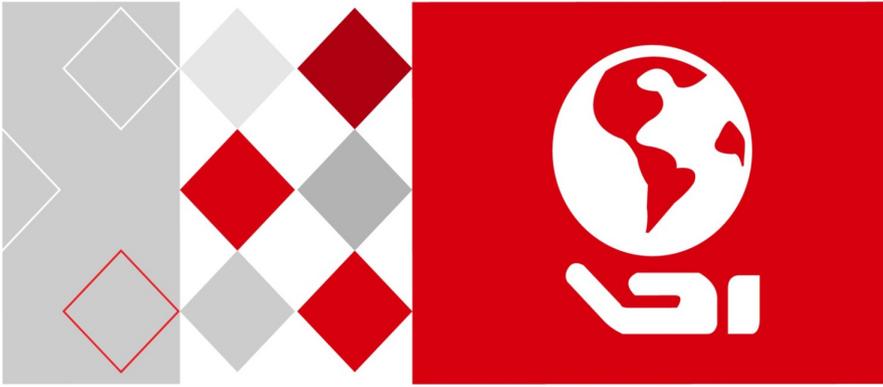


HIKVISION



DS-D5050UC
User Manual

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This manual provides operation guide for users. We try our best to ensure the accuracy of all statements, technical information and advise in this manual, any guide or related documents, but cannot absolutely guarantee that these contents are error-free, detailed and complete, and these contents are not intended to serve and shall not be interpreted as promises or guarantees for the product.

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Safety instructions



Pixel feature

This liquid crystal display product has ultrahigh color resolution. While its effective pixels are up to 99.999% or higher, it is still possible that a dark spot or a bright spot (red, green or blue) constantly appears on the screen. This is the structure property (within the general industrial standard) of the display rather than a fault.



“HDMI”, “HDMI logo” and “HIGH DEFINITION MULTIMEDIA INTERFACE” are trademarks or registered trademarks of the HDMI licensing LLC.

Safety

Please read and understand all instructions before using the monitor safety. Damage resulting from nonobservance of the instructions is not covered by the warranty.

Be careful of electric shock and fire!

- Never make the monitor contact with rain or water. Never place a liquid container (e.g., a vase) near or on the monitor. Please disconnect the monitor's power immediately if a liquid is spilled on the monitor's surface or inside. Please contact the customer service center before using it again.
- Never put a monitor, remote controller, or battery near an open flame or other heat source (including direct sunlight). In order to avoid flame spread, always keep candles or other open flames away from monitors, remote controls, and batteries.

- Never insert any object into the ventilation slot or other openings on the monitor.
- Please make sure that the power line is not taut. The tightening of the power line will loose the power connections and produce sparks.

Beware of short circuit or fire!

- Do not expose the remote controller or battery in rain, water or overheated environment.
- Please avoid pulling the plug. Loose power plugs may spark or cause fire.

Watch out for personal injury or monitor damage!

- It is suggested that the monitor be carried by two people.
- When installing the monitor on the stand, please use only the chassis provided. Firmly fix the frame on the monitor. Put the monitor on a flat, flat surface that can withstand the total weight of the monitor and the chassis.
- When installing a monitor with wall mounting, please use only the wall mount bracket that can bear the weight of the monitor. Fix the wall mount mounting bracket on the wall that can withstand the total weight of the monitor and the wall mount bracket.
The company is not responsible for the accident, personal injury or loss caused by improper installation.

Be careful of hurting children!

Please follow the following precautions to avoid child injury due to monitor falling:

- Never place the monitor on a surface covered with a cloth or other material that can be pulled.
- Make sure that any part of the monitor is within the edge of the surface.
- When placing a monitor on a high furniture (such as a bookcase), the furniture and monitor must be fixed to the wall or the appropriate support.
- Tell children about the dangers of climbing furniture and touching monitors.

Beware of eating battery!

- The remote control of this product contains batteries. There is a risk that children might eat the batteries. Please keep them out of reach of children.

Watch out for overheating!

- Never install the monitor in the enclosed space. Always leave at least 4 inches or 10 centimeters of space around the monitor for ventilation. Make sure that curtains or other objects do not block the ventilation slot on the monitor.

Be careful! Don't break the monitor!

- Before you connect the monitor to the power outlet, make sure that the power voltage matches the value printed on the back of the monitor. If the voltage is different, don't connect the monitor to the power outlet.
- If the monitor is not used for a long time, please cut off the power supply.

Be careful of personal injury, fire or power line damage!

- Do not put the monitor or any object on the power line.
- As a disconnecting device, the power plug should be kept to operate conveniently.
- When the power line is disconnected,

- always hold the plug instead of pulling the cable.
- Before the thunderstorm comes, disconnect the monitor from the power outlet and the antenna. Never touch any part of a monitor, a power line, or an antenna in a thunderstorm.
- The wired network antenna connected to the equipment must be isolated from the protective grounding, otherwise it may cause fire and other dangers!

Watch out for hearing impairment!

- Avoid using headphones or earphones at high volume or for a long time.

Low temperature

- If the monitor is transported below 5°C, please open the package of the monitor. Wait for the monitor to adapt to the room temperature, and then connect the monitor to the power outlet.

Screen maintenance

Before using the monitor, please read and understand all the instructions. Damage resulting from nonobservance of the instructions is not covered by the warranty.

- Try to avoid still images. A still image means that an image stays on the screen for a long time. Still image may cause permanent damage to the monitor screen;
- the monitor screen to cause image blur, afterimage, local traces, and the display is not within the scope of warranty
- Don't display static images for more than 2 hours on the LCD monitor, because it will cause the screen image blur. In order to avoid this problem please reduce the brightness and contrast of the screen in the display of a still image.

- When you watch 4:3 programs for a long time, you leave different marks on the left and right sides of the screen and the edges of the image, so please don't use this mode for a long time.
- Image sticking may occur if playing video games or displaying still images for a long time. It is caused by screen burn. Please reduce brightness and contrast when appropriate.
- Pull out the monitor plug before cleaning.
- Use a soft dry cloth to wipe the monitor and frame. Do not use alcohol, chemicals or household cleaning agent cleaning monitor.
- Watch out for damage to monitor screen! Do not use any object to contact, push, rub or tap the screen.
- In order to avoid deformation and fading, please wipe water as soon as possible.

Disposal of old products and batteries

Before using the monitor, please read and understand all the instructions. Damage resulting from nonobservance of the instructions is not covered by the warranty.



This product is made of recyclable high performance materials and components.



If the product has a crossed-out wheeled bin symbol, the product complies with the EU Directive 2012/19/EU. Please check the local classification and collection system of electronic and electrical products. Please comply with local regulations and don't discard old products into ordinary domestic waste. Proper disposal of old products can help to avoid potentially negative impacts on the environment and human health.

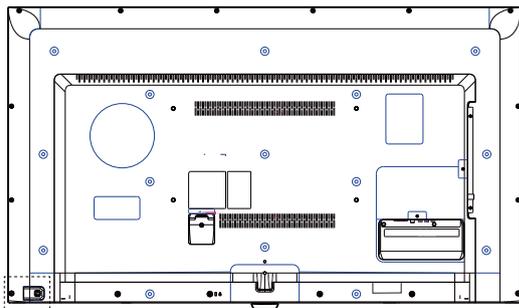
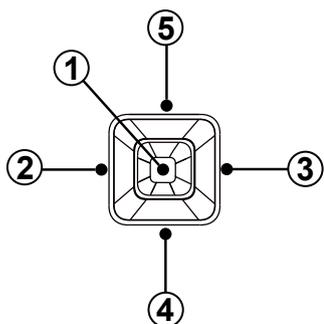


This product contains the battery involved in the EU directive 2006/66/EC, which cannot be treated with common domestic waste.

Please understand the local regulations on battery collection. The correct disposal of batteries will help to avoid negative impacts on the environment and human health.

Operation manual

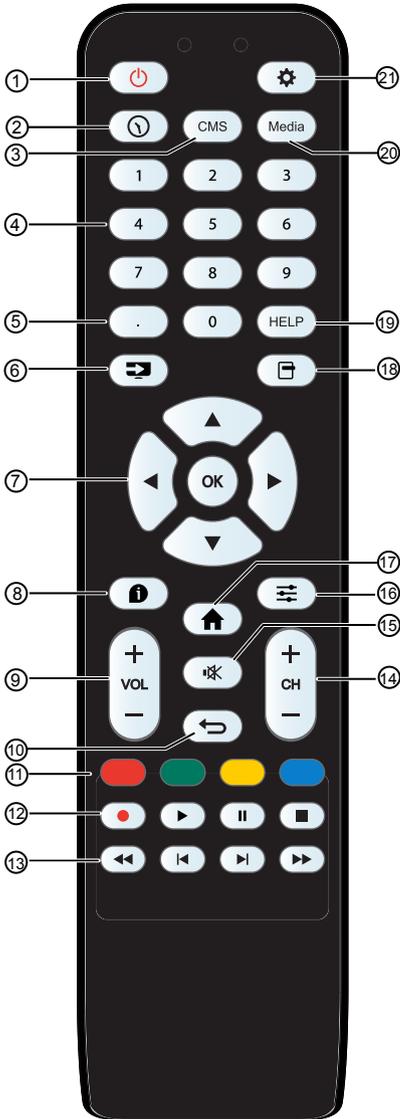
Control panel



(The shape of the product will vary between the models, please take the actual machine as the standard!)

①	Open / close the control menu. In the control menu, when the cursor is displayed in the volume and source, press the button to close the control menu; when the cursor is displayed in standby, press the button to set the monitor to standby. Operation common interface can be used as confirmation key.
② / ③	Move the cursor from right side to left side on the control menu, and move the cursor from left side to right side when you operate the normal interface.
④ / ⑤	In the control menu, when the cursor is displayed in the volume, press this button to adjust the volume; when the cursor is displayed in the source, press this key to switch the source. It is possible to move the cursor up and down when operating the regular interface.

Remote control

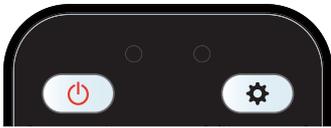


1. Standby-Power on
Return to the last menu or exit the current application.
Boot when the monitor is in standby mode.
2. Turn on / off screen settings.
3. Turn on CMS.
- 4/5. Digital input button
6. Signal source
To open or close the source menu, select the connected device.
7. Button
Up, down, Left and Right operation key & confirmation key.
8. Information
Display the document information on the multimedia player.
9. Volume + / -
Increase and decrease volume.
10. Return
Return to the last menu or exit from the current application.
11. Color button
This machine is not supported.
12. Recording key
This machine is not supported.
Play key

Press this button to play multimedia files.
13. Multimedia control
This machine is not supported.
Play .
14. Channel + / -
This machine is not supported.
17. List
15. Home
18. Home
19. HELP
20. Media
21. Settings

- 15. Mute
Mute or restore volume.
- 16. Application menu
Access and current activity or select the relevant option.
- 17. Intelligent monitor
Enter the main interface of smart monitor.
- 18. Option button
Use it in a multimedia player.
- 19. Help
This machine doesn't work.
- 20. Open multimedia player
- 21. Settings
Open setup options.

Power switch on remote control



Switch to standby when booting

- Press the  on the remote controller (boot - standby).
- The standby indicator turns red.

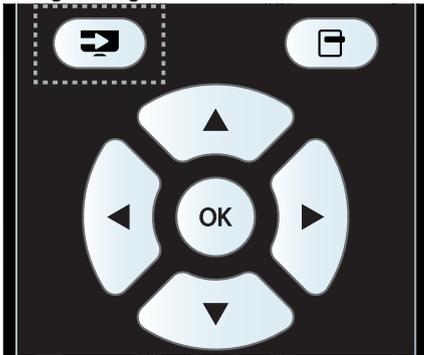
Prompt:

The power consumption of monitor during standby is low, the monitor still consumes power. Only when the power supply is pulled out, the product will be completely power-off. If you don't use it for a long time, unplug the power plug.

Device for viewing connection

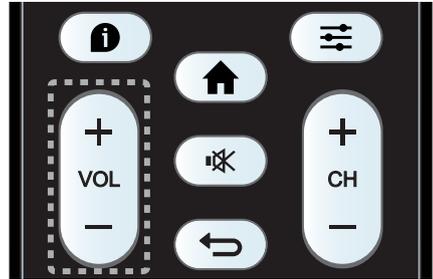
Notes:

Please open the external device before selecting the external signal source.
Using the signal source button.



1. Press the  signal source.
 - List of signal sources.
2. Selects a device according to  .
3. Confirm selection.
 - The monitor switches to the selected device.

Adjust monitor volume



Increase or decrease the volume

- Press the volume + / - on the remote control.

Mute or Unmute

- Press the  on the remote control to mute.
- Again, press the  on the remote control to restore the sound.

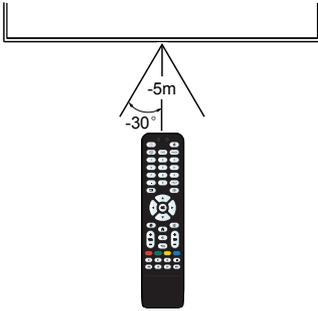
Access monitor menu

1. Press the  application menu. Menu opening
2. After selecting the following options, please press confirm:
 - [Picture Style]: apply pre-defined screen settings options.
 - [Sound Style]: apply pre-defined sound settings options.

Notes

The application menu may differ according to different signal sources.

Remote control use



Open monitor

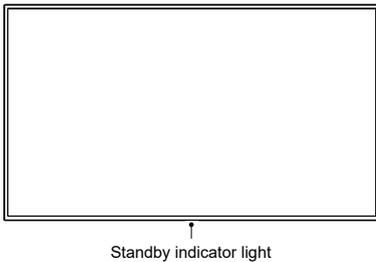
- Please insert the power cord into the AC power outlet.
- If the standby indicator is red, press  on the remote

(standby - boot).

When using a remote control, press it close to the monitor, and point to the remote sensor. Ensure that the sight between the remote control and the monitor is not obstructed by furniture, walls, or other objects.

Turn on / off the monitor, or switch to standby

Standby indicator light



(The shape of the product will vary between the models, please take the actual machine as the standard!)

Media player

1. The home page of the media player, this page contains three items: "Play", "Compose" and "Settings".

Play: choose to play the playlist.

Compose: edit playlists.

Settings: set the playback content.



2. Select the "Play" on the home page, and you should first select a playlist to play between FILE 1 and FILE 7. The pencil icon represents the playlist is not empty.



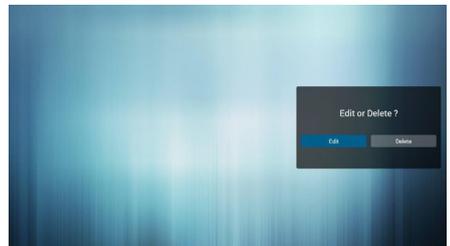
3. Select the "Compose" on the home page, and you should first select a playlist to edit between FILE 1 and FILE 7. The pencil icon represents the play list is not empty.



4. If you select the empty playlist, the application will guide you to choose media sources. All media files should be located in the root directory. For example:
 - Video at /root/movies/
 - Photos at /root/pictures/
 - Music at /root/music/



5. You can edit or delete non empty playlists. Just select the required playlist with pencil icons.



6. After you start editing the playlist, you will see the following screen.

Source - storage device files.
Playlist - playlist file.

Four icons corresponding to buttons on the remote control are available. Option key - start rolling

Play key - play media files.

Info key - media information display.

Ok key - select / deselect files.

6-1 The scroll bar can help you perform the following tasks:

- select all: select all the storage file.
- delete all: delete all the playlist file.
- add/remove: update from the playlist.
- sort: sort playlists.
- save/abort: storage or suspend the playlist.
- back: return.



7. If you select “Sort” in the scroll bar, you can change the order of files one by one.



8. In choosing the desired file information and press button, you can get detailed information.



9. In choosing the desired file and pressing the play button, you can directly play media files.



10. If you make a playlist containing all images and documents, the application will ask if you wish to play background music while playing slides before saving.



11. Select “Settings” on the page, which contains three sections:

“Repeat Mode”, “Slideshow Effect” and “Effect Duration”.

Repeat Mode: playback mode.

Slideshow Effect: photo slide effect.

Effect Duration: photo effect duration.



12. Media shortcuts

Play: play the file.

Pause: suspend the file.

Fast forward: turn 10 seconds quickly.

Rewind: reverse for 10 seconds.

Stop: stop the file and return to start. If it is a GIF file, then the function is similar to pause.

Using CMS 3.1

1. System requirements

	System requirements
Operating system	Windows 7,8,10 (32/64 bits)
CPU	2.5GHz CPU or faster
Memory	4GB
Hard disk	100GB
Network card	10/100/1000 Ethernet card

2. Application program

3. Application program

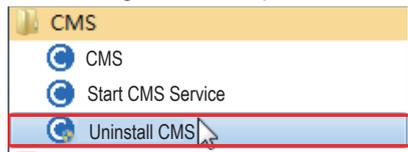
1) Install

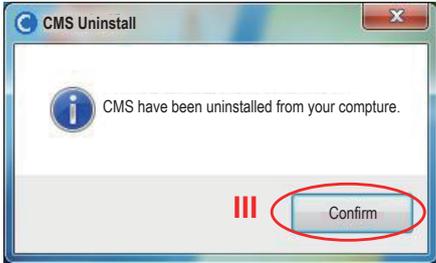
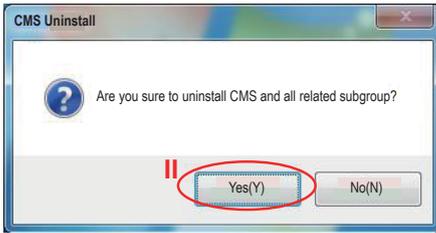
Please turn off firewall and antivirus software first.



2) Uninstall

This action will remove all of the CMS data including the advanced settings-full backup file.

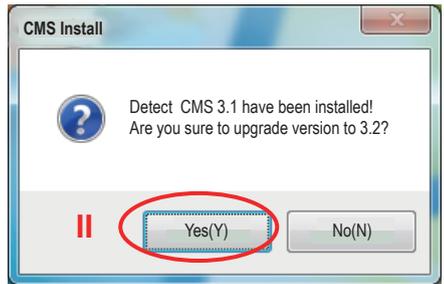




3) Number



4) The action of upgrading will clear all CMS data. If you want to retain the old AD content data, please go to Advanced settings-Full backup.



5) Noun explanation

Noun	Explain
Group	Publishing unit. You can group the devices.
Advertisement	You can design content.
PIN Code	Must be set on the device, used to bind the equipment code.
Templates	You can choose to design the contents of advertisements from templates.
.bak	Backup file.
.cms	Publish content file.
.cmx	Advertising file.

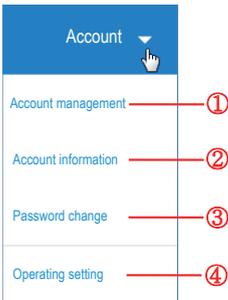
4. Sign in

Default account: admin

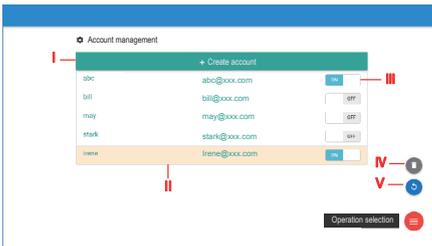
Default password: admin



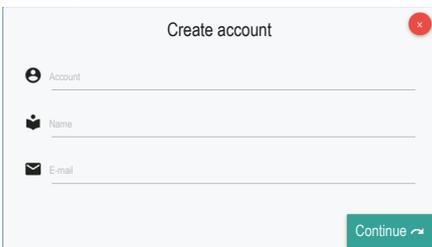
5. Account



1) Account management (only administrator)



I. Create account



II. Account list: Click to select the account list obtained after the creation of accounts to do related operations.

III. Enabled the account: Select the account you want to enable, click on this operation button to activate the account, and click again to close the account.

IV. Delete the account: Select an account from the account list first, and then click on this operation button to delete the account, with the related AD, time period, release record, etc. being deleted together.

V. Account password reset: Select an account from the account list first, and then click on this operation button to reset the password of this account, with the new password being: Ab123456.

2) Account information

You can go to modify the display name after clicking.

3) Modify password

You can go to modify the password after clicking.

4) Operation setting

Operation guide: click after open operation wizard guide.

6. Function

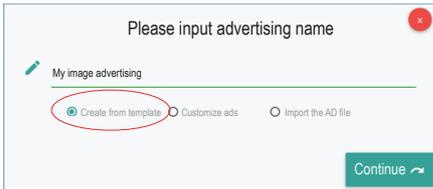
-  Advertisement editor
-  Schedule management
-  Release management
-  Equipment management
-  Advanced Settings

7. AD editor



1) New AD

I. From template creation:



II. Custom AD:



✳️The design criteria and restrictions:

please refer to the “AD design guide”.

III. Import AD file



2) Type version

Vertical screen(9:16) Horizontal screen(16:9)



3) Custom advertising

Set the AD content of their own AD style.

4) Advertising list

Select an AD from the AD list obtained after the addition of the AD, and click on it to perform related operations.

5) Continue

Select an AD from the list, and then click on this operation button to edit its content, i.e., edit the AD here.

6) Fast to scheduling management

Click to go directly to the schedule management.

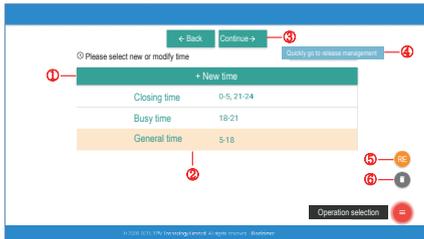
7) Rename ads

Select an AD from the list, and then click on this operation button to rename it.

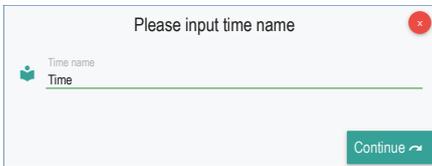
8) Copy ads

Select an AD from the list, and then click on this operation button to reproduce a new list according to it.

- 9) Delete ads
Select an AD from the list, and then click on this operation button to delete it.
- 10) Export advertisement
Select an AD from the list, and then click on this operation button to export its content into a document in the format of .cmx.
- 8. Scheduling management
Select the time period after selecting the group, and then tick AD and AD playing time, thereby completing scheduling.



- 1) New period
Time schedule management is 1 hour as a unit.



- 2) Schedule list
Click to select the schedule time period list obtained after the addition of the time period to perform related operations.
- 3) Continue
Select one from the list, and then click on this operation button to edit

its content, i.e., editing the time period here, and tick AD and input AD playing time afterwards.

- 4) Fast to release management
Click to go to release management directly and rapidly.
- 5) Rename time
Select one from the list, and then click on this operation button to rename it.
- 6) Delete period
Select one from the list first, and then click on this operation button to delete it.

✳️The scheduling constraints:

1. In consideration of simplification, the scheduling management only supports time period scheduling within one day and does not support scheduling of a specific date (containing year, month and day).
2. In consideration of simplification, the scheduling management only supports being in the units of hour rather than accurate minute and second.

9. Release management

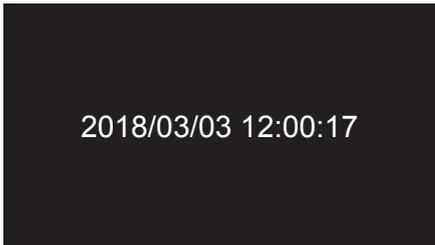


- 1) Group released list
Click to select the group release list obtained after the addition of the

time period to perform the related operations.

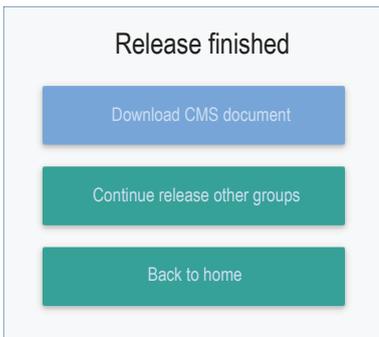
2) Time out advertising

Click to change the content which will be played under the circumstance that any AD is scheduled in other time periods than the scheduled time periods, with the [small clock] example before changing shown as below:



3) Release

Select one from the list first, and then click on this operation button to release the AD content to the selected group, and allow downloading of the latest released .cms document for this group after the completion of release.



4) Release record



5) View scheduling

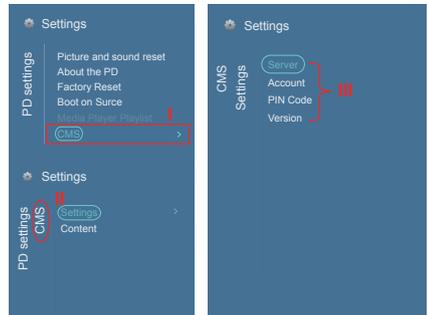
Select one from the list first, and then click on this operation button to directly and rapidly go to check the scheduling management content of this group.

10. Device management

1) Device setting

This account and PIN code must be set in the device.

Android PD



I. Set CMS Settings as "USB storage".



2) Device list

It will be present in this list after being bound in the device terminal.

3) Device connection status

- I. Device connection normal.
- II. Device is offline.

4) Device update data status

- I. Completed to download CMS update file for device.
- II. Failed to download CMS update file for device.
- III. Insufficient storage space for device.
- IV. CMS update file for device is downloading.

5) Deployment data

Click to unfold the relevant content of this device.

6) Group menu

Click to select other options, i.e., changing the group to which the device belongs.

7) Modify group name

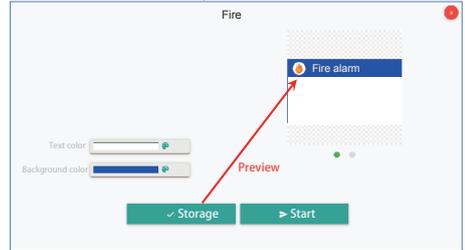
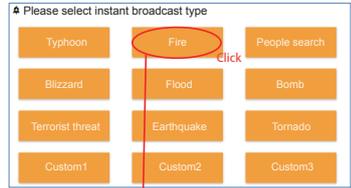
It can be modified for the name of the group.

8) Device naming

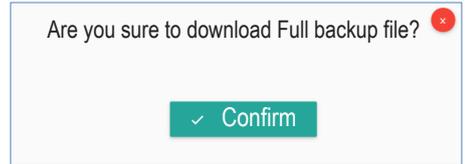
Click to enter text to name the device.

10. Advanced

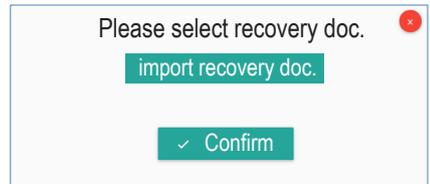
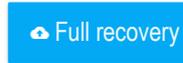
1) Instant broadcast



2) Full backup (only administrator)



3) Full recovery (only administrator)



Change language

You can choose to change the language of the menu.

1. Press , select [Language] > [Menu Languages], and then press .

2. Press OK after selecting your desired language.

Rename external device

You can select a new name according to your own preference after the connection of an external device in the signal source menu.

Notes:

The device name can contain 10 Chinese characters and 10 English letters at most.

1. Press the signal source .
2. Select the  icon beside the device to be renamed.
3. Select the relevant diagram.
4. Enter a new name.
5. Select [Apply] after completing the input of the new name, and then press OK.

Reset signal source name

1. Press the signal source .
2. Select the  icon beside the signal source to be reset, and then press OK.
3. After selecting reset, press OK.

Change picture settings

Change the page settings to adapt to your own preference. You can apply the predetermined settings or manually change the settings.

Quick setting screen settings

This feature can help you quickly set the screen

1. Press the  icon, select [picture] > [Quick Picture and Sound Settings], and then press OK.
2. Choose your favorite settings

according to the instructions on the screen.

Use Picture Style

Use the picture settings predetermined in picture mode application.

1. Click  (application menu) and select [Picture Mode].
2. Select one of the following settings and then press OK.
 - [Bright]: apply colorful and dynamic settings, suitable for use when viewing in daytime.
 - [Nature]: apply natural picture quality.
 - [Standard]: adjust the picture settings to adapt to most video environments and types.
 - [Cinema]: apply the settings-Watch Movie.
 - [Photos]: suitable for viewing photos.
 - [Energy Saving]: apply low-energy settings.
 - [Personal Setting]: use the user-defined picture settings.

Manual adjustment of picture settings

1. Press , select [Picture], and then press OK.
2. Select one of the following settings and then press OK.
 - [Quick Picture and Sound Settings]: select your preferred settings according to the instructions on the picture.
 - [Picture Style]: select the predefined settings.
 - [Contrast]: adjust the contrast to increase the light intensity difference between the highlights and the shades.
 - [Backlight]: adjust the backlight intensity.
 - [Brightness]: adjust the

- strength and fineness of the dark area.
- [Color]: adjust the color saturation.
- [Sharpness]: adjust the image resolution.
- [Tint]: definition of the color temperature.
- [Custom Tint]: You can set your own preferred picture color balance. (Personal setting can only be allowed only when User-defined color temperature is selected.)
- [4K Enhancement]: fine-adjust each pixel to match the surrounding pixels. This will produce a perfect high-definition image.
 - [Advanced Sharpness]: enable ultra-high picture resolution.
 - [Dynamic Contrast]: enhance the contrast with image changes.
 - [Dynamic Backlight]: dynamically adjust the backlight brightness of the monitor.
 - [Color Enhancement]: provide brighter and richer colors.
 - [Gamma]: fine adjust the shade of grey of the picture.
- [Advanced]:
 - [Noise Reduction]: filter out and reduce the noise in an image.
 - [Light Sensor]: dynamically adjust the parameter settings under the current light condition.
 - [PC Mode]: adjust the picture settings when a computer is connected to the monitor by using HDMI.
 - [Screen Edge]: adjust the size of the picture to be viewed. (When set at the maximum, you may see noise and unevenness appearing at the edges of the picture.)
 - [Auto Adjust]: The picture can adjust automatically when a computer signal source is used.
 - [Picture shift]: adjust the picture position of each screen mode.
- [Picture Format]: change the format of the screen.

Change The Picture Formats

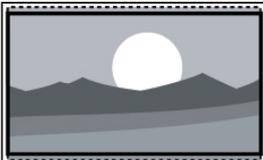
Press , select [Picture] > [Picture format], and then press .

Picture format abstract

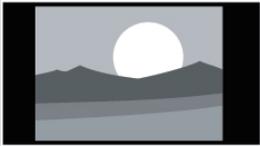
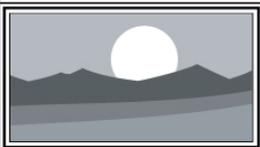
The following picture settings may be configured.

Notes:

Some picture settings are unavailable according to the formats of the picture sources.



[Ultra-magnified screen]:
(Not applicable to the PC mode.) Remove the black edge generated in the 4:3 format. This action will cause tiny deformation of the picture.

	<p>[4:3]: Display the traditional 4:3 picture format.</p>
	<p>[Unformatted Conversion]: It will adjust the resolution to the maximum. The picture may slightly deform due to the playing system of the monitor. You can set your computer resolution in the wide screen mode to achieve the optimum display effect.</p>
	<p>[Caption Zoom-In]: (Not apply to the high definition and PC mode.) Remove the black bar in the 4:3 format and display the captions, but the top of the screen display will be partially cropped.</p>
	<p>[Movie Extend To 14:9]: (Not apply to the high definition and PC mode.) Adjust the 4:3 picture format to 14:9.</p>
	<p>[Movie Extend To 16:9]: (Not applicable to the PC mode.) Adjust the picture format of 4:3 to 16:9.</p>
	<p>[Wide screen]: Adjust the picture format of 4:3 to 16:9.</p>
	<p>[Full screen]: (Only applicable to HDMI and digital monitor signal sources). This mode corresponds to the reproduction ratio set to 100%.</p>

Change the sound settings

Change the sound settings to suit your own preference. You can apply

the predefined settings or manually change the settings.

Quickly setting the sound settings

This function can help you quickly set the sound.

1. Press , select [Picture] > [Quick Picture and Sound Settings], and  then press OK.
2. Select your preferred settings according to the instructions on the picture.

Use the Sound Mode

Use the sound mode to apply the predefined sound settings.

1. Press the  application menu, select [Sound Style], and then press OK.
2. Select one of the following settings and then press OK.
 - [Standard]: sound settings suitable for most environments and types.
 - [News]: sound settings suitable for speech (such as news).
 - [Cinema]: sound settings suitable for movies.
 - [Game]: sound settings suitable for games.
 - [Drama]: sound settings suitable for drama programs.
 - [Sports]: sound settings suitable for sports programs.
 - [Personal Settings]: use the user-defined sound settings created in the sound option.

Manual adjustment of sound settings

1. Press , select [sound], and then press OK.
2. Select one of the following settings and then press OK.
 - [Sound Style]: access predefined sound settings.
 - [Bass]: adjust the bass.
 - [Treble]: adjust the treble.
 - [Balance]: adjust the balance of the left and right speakers.
 - [Surround]: enable or disable the Surround function.
 - [PD Position]: Select your monitor installation manner.
 - [Advanced]:
 - [Auto volume levelling]: automatically reduce sudden volume change when switching channels.

- [Sound Enhancement]: enhance the clarity of the sound.
- [SPDIF]: select the type of the audio through the digital audio output interface.
 - [PCM]: convert the non-PCM audio type into the PCM audio format.
 - [RAW]: output the audio to the home theater device.

Use the application menu

Access the option associated with the current activity or selection.

Press the  application menu when looking at the monitor.

The  option directory is divided into Picture Style, Sound Style, Channel Information, Mono/Stereo, Bilingual I-II.

Notes:

The application menu may differ according to different signal sources.

Reset to the factory settings

You can reset the settings of Picture and Sound to the factory settings.

1. Press , select [PD Settings] > [Picture and Sound Reset], and then press OK.
2. Start resetting the settings after pressing [OK].

USB supported video formats

Spec of AV codec , Video					
File format	Video format	Max bitrate	Frame rate	Resolution	Audio format
AVI(.avi)	MPEG-1,	80Mbps	30FPS	1920x1080	MPEG-1 Layers I,II, III(MP3) AAC, AC3, PCM, WMA, WMAPro
	MPEG-2MP@HL,	80Mbps	30FPS	1920x1080	
	MPEG-4 SP@L0-3, ASP@L0-5,	50Mbps	30FPS	1920x1080	
	H.264 MP,HP@ Level4.1,	100Mbps(VCL) 120Mbps(NAL)	30FPS	3840x2160	
	VC1 (AP),	45Mbps	30FPS	1920x1080	
	H263,	5Mbps	30FPS	1280x720	
	MJPEG,		30FPS	1920x1080	
MPEG-2 TS Transport Stream(.ts)	MPEG-2MP@HL,	80Mbps	30FPS	1920x1080	MP3 AAC AC3 PCM
	MPEG-4SP@L0-3,ASP@L0-5,	50Mbps	30FPS	1920x1080	
	H.264 MP,HP@ Level4.1,	100Mbps(VCL) 120Mbps(NAL)	30FPS	3840x2160	
	AVS bench- mark grade @ level 6,	50Mbps	30FPS	1920x1080	
	VC1 (AP),	45Mbps	30FPS	1920x1080	
	H265	100Mbps	30FPS	3840x2160	

MPEG File Format (.mpeg)	MPEG-1,	80Mbps	30FPS	1920x1080	PCM, AC3, MP3
	MPEG-2MP@HL,	80Mbps	30FPS	1920x1080	
	H.264 MP,HP@ Level 4.1,	100Mbps(VCL) 120Mbps(NAL)	30FPS	3840x2160	
	H.264 MP,HP@ Level 4.1,	100Mbps(VCL) 120Mbps(NAL)	30FPS	3840x2160	
	MPEG-4SP@L0-3, ASP@L0-5,	50Mbps	30FPS	1920x1080	
	H265	100Mbps	30FPS	3840x2160	
QuickTime (.mov)	H.264 MP,HP@ Level 4.1,	100Mbps(VCL) 120Mbps(NAL)	30FPS	3840x2160	AAC
	MPEG-4SP@L0-3, ASP@L0-5,	50Mbps	30FPS	1920x1080	
	MJPEG,		30FPS	1920x1080	
	H265	100Mbps	30FPS	3840x2160	
BD-AMV MPEG-2 transport stream (.m2ts)	H.264 MP,HP@ Level 4.1,	100Mbps(VCL) 120Mbps(NAL)	30FPS	3840x2160	AC3, AAC,
	VC1 (AP),	45Mbps	30FPS	1920x1080	
	MPEG-2MP@HL,	80Mbps	30FPS	1920x1080	
Matroska (.mkv)	H.264 MP,HP@ Level 4.1,	100Mbps(VCL) 120Mbps(NAL)	30FPS	3840x2160	
	VC1 (AP),	45Mbps	30FPS	1920x1080	
	H265	100Mbps	30FPS	3840x2160	
Flash Video (.flv)	H.264 MP,HP@ Level 4.1,	100Mbps(VCL) 120Mbps(NAL)	30FPS	3840x2160	AAC, MP3
	H263	5Mbps	30FPS	1280x720	

Video Object (.vob)	MPEG-2MP@HL,	80Mbps	30FPS	1920x1080	AC3 PCM MP3
DAT (.dat)	MPEG-1,	80Mbps	30FPS	1920x1080	PCM MP3
Advanced Stream Format (.asf)	VC1 (AP),	45Mbps	30FPS	1920x1080	MP3
	H.264 MP,HP@ Level 4.1,	100Mbps(VCL) 120Mbps(NAL)	30FPS	3840x2160	PCM WMA
	MPEG-4SP@L0-3, ASP@L0-5,	50Mbps	30FPS	1920x1080	
3gp	H.264 MP,HP@ Level 4.1,	100Mbps(VCL) 120Mbps(NAL)	30FPS	3840x2160	AMR_NB, AAC
	H263	5Mbps	30FPS	1280x720	
	MPEG-4SP@L0-3, ASP@L0-5,	50Mbps	30FPS	1920x1080	
tp	MPEG-2MP@HL,	80Mbps	30FPS	1920x1080	MPEG-1 Layers II, AC3
trp	H.264 MP,HP@ Level 4.1,	100Mbps(VCL) 120Mbps(NAL)	30FPS	3840x2160	MP3
	MPEG-2MP@HL,	80Mbps	30FPS	1920x1080	

USB supported audio formats

Spec of AV codec , Audio			
Audio file	Audio format	Sampling rate	Rate
Windows Media Audio (.wma)	WMA WMAPro	8KHz ~ 48KHz	128bps ~ 320Kbps
MPEG Audio Layer III (.mp3)	MPEG	32kHz ~ 48kHz	32kbps ~ 320kbps

Advanced Audio Coding (.aac)	AAC	16kHz ~ 48kHz	24kbps ~ 384kbps
N/A (Work with video files only)	AC3	32kHz, 44.1kHz, 48kHz	32kbps ~ 640kbps
	EAC3	32kHz, 44.1kHz, 48kHz	32Kbps ~ 6 Mbps
OGG Vorbis (.ogg)	Vorbis	8kHz~48kHz	max 320Kbps

USB supported image formats

Spec of AV codec , Photo		
Format	Maximum resolution	Minimum resolution
png	8K*8K (hard solution)	4*4
jpeg	baseline 8K*8K, (hard solution) progressive 4K*4K	4*4
bmp	8K*8K	4*4

Notes

1. If the content or package or encoding does not meet the standards, it is possible that the video content cannot be played normally. Those caused that the specific parameters of some video sources go beyond the decoding scope are not failures of this machine.
2. Dynamic GIF photos are not supported.
3. Please back up the files in case of files being damaged or data loss before connecting the device to the monitor. The company does not accept responsibility for any unsupported USB storage device, and meanwhile, is not responsible for the data damage or loss in this device.
4. High power USB devices may be not supported. (above 0.5 A)
5. When connecting or using a USB device, it may be unable to recognize this device or the device may be out of order if a power overload warning message is present.

Network types

You can choose network setting types.

1. Press , select [Connection] > [Wired].
2. Press the  application menu > [Connect to network] in the [Smart Monitor] mode.
 - ↳ To get the MAC address, please press the  application menu > [View network status] item in the Smart Monitor mode.

Wired installation

You need to install a router in the computer network to connect the monitor to the computer network and the Internet. Use the network cable (Ethernet cable) to connect the router to the monitor.

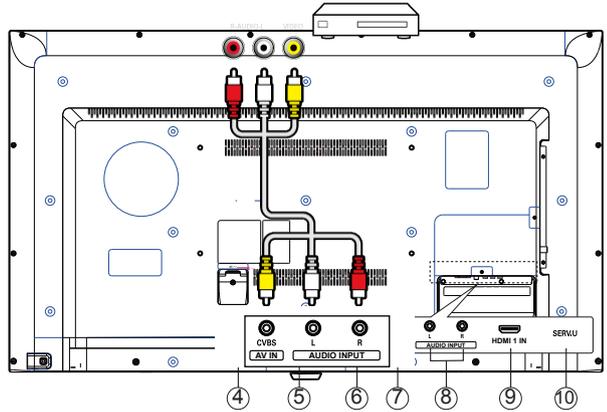
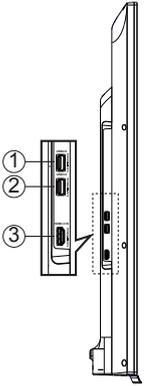
Connect the router to the network interface at the bottom of the monitor by using a network cable and turn on the router before starting network installation.

Wired Network Settings - Automatic Search

1. Press .
2. Select [Connection] > [Wired] > [Connect to network] > [Wired].
3. Select [DHCP] and then presses OK.
 - ↳ Network protocol will be automatically set.

Wired Network Settings - Manual Input

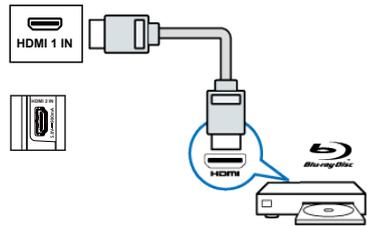
1. Press .
2. Select [Connection] > [Wired] > [Connect to network] > [Wired].
3. Select [Static IP] and then press OK.
4. Press  to locate the cursor on the input box.
5. Press OK once again.
 - ↳ Screen keyboard display.
6. Use the screen keyboard to enter [IP address], [Subnet mask], [Gateway] and [DNS1].
7. After finishing entering, select [Confirm] and then press OK.



Connect HDMI

HDMI1 / HDMI 2

- Digital audio and video input in high-definition digital devices such as Blu-ray players, NVRs and HDDs.



Wire connection

1	USB 2.0 signal input
2	USB 3.0 signal input
3	HDMI2 signal input
4	Network terminal
5	D-SUB signal input
6	SPDIF OUT
7	Power input
8	Audio input
9	HDMI1 signal input
10	Service terminal

Connect the composite terminal

AV input (video audio left/right)

- Video: composite video input in analog devices such as VCR.
- Audio: audio inputs in analog devices connected to the Video.

Notes

Supported resolution:

- HDMI1:FHD,UHD
- HDMI2:FHD,UHD

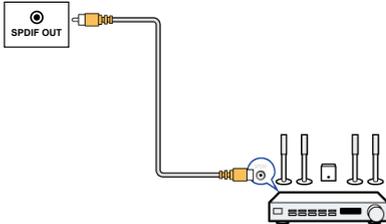
Supported functions:

- HDMI1: ARC
- HDMI2

Connect SPDIF

SPDIF output

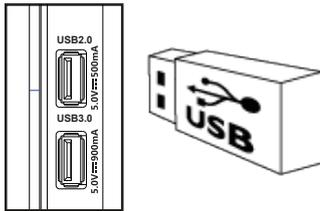
- SPDIF output: digital audio outputs to Home theatre and other digital audio systems.



Connect USB

USB 2.0 / USB 3.0

- Data inputs in USB storage devices.



Connect computer

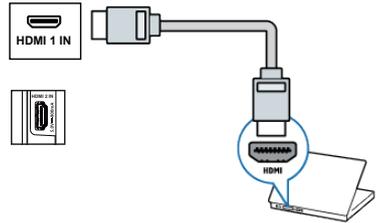
Before connecting a computer to the monitor

- Set the screen refresh rate of the computer to 60Hz.
- Select a supported screen resolution on the computer.

Connect the computer through one of the following interfaces:

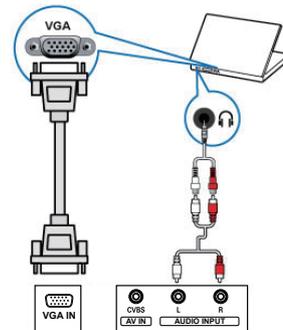
Notes:

- An additional audio cable is needed for connection via VGA.
- HDMI line



Notes:

- HDMI 1 supports HDMI 2.0, and HDMI 2 supports HDMI 1.4.
- VGA cable and audio
- Audio and Video input in the computer.
- Notes: please plug the cable in the VGA interface of this machine after aligning them.



Power supply/receive / transmit / remote control

Power Supply

- Main power supply: 100~240V, 50/60Hz
- Standby energy consumption:

≤ 0.5 W

- Ambient temperature: 5 to 40 degrees Celsius
- Power consumption: 170W

Remote control

- Battery: 2 x AAA

Supported input signal formats

Product information may change at any time without notice.

Computer formats

- Resolution-refresh rate:
 - 640 x 480 - 60Hz
 - 800 x 600 - 60Hz
 - 1024 x 768 - 60Hz
 - 1280 x 1024 - 60Hz
 - 1920 x 1080 - 60Hz

Video format

- Resolution-refresh rate:
 - 480i - 60Hz
 - 480p - 60Hz
 - 576i - 50Hz
 - 576p - 50Hz
 - 720p - 50Hz, 60Hz
 - 1080i - 50Hz, 60Hz
 - 1080p - 24Hz, 25Hz, 30Hz, 50Hz, 60Hz.
 - 4Kx2K - 30Hz

Notes

When a resolution and a refresh rate are not supported by the monitor, there will be black screen or blurred screen. Please switch to the resolution and the refresh rate that the monitor can display.

Multimedia

- Supported storage devices: USB (Support FAT 32 / FAT 16 USB storage devices.)

Technical support

General monitor problems

The monitor is unable to boot:

- Unplug the power line plug from the power outlet. Reconnect in a minute.
- Check that the power line is securely connected.

The operation of the remote controller is not normal:

- Check whether the positive and negative poles of the battery of the remote control are installed correctly.
- If the remote control battery runs out or leaks, please replace it.
- Clean the remote control and the lens of the monitor.

The monitor's standby light flickers red:

- Unplug the power line plug from the power outlet. Wait until the monitor cools down and reconnect the cable. If it still flickers, please contact the customer service center.

Monitor menu display language error:

- Change the language of the monitor menu to your desired language.

When the monitor is turned on or off to the standby status, the squeaking sound is heard in the monitor box:

- There is no need to perform

any operation. Squeaks are normal sounds that normally stretch when the monitor cools and warm. This doesn't affect performance.

Picture problems

The monitor is turned on, but there is no picture:

- Check whether the antenna is properly connected to the monitor.
- Check whether the correct device is selected as the monitor signal source.

The sound can be heard but no picture appears:

- Check if the picture is set correctly.

The picture doesn't fit the screen, too big or too small:

- Try to use different picture formats.

Incorrect picture position:

- The picture signals in some devices may not be able to properly fit the screen. Please check the signal output of this device.

Sound problems

There are pictures, but the sound quality is poor:

Notes:

If the audio signal is not detected, the monitor will automatically turn off the audio output - this does not indicate fault.

- Check whether all cables are connected correctly.
- Check whether the volume is set to 0.
- Check whether the sound is muted.

There are pictures, but the sound quality is poor:

- Check whether the sound settings are correct.

There are pictures, but only one speaker works:

- Check whether the sound balance is set to the middle.

Connection problems

HDMI connection problems

There is a problem with the HDMI device:

- Note that HDCP (high bandwidth digital content protection) support may delay the time for the monitor to display the contents in the HDMI device.
- If the monitor does not recognize the HDMI device and does not display the picture, please try to switch the signal source from one device to the other and switch back again.
- If the sound is intermittent, please check the output of HDMI equip-

ment is set up correctly.

Computer connection problems

The computer on the monitor displays unstably:

- Check whether your PC uses the supported resolution and refresh rate.
- Set the monitor picture format to Uncompressed.

Warning

Please do not try to maintain the monitor by yourself. This can cause serious personal injury, irreparable damage to the monitor, or make the warranty invalid.

Notes:

Before you contact the customer service center, please record the model and the serial number of the monitor. These numbers are printed on the rear shell and the package of the monitor.

Appendix

Product specifications

Panel	Resolution		3840 x 2160 dots (UHD)
	Refresh rate		60HZ
	Display Colors		8 Bit+FRC (16.7M)
	Brightness		300 nits (typ)
	Contrast		4000:1 (typ)
	Response time		8ms(typ)
	Viewing angle		R/L 178 (Min.), U/D 178 (Min.)@ CR > 20,
	Color gamut		68% (typ)
	Haze		2%
	Placement (Wall mounting/ Base)		Landscape
Environment	Temperature		5 - 40degC
	Hu- midity	Operat- ing hu- midity	20 - 80% (without condensation)
		Storage tempera- ture	-20 - 60degC
	Altitude		<3000M
Installation	Placement (wall mounting)	Wall mounting	
	Placement di- rection (Landscape/ Portrait/Hori- zontal)	Landscape	
Data transfer terminal	WIFI		NO
	BT		NO
	LAN		10/100Mbps RJ45*1
	USB		USB 2.0*1/USB3.0*1

Audio/video signal Terminal	INPUT	VGA *1/HDMI*2/AV*1
	Output	SPDIF (RCA)
	Remote control method	IR
Speaker	Built-in speaker Output power	8W x2
	External speaker Output power	NO
	Sound effect	Stereo
Power input		100 - 240V/50Hz
Output power (MAX)		113(TYP)/170W (Max)
Power consumption	Standby power consumption (standby)	<0.5W
	Shutdown power consumption (shutdown)	<0.5W
Safety Agency	CE, FCC, CCC	
Weight(Net.)		12.84 KG
Dimension (WXHXD)		1123.6mmX648.3mmX82mm
Wall mounting size		400mm*200mm

*Design and specifications may change without notice.

Supported monitor mounting bracket

To install the monitor, please buy a monitor mounting bracket.

1. Please lock the bracket on the back of the monitor.
2. To avoid damaging the cable and the socket, please make sure that a gap of at least 2.2 inches or 5.5 centimeters is remained between the back of the monitor with the bracket locked thereon (including the speaker bracket (including the speaker protrusion) and the wall.

Warnings

Please operate according to all the instructions provided with the monitor mounting bracket.

Monitor Screen Size (Inch)	Required Dot Spacing (mm)	Required mounting screws
50	400 x200	4*M6(it is recommended that the effective thread length of the screw is 16MM (not including the spacer), and the maximum thread length is 18MM (not including the spacer).

Repair and maintenance service

Dear user:

Thank you for choosing this product. To fully enjoy comprehensive after-sales services, please read the repair card of this product attentively after purchase and keep it properly.

1. Use this card to use the free repair and maintenance and the discount service after the warranty expires.
2. Users can replace the product for free seven days after purchase for any quality issue. The warranty lasts one years.
3. Users are informed of new products or promotions in advance.
4. The following causes of product defect are not covered in the warranty :
 - Users are unable to show effective warranty certificates or valid invoices or receipts.
 - Users use the product in inappropriate environments or under improper conditions, such as product defects caused by improper power supplies, ambient temperature, humidity, and thunderstruck. - Products break down due to accidents, negligence, disasters, improper or accidental operation, network attack, etc.
 - Products are out of order or broken due to installation, repair, modification or disassembly conducted by repair personnel not from the authorized institutions of the Company.
 - The warranty of the product ends.
5. Users can file complaints to the customer support service center of the manufacturer for any objection against the technical service offered by the distributor.
6. The warranty card is only valid if stamped by the warranty department.

User name: _____ Address: _____

Tel.: _____ Fax.: _____ Postal code: _____ E-mail: _____

Model: _____ Product no. (S/N): _____

Production date (dd/mm/yy): _____ Purchase date (dd/mm/yy): _____

Write down any other needs, if any:

Distributor: _____ Tel.: _____

Distribution unit: (Stamp)

