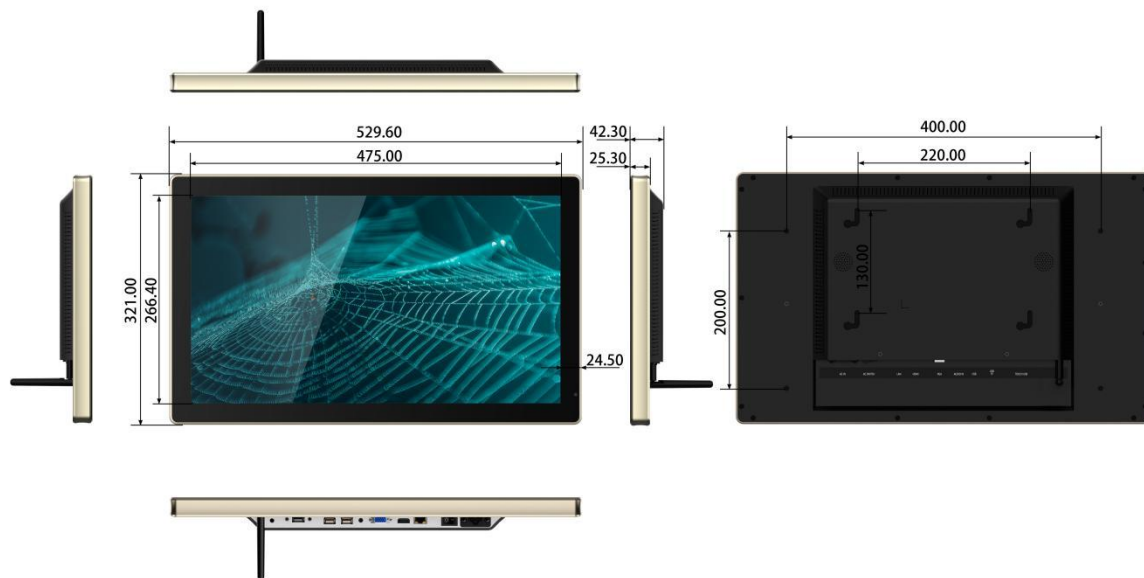
File Type	<input type="checkbox"/> Management guide <input type="checkbox"/> Program File <input type="checkbox"/> Management standard <input checked="" type="checkbox"/> Technical manual <input type="checkbox"/> Standard class <input type="checkbox"/> Inspection specification <input type="checkbox"/> Inspection guide <input type="checkbox"/> Inspection standard <input type="checkbox"/> Guidance file <input type="checkbox"/> Technical standard						
File Code	GV-RD-PJ-039	Version	V1.0	Effective Date	2019/9/1	Page	16

6.2. Storage Temperature

Item	Symbol	Values			Unit	Note
		Min	Typ	Max		
Storage Temperature	HST	-10	-	55	°C	
Storage Humidity	HST	10	-	80%	RH	relative humidity (non-condensing).

Chapter VII. ID Rendering

7.1. Six Sides Figure

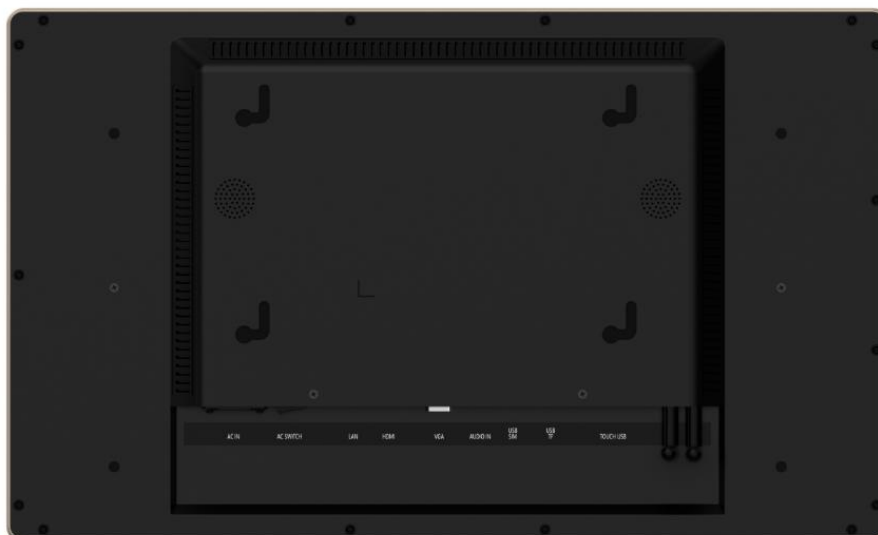


File Type	<input type="checkbox"/> Management guide <input type="checkbox"/> Program File <input type="checkbox"/> Management standard <input checked="" type="checkbox"/> Technical manual <input type="checkbox"/> Standard class <input type="checkbox"/> Inspection specification <input type="checkbox"/> Inspection guide <input type="checkbox"/> Inspection standard <input type="checkbox"/> Guidance file <input type="checkbox"/> Technical standard						
File Code	GV-RD-PJ-039	Version	V1.0	Effective Date	2019/9/1	Page	16

7.2. Front View



7.3. Back View



File Type	<input type="checkbox"/> Management guide <input type="checkbox"/> Program File <input type="checkbox"/> Management standard <input checked="" type="checkbox"/> Technical manual <input type="checkbox"/> Standard class <input type="checkbox"/> Inspection specification <input type="checkbox"/> Inspection guide <input type="checkbox"/> Inspection standard <input type="checkbox"/> Guidance file <input type="checkbox"/> Technical standard						
File Code	GV-RD-PJ-039	Version	V1.0	Effective Date	2019/9/1	Page	16

7.4. End View



7.5. Interface Rear View

