LCD Display

Quick Start Guide

Legal Information

About this Document

- This Document 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 Document is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version of the Document at the Hikvision website (***https://www.hikvision.com***). Unless otherwise agreed, Hangzhou Hikvision Digital Technology Co., Ltd. or its affiliates (hereinafter referred to as "Hikvision") makes no warranties, express or implied.
- Please use the Document with the guidance and assistance of professionals trained in supporting the Product.

About this Product

This product can only enjoy the after-sales service support in the country or region where the purchase is made.

Acknowledgment of Intellectual Property Rights

- Hikvision owns the copyrights and/or patents related to the technology embodied in the Products described in this Document, which may include licenses obtained from third parties.
- Any part of the Document, including text, pictures, graphics, etc., belongs to Hikvision. No part of this Document may be excerpted, copied, translated, or modified in whole or in part by any means without written permission.
- **HIKVISION** and other Hikvision's trademarks and logos are the properties of Hikvision in various jurisdictions.
- Other trademarks and logos mentioned are the properties of their respective owners.
- HDMI™ HIGH-DEFINITION MULTIMEDIA INTERFACE The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI Trade dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

LEGAL DISCLAIMER

- TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THIS DOCUMENT AND THE PRODUCT DESCRIBED, WITH ITS HARDWARE, SOFTWARE AND FIRMWARE, ARE PROVIDED "AS IS" AND "WITH ALL FAULTS AND ERRORS". HIKVISION MAKES NO WARRANTIES, EXPRESS OR

IMPLIED, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY, SATISFACTORY QUALITY, OR FITNESS FOR A PARTICULAR PURPOSE. THE USE OF THE PRODUCT BY YOU IS AT YOUR OWN RISK. IN NO EVENT WILL HIKVISION BE LIABLE TO YOU FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, OR INDIRECT DAMAGES, INCLUDING, AMONG OTHERS, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, OR LOSS OF DATA, CORRUPTION OF SYSTEMS, OR LOSS OF DOCUMENTATION, WHETHER BASED ON BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), PRODUCT LIABILITY, OR OTHERWISE, IN CONNECTION WITH THE USE OF THE PRODUCT, EVEN IF HIKVISION HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR LOSS.

- YOU ACKNOWLEDGE THAT THE NATURE OF THE INTERNET PROVIDES FOR INHERENT SECURITY RISKS, AND HIKVISION SHALL NOT TAKE ANY RESPONSIBILITIES FOR ABNORMAL OPERATION, PRIVACY LEAKAGE OR OTHER DAMAGES RESULTING FROM CYBER-ATTACK, HACKER ATTACK, VIRUS INFECTION, OR OTHER INTERNET SECURITY RISKS; HOWEVER, HIKVISION WILL PROVIDE TIMELY TECHNICAL SUPPORT IF REQUIRED.
- YOU AGREE TO USE THIS PRODUCT IN COMPLIANCE WITH ALL APPLICABLE LAWS, AND YOU ARE SOLELY RESPONSIBLE FOR ENSURING THAT YOUR USE CONFORMS TO THE APPLICABLE LAW. ESPECIALLY, YOU ARE RESPONSIBLE, FOR USING THIS PRODUCT IN A MANNER THAT DOES NOT INFRINGE ON THE RIGHTS OF THIRD PARTIES, INCLUDING WITHOUT LIMITATION, RIGHTS OF PUBLICITY, INTELLECTUAL PROPERTY RIGHTS, OR DATA PROTECTION AND OTHER PRIVACY RIGHTS. YOU SHALL NOT USE THIS PRODUCT FOR ANY PROHIBITED END-USES, INCLUDING THE DEVELOPMENT OR PRODUCTION OF WEAPONS OF MASS DESTRUCTION, THE DEVELOPMENT OR PRODUCTION OF CHEMICAL OR BIOLOGICAL WEAPONS, ANY ACTIVITIES IN THE CONTEXT RELATED TO ANY NUCLEAR EXPLOSIVE OR UNSAFE NUCLEAR FUEL-CYCLE, OR IN SUPPORT OF HUMAN RIGHTS ABUSES.
- IN THE EVENT OF ANY CONFLICTS BETWEEN THIS DOCUMENT AND THE APPLICABLE LAW, THE LATTER PREVAILS.

© Hangzhou Hikvision Digital Technology Co., Ltd. All rights reserved.

Preface

Applicable Models

This manual is applicable to the LCD display. It provides more details of the LCD display control, installation, and connection than the other one included in the package.

Symbol Conventions

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

Symbol	Description
Danger	Indicates a hazardous situation which, if not avoided, will or could result in death or serious injury.
Caution	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
Note	Provides additional information to emphasize or supplement important points of the main text.

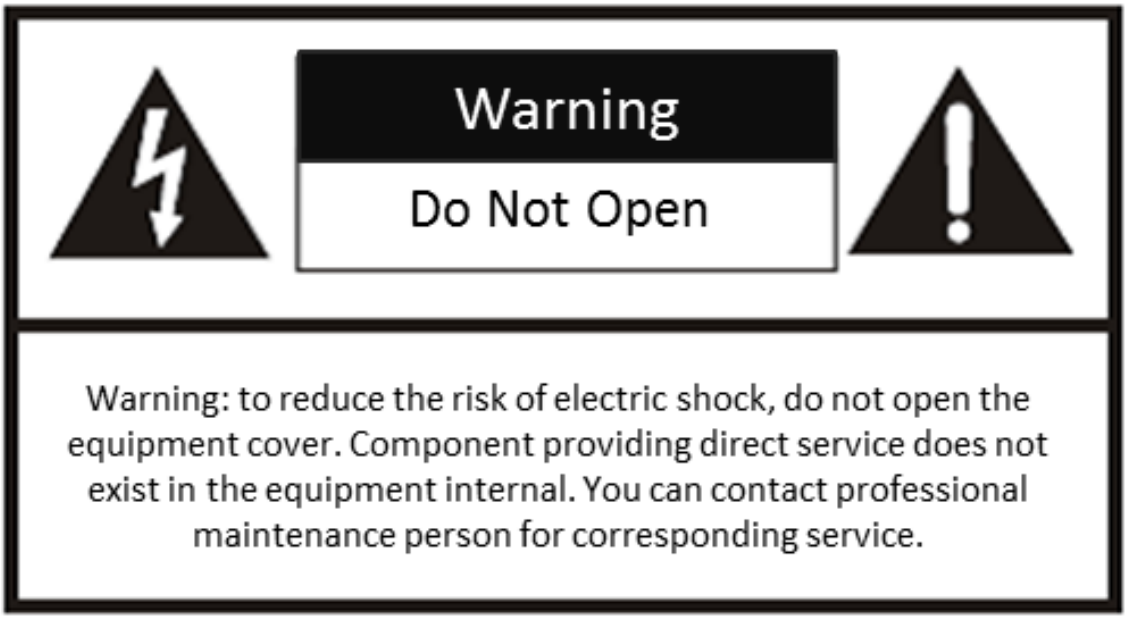
Safety Instructions

Warning

- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region.
- CAUTION: To reduce the risk of fire, replace only with the same type and rating of fuse.
- The equipment must be connected to an earthed mains socket-outlet.
- An all-pole mains switch shall be incorporated in the electrical installation of the building.
- CAUTION: This equipment is for use only with specified brackets. Use with other (carts, stands, or carriers) may result in instability causing injury.
- This device is not suitable for use in locations where children are likely to be present.
- Do not ingest battery. Chemical burn hazard!
- This product contains a coin/button cell battery. If the coin/button cell battery is swallowed, it

can cause severe internal burns in just 2 hours and can lead to death.

- Keep new and used batteries away from children.
- If the battery compartment does not close securely, stop using the product and keep it away from children.
- If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.
- CAUTION: Risk of explosion if the battery is replaced by an incorrect type.
- Improper replacement of the battery with an incorrect type may defeat a safeguard (for example, in the case of some lithium battery types).
- Do not dispose of the battery into fire or a hot oven, or mechanically crush or cut the battery, which may result in an explosion.
- Do not leave the battery in an extremely high temperature surrounding environment, which may result in an explosion or the leakage of flammable liquid or gas.
- Do not subject the battery to extremely low air pressure, which may result in an explosion or the leakage of flammable liquid or gas.
- Dispose of used batteries according to the instructions.
- To reduce the risk of fire or electric shock, please do not expose the device to rain or humid environment.
- Electric discharge may last for a short period of time after the power is shut down. Please wait two minutes after the power is shut down before operating the device.
- To avoid the risk of electric shock, please do not operate when the power is on.
- To avoid the risk of fire or electric shock, please do not use overloaded AC power socket or extend the power cords.
- Inserting objects into vents or openings of the product is forbidden, as there exists high voltage and current in the product. Inserting objects will lead to electric shock or short circuit of internal parts. To avoid the risk of fire or electric shock, please keep water or other liquids away from LCD display, and please do not let objects such as paper clips or pins fall into the LCD display.



Caution

- The LCD display is designed in accordance with international standards. However, improper use can also lead to electric shock and fire, causing personal injury and property loss. In order to prevent potential hazards, ensure your safety and extend the service life of the product, please read and comply with the instructions carefully when installing, using and cleaning the product.
- The product instructions must be properly preserved for future reference.
- Install the equipment according to the instructions in this manual.
- To prevent injury, this equipment must be securely attached to the bracket in accordance with the installation instructions.
- The equipment shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the equipment.
- Ensure correct wiring of the terminals for connection to an AC mains supply.
- The equipment has been designed, when required, modified for connection to an IT power distribution system.
- identifies the battery holder itself and identifies the positioning of the cell(s) inside the battery holder.
- + identifies the positive terminal(s) of equipment which is used with, or generates direct current. - identifies the negative terminal(s) of equipment which is used with, or generates direct current.
- No naked flame sources, such as lighted candles, should be placed on the equipment.
- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc. The openings shall never be blocked by placing the equipment on a bed, sofa, rug or other similar surface.
- Keep a minimum 8 mm distance around the equipment for sufficient ventilation.
- The USB port of the equipment is used for connecting to a mouse, a keyboard, or a USB flash drive only.

- Keep vertical when moving or using the equipment.
- Please put the device in a ventilated and dry place without strong vibration while working.
- Do not expose the product to humidity, rain, sand, sun or other places with high temperature for storage and usage.
- Do not use parts recommended by non-manufacturer and inappropriate use of parts can lead to accidents.
- Please do not plug and unplug the power cord frequently when the power is on.
- Do not use the power cords of other devices. Replace with the power cords with the same specifications from regular channels only.
- Please lay the power cord correctly to prevent from trampling or placing articles on it.
- Use standard 220 VAC power.
- Power consumption of the device depends on the type of product. When the device is not used for a long time, please turn off the power and unplug the power cords.
- If any of the following occurs, please unplug the power cords, and contact the service center.
  - The power cord or plug is damaged.
  - Liquid splashes on the product or an object falls into the product.
  - The product is exposed to rain or water.
  - The product is not properly operated according to the user manual. Do not adjust the control parts beyond the user manual. The inappropriate control of parts which are not described in the user manual will lead to the damage of the product, and will bring a lot of adjustment work to the technical personnel.
  - The product falls down or damages.
  - The product runs abnormally.
- When replacing the parts of the product, please ensure that maintenance personnel use the parts designated by the manufacturer or the parts with the same performance as the original parts, so as to avoid fire, electric shock or other damage caused by the use of unauthorized parts.
- After completing service or maintenance, maintenance technicians are required to perform safety checks to ensure stable operation of the product.
- When installing the product on walls or ceilings, ensure that the product is installed in compliance with the method recommended by the manufacturer.
- Please keep the product away from heat source, including radiators, heaters, stoves and other heating products.
- Using the product in situations with fatal dangers such as death, injury and serious personal injury is forbidden.

Chapter 1 Overview

1.1 Introduction

The LCD display uses industrial ultra-narrow bezel and direct-lit LED backlighting. It features ultra-high brightness, uniform brightness, no boundary shadow, long lifespan and so on. The built-in splicing controller helps realize the self-splicing of screens from the same source signals. The LCD display has abundant interfaces to receive DVI, VGA, HDMI and other signal sources, and supports a variety of control methods.

1.2 Key Features

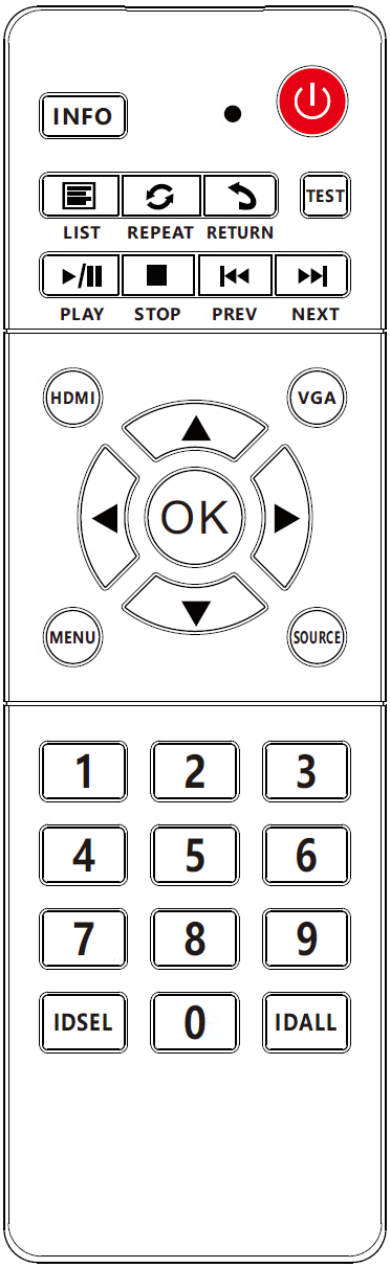
- Direct-lit LED backlight with uniform brightness.
- Ultra-high resolution, 178° viewing angle.
- Ultra narrow bezel design.
- Factory calibration for color uniformity.
- Anti-glare, high definition, high brightness, high color gamut, and vivid images with rich colors.
- Stable and 24-hour continuous working.
- Metal casing for preventing from radiation and magnetic & electric field interference.
- Wall-mount and modular brackets available to meet various installation requirements.
- Screen control by the client.

Chapter 2 Remote Control

2.1 Remote Control Functions

The following table describes the functions of the remote control.

Table 2-1 Remote Control Functions

Appearance	Key	Functions
	INFO	View system information.
	POWER	Power switch.
	LIST	In USB source, list all playable content.
	REPEAT	In USB source, adjust the playback mode.
	RETURN	In USB source, return to the previous menu level.
	TEST	Enter the aging test.
	PLAY	In USB source, toggle between pause and resume playback.
	STOP	In USB source, exit playback directly while playing content.
	PREV	In USB source, switch to the previous content playback.
	NEXT	In USB source, switch to the next content playback.
	HDMI	Switch directly to HDMI when not in HDMI source.
	VGA	Switch directly to VGA when not in VGA source.
	Direction	Navigate between fields and menu items. Adjust parameters.
	OK	Confirm selection.
	MENU	Enter/Exit the menu.
	SOURCE	Switch signal sources.
	0-9	Enter numbers to select the desired screen or enter the special menu such as factory menu, etc.
	IDSEL	Select the desired display(s).
	IDALL	Select all displays.

2.2 OSD Menu Operations

You can use the OSD menu on your LCD display to make some adjustments.

Menu Settings

You can press **MENU** on your remote control to go to the menu settings. The following table describes the settings.

Table 2-3 Menu Settings

Menu	Settings	
Signal Source	● **Interface**: HDMI/DP/VGA/DVI/TV USB	
Picture Settings	**Picture Mode**	● **Picture Mode**: Standard/Presentation/Movie/Monitor/Text/User ● **Brightness**: 0 to 100. ● **Contrast**: 0 to 100. ● **Saturation**: 0 to 100. ● **Sharpness**: 0 to 100.
	Image Settings	● **Color Space**: 0 to 255/16 to 235/Auto. ● **Eye Care Mode**: On/Off. ● **Aspect Ratio**: 16:9/4:3/1:1. ● **VGA Adjust**: Choose to adjust VGA settings. The function will be disabled when it is not connected to VGA. ● **Auto Brightness**: On/Off. ● **EDID Switch**: EDID 1.4 suitable for 1080p image. EDID 2.0 suitable for 4K image. ● **PQ Correction**: On/Off.
General Settings	**Joint Settings**	● **Joint Switch**: On/Off. ● **Horizontal Screens**: 1 to 15. ● **Vertical Screens**: 1 to 15. ● **Horizontal Position**: 1 to 15. ● **Vertical Position**: 1 to 15.
	ID Settings	● **Config. Mode**: Manual/Auto. ● **Total Rows**: 1 to 15. ● **Total Columns**: 1 to 15. ● **Auto Config.**: Choose to automatically configure the IDs.
	Control Linkage	● **Control Linkage**: On/Off. ● **Videowall No.**: 1 to 100. ● **Intelligent Scenes**: On/Off.
Other Settings	**Alarm Settings**	● **Overheat Alarm**: On/Off. If the temperature exceeds the designated value, an alarm will be triggered.

Menu	Settings	
		● **Alarm Temp.**: 0 to 100. You can set the alarm temperature.
	USB Settings	● **USB Auto Play:** Off/Picture/Movie.
	Audio Settings	● **Volume**: 0 to 100. ● **Mute**: On/Off.
System Maintenance	**System Info.**	● **Software Version**: Information about software version. ● **Device ID**: ID information of the device. ● **Current Temp.**: Current temperature of the device. ● **Serial No.**: Serial number of the device.
	OSD Settings	● **OSD Language**: English/中文. ● **OSD Timeout**: Off/15s/30s. ● **Auto Sleep**: Off/1 min/10 min. ● **No Signal**: Blue/Black.
	System Maintenance	● **Upgrade/Restore**: On/Auto.

2.3 Screen Control

You can use remote control to control one screen, multiple screens or all screens.
To control one screen, press **IDSEL** to select screen ID.
To control multiple screens, press **IDSEL** to select screen IDs. For example, press **IDSEL** → **0101** → **2** to select screen 0101 and screen 0202.

Note

Only some LCD display models support multiple-screen control.

To control all screens, press **IDSEL**, and then press **IDALL**.

2.4 Virtual Remote Control

You can use **Remote Control** in the lower left corner of the client interface to control the display(s).

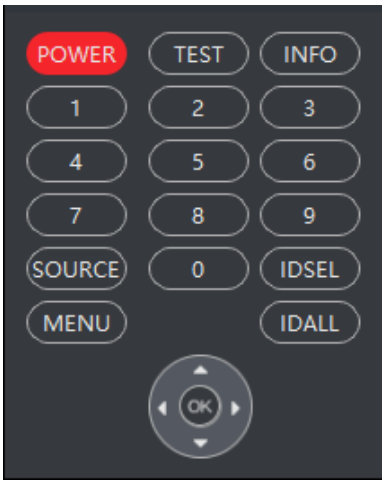


Figure 2-1 Virtual Remote Control

- When there is no signal input, the device will enter networked standby mode and the screen will be off. The device will run at the lowest power consumption.
- Networked Standby Mode Power Consumption: no more than 2 W.
- You can press the **POWER** button on the virtual remote control of the client interface to wake up the device after receiving the network signal source by connecting the cables to the RS-232 serial ports.

Chapter 3 Installation and Connection

3.1 Installation Notice

- The LCD display must be installed or moved by two or more persons.
- When moving the LCD display, ensure to grasp the grips at the rear and bottom. Do not hold the LCD screen as it may cause damage, malfunction or personal injury.
- The LCD display should be mounted vertically relative to horizontal line.
- Mounting the LCD display on the wall requires special technologies, which must be done by professionals. You should not attempt to mount the LCD display yourself. Our company is not responsible for any accidents or personal injury caused by improper handling or mishandling.
- The LCD display should be used at room temperature from 0 °C to 40 °C. Leave enough space around it for internal heat dissipation.
- Do not block the vents. It may cause a device exception if the internal temperature of the LCD display rises.
- Do not place the LCD display on a hot device.
- Please use the mounting base and wall-mounting bracket which were specially designed for the LCD display.
- Before installing, wipe the casing and the screen panel cleanly, otherwise it will affect the use of the screen.
- Fix the screen but do not tighten it too tightly when installing the screen, otherwise the screen may not work normally because of deformation.
- Improper handling during adjusting and using may result in equipment damage. The LCD display can be used continuously.

3.2 Operation Notice

The LCD panel on the device is made by high-precision technology. However, tiny spots on the screen that are dim and dark may be observed, or when observed from side, the screen may be colorful or the 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 LCD display.

- The LCD display and its accessories in this manual are subject to change without prior notice.
- The LCD display should be used at room temperature from 0 °C to 40 °C.
- This LCD screen contains fragile materials, which can be damaged by dropping or impact, so please take it lightly.
- Please do not let the screen display a static image for a long time, otherwise the "residual image" will be left on the screen to affect the normal use of the LCD display.
- It is strictly forbidden to scratch or tap the LCD display with hard objects. Do not switch on and off frequently. Do not hit the device. The above actions may damage the device and accelerate the aging of the device.
- If your LCD display is not working normally, especially if an unusual smell is emitted from the

inside, unplug it immediately and contact your dealer.

- Please note that in addition to the compensation provided by law, the company is not responsible for errors caused by customers or third parties when using the machine, and is not responsible for any other related malfunctions or damages.
- Do not use the LCD display in environments with large amounts of dust, high humidity, or possible exposure to oil and water vapor, as this may result in fire or damage to the device.
- Do not place the LCD display on an unstable object or in an unsafe place. Do not subject the LCD display to strong shock or vibration. If the device is dropped, it may be damaged.
- Do not use the LCD display near heating facilities or any place where there may be high temperature, as this may cause the machine to overheat and cause a fire.
- Before installing the LCD display, please check if your accessories are missing. If there is any shortage, please contact the seller.

3.3 Power Cord Connection

When connecting the power supply, plug one end of the power plug into the power input on the rear panel of the LCD display, and the other end into a properly grounded power socket (AC 220 V, 50/60 Hz).

In the use of the power cord, the following points should be noted:

- If the LCD display is not to be used for a long time, shut down the power of the device and disconnect the power supply.
- Do not damage the power cord. Do not place heavy objects on the power cord, stretch the power cord, or bend the power cord excessively. If the power cord is damaged, it may cause a fire or electric shock.
- Only use the original power cable delivered with the LCD display. Contact authorized dealer to purchase power cable with same specifications.
- Do not connect DC power.
- Plug the power plug directly into an AC socket. If you add an additional extended power cord, you may get a fire due to overheating.
- Do not remove or plug in the power plug with a wet hand. It may cause an electric shock.
- Do not attempt to repair if the power cord is broken or malfunctioning. Contact the service center for repair.

3.4 System Connection

The LCD display achieves the video signal from the signal loop video input port (for example, the DVI-IN), and send the signal to the next unit through the signal loop video output port. The 2 × 2 splicing is taken as an example for description. Follow the wiring method shown in the figure below to complete the connection.

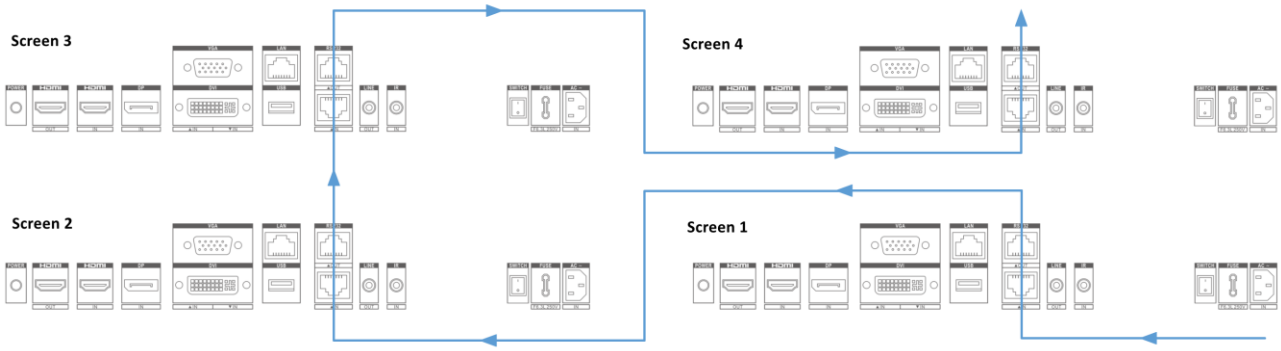


Figure 3-1 Serial Port Connection

Note

- The length of the cable as well as the environment condition may affect the image quality.
- The DVI-IN interface is suggested to be used as the signal input port.
- When operating on the cable connections, you must turn off the main power switch and pull out the power plug. Please read the *Installation Guide* first.
- Do not confuse the input and output interface, or it may cause the device exceptions or other problems.

3.5 Cleaning and Maintenance

Note

Before cleaning the LCD display, be sure to unplug the power cord. Do not attempt to maintain it yourself. Opening the casing will expose you to high voltage or other hazardous materials. The LCD display must be maintained by professionals.

Clean the screen panel of the LCD display

- When wiping the screen, use a dry cloth that does not shrink, so as not to damage the surface coating of the screen. Do not use chemical fiber cloth or detergent, whose composition may cause the screen surface to fade or be damaged. Do not wipe the screen with a hard cloth or a rough and hard object, as this may damage the screen surface.
- If the surface of the screen is stained with grease, such as fingerprints, wipe it with a non-shrinking cloth diluted with neutral detergent, and then dry the screen with a soft, dry cloth. Do not use a spray cleaner as this may remove the coating or cause the cleaner to enter the device, which may cause malfunctions.

Clean the casing of the LCD unit

- Do not use benzene, thinner or other chemical products to wipe the casing; do not spray volatile solvents such as insecticide on the casing; do not leave the casing exposed to plastic or rubber materials for a long time; do not use chemical fiber cloth, detergent or paraffin. All of

the above behaviors may cause cracking, deformation and stripping of the casing.

- Use a non-shrinking cloth to wipe the device casing and its remote control. If it is dirty, wipe it with a soft damp cloth diluted with a mild detergent solution, and then dry with a soft, dry cloth.
- Do not use acidic/alkaline detergents, alcohol-based detergents, scouring agents, soap powders, OA cleaners, car waxes, glass cleaners, etc., as they may cause cracking, discoloration, and scratching of the casing.

Chapter 4 Client Configuration and Operation

You can configure and manage the screens through the client. Contact our technical support personnel to get the installation package. View the user manual of the client for more details.

See Far, Go Further