

Shanghai Goodview Electronic Technology Co., Ltd.

Specification

M43SAH



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File Type	☐ Management guide ☐ Program File ☐ Management standard ☒ Technical manual ☐ Standard class ☐ Inspection specification ☐ Inspection guide ☐ Inspection standard ☐ Guidance file ☐ Technical standard						
File Code	GV-RD-PJ-039	Version	V1.0	Effective Date	2019/9/1	Page	18

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Chapter I. Revision History

Parts No.

Version

Revision History

Date _____

**Written
by**

Auditing

Approval

1250128

V1.0

First issue

2019/08/29

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Chapter II. Summary

2.1. Statement

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- 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.

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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.

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Chapter III. Product Parameter

3.1. Main Technical Parameters

NO	Subtype	Name	Parameter	Unit	Note
1	Product Parameter	Panel	42.51 inches LED backlight		
2		Product size (mm)	963.6(H)×557.916 (V)×46.1(D)	mm	
3		Active size (mm)	941.2(H) ×529.4(V)	mm	
4		Color	Black		
5		Weight (Gross)	14.1	KG	
6		Weight (Net)	11.2	KG	
7		Speaker	2×2W 4Ω	Watt	
8		Screen hanging mode	Portrait,Landscape		
9		Play mode	☒ Horizontal ☒ Split display ☒ Vertical ☒ Play List		
10		OSD Language	Chinese\English		
11		Multimedia transmission	USB,LAN,WLAN		
12	Function	Smart volume	Support		
13		Watch dog	Support		
14		Timer	Timer switch		
15		Management software	C/S framework: ADPE/Ezposter B/S framework: GTV Information Distribution System		
16	Core	CPU	RK3288 quad-core ARM Cortex A17(Max.18GHz)		
17		GPU	quad-core ARMMail-764		

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18		Memory		DDR3 2GB			
19		Storage		8G eMMC			
20		Operation System		Android 5.1			
21	Multimedia	Picture	Extension	*.jpg, *.jpeg, *.bmp, *.png		TBD	
		Audio	Extension	*.mp3			
		Video	Extension	MPEG1、MPEG2、MPEG4、WMV、MKV、 AVI、TS、flv			
			Encoder	MPEG-1	bitrate<20Mbps		
				MPEG-2	bitrate<20Mbps		
MPEG-4	bitrate<20Mbps						
H.264	bitrate<20Mbps						
AVC	bitrate<20Mbps						
VC-1	bitrate<20Mbps						
RM	bitrate<10Mbps						
22		Text	Extension	.txt			
23		HTMI 5		Support			
24	Installation	Installation mode		VESA			
		VESA standard		400x200 (Screw type M6×10mm)			
25	Accessories			1. Power cord x1 2. Remote control x 1 3. AAA battery x 2 4. Certificate×1 5. Warranty card x 1 6. Quick start x 1 7. Wi-Fi antenna x 1 8. Security and Environmental Protection×1			

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26	Certification		CB, CE, FCC, CTUVUS, PSE, TELEC, ROHs		
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3.2. LCD Panel Technical Parameters

	Symbol	Parameter			Unit	Note
		Min	Typ	Max		
LCD Panel Size		-	42.51	-	inches	Led backlight
Active Screen Size		941.184(H) x529.416 (V)			mm	
Pixel Format		1920×1080			Pixels	
Panel Luminance			700		cd/m ²	
Contrast Ratio	CR			-		
Color Depth		8bit, 16.7 Million colors				
Pixel Pitch		0.4902x0.4902			mm	
Color temperature			10000			
Color Gamut			72%		%	
Response Time	G to G BW	-	12	16	ms	
Backlight Life Time		-	30000	-	Hrs	
	Xaxis,right=0°	R	89	-		

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Viewing Angle	x axis, left=180°	L		89	-	
	y axis, up =90°	U		89	-	
	yaxis, down=270°	D		89	-	

3.3. Input Signal

3.3.1. HDMI Port

Resolution	Refresh
1024x768	@60Hz/50Hz
1600x900	@60Hz/50Hz
1280x800	@60Hz/50Hz
1280x720	@60Hz/50Hz
1280x1024	@60Hz/50Hz
1360x768	@60Hz/50Hz
1366x768	@60Hz/50Hz
1440x900	@60Hz/75Hz
1680x1050	@60Hz/50Hz
1920x1080	@60Hz/50Hz

3.3.2 VGA Port

Resolution	Refresh
1024x768	@60Hz/50Hz
1600x900	@60Hz/50Hz
1280x800	@60Hz/50Hz

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1280x720	@60Hz/50Hz
1280x1024	@60Hz/50Hz
1360x768	@60Hz/50Hz
1366x768	@60Hz/50Hz
1440x900	@60Hz/75Hz
1680x1050	@60Hz/50Hz
1920x1080	@60Hz/50Hz

3.4. Specification Overview

3.4.1. AC Input Electrical Characteristics

Item	Symbol	Values			Unit	Note
		Min	Typ	Max		
AC Power Input Voltage	AC IN	100	220	240	VAC	
AC Power Input Current	TBD	-	-	1.6A	AAC	
Power Consumption	TBD	-	-	45	Watt	

3.4.2. Green mode function

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

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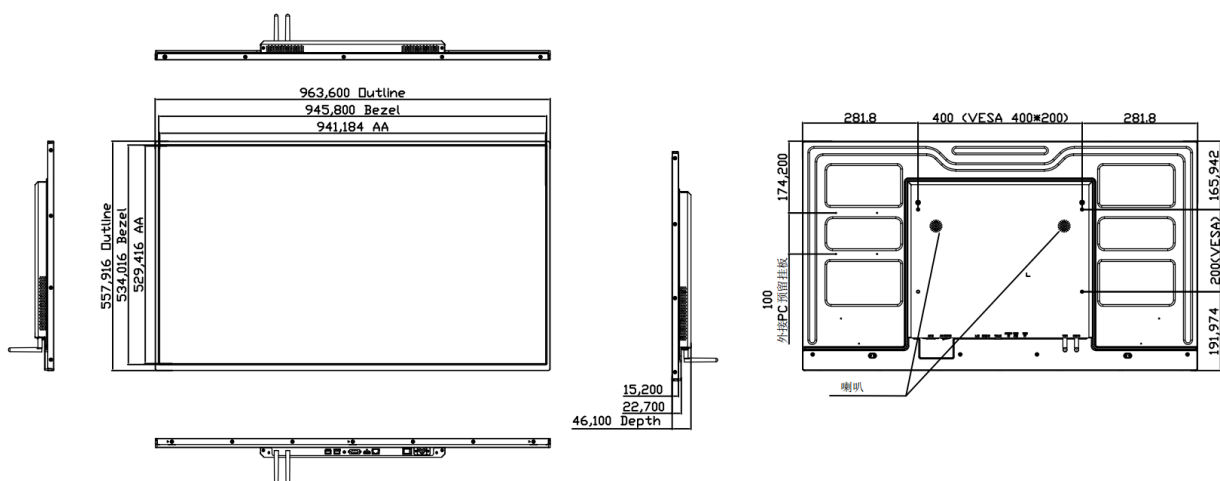
3.5. External Interface Portion

NO	Subtype	Name	Number	Parameter
1	Ac input	Coupler	×1	Torx tail
2		AC Switch	×1	Rocker switch
3	Input Terminals	HDMI	×1	1.3
4		VGA	×1	1D-SUB 15pin
5		Analog audio	×1	3.5mm stereo jack
6	Control Terminals	Ethernet RJ45	×1	100M/1000M Ethernet
7		WiFi	×1	2.4G WiFi IEEE802.11b/g/n
8		USB2.0	×2	USB OTG USB HOST
9		4G module	x1	Optional
10		SIM	×1	3G/4G SIM slot, with lock
11		Extension storage	×1	Micro TF Card 32G (Max)

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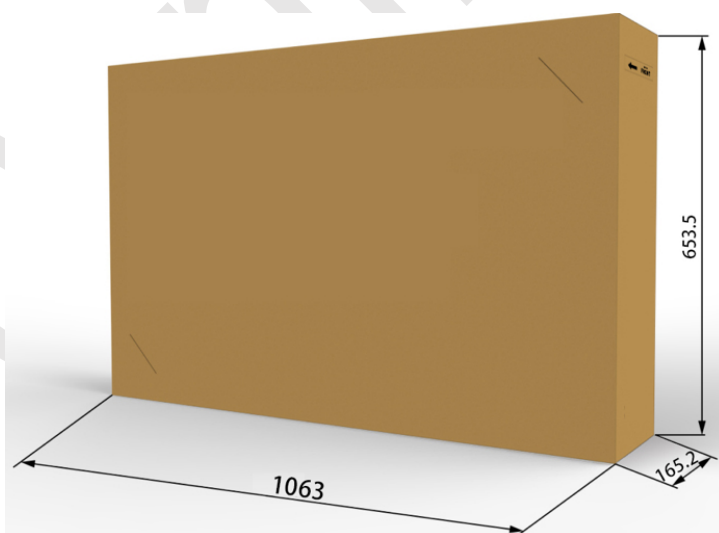
Chapter IV. Mechanical Portion

4.1. Outline drawing



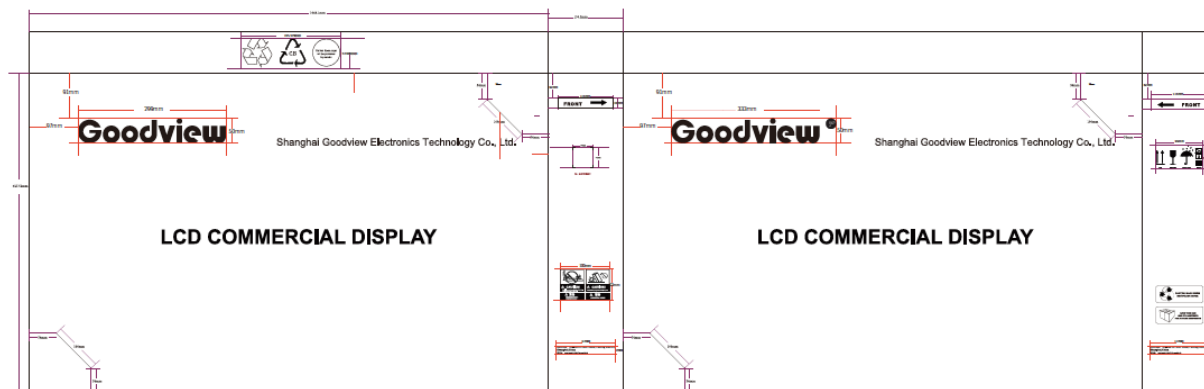
Chapter V. Packaging Portion

5.1. Packing Size

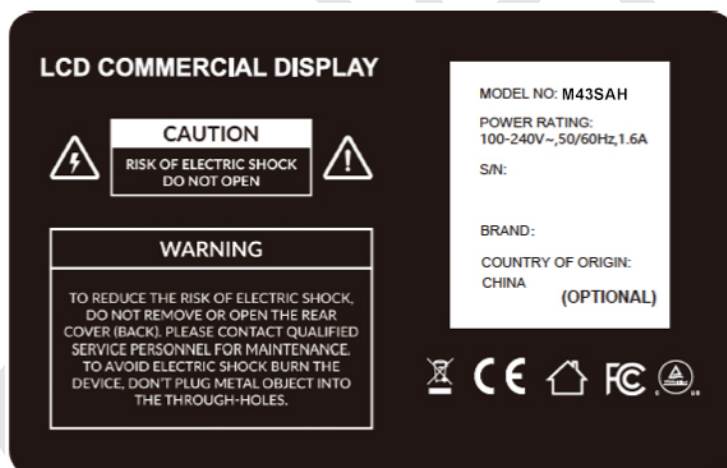


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5.2. Packaging Drawings



5.3. Nameplate



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5.4. Labels

5.4.1. Nameplate Labels

Model Number: **M43SAH**

Part Number: **1250128**

Serial Number:

Sales:

Remark:



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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).

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).

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Chapter VII. ID Rendering

7.1. Six Sides Figure



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7.2. Front View



7.3. Back View



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7.4. End View



7.5. Interface Rear View

