



3-Sided dvLED Portable Counter with Storage Case

USER MANUAL

SKU: DP031NVB2

V1.2

FCC ID: 2ASCB- DP031NVB2

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, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes/modifications to this equipment not approved by the party responsible for compliance could void the user's authority to operate the equipment.



Thank you for purchasing this product from Displays2go.

It's our mission to help you connect with the world and build your brand with products that are personalized to your needs.

Your product has been manufactured with great care using only the finest quality materials and expert workmanship. Our Quality Assurance team inspects all electronics during assembly process to assure reliable operation. This product comes with a 2-year warranty. Scan the QR code to visit the product page and learn more about your warranty.

Need assistance? We are available for expert advice and all of your customer service needs.



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844-221-3393



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BEFORE USE

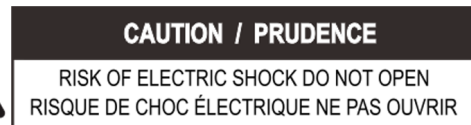
Safety Warnings and Precautions

Thank you for purchasing the high-performance digital signage from Displays2go. We have considered the factors to ensure personal safety in product design and have tested rigorously at the factory. However, improper installation and use may result in electric shock and fire.

In order to safely use, maximize performance of the unit and extend the life of the product, please read and follow all instructions carefully before using the product. Keep the instructions for future reference.

We strongly recommend using a surge protector or a power strip with internal circuit breaker to prevent damages to the digital signage.

	Warning: May cause personal injury or death
	The operation is prohibited
	Caution: May cause damage or property loss



If any of the following occurs:

- Power outage or instable voltage.
- Abnormal sound or smell from the unit.
- AC power cord is damaged.
- Digital Signage is damaged due to drop, knock or impact.
- Any liquid or foreign matters fall into the enclosure.



Turn off the Digital Signage immediately, pull out the plug from the power outlet, and ask the authorized personnel for maintenance quickly.



If coal gas or other flammable gas leaks, do not pull out the plug of the digital signage or other electrical appliances; instead, turn off the gas valve immediately, and open the doors and windows quickly.



WARNING

-  Cut off the power supply before connecting or disconnecting any cables.
- Do not place the Digital Signage on any instable positions, or else it may be damaged or cause fire.
- Do not place the Digital Signage in the positions such as:
 - The environment subject to direct strong sunlight, moisture, extreme temperature or too much dust,
 - The environment with flammable or explosive materials,
 - The environment with flammable or corrosive gases,
- Do not use damaged or inappropriate power outlets, and ensure that the plugs and outlets contact properly.
- Do not let dust or metal deposits adhere to the plugs and outlets.
- Do not damage the power cords:
- Do not modify the power cords,
- Do not place heavy objects on the power cords,
 - Keep the power cords away from heat source,
 - Do not pull the cord to remove the plug.
 - Do not connect too many plugs to one outlet in parallel, or else it may cause fire due to excessive power consumption.
- Do not approach the Digital Signage with open flame (e.g. a lighted candle), or else it may cause electric shock or fire.
- Do not put any sharp objects, metal or liquid into the vents or let them touch the signal terminals to avoid short circuit, product damage, and electric shock.
- The openings in the enclosure are designed for ventilation and cooling, to ensure long time reliable running of components inside the enclosure and prevent overheating. Do not block the openings when place the unit.



Do not touch the plugs with wet fingers, or else it will cause electric shock.



Do not use the Digital Signage in stormy weather, especially when there is lightning, instead, please disconnect the power and antenna plugs to avoid lightning strike.



Do not disassemble the Digital Signage without permission, or else it may cause electric shock or fire. Please ask qualified technician for repair.



CAUTION

- Do not let children climb onto the Digital Signage.
- Keep the small parts away from children to prevent them from swallowing.
- If the Digital Signage won't be used for a long time, please turn it off and pull out the power plug.
- To adjust the position of the Digital Signage, please disconnect all power cords and move slowly to avoid tip over.
- Do not scratch or knock the screen with hard object, or twist and squeeze the screen.
- Do not turn on the unit immediately when it is moved from a place with low temperature to high temperature, or else it will cause condensation and malfunction.
- Before cleaning the Digital Signage, please pull out the power plug, wipe with soft cloth, do not use industrial chemicals, prevent foreign matters from entering the machine. Improper cleaning (such as cleaning solution, water) may damage the product, erase the printed information, and even cause damage of the components if fluid flows in, resulting in machine failure.
- If the unit displays the same screen for a long time or the moving picture has fixed text or icon, it will leave ghosting on the screen and won't disappear when the unit is turned off, it is normal and isn't covered by the warranty.
- The power of the Digital Signage can be cut off by pulling out the plug.
- If the screen ruptures and the liquid splashes on the skin, please rinse for 15 minutes with clean water immediately, and consult your doctor.
- To carry the Digital Signage with hands, please grab and hold the edges, do not apply pressure on the panel.
- Use the Digital Signage properly: Use in proper lighting conditions, insufficient lighting or long time watching will impair your eyesight.
- Unplug device to disconnect from power.
- Insert the plug into the outlet properly, or else it may cause sparks and fire.

The technical specifications printed herein and on the packaging are subject to change without prior notice. The Manual may be slightly different from actual operation, and the latter is applicable.

Packing List

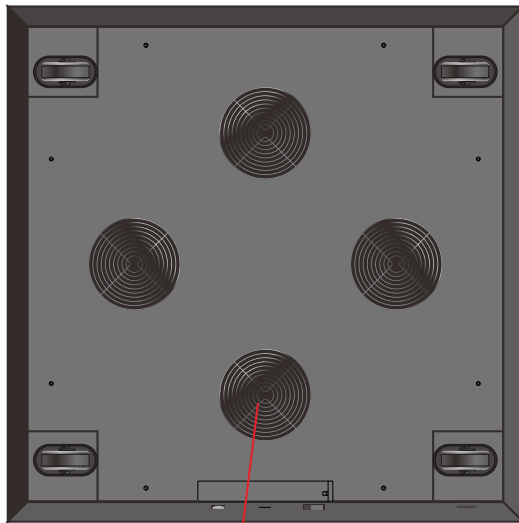
Name	Quantity
LED Digital Counter	1
Power Cord	1
Key	2

Name	Quantity
Storage Case	1
Suction Cup Tool	1
User Manual	1

If you have any questions regarding our products, please visit us at www.displays2go.com or contact Displays2go customer service at 844-221-3393.

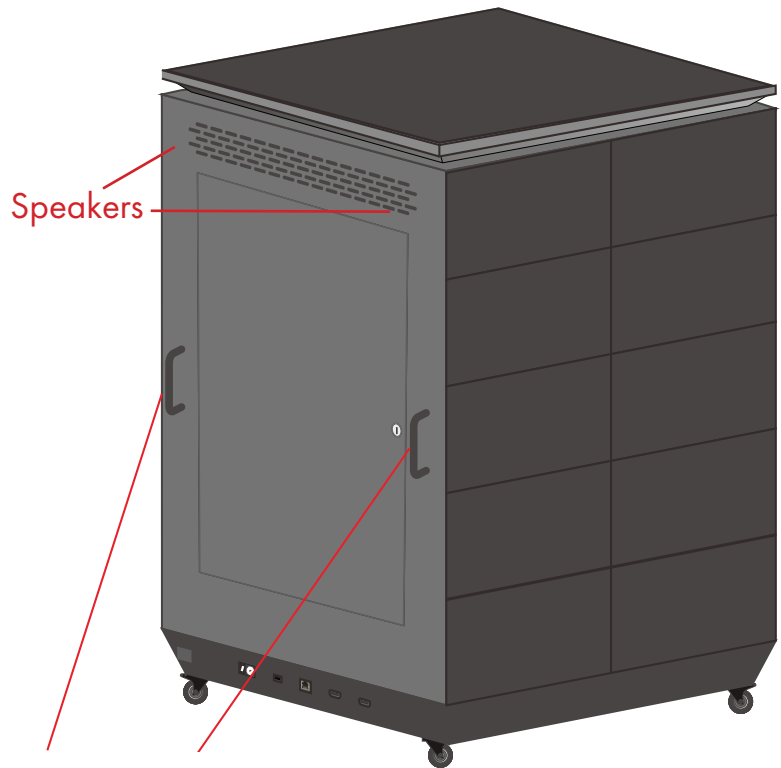
Parts Description

BOTTOM VIEW



Heat Vents

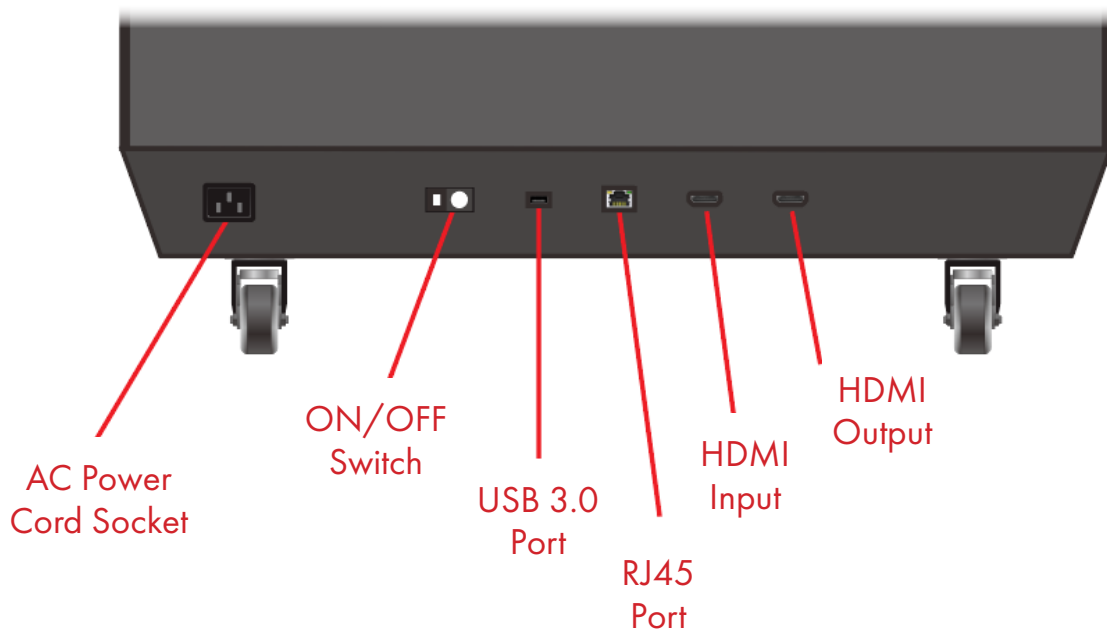
SIDE VIEW



Speakers

Foldable Handles

INTERFACE PANEL



AC Power
Cord Socket

ON/OFF
Switch

USB 3.0
Port

RJ45
Port

HDMI
Input

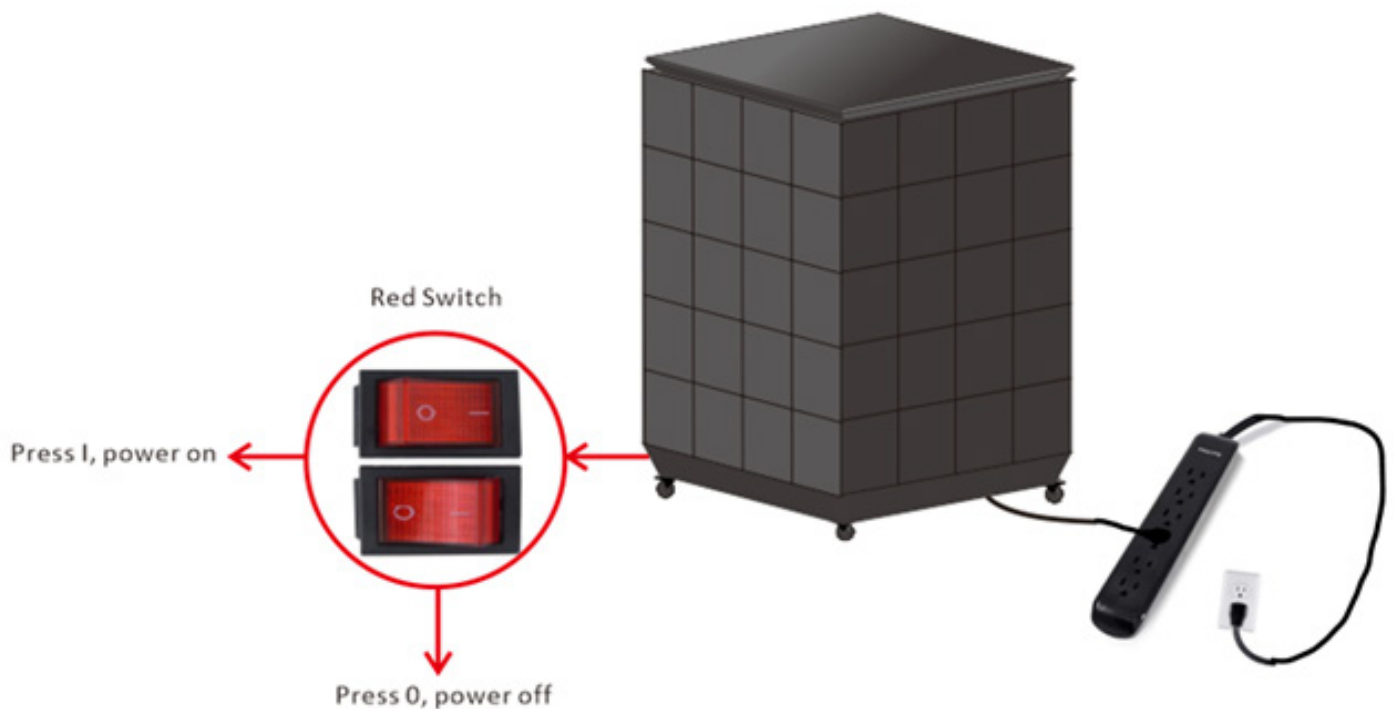
HDMI
Output

OPERATION

Power On/Off

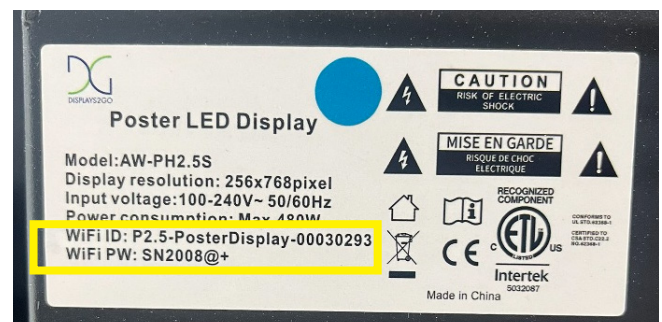
Insert the power cable and connect to power. Press "I" on power switch (see figure below). After a few seconds, the unit LEDs light up and its IP address becomes active.

NOTE: We strongly recommend using a surge protector, or a power strip with internal circuit breaker to prevent damages to the product.



IP Address

After powering on the unit, connect to the dvLED signage using its IP address. On your computer, open the list of available Wi-Fi networks, select the unit's network name, and enter the login credentials. **The Wi-Fi information sticker on the back of the signage lists the network name and password.** See the example photo.



Display Media with ViPlex Express



To display content, you first need to create and publish a content playlist, known as a 'solution' in ViPlex Express software. ViPlex Express is a program for creating, editing, and displaying content on your LED unit.

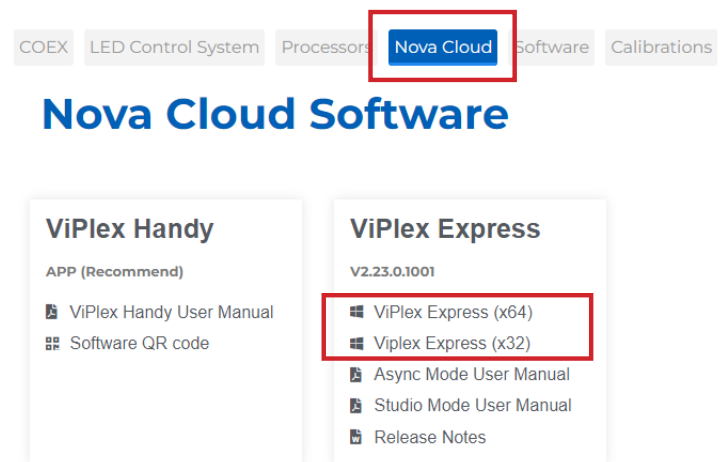
NOTE: The ViPlex software appearance may vary from the screenshots included in this manual. Refer to the official ViPlex user manual on the product page for the most up-to-date visuals and instructions.

DOWNLOAD VIPLEX EXPRESS

Download the software on its official website:

www.novastar.tech/download/download.html?catid=7

Click the Nova Cloud tab, then, scroll to ViPlex Express. Download and install the ViPlex Express x64 software. You may also download the Studio Mode User Manual here or on the Displays2go product page for more details on how to operate the software.



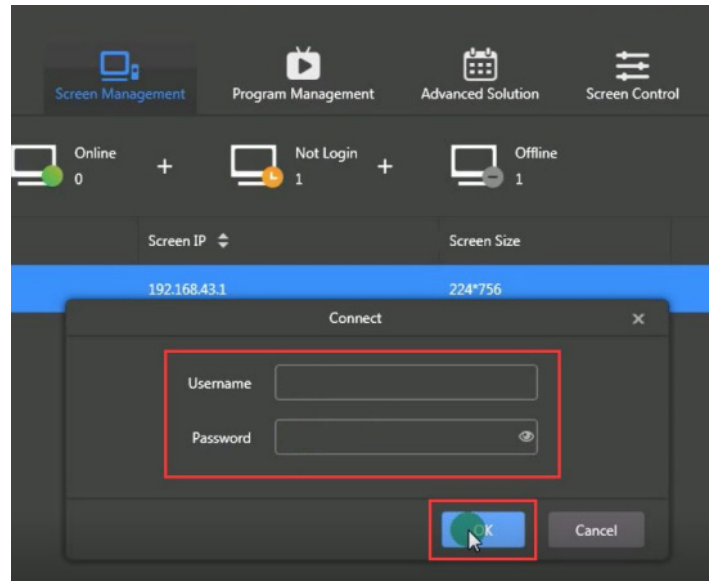
NOTE: Most modern computers are compatible with x64 software. Check your PC device specifications to determine your processor's compatibility with either the x32 or x64 software.

After downloading, you'll be asked to choose **Async** mode or **Studio** mode (see table below). Please refer to the Studio Mode and Async Mode user manuals on the Nova Star website, as the mode selected will effect the available actions and user interface.

Studio Mode	Async Mode
Synchronously Play Content from a Connected Computer	Play Content from a Multimedia Player, Connected USB, or Wireless Playback.

LOG INTO VIPLEX EXPRESS

1. Open ViPlex Express application after powering the LED signage on. The IP addresses of all units appear listed in the Screen Management tab. Choose an available unit from the list, then click **Connect**.
2. Enter the username and password (see Wi-Fi information sticker) then click OK.

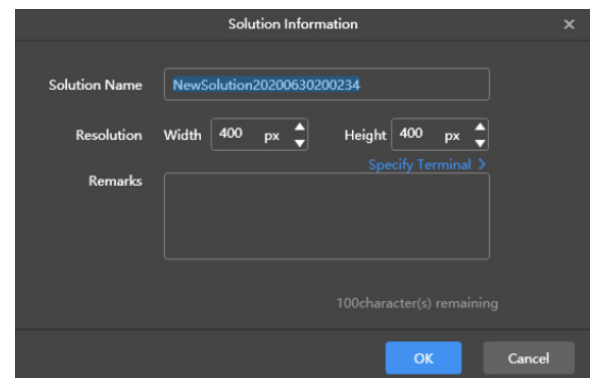
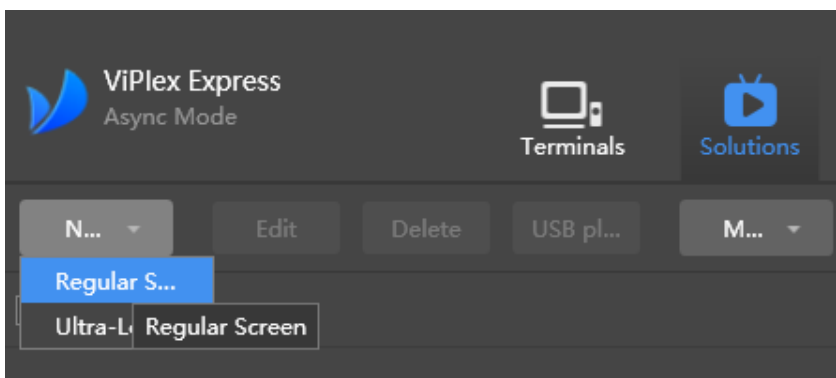


CREATE NEW SOLUTION

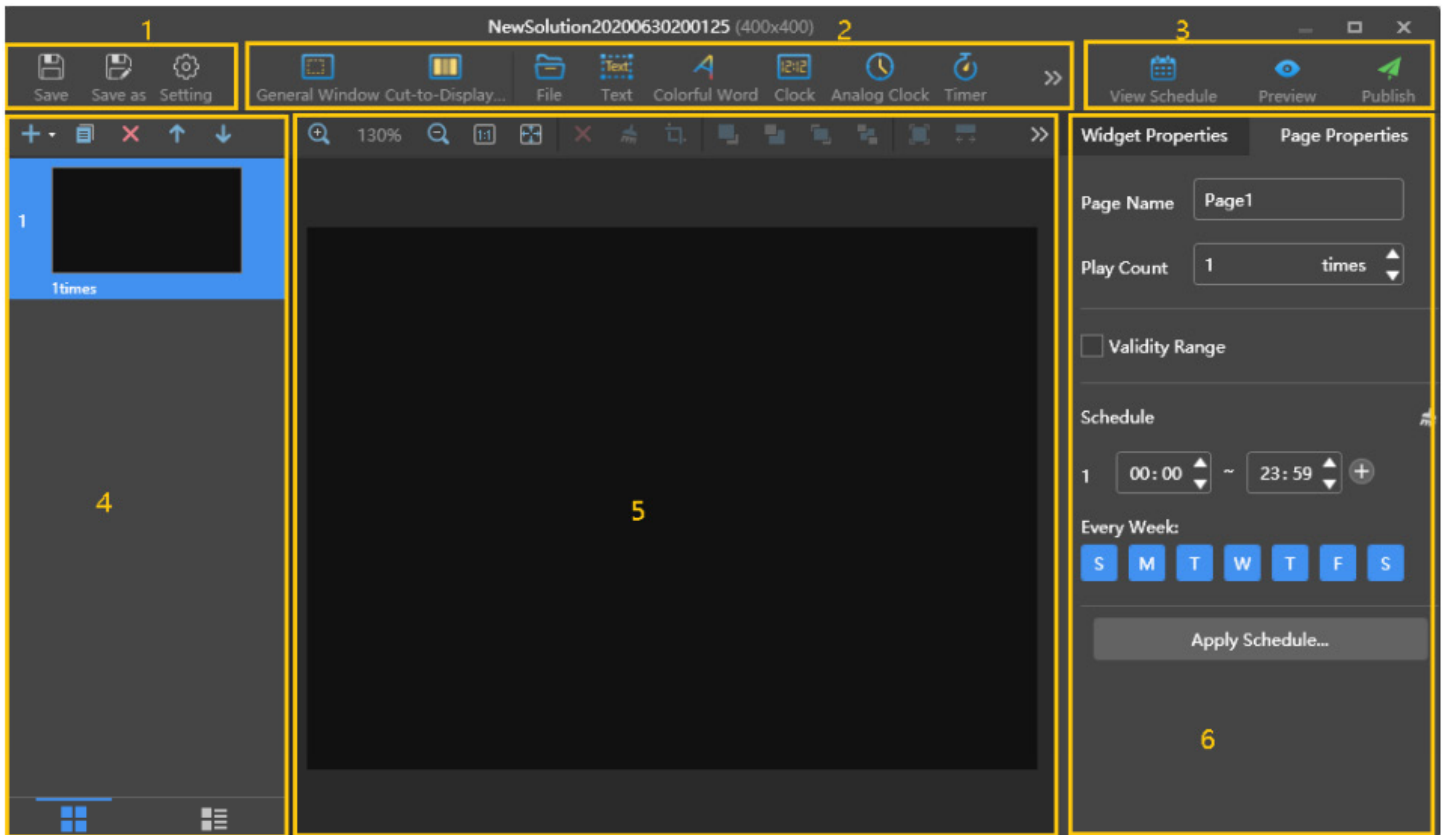
1. In the Solutions tab, click **New** in the top left corner, then click **Regular Screen**.
2. Name the playlist and select the unit from the terminal list.
3. Click OK. The Solution Information dialog box appears.
4. Enter the dimensions for the solution and then click OK.

Display	Width	Height
Different content on each side of the unit	256 px	320 px
To stretch content across all three sides	768 px	320 px

You can also set a resolution by clicking **Specify Terminal** and the resolution will be the same as the resolution of the terminal you select.



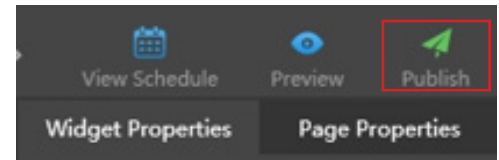
After clicking OK, the Solution Editing page opens. From here, you can add content, edit settings, and personalize the solution with widgets and customizations. With the page selected, add content from the + drop down menu in the **Window** menu in the sidebar, or use the tools in the ribbon, shown on the next page.



1	Save the solution, save a new copy of the solution, or edit solution settings.
2	Customize the page by adding media, text, widgets, and more. Click File to insert images or video on the page. NOTE: Image resolution must match solution resolution.
3	Publish the solution, view the solution in Preview mode, or view the scheduled playback of the solution.
4	Add, copy, delete, or reorder the pages in the solution. Use the down arrow next to Add to create or utilize page templates.
5	Page view. Edit and customize the individual page. Arrange content using the alignment tools in the ribbon.
6	Widget Properties: Widgets are the media added to a page. The properties of different types of media vary. Click a widget to select it before editing its properties. Page Properties: Set the name, play count, validity range, and playback schedule of a page. • Play Count: Set the number of times to play a page continuously. • Validity Range: After this option is selected, the Start Date and End Date parameters are displayed. Expired pages will be skipped during solution playback. • Schedule: Allows you to specify the timeslots to play a page and select the days to repeat the playback. If the timeslots of different pages overlap, the pages will be played in order from top to bottom. • Apply Schedule: Allows you to apply the schedule of the current page to other pages. You can select multiple pages and apply a schedule to them at the same time.

PUBLISH SOLUTION

Publish your solution by clicking the green Publish icon. Once published, playlists can be shared to the unit via USB or network connection.



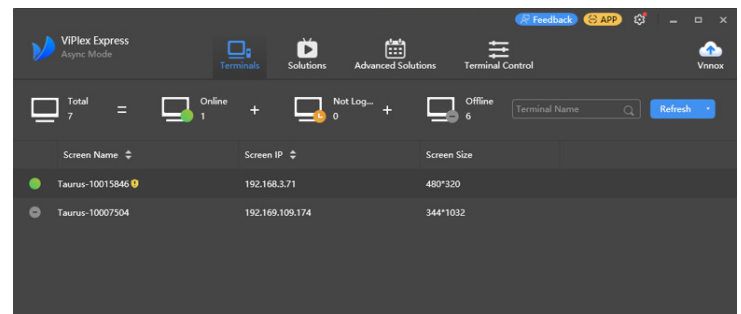
Connect via PC	Connect via Phone
IP Address, Ethernet, or USB	ViPlex Handy mobile app
Create, edit, and publish playlists	Display playlists only

PUBLISH VIA NETWORK CONNECTION

After clicking Publish, the Program Management tab opens.

Select the unit from Terminal Name list. Click **Refresh** if unit does not appear listed right away. Then, click **Publish**.

Connect to the unit's network to play solution (see next page for more).



PUBLISH VIA USB

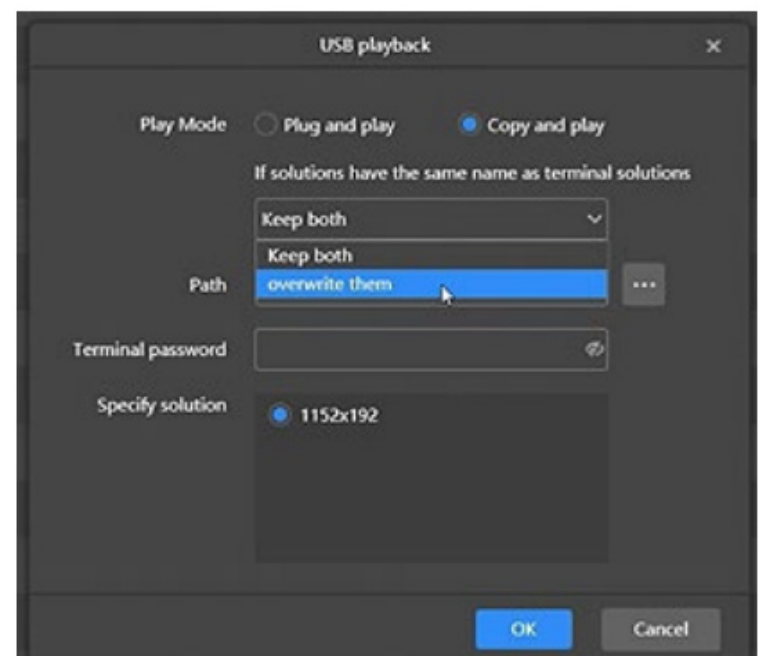
Insert a USB into your PC. In the Program Management tab, select the solution, then click **Export** to open the USB Playback window. USB Publishing has 2 options: Copy and Play, and Plug and Play.

- **Copy and Play:** plug USB to copy the playlist to the unit. The playlist will loop play with or without USB in. You must select **Overwrite** for this option
- **Plug and Play:** Plug USB to play; remove USB to stop.

2. In Path, select your USB in the file browser pop up window. Click **OK**.

3. In terminal password, enter the unit password (see Wi-Fi information sticker).

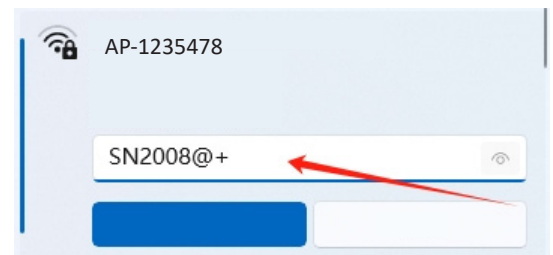
4. Click **OK** to finish publishing to USB.



Unit Connection Methods

CONNECT WIRELESSLY

1. Open Wi-Fi settings on your PC and connect to the unit's IP address. The unit's IP address and password can be found on the Wi-Fi information sticker.



CONNECT VIA ETHERNET

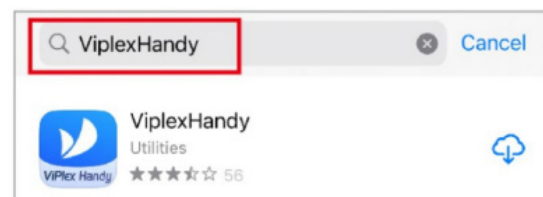
Insert Ethernet cable into Ethernet (RJ45) port of unit, then connect Ethernet to PC.

CONNECT VIA USB

Publish solution to USB in ViPlex Express (see previous page for instructions). Then, insert the USB into USB port of unit. The solution plays automatically.

CONNECT VIA MOBILE PHONE

The ViPlexHandy mobile app allows you to display solutions you've created in ViPlex Express. To download the app to your mobile phone, scan the QR code below or search ViPlexHandy in your app store. Or, download from the official website: www.novastar.tech/download/download.html?catid=7.



1. Disconnect PC and other devices before connecting on mobile app.
2. Open your phone's Wi-Fi settings on the phone and connect to the unit's IP address using the credentials found on the Wi-Fi information sticker.

REFERENCE

Technical Specifications

PANEL	Light Source	SMD GOB
	Pixel Pitch	2.5mm
	Resolution	Single Screen: 256 x 320
		Three-Screen: 768 x 320
	Brightness	500 nits
	Contrast	3000: 1
	Response	15ms
	Pixel Pitch	2.5mm
	Refresh Rate	≥1920 Hz
	Viewing Angle	160° / 140°
	Color Saturation	8 bit
	Viewable Area	Single Screen: 640 x 800
		Three-Screen: 1920 x 800
POWER SUPPLY	Chromaticness	RGB
	Voltage	90-132V, 60Hz
	Avg. Power Consumption	≤400W
ENVIRONMENT	Operating Temperature	32°F - 104°F (0~40°C)
	Storage Temperature	-4°F ~ 140°F (-20~60°C)
	Operating Humidity	20~80% RH Non-condensing
	Storage Humidity	10~60% RH Non-condensing
	Maximum Operating Time	24 hours /7 day
FUNCTIONS	Operating System	NovaStar
	Processor	Nova Star T2
	RAM	1GB
	ROM	32GB
	Decoding Resolution	1080P
	Touch Support	No touch
	Supported Video Files	MPEG2, MPEG4, H.264, RMVB, AVI, MPEG1, XVID, MP4, MKV, FLV, WMV, MOV, DAT, TS, M2TS, VC-1
	Supported Image Files	JPG, JPEG, BMP, PNG, GIF
	Supported Audio Files	MP3
	Speakers	2x 8W

FUNCTIONS	Weather Rating	Indoor Use Only
	Bluetooth	N/A
	Wi-Fi Frequency	2.4Ghz
I/O INTERFACES	Wi-Fi	External x1
	Ethernet (RJ45)	RJ45 x1
	HDMI IN	HDMI IN x1, HDMI OUT x1
	VGA	N/A
	Headset	N/A
	USB	USB 3.0 x1
	TF	N/A
	SIM	N/A
STRUCTURE	Net Weight	189.2 lbs
	Package Weight	331 lbs
	Unit Dimensions	25.9"W x 44.3"H x 7.48"D
	Package Dimensions	25.6"W x 25.6"D x 38.3"H
	Shell Material	Metal, Steel, Aluminum, Plastic
	Shell Color	Black
LANGUAGE	OSD	English

Cleaning and Maintenance

- **Cleaning Kit:** Use the gloves when moving or handling the product to prevent fingerprints. Use the microfiber towel to remove smudges and fingerprints.
- Clean smudges with the microfiber towel before using a screen cleaner.
- If water or additional cleaning solution is necessary, lightly dampen the microfiber towel and squeeze out any excess liquid before wiping down the product.
- Unplug the power cord to prevent the internal short circuit or other potential danger during cleaning or when not used for an extended period of time.
- NEVER use harsh chemicals to clean the device.



All Purpose
Cleaners



Ammonia-Based



Isopropyl Alcohol



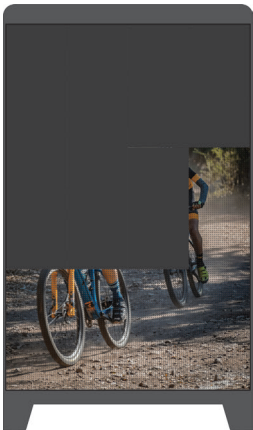
Abrasive
Cleaners



Digital Screen
Cleaner

Troubleshooting Guide

I NOTE: Images shown are for example purposes and may not reflect your product. Do not attempt to replace or repair circuitry yourself. Contact customer service to schedule a professional maintenance appointment.

Entire Screen Is Blank	PROBABLE CAUSE
	• Abnormal electrical power supply of display • Display power not turned on • No video source is switched (synchronous or asynchronous) • Fault on controller or switching power
	SOLUTION • Check Ethernet cable is functioning. • Check power supply and confirm device is powered on. • If problem persists, replace power supply cable. • If problem persists, replace controller.
Blank LED Module	PROBABLE CAUSE
	• Poor module connection • Faulty module
	SOLUTION Contact customer service to schedule a professional maintenance appointment.
Screen is Mostly Blank	PROBABLE CAUSE
	• Poor connection of board power cable • Board input or output signal faulty
	SOLUTION Contact customer service to schedule a professional maintenance appointment.

Screen is Half Blank	PROBABLE CAUSE
	- Faulty power cable connection between switching power supply and module - Faulty switching power supply - Cat5 cable loose between receiving card or faulty Cat5 cable - Faulty receiving card or no power to receiving card
	SOLUTION
	Contact customer service to schedule a professional maintenance appointment.

Color Missing on Module	PROBABLE CAUSE
	- Faulty module - Signal cable fault
	SOLUTION
	Contact customer service to schedule a professional maintenance appointment.

Disordered or Repeating Images	PROBABLE CAUSE
	Setting error
	SOLUTION
	Reload display configuration files.

If all the potential solutions have been tested for a particular issue and problems have not been resolved, contact a customer service representative for guidance.

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Names and Contents of Toxic and Hazardous Substances or Elements in the Product

The table shows that the machine contains harmful substances inside. The data is provided by material suppliers and verified by the company according to the material type. Some materials contain harmful substances that can't be replaced in present technology. We are dedicated to improving this.

O: the content of the toxic and hazardous substances or elements in the part is lower than the limit specified in GB/T 26572-2011 standard.

×: the content of the toxic and hazardous substances or elements in the part is higher than the limit specified in GB/T 26572-2011 standard.

PART NAME	TOXIC AND HAZARDOUS SUBSTANCES OR ELEMENTS					
	Pb	Hg	Cd	Cr ⁶⁺	PBB	PBDE
Display		O	O	O	O	O
Shell	O	O	O	O	×	×
Circuit Board Assembly *		O	O	O	O	O
Wires	O	O	O	O	O	O
Metal Parts	O	O	O	O	O	O
Packaging Materials *	O	O	O	O	O	O
Remote Control		O	O	O	O	O
Speakers		O	O	O	O	O
Accessories *	O	O	O	O	O	O

*: Packaging materials include packaging box, styrofoam, etc.;

*: Circuit board assembly includes PCB and the electronic elements thereof;

*: Other accessories include instruction manual.

The EFUP of the product is ten years. The pollution control label is shown right.



The EFUP is valid only when the user operates in the normal conditions specified in the manual herein.

Waste Electrical and Electronic Products Recycling and Disposal Regulations

To protect the earth, if you do not need this product or its service life expires, please abide by your local Waste Electrical and Electronic Products Recycling and Disposal Regulations or send it to qualified local manufacturer for recycling.

FCC Compliance Notice

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 8 inches (20cm) between the radiator and your body.