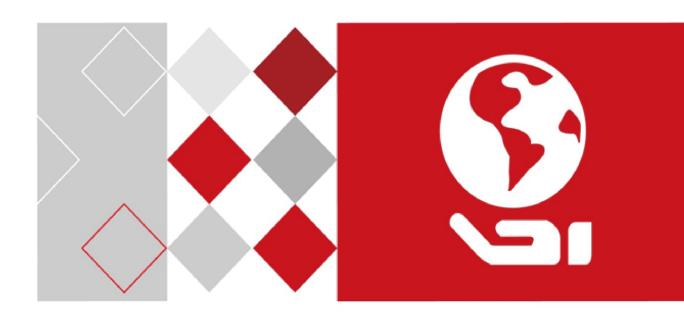
HIKVISION



LCD Monitor

User Manual

LCD Monitor User Manual

User Manual

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About this Manual

This Manual is applicable to the Monitor.

The Manual includes instructions for using and managing the product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version in the company website (http://overseas.hikvision.com/en/).

Please use this user manual under the guidance of professionals.

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Regulatory Information

FCC Information

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC compliance: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

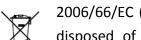
- 1. This device may not cause harmful interference.
- 2. This device must accept any interference received, including interference that may cause undesired operation.

EU Conformity Statement

This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the EMC Directive 2014/30/EU, the LVD Directive 2014/35/EU, the RoHS Directive 2011/65/EU.



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated

Industry Canada ICES-003 Compliance

This device meets the CAN ICES-3 (A)/NMB-3(A) standards requirements.

collection point. For more information see: www.recyclethis.info

LCD Monitor User Manual

Applicable Models

This manual is applicable to the model: $LCD\ Monitor.$

Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description
NOTE	Provides additional information to emphasize or supplement important points of the main text.
WARNING	Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
DANGER	Indicates a hazard with a high level of risk, which if not avoided, will result in death or serious injury.

LCD Monitor User Manual

Safety Instructions

- Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.
- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region. Please refer to technical specifications for detailed information.
- Input voltage should meet both the SELV (Safety Extra Low Voltage) and the Limited Power Source with 100~240 VAC, 24 VDC or 12 VDC according to the IEC60950-1 standard. Please refer to technical specifications for detailed information.
- Do not connect several devices to one power adapter as adapter overload may cause over-heating or a fire hazard.
- Please make sure that the plug is firmly connected to the power socket.
- If smoke, odor or noise rise from the device, turn off the power at once and unplug the power cable, and then please contact the service center.

Preventive and Cautionary Tips

Before connecting and operating your device, please be advised of the following tips:

- Ensure unit is installed in a well-ventilated, dust-free environment.
- Unit is designed for indoor use only.
- Keep all liquids away from the device.
- Ensure environmental conditions meet factory specifications.
- Ensure unit is properly secured to a rack or shelf. Major shocks or jolts to the unit as a result of dropping it may cause damage to the sensitive electronics within the unit.
- Use the device in conjunction with an UPS if possible.
- Power down the unit before connecting and disconnecting accessories and peripherals.
- Improper use or replacement of the battery may result in hazard of explosion.
 Replace with the same or equivalent type only. Dispose of used batteries according to the instructions provided by the battery manufacturer.

TABLE OF CONTENTS

Chapter 1 Overview	6
1.1 Overview	6
1.2 Key Features	
Chapter 2 Operation and Maintenance Precautions	
2.1 Operation Precautions	
2.2 Use of Power Cable	
2.3 Cleaning and Maintenance	
Chapter 3 Connections and Installation	
3.1 Precautions for Installation	
3.2 Interfaces	
3.3 Panel Buttons	
3.4 Power Supply Connections	
3.6 Mounting	
Wall Mounting	
· ·	
Mobile Mounting	12
3.7 Remote Controller	13
Chapter 4 System Configuration	
4.1 Input Source Selection	
4.2 Image Settings	
4.2.1 Configuring Image Mode	14
4.2.2 Configuring VGA Parameters	15
4.2.3 Aspect Settings	16
4.2.4 Overscan Settings	17
4.3 System Settings	17
4.3.1 Configuring OSD Settings	17
4.3.2 Configuring Screen Display	18
4.3.3 Configuring Backlight Settings	19
4.3.4 Configuring Fan Monitoring	19
4.3.5 Configuring Alarm Mode	20
4.4 System Maintenance	20
4.4.1 Upgrading the Device	
4.4.2 Restoring the Defaults	21
4.4.3 Enabling/Disabling Lock Keypad	21
4.4.4 Checking System Information	21
4.5 Playing External Files	າາ
Appendix A: Specifications	

Chapter 1 Overview

1.1 Overview

The LCD monitor is a reliable surveillance display with LED backlit technology, excellent color reduction and image processing, and true display of video details. Multiple interfaces are provided to meet various surveillance environments. The monitor is an ideal choice for security and surveillance application.

1.2 Key Features

- LED backlit technology with full HD 1920 × 1080
- Wide view angle: 178° (H) / 178° (V)
- Image processing: 3D comb filter, 3D De-interlace, 3D noise reduction
- Various signal inputs support: HDMI, VGA, IP, and USB
- Built-in camera design with IP video input
- Auto input signal source switch
- IR remote control
- Standby during no signal input
- Eco power saving mode
- Dual power supply: 24 VDC or 100 to 240 VAC
- High reliable components for 7 × 24 working hours
- VESA stand bracket

Chapter 2 Operation and Maintenance Precautions

2.1 Operation Precautions

The LCD panel on the device is made by high-precision technology. However, tiny spots on the screen that are always or never lit may be observed, or when observed from side, the color may and brightness may appear to be uneven. Yet the above phenomena are common among LCD displays rather than faults and will not affect the performance of the device.

- The device and its accessories are subject to change without prior notice.
- The fragile materials of the display are vulnerable to falling and impact. Please hold with care.
- Improper operations during debugging and operating may cause damage to the device.
- Scratching or knocking the device with hard objects is strictly forbidden. Do not frequently turn on/off the power of the device when operating to avoid the risk of damage and faults.
- If smoke, odor or noise rise from the device, turn off the power at once and unplug the power cable, and then please contact the service center.
- When installing, clean the surface and rear of the display to ensure the performance.
- Do not fix the device too tight, otherwise the display may be bent.
- Our company is not responsible for any fault caused by third-party when operating the device and other failure or damage incurred.
- Do not operate the device in an environment of dust, high humidity, or oil and steam contacting to avoid the risk of fire and damage.
- Do not place the device on unstable or unsafe surface. Avoid strong impact, vibration or vibration.
- Do not operate the device near heating device or place of high temperature to avoid the risk of fire.
- Ensure the accessories are complete before installing the device. Otherwise contact your dealer.

2.2 Use of Power Cable

- If the power cable is damaged or failed, contact service center. Make sure the power supply is properly grounded and matches the requirements specified by the plate on the shell.
- Do not expose the device to rain or humid environment. Disconnect power plug and antenna in thunderstorm weather.
- If the device will not be used for a long time. Shut down the power of the device and disconnect the power supply.

LCD Monitor User Manual

- Electric discharge may last for a short period of time after the power is shut down. Please wait for two minutes after the power shut down to operate the device.
- Only use the original power cable delivered with the device. Contact authorized dealer to purchase power cable with same specifications.

2.3 Cleaning and Maintenance

- The hole on the rear shell is for heat dissipation. Do not pour or spray liquid to the rear shell or use wet cloth for cleaning.
- Disconnect the power plug before cleaning.
- Use a dry, soft and dust-free cloth to clean the device.
- Contact service center for internal cleaning.
- Proper maintenance can avoid certain early-stage failures.
- Clean the device on a regular basis to make the device look new.

Chapter 3 Connections and Installation

3.1 Precautions for Installation

- Install the device near an available AC power socket for easy power connection.
- For safety, only use the wall mount or base that is suitable for the device.
- Place the device on a stable surface or fix the device steadily on the wall.
- Contact professional staff for wall mounting.
- Do not place the device near mechanical vibration source.
- Do not place the device in an environment where insects have easy access.
- Do not let the device face the air conditioner directly to avoid condensing.
- Do not place the device in strong electromagnetic field to avoid radio interference.

3.2 Interfaces

Refer to the following figure and table for the interfaces on the panel:

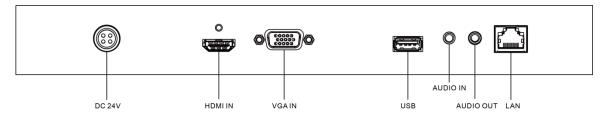


Figure 3-1 Rear Panel

Table 3-1 Description of Rear Panel

Interface	Description	
DC 24V	24 VDC power input	
HDMI IN	HDMI digital signal input	
VGA IN	Analog VGA input	
USB	USB interface	
AUDIO IN	Audio input	
AUDIO OUT	Audio output	
LAN	RJ45 10M/100M bps self-adaptive Ethernet interface, for IP camera connection	

3.3 Panel Buttons

Refer to the following figure and table for the description of the buttons on the lower right corner of the monitor.

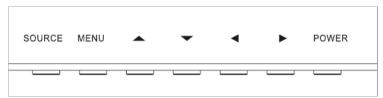


Figure 3-2 Buttons on Panel

Table 3-2 Description of Buttons

Button	Description
SOURCE	Enter source menu
MENU	Enter main menu
UP/DOWN	Move the cursor up/down
LEFT/RIGHT	Move the cursor left/right
POWER	Short press to confirm operation; long press to start or shut down

3.4 Power Supply Connections

The device provides two power supply connectors: 100 to 240 VAC, and 24 VDC.

Insert the 3-pin power plug into well-grounded power socket of the 100 to 240 VAC connector, or insert a 4-pin power plug (with adapter) to the 24 VDC power connector.

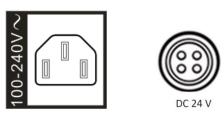


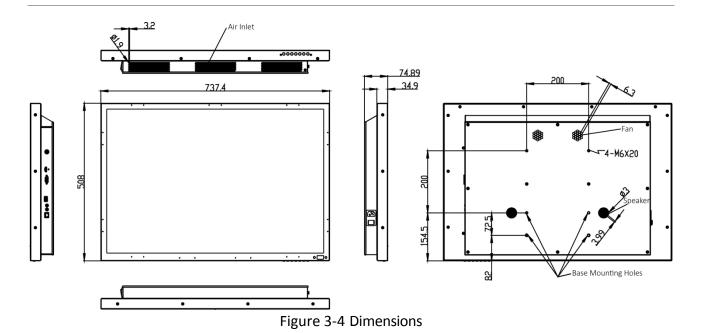
Figure 3-3 Power Supply



Disconnect the power of the monitor if it will not be used for a long time.

3.5 Dimensions (unit: mm)

Refer to the following figure for the dimensions of the monitor:



3.6 Mounting

Wall Mounting

The device can be installed using wall mount or mobile mount, as shown below.

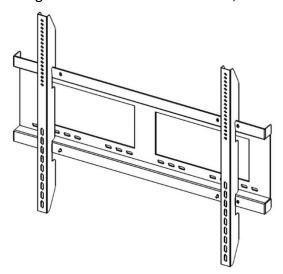


Figure 3-5 Wall Mount Front View

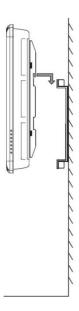


Figure 3-6 Wall Mount Side View



The wall mount is mobile horizontally. Please leave enough room at side for maintenance service.

Mobile Mounting

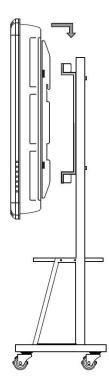


Figure 3-7 Mobile Mount

3.7 Remote Controller

Refer to the following figure and table for the remote controller descriptions.



Figure 3-8 Remote Control

Table 3-3 Button Description

Key	Function		
O	On/Off switch, turn on/off the monitor		
OK.	Mute key, for turning off the sound of the monitor		
MENU	Enter main menu		
FREEZE	Freeze the image		
SOURCE	Input source selection menu		
Direction Keys	Up/down/left/right direction keys: use to select the menu, items or parameters.		
ОК	Confirm		
I	Play/Pause		
	Stop		
I	Previous		
•••	Next		
	Repeat		
	Return		

Chapter 4 System Configuration

4.1 Input Source Selection

Turn on the display unit when the power supply is on and input source is confirmed.

Step 1 Press **SOURCE** on the remote controller to enter the menu as shown below. The LCD display unit includes 4 input sources as Auto, HDMI, VGA, IP and USB signal.

Auto: The input signal source can be automatically detected by the device and switched to the connected signal source on the screen.

IP: Switch to the IP signal of the built-in camera.

Step 2 Press direction keys to select the input source.



Figure 4-1 Input Source

Step 3 Press OK.

4.2 Image Settings

4.2.1 Configuring Image Mode

You can adjust the image parameters by switching image modes and adjust the values of contrast, brightness, color, sharpness and hue.

Step 1 On the main menu, press the directional keys on the remote control to select the **Image**Mode.

Step 2 Press **OK** to enter the image mode settings interface.

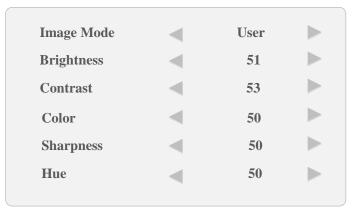


Figure 4-2 Image Mode

- Step 3 Press ◀ or ▶ to switch it to **Standard/Gentle/Dynamic/User** mode. Different parameters of contrast, brightness, color, hue and sharpness are provided for different image modes.
- Step 4 (Optional) When you select the **User** mode, press ◀ or ▶ to set the brightness and contrast values from 0 to 100.
- Step 5 Press **MENU** again to complete the settings and back to the main menu interface.

4.2.2 Configuring VGA Parameters

For VGA input source, you can adjust the VGA parameters, including adjusting VGA H position, V Position, clock and phase.



The VGA parameter settings are valid only for the VGA input source.

Auto Adjust

- Step 1 On the main menu, press the directional keys on the remote control to select the **VGA**Parameter.
- Step 2 Press **OK** to enter the VGA parameters settings interface.
- Step 3 Select the **Adjust Lock** to **Off,** and the device can automatically adjust the parameters according to signal source.

Manual Adjust

- Step 1 On the main menu, press the directional keys on the remote control to select the **VGA**Parameter.
- Step 2 Press **OK** to enter the VGA parameters settings interface.
- Step 3 Press ◀ or ▶ to adjust the values of the Row, Column, Clock and Phase from 0 to 100.

NOTE

When the device is restarted or the signal input is changed, the VGA parameters cannot be automatically adjusted.

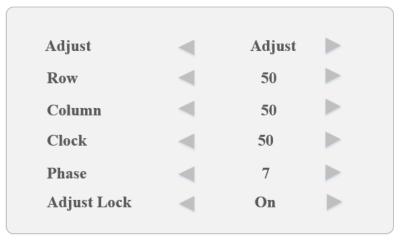


Figure 4-3 VGA Parameters

Step 4 Press **MENU** again to complete the settings and back to the main menu interface.

4.2.3 Aspect Settings

The aspect ratio refers to the proportions of the height and width of an image.

Step 1 On the main menu, press the directional keys on the remote control to select the Aspect.

Step 2 Press **OK** to enter the Aspect settings interface.

Step 3 Press ◀ or ▶ to set the aspect ratio to 16:9, 4:3, P-to-P.



Figure 4-4 Aspect Settings

Step 4 Press **MENU** again to complete the settings and back to the main menu interface.

4.2.4 Overscan Settings

Overscan is the situation in which not all of an image is present on a viewing screen. You can shield the borders for better image quality adjust the overscan value of up/down/left/right.

- Step 1 On the main menu, press the directional keys on the remote control to select **Overscan**.
- Step 2 Press **OK** to enter the overscan settings interface.
- Step 3 Press \triangleleft or \triangleright to switch the overscan to On/Off.
- Step 4 When the overscan is selected to On, you can set values of the left edge, right edge, top edge and bottom edge from 0 to 100. The value of overscan is the pixel value of certain edge.



Figure 4-5 Overscan Settings

Step 5 Press **MENU** again to complete the settings and back to the main menu interface.

4.3 System Settings

4.3.1 Configuring OSD Settings

You can set the language and OSD duration on the menu.

- Step 1 On the main menu, press the directional keys on the remote control to select OSD Settings.
- Step 2 Configure the language, OSD duration and OSD blending parameters.

Language: press ◀ or ▶ to switch the language between Chinese and English.

OSD Blending: refers to the OSD transparency. Press ◀ or ▶ to adjust the blending value to: High/Middle/Low/Off.

OSD Duration: sets the OSD duration on the screen. Press ◀ or ▶ to adjust the OSD duration to: Always On/5Sec/15Sec/30Sec.



Figure 4-6 OSD Settings

Step 3 Press MENU again to complete the settings and back to the main menu interface.

4.3.2 Configuring Screen Display

You can configure lighting modes to adopt different surrounding lighting conditions, the screen saver mode when the monitor has no signal input, and the low energy mode.

- Step 1 On the main menu, press the directional keys on the remote control to select the **Others**Setting.
- Step 2 Press **OK** to enter the other settings interface.
- Step 3 Press ◀ or ▶ to set the low energy, lighting and screen saver mode.

Lighting: Set the lighting parameters to adopt different surrounding lighting conditions. **Normal** mode, **Daylight1/Daylight2/Daylight3** (for daylight conditions) and **Night1/Night2/Night3** (for night light conditions) are configured.



The level 3 is more suitable for a surrounding lighting condition with higher backlight compensation requirement.

No Signal: Set the screen saver mode to Blue or Black when there is no signal input.

Low Energy: Turn on/off the low energy mode. Enabling the low energy mode will reduce the screen brightness to save the power of the device.



Figure 4-7 Screensaver Mode

Step 4 Press Menu again to complete the settings and back to the main menu interface.

4.3.3 Configuring Backlight Settings

You can set backlight and auto sleep mode.

Step 1 Press ◀ or ▶ to set the backlight, and adjust the value ranging from 0 to 100.

Step 2 Select **Auto Sleep** and press ◀ or ▶ to set it to **On** or **Off** when the monitor has no signal input.



Figure 4-8 Backlight Settings

Step 3 Press **MENU** again to complete the settings and back to the main menu interface.

4.3.4 Configuring Fan Monitoring

You can enable the fan temperature control of the device.

Step 1 Select Fan Setting and press OK.

Step 2 Press ◀or ▶ to set the fan mode to **On** or **Auto**.

On: always turns on the fan.

Auto: automatically turns on the fan when the device reaches the defined temperature (refer to step 3).

Step 3 In the auto fan mode, set the temperature for automatically starting the fan.

Step 4 Press MENU again to complete the settings and back to the main menu interface.

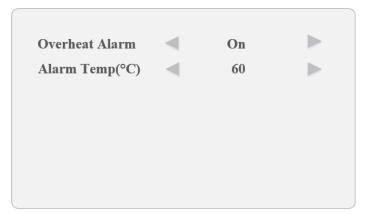


Figure 4-9 Temperature Monitor

4.3.5 Configuring Alarm Mode

You can set the overheat alarm prompt on the screen and once the board temperature is too high.

Step 1 Select Alarm Mode and press OK.

Step 2 Press ◀or ▶ to set the **Overheat Alarm** mode to **On**.

Step 3 Set the temperature for triggering the alarm prompt on the screen.

Step 4 Press **MENU** again to complete the settings and back to the main menu interface.

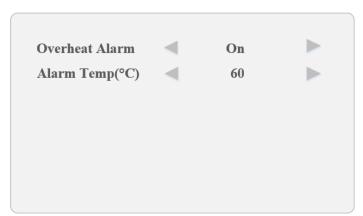


Figure 4-10 System Information

4.4 System Maintenance

4.4.1 Upgrading the Device

Before you start

Insert the USB flash drive with the update file to the device before you upgrade the device.

- Step 1 On the main menu, press the directional keys on the remote control to select the **Maintenance**.
- Step 2 Press **OK** to enter the maintenance settings interface.
- Step 3 Press Maintenance key to enter the Maintenance interface.

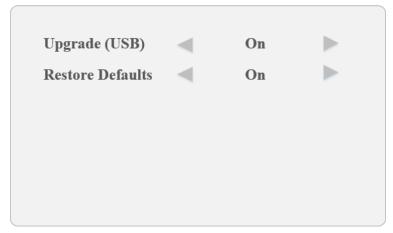


Figure 4-11 System Maintenance

Step 4 Select **Upgrade (USB)** and press ▶ to enter the pop-up dialog box.

Step 5 Press the ◀ to continue the upgrading.

The system will reboot when the upgrading completes.

4.4.2 Restoring the Defaults

All parameters of the device can be restored to the user defaults settings.

Step 1 On the **Maintenance** interface, select **Restore Defaults** and press ▶ to enter the pop-up dialog box.

Step 2 Press the ◀ to continue to restore the defaults.

4.4.3 Enabling/Disabling Lock Keypad

You can enable the lock for the control panel buttons of the monitor to avoid misoperation.

Step 1 On the main menu, press the directional keys on the remote control to select the **Lock Keypad**.

Step 2 Press ◀ or ▶ to set the Lock Keypad to On or Off.

When the Lock Keypad is turned on, the control panel buttons operation is invalid.

4.4.4 Checking System Information

Step 1 Press System Info to enter the system information interface.

Step 2 Check the current software version information, working hours, current temperature, device ID and fan status.

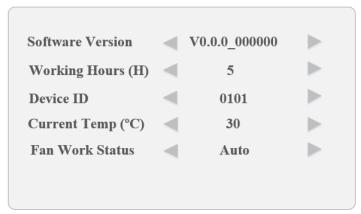


Figure 4-12 System Information

4.5 Playing External Files

You can play the external files on the monitor, including the photo, movies, music or txt files, etc.

Before you start

Insert the USB flash driver with the external files to the device before operating the following steps.

- Step 1 Press the **SOURCE** of the remote controller.
- Step 2 Select USB of Input Source menu to enter the interface.
- Step 3 Press ◀ or ▶ to play the photo, movies, music or txt files.
- Step 4 Enter the menu to select identified USB flash drive and press **OK** to accomplish it.

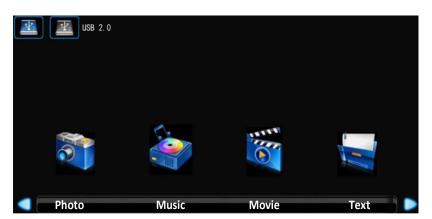


Figure 4-13 USB Menu

Step 5 You can use the toolbar at the bottom of the playing window to realize different functions. Refer to the following table.

LCD Monitor User Manual

Table 4-1 Toolbar Buttons

145.6 . 2 . 50.154. 24.05.15			
Icons	Description	Icons	Description
"	Pause	★	Previous/Next
	Stop	ن	Repeat All
=	Playlist	0	Information
0	Resume	Ö	Aspect
•	Stereo		

Appendix A: Specifications

Model		DS-D5032FL-C		
	Backlight	LED Backlight		
	Dimension	31.5 inch		
	Dot pitch	0.3637 mm × 0.3637 mm		
	Max. resolution	1920 × 1080p		
	Optimal working resolution	1920 × 1080@60Hz		
LCD Screen	Brightness	400 cd/m ²		
	Contrast	3000: 1		
	Response time	6.5 ms		
	Color	16.7M		
	Active Area	698.4 × 392.85 mm		
	Viewing Angle	Horizantal 178°, vertical 178°		
	HDMI input	1		
	VGA Input	1		
	LAN Interface	1, for IP camera connection		
Interfaces	USB 2.0 Interface	1		
	Audio input	1		
	Audio output	1		
	IR Receiver	1 (for remot control)		
	Casing Material	Metal		
	Color of Casing	Black		
	Wall-mounting Hole	200 × 200 mm		
	Wall-mounting Screw	M4		
	Power Supply	24 VDC; 100 to 240 VAC, 50/60Hz		
	Power Consumption	≤ 65 W		
	Standby Power Consumption	≤ 0.5 W		
General	Working Temperature	0 to 40 °C (0 to 104 °F)		
General	Working Humidity	10 to 90 %		
	Storage Temperature	-20 to 60 °C (-68 to 140 °F)		
	Storage Humidity	10 to 90%		
	Dimensions (without base)	737.4 × 508 × 74.9 mm (29" × 20" × 2.9")		
	Packing Dimensions	888 × 210 × 680 mm (35.0" × 8.3" × 26.8")		
	Gross Weight	22 kg (48.5 lb)		
	Net Weight	18 kg (39.7 lb)		



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