newline

Direct View LED Poster

User Manual

Newline DV Go Poster

NovaStar control system

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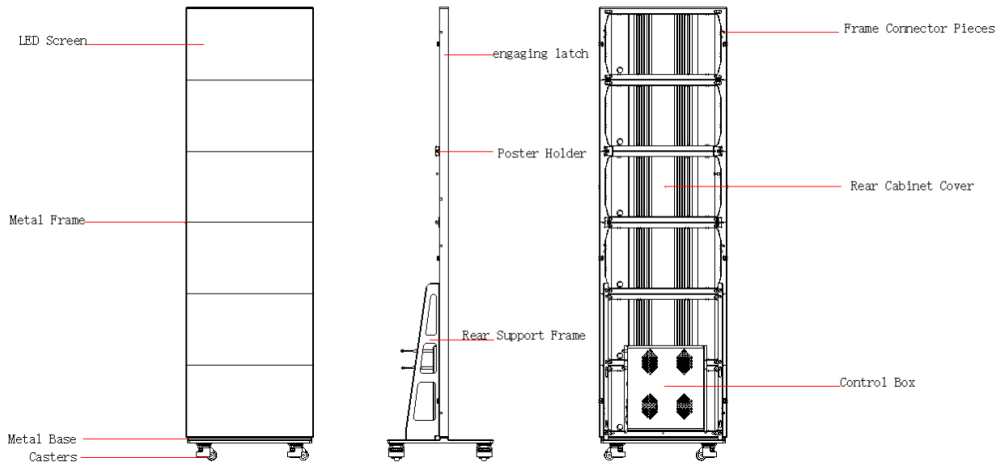
1 Introduction

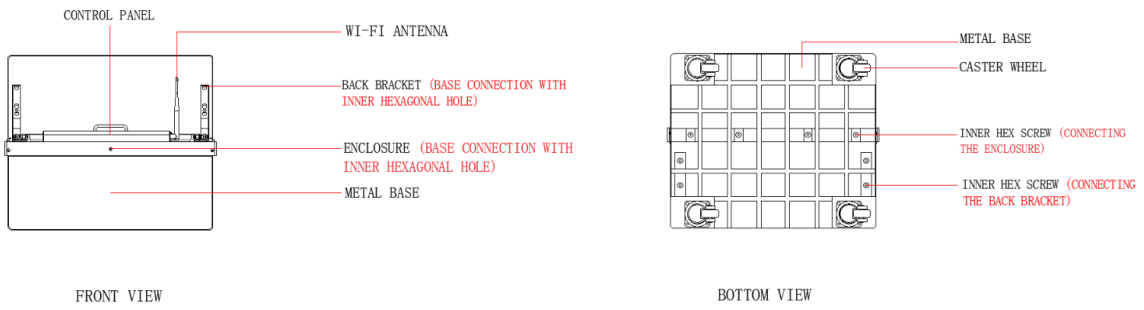
1.1 External components

Use the views below to identify the display, rear support frame, control box and connections in the mobile base.

Front, side and rear views



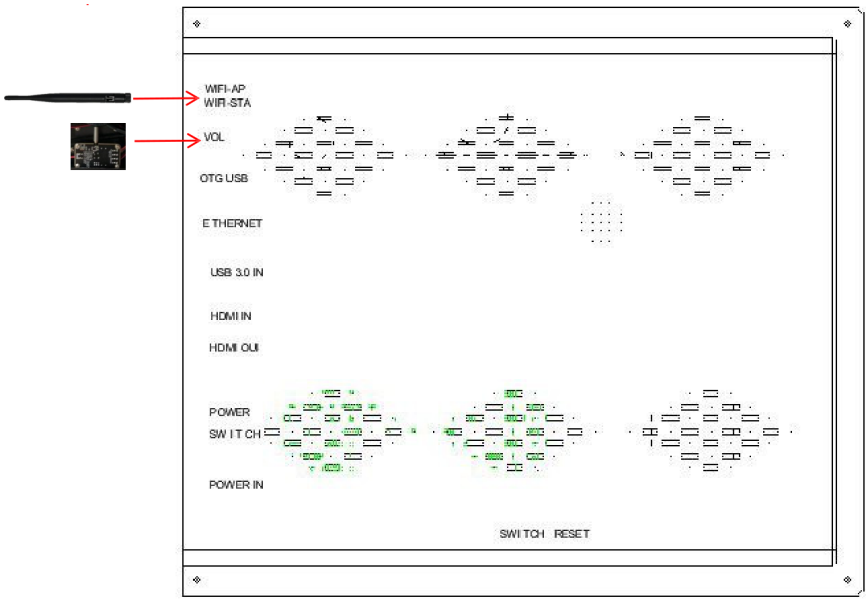
Base and caster assembly



1 Introduction

1.2 Rear control panel

Port positions may vary by production batch. Follow the labels on the rear panel of your poster.

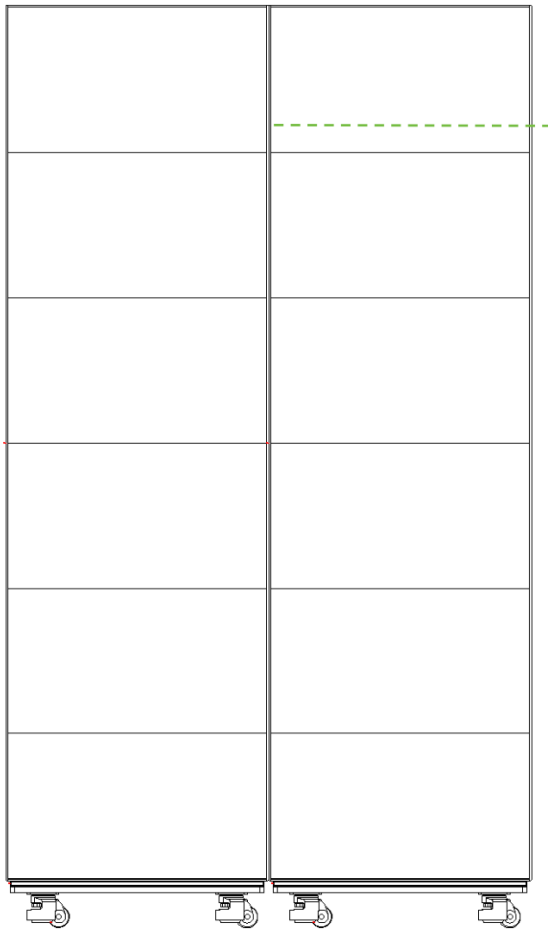


Control or port	Function
WIFI-AP / WIFI-STA	2.4 GHz Wi-Fi antenna interface. Select access point (AP) or client (STA) mode.
VOL	Adjusts the amplifier volume.
OTG USB	USB Type-B connection to a host for program publishing and display control.
ETHERNET	Gigabit Ethernet. Connect directly to a computer or through a local or public network for publishing and display control.
USB 3.0 IN	USB Type-A port for media playback, firmware upgrades and storage expansion.
HDMI IN / OUT	HDMI 1.3 input and output connectors.
POWER	Switches power on.
SWITCH	Switches power off.
POWER IN	Power input connector.
SWITCH / RESET	Switches between synchronous and asynchronous modes.

2 Installation

2.1 Joining two posters

1. Check that both posters are the same model and have matching connectors (detail 1). Fastener positions can vary on custom units.
2. Align the units and push them together until the connectors fully engage. From the front or rear, tighten the fasteners with a 5 mm Allen key (detail 2).
3. Use detail 3 to identify the internal connection. See page 6 for power and signal cabling and page 16 for the HDMI connection between posters.

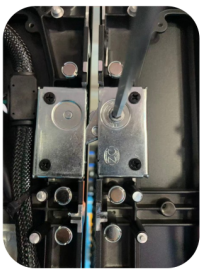




Detail 1



Detail 2

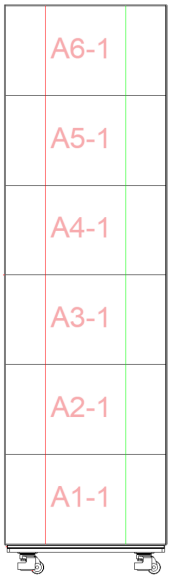


Detail 3

2 Installation

2.2 Power and signal cabling

After installing the cabinets, connect the network and power cables in sequence from bottom to top. The diagram shows the power cable in red and the signal cable in green. Follow the wiring drawing for your installation.

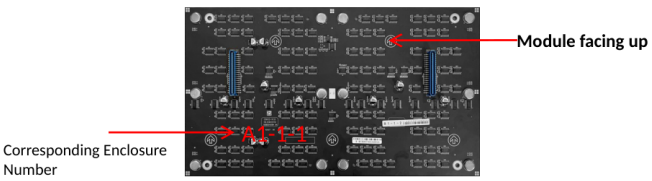


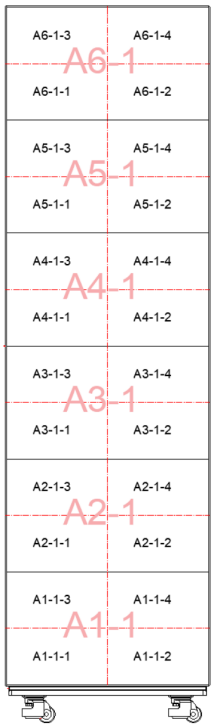
Before switching on, check that the power cable and ground wire are secure and that there is no electrical leakage or short circuit.

2.3 Module arrangement

Switch on the poster to check the power supply and control card. If either is faulty, switch off the power and replace the faulty component before continuing. Switch off the power before fitting the LED modules.

The modules are factory-calibrated. Match each module label to its cabinet number and position. Use the orientation marking on the module as shown below.

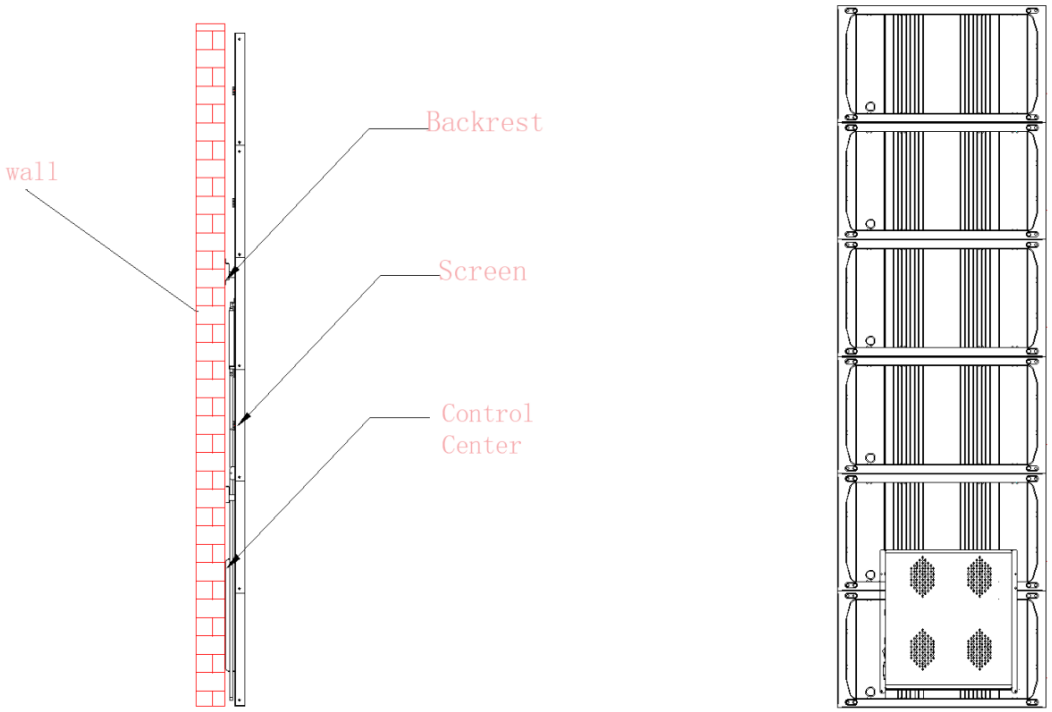




2 Installation

2.4 Wall mounting

The side view shows the position of the screen, rear support and control box relative to the wall. The rear view shows the six cabinets in a single column.

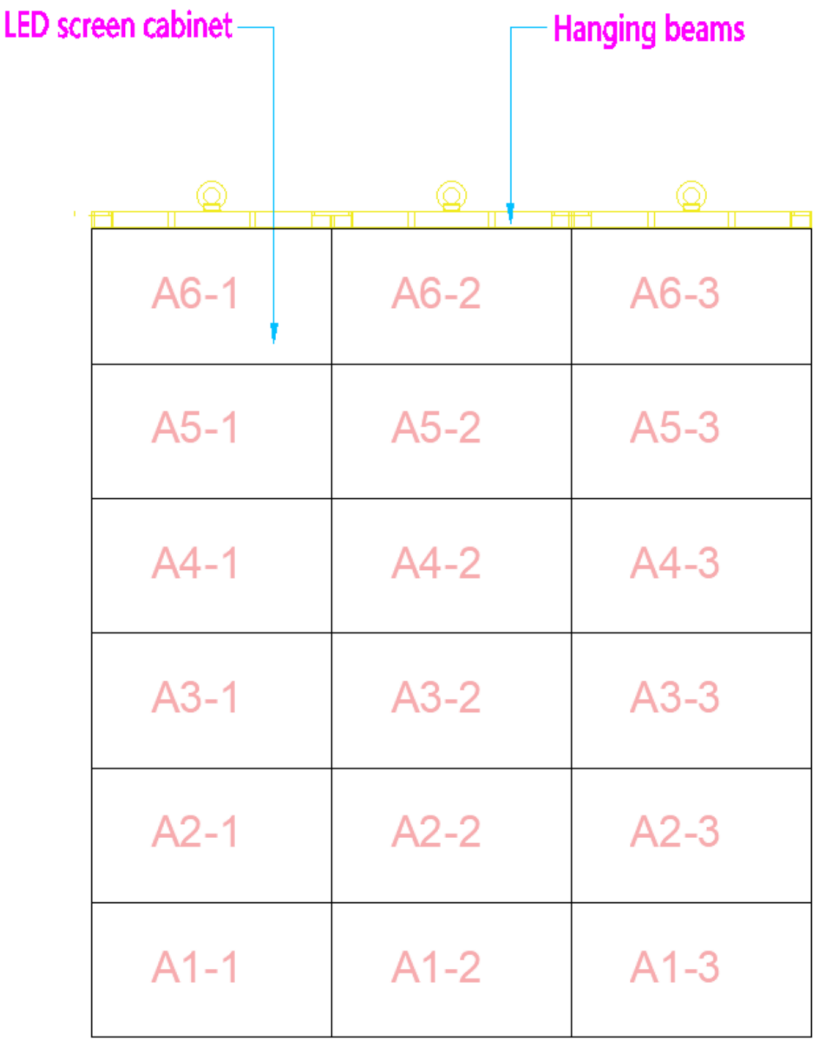


Wall-mounted poster, side and rear views

2 Installation

2.5 Suspended installation

The diagram shows a suspended array of three posters. The lifting cables attach to the hanging beam above the top row of cabinets.

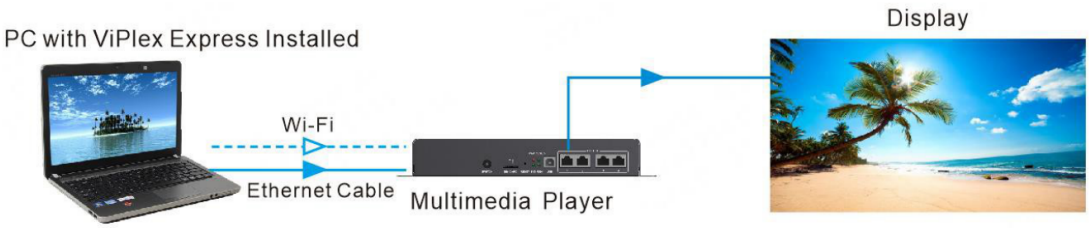


Suspended array with lifting cables and hanging beam

3 PC control with ViPlex Express

3.1 Connect to the controller

Install ViPlex Express on the computer. Choose one of the three connections below to reach the multimedia player in the poster.



Ethernet

Connect the computer to the player with an Ethernet cable. The default static IP address is 192.168.0.10. If using a static address, put the computer on the same subnet as the player. If the connection fails, check the player address in its wired network configuration.

Wi-Fi

Connect to the poster hotspot. Read the network name and password from the label on the rear of your poster.



USB

Connect the computer directly to the USB Type-B port on the rear control box. ViPlex Express can detect the controller without additional network configuration.



3 PC control with ViPlex Express

3.2 Find a screen

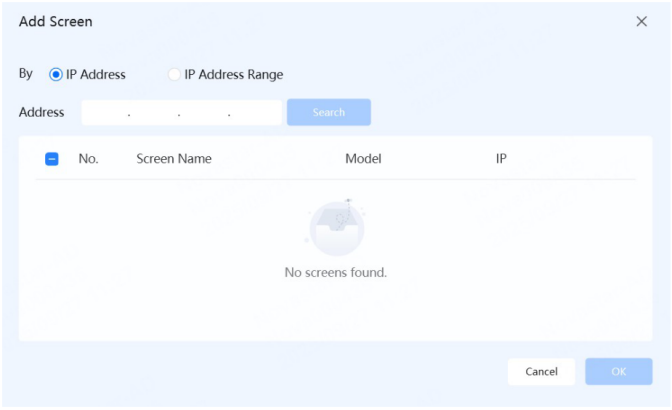
Automatic search on the local network

Open ViPlex Express and select My Screens. Nearby screens appear automatically. Use the All, Online and Offline tabs to filter the list.



Add a screen by IP address

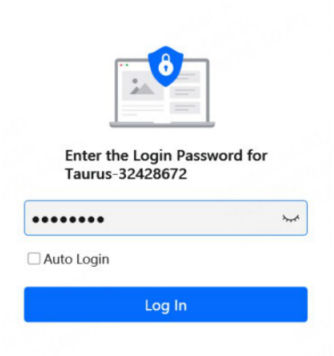
1. Under My Screens, open the menu and choose Add Screen.
2. In the Add Screen window, choose IP Address, enter the address of the player and confirm.



3 PC control with ViPlex Express

3.3 Log in and set the resolution

1. Under My Screens, select a screen with an orange status indicator. Enter the login password and select Log In.

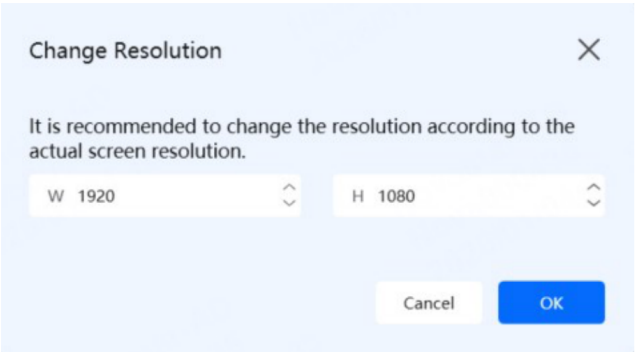


Screen status

Orange indicates an online screen that is ready for login. Green indicates that you are logged in. Grey indicates an offline screen.

If you select Auto Login, ViPlex Express will try the default account or the account used for the last successful login when it next detects the screen.

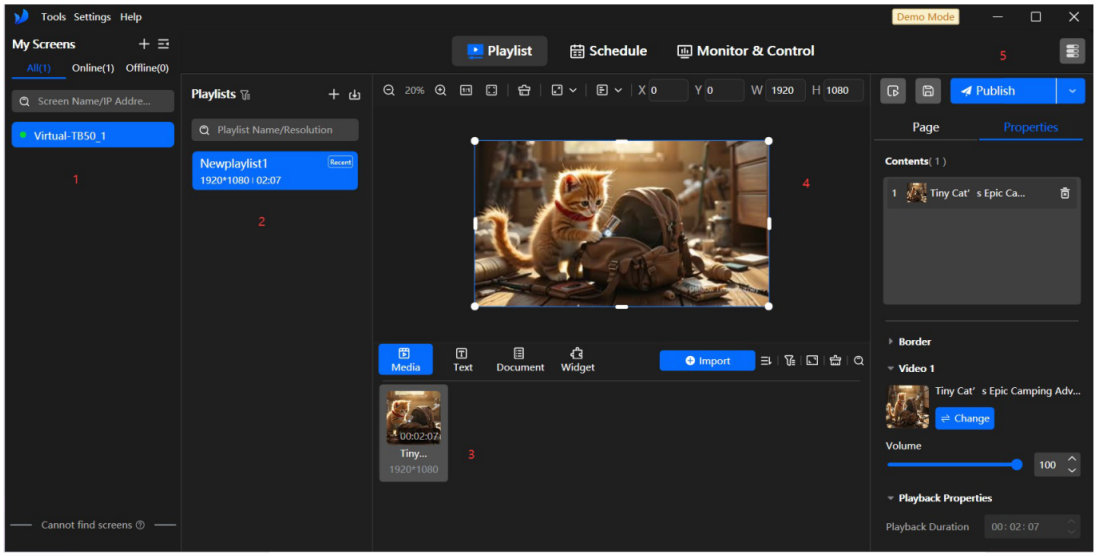
2. In Change Resolution, enter the actual width and height of the screen in pixels and select OK.



3 PC control with ViPlex Express

3.4 Create and publish a playlist

1. Under My Screens, select the poster that will play the content.
2. Open Playlist and create a playlist.
3. Select the plus (+) button to add media.
4. Set the width and height of the playback area.
5. Select Publish to send the playlist to the controller for playback.

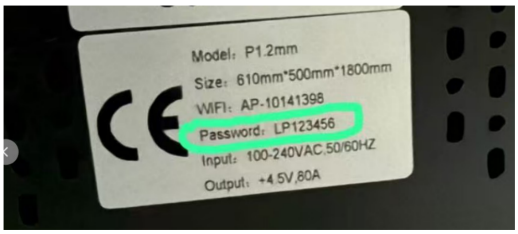


4 Mobile control with ViPlex Handy

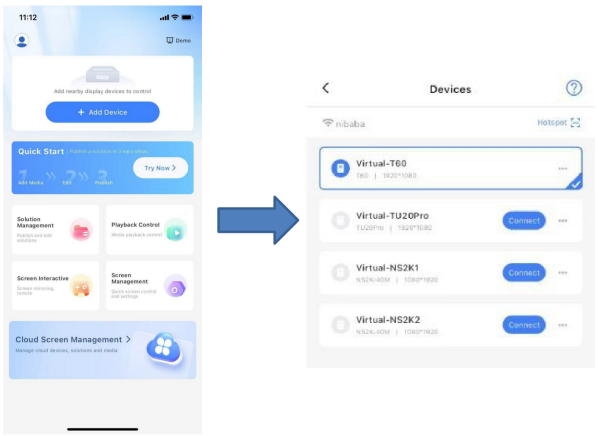
4.1 Connect a mobile device

1. Scan the QR code to download ViPlex Handy for Android or iOS.

2. In the Wi-Fi settings on your phone, connect to the poster hotspot using the network name and password printed on its rear label.



3. Open ViPlex Handy, tap Add Device and select the poster you want to control.

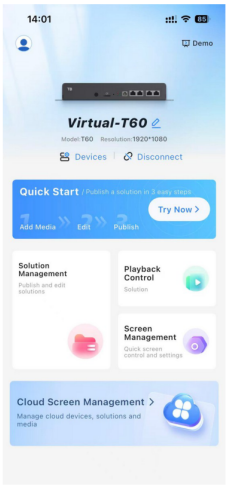


4 Mobile control with ViPlex Handy

4.2 Create and publish a program

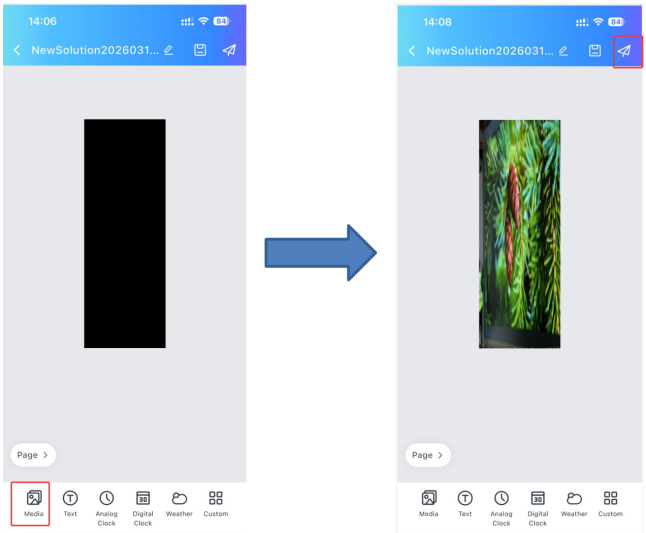
1. Tap Try now to create a playlist.

2. Set the poster resolution and choose a playback layout.





3. Tap Media and add a video or picture. Check the preview, then publish the program to the poster.

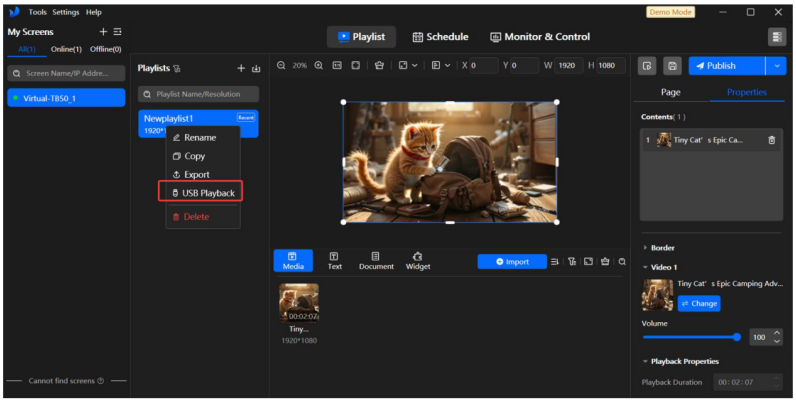


5 USB playback

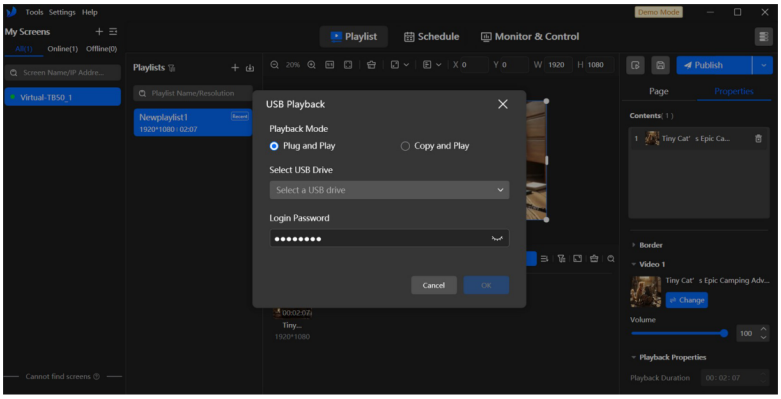
5.1 Export and play a playlist

Use this method with players that support playlists imported from a USB drive. The playlist must contain media. You can export one playlist at a time, and the player plays that playlist by default.

1. Connect the USB drive to your computer. In ViPlex Express, open Playlist. Under Playlists, right-click the playlist name and select USB Playback.



2. In the USB Playback window, select the USB drive and export the playlist.

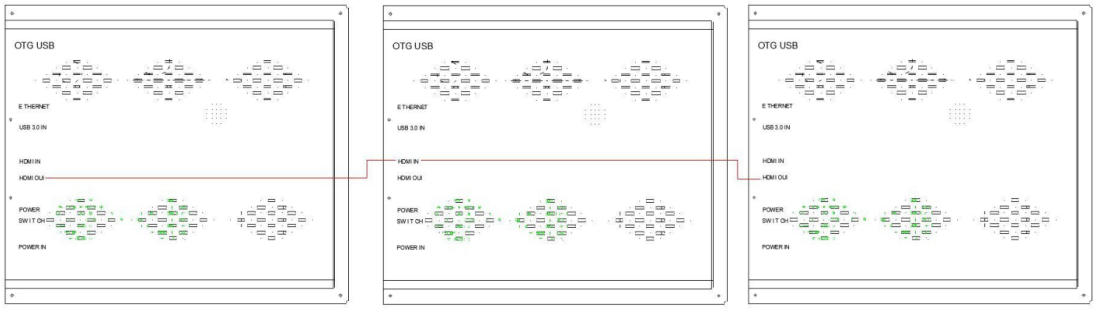


3. Insert the drive into the USB port on the poster to start the new program.

6 Multi-screen operation

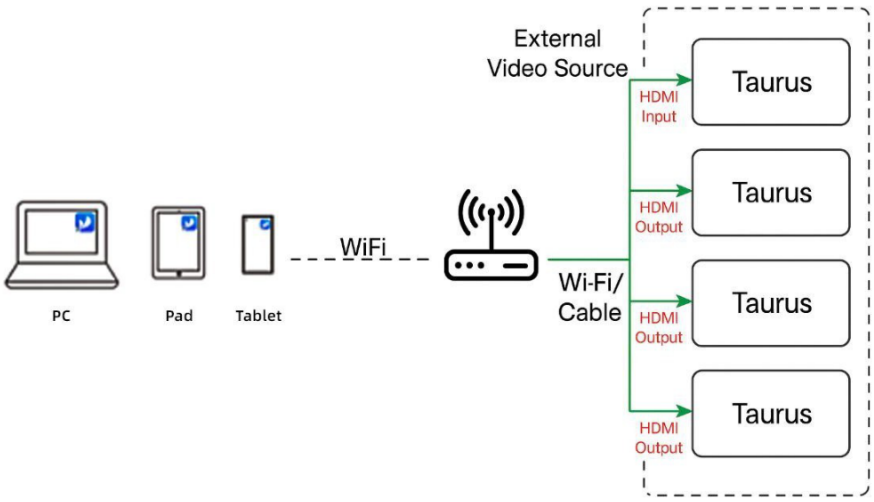
6.1 Connect the HDMI chain

Use posters with the same resolution. Connect HDMI OUT on the first poster to HDMI IN on the next. Repeat in sequence until all posters are connected. Both connectors use HDMI 1.3.



Signal path

For playback from the first player, the first poster uses its internal source (asynchronous mode). Each downstream poster follows the HDMI input (synchronous mode).



6 Multi-screen operation

6.2 Resolution and video sources

Set the combined resolution

The combined image can be up to 3840 x 2160 pixels, within the maximum width and height supported by the device. For a custom resolution, the pixel clock must be 153 MHz or less.

Set the starting position in the mosaic parameters. The software calculates the offset for each poster.

Select the source on the first player

After connecting the players and configuring the mosaic, select the internal program or external HDMI source on the first player. The other players automatically detect the external source. A downstream player set to Internal will not display its part of the mosaic.

Match the content to the display

For an internal program, match the program resolution to the combined screen resolution for the best image quality. The player scales other program sizes to fill the combined screen.

For an external source, set the HDMI source resolution to the combined screen resolution to fill the display.

When multi-screen mode is disabled

Each player returns to its previous program. A player with no saved program displays a black screen.

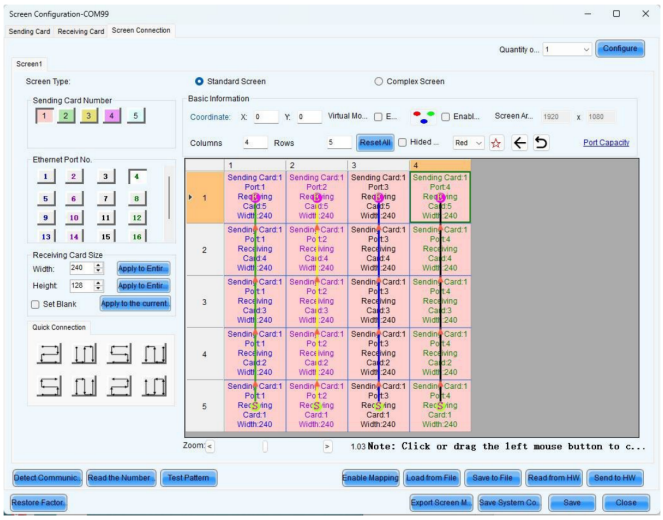
6 Multi-screen operation

6.3 Four-poster example with an internal source

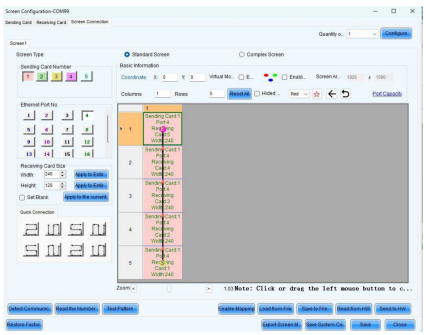
In this NovaStar example, four TB50 players each drive a 240 x 675 screen. The combined resolution is 960 x 675. For your installation, use the actual pixel dimensions of each poster. Configure the screens in NovaLCT and set the mosaic order in ViPlex Handy.

Configure the screens in NovaLCT

1. Configure the first TB50 for the full 960 x 675 image. The first player provides the internal program for the entire row.



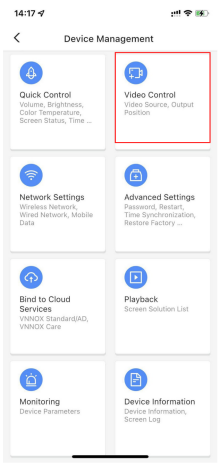
2. Configure each remaining TB50 for its individual 240 x 675 screen.

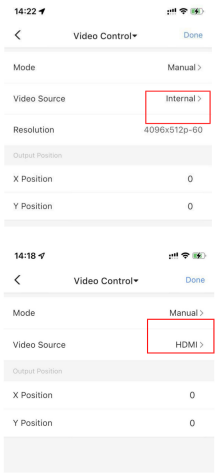


6 Multi-screen operation

6.4 Set the source and mosaic order

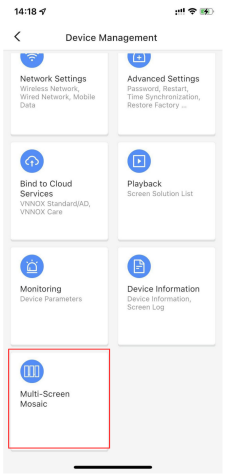
1. In ViPlex Handy, open Device Management and select Video Control. Set the first player to Internal. The remaining players use HDMI.

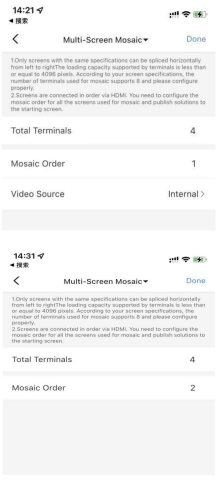




2. Open Multi-Screen Mosaic. Set Total Terminals to 4 and set the first player to Mosaic Order 1 with Internal as the video source.

3. Assign orders 2, 3 and 4 to the downstream players in the same order as the HDMI connections. Publish the program to the first player.



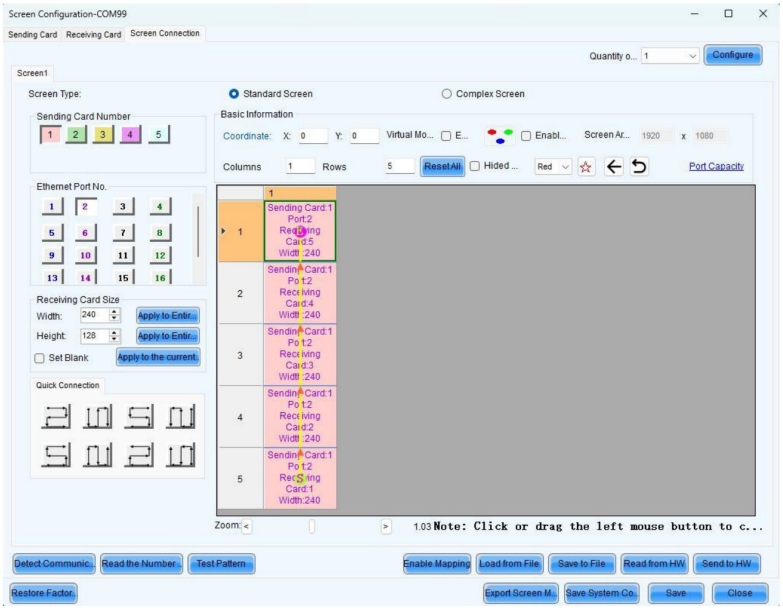


6 Multi-screen operation

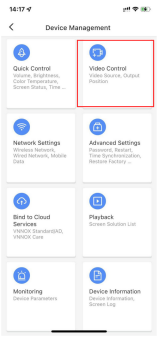
6.5 Four-poster example with an HDMI source

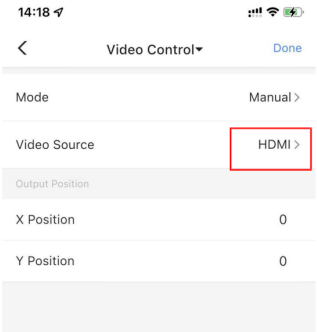
1. Connect the external HDMI source to the first TB50. Set the source output to 960 x 675 so it fills the four-poster display.

2. In NovaLCT, configure all four TB50 players for their individual 240 x 675 screens.



3. In ViPlex Handy, open Video Control and select HDMI for the first player. The downstream players also use HDMI.





6 Multi-screen operation

6.6 Add a controller without a screen

Set the mosaic for the HDMI example

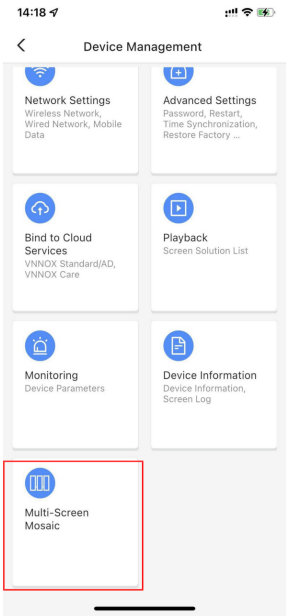
In ViPlex Handy, open Multi-Screen Mosaic. Set the total number of terminals and their order. Select HDMI as the video source on the first player.

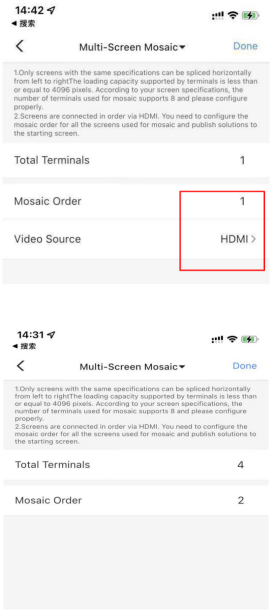
Optional additional controller

1. Add a controller with no screen attached and configure it for the full 960 x 675 resolution.

2. Keep each controller connected to a poster at the actual screen resolution of 240 x 675.

3. On the controllers driving posters, configure Multi-Screen Mosaic as in the HDMI example.





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