



108" dvLED Video Wall

USER MANUAL

SKU: DGV108NVB

V1.3

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 limited 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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INFO@DISPLAYS2GO.COM



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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.

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



CAUTION / PRUDENCE	
RISK OF ELECTRIC SHOCK DO NOT OPEN	RISQUE DE CHOC ÉLECTRIQUE NE PAS OUVRIR



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 immediately.

Avoid the following during installation and operation of the unit:

1. Avoid touching LED modules as much as possible to prevent dislodging LED bulbs.
2. Avoid strong vibration or impact on the product.
3. Keep the product dry to avoid possible damage by moisture.
4. Don't place the product under direct sunlight which may shorten the service life of the screen.



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

The device must be installed, serviced and maintained by a trained professional with necessary safety knowledge and skills. Before you start using the device, please read through this guide carefully and make sure all applicable requirements are met to avoid danger and loss of property.

- 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.
- 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.
- 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.
- Unplug device to disconnect from power.
- Insert the plug into the outlet properly, or else it may cause sparks and fire.

Storage, Transportation, and Use

- Store or use the device in a proper environment that meets environmental requirements, including and not limited to, temperature, humidity, dust, corrosive gases, electromagnetic radiation, etc.
- Make sure the device is securely installed or placed on a flat surface to prevent falling.
- Unless otherwise specified, do not stack devices.
- Ensure good ventilation in the operating environment. Do not cover the vents on the device. Allow adequate space for ventilation.
- Protect the device from liquid of any kind.
- Make sure the power supply provides a stable voltage that meets the power requirements of the device. Make sure the power supply's output power exceeds the total maximum power of all the connected devices.
- Verify that the device is properly installed before connecting it to power.
- Do not remove the seal from the device body without consulting Displays2go first. Do not attempt to service the product yourself. Contact a trained professional for maintenance.
- Always disconnect the device from power before attempting to move the device.

Power Requirements

- Install and use the device in strict accordance with your local electrical safety regulations.
- Use a UL certified power supply that meets LPS requirements if an adapter is used.
- Use the recommended power cords in accordance with the specified ratings.
- Only use the power adapter supplied with your device.
- Use a mains socket outlet with a protective earthing (grounding) connection.
- Ground your device properly if the device is intended to be grounded.
- When battery is used, avoid extremely high or low temperature and air pressure during use, storage and transportation.
- Use the battery properly. Improper use of the battery such as the following may cause risks of fire, explosion or leakage of flammable liquid or gas.
- Do not replace battery with an incorrect type.
- Dispose of the used battery according to your local regulations or the battery manufacturer's instructions. Do not dispose of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery.

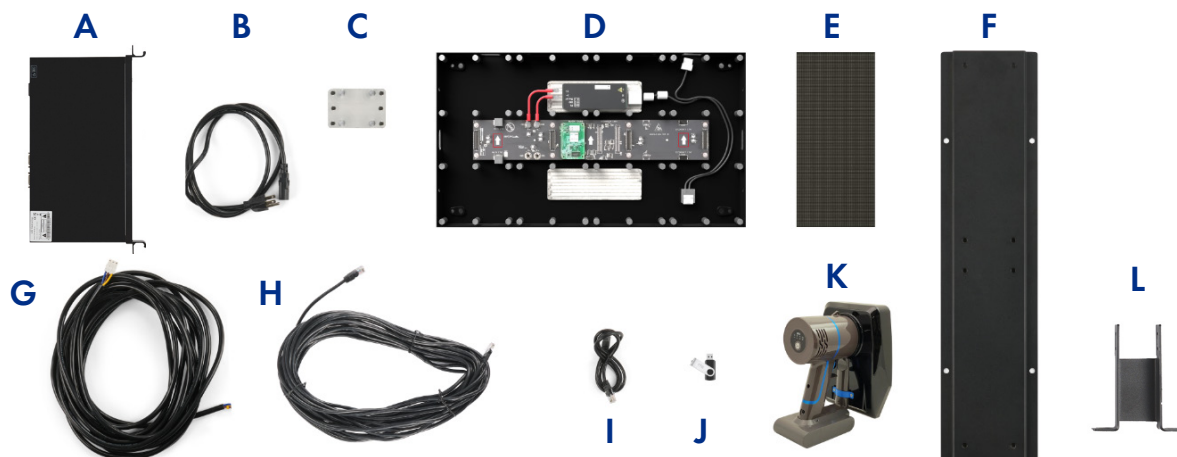
The technical specifications printed herein and on the packaging are subject to change without prior notice. The Manual may be slightly different from actual operation, and the latter is applicable.

*See the **Installation Guide** for details and instructions on installing the LED Video Wall.*

 **NOTE:** PROFESSIONAL INSTALLATION REQUIRED.

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

Packing List



	PART	QTY.
A	Controller	1
B	Controller Power Cable	1
C	Connector	12*
D	LED Cabinet	16
E	LED Module	64
F	Wall Bracket	6*
G	Power Main Cable	4
H	Ethernet Main Cable	1
I	RGB Cable	16
J	USB	1
K	Air Suction tool	1
L	Intermediate Wall Bracket	12

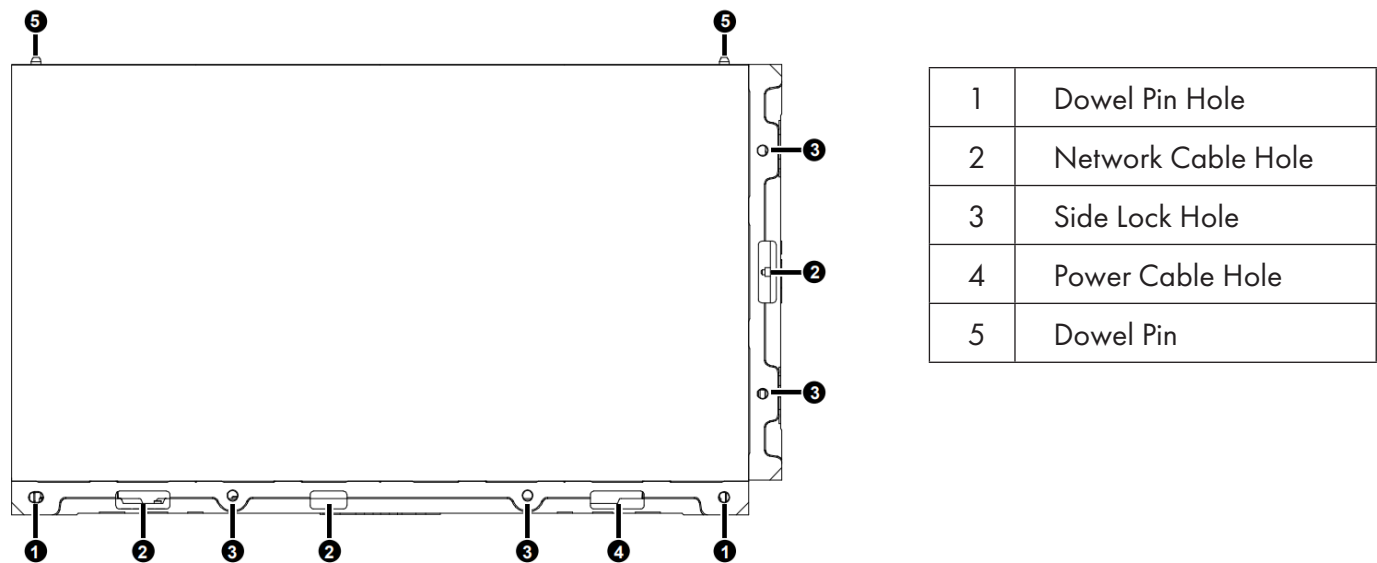
*Quantity includes spare parts.

	HARDWARE	QTY.
M	M8*50 Expansion Screw	32
N	M8*16 Threaded Post (tooth stick)	80
O	M8 Hexagonal cylindrical head screw	80
P	M8*25 Hex Screw	142
Q	M8*12 Hex Screw	34
R	M6*25 Hex Screw	67
S	M6 Nuts	67
T	Self-tapping Screws	36
U	LED Replacement Bulbs	500
V	LED Replacement Bulb Sockets	30

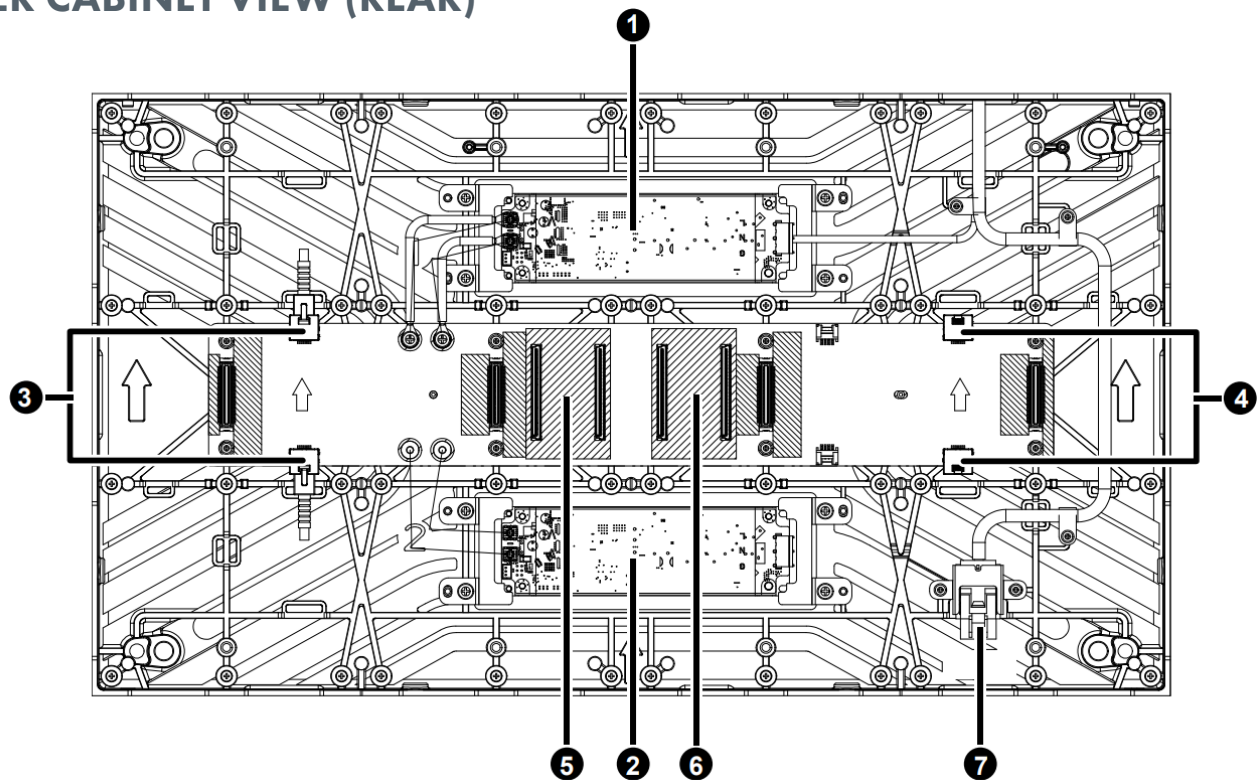
ADDITIONAL TOOLS REQUIRED: Electric drill, tape measure, level.

Product Diagram

FRONT VIEW



INNER CABINET VIEW (REAR)

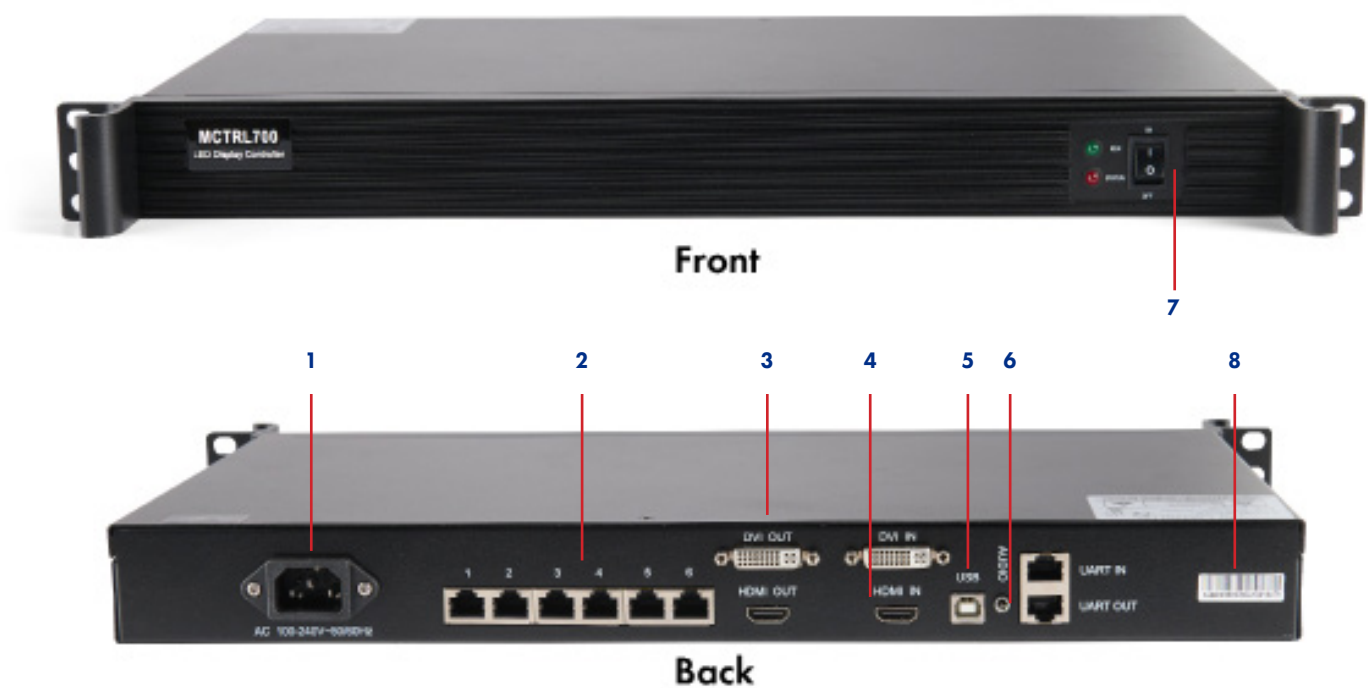


1	Main Power Supply
2	Spare Power Supply (optional)
3	Network Interface
4	Spare Network Interface (optional)

5	LED Video Receiving Card
6	Spare LED Video Receiving Card (optional)
7	Power Interface

OPERATION

Controller Interface Diagram



1	Power Socket
2	Ethernet (optional hardwiring/daisy-chaining)
3	DVI
4	HDMI (optional external media players)

5	USB-B
6	Audio
7	On/Off Switch
8	IP Address Information Sticker

NOTE: Download the ViPlex Express Async Mode User Manual for details on using an external media player with this device. (See next page for details. Not all media players are supported.)

Controller Power

Insert power cord into power socket of controller and use the I/O switch on the controller to turn the video wall on or off.

CAUTION: Disconnect the power plug before assembling, repairing, or disassembling the unit!

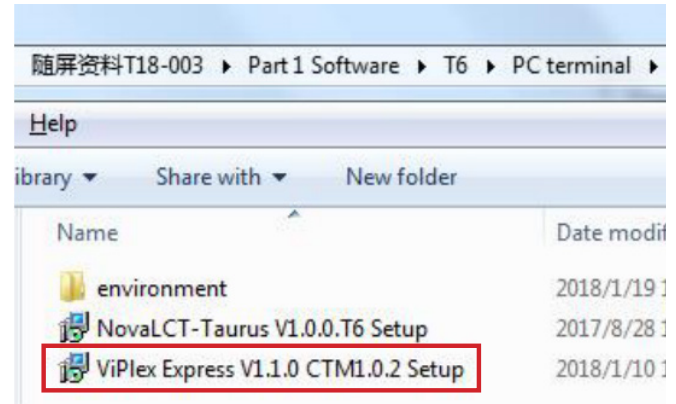
Display Media with ViPlex Express



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 video wall.

DOWNLOAD VIPLEX EXPRESS

1. Insert the included USB into your PC and download ViPlex Express software.
2. Once installed, the software shortcut appears on your desktop. Click to open the software.



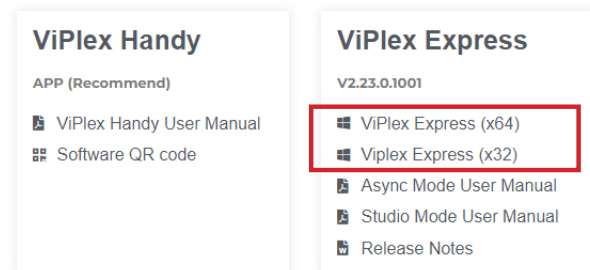
DOWNLOAD VIPLEX EXPRESS ONLINE

If your USB is not readily available, you can also 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 ViPlex Express software. You may also download the Studio Mode User Manual for more details on how to operate the software.



Nova Cloud Software



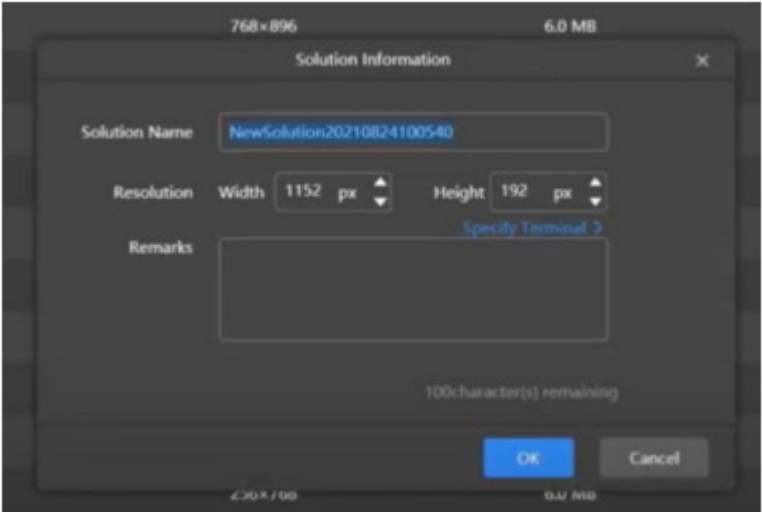
LOG INTO VIPLEX EXPRESS

1. Open ViPlex Express application after powering the LED poster 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.

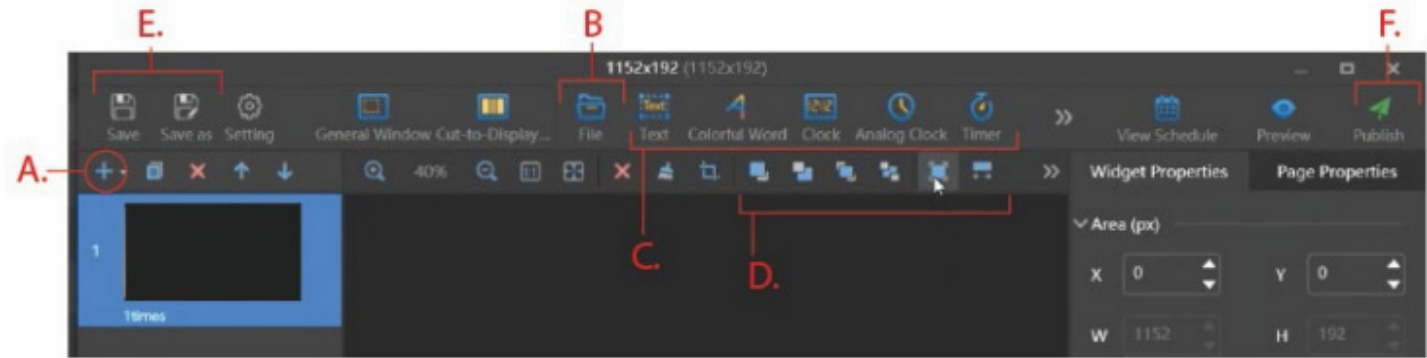
CREATE NEW SOLUTION

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

- 1. In the Solutions tab, click New **New** in the top left corner. Select **Regular Scale**. The Solution Information window appears.
- 2. Name your Solution, then enter the resolution.
Width: **384**
Height: **261**
- 3. Click OK. The Edit Solution window appears.



From here you can add content, edit settings, and personalize the solution with widgets and customizations.



A.	Click [+] to add a page to your solution.
B.	Click File to insert images or video on the page. NOTE: Resolution of image must match Solution resolution.
C.	Customize page by adding text, widgets, and more.
D.	Position image or video on the page using the toolbar.
E	Save progress. All saved playlists appear in the Solutions tab.
F.	Publish solution to unit (see next page for more).

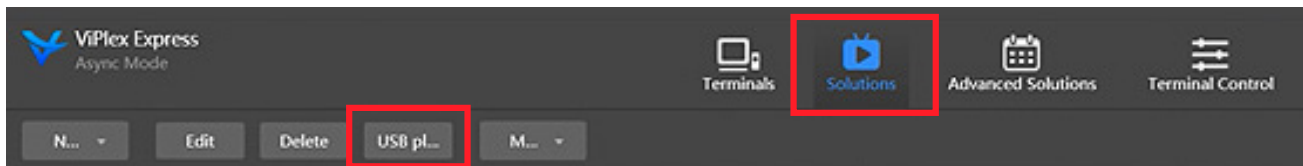
PUBLISH SOLUTION

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



PUBLISH VIA USB

1. Insert a USB into your PC. In ViPlex Express Solutions tab, select solution, then click the USB Playback button to open the USB Playback window.



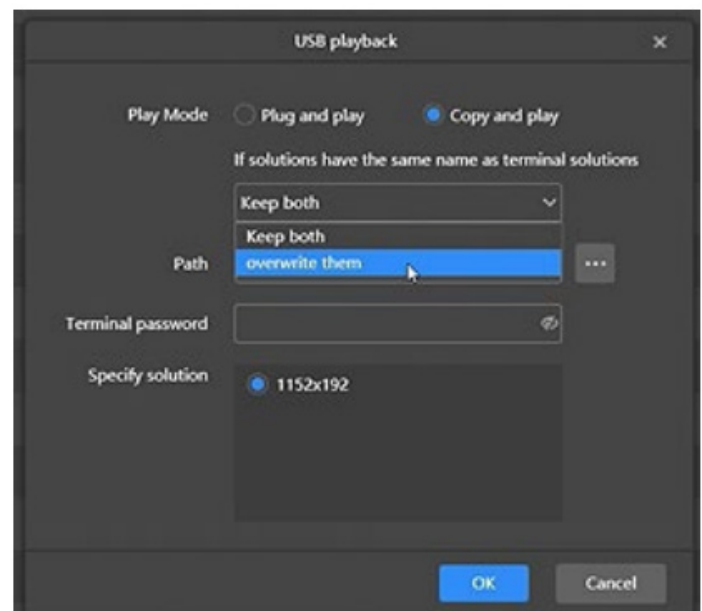
USB Publishing has 2 options: Copy and Play, and Plug and Play.

- **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.

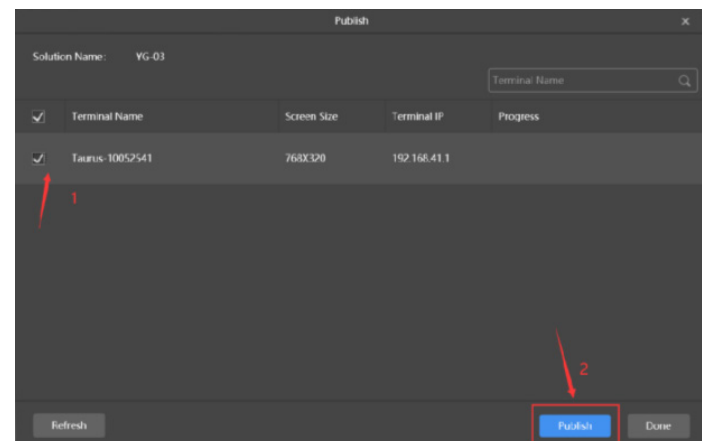


PUBLISH VIA NETWORK CONNECTION

To publish to the unit, click the Publish icon. The Publish window appears.

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

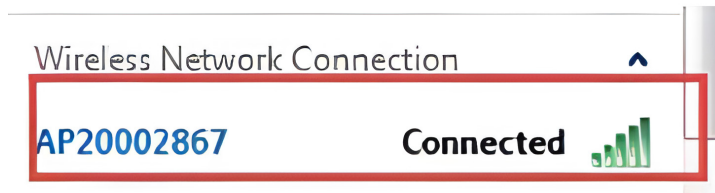
Connect to the unit's network to play solution (see next page for more).



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.

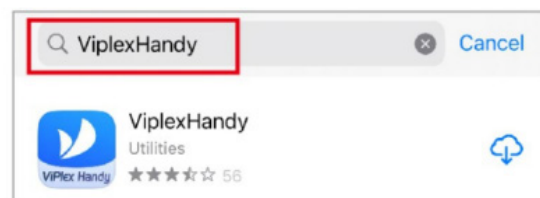


CONNECT VIA ETHERNET

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

CONNECT VIA 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. **Important!** Disconnect PC and other devices from unit's network before connecting on mobile app.
2. Open your phone's Wi-Fi settings and connect to the unit's IP address, using the information found on the Wi-Fi information sticker.

MAINTENANCE

Requirements and Warnings

! NOTE: PROFESSIONAL MAINTENANCE STRONGLY RECOMMENDED. To avoid product failure due to improper operation, please strictly follow the instructions below for safe use and maintenance.

SAFE MAINTENANCE INSTRUCTIONS

- Do not touch the screen to prevent static electricity and damage the screen. Damage caused by artificially generated scratches and impacts is not covered by the warranty. Take protective measures to prevent objects from touching the screen.
- Do not replace display modules yourself. If a module fails and needs replacement, replace the faulty module under the manufacturer's guidance. Damage to modules caused by unauthorized replacement is not covered by the warranty, and the manufacturer will charge for repairs.
- To clean dust on the module surface, disconnect power and use a cold air gun. Do not use a brush or towel to remove dust. If the dust or stain persists, replace the module.
- Do not display high-brightness images such as full white, full red, full green, and full blue for a long time (the brightness level of the sending box must be below 13). It may result in excessive current and power and shorten the lifetime of LED bulbs.

ENVIRONMENTAL REQUIREMENTS

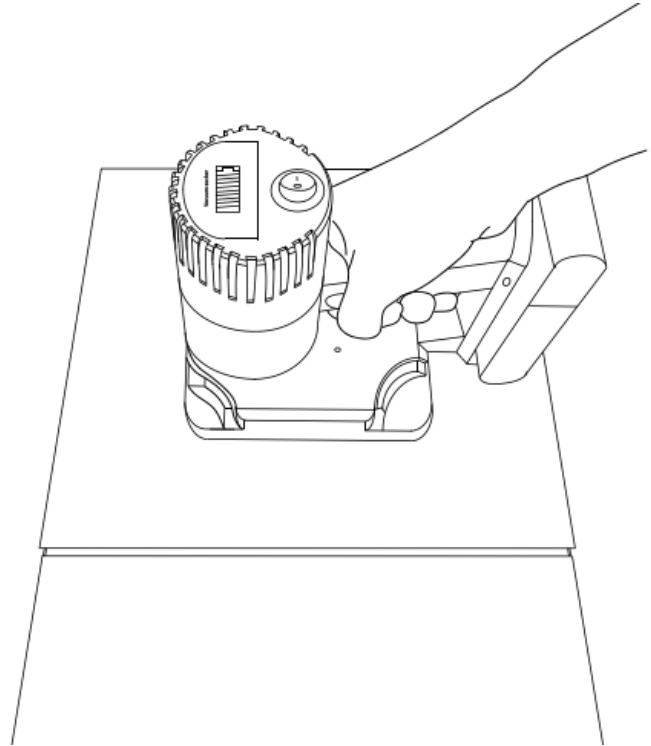
- Store spare parts in proper environmental temperatures and humidity for later maintenance.
- Do not use or store the product in a damp environment for a long time, otherwise the circuit board may be oxidized and corroded, resulting in product failure.
- The ideal operating temperature is 12°C to 32°C and the ideal relative humidity is 25% to 75% without condensing. Use a dehumidifier if necessary.
- Keep the maintenance channel well-ventilated. Keep the product at a distance of around 3m from the air conditioning.
- Prevent objects from touching the screen except for professional installation.
- Keep the product away from any flammable and explosive objects.
- In an environment where the temperature and humidity meet the requirements, ensure that the product is used at least once every half month and more than 8 hours each time.
- In a humid environment, make sure that the product is used for more than 2 hours a day. Before displaying images, power on the product for about 30 minutes (black screen state) until the moisture inside the product evaporates.
- In rainy weather or at night, close all doors and windows to prevent damage to product caused by moisture.

SCREEN MAINTENANCE

- The maintenance of the product should be carried out by professionals.
- Always wear ESD gloves when touching the LED modules and LED cabinet interior.
- Regularly check the interior of the product for loose or broken cables, accumulated dust, or other situations and resolve promptly.
- Be sure to disconnect power before module replacement or maintenance.
- Regularly conduct safety inspections on the distribution box to prevent electrical failures caused by short circuits.

FRONT MAINTENANCE

Use the air suction tool to remove modules for maintenance. Do not pull out by hands.



RECEIVING CARD UPGRADE

Do not disconnect power when the receiving card is being upgraded, otherwise the product may encounter startup and upgrade failures. If a power failure occurs during the upgrade, be sure to return the receiving card to the manufacturer for repair.

RECEIVING CARD REPLACEMENT

The control PC of the product shall be operated by professionals trained by the manufacturer. Disconnect power when replacing the receiving card. Frequently check the PC for viruses or other malfunctions.

REFERENCE

Technical Specifications

PANEL	LED Size	600mm×337.5mm×27.2mm
	Module Size	150mm×337.5mm
	Pixel Pitch	1.8mm
	Resolution	320*180
	Brightness	600 nit
	Contrast	≥4000:1
	Response	≤0.1
	Refresh Rate	3840
	Viewing Angle	160°/140°
	Color Temperature (K)	3000K~10000K adjustable
	Viewable Area	0.2025 m²
POWER SUPPLY	Voltage	AC 100 to 240V, 50/60Hz
	Average Power Consumption	≤240 (W/m²)
	Max. Power Consumption	≤544 (W/m²)
ENVIRONMENT	Operating temperature	-10~40(14°F~104°F)
	Storage temperature	-10~55(14°F~131°F)
	Operating humidity	10~85%RH
	Storage humidity	10~90%RH
	Maximum operating time	100000H
FUNCTIONS	Operating system	NovaLCT
	Speakers/Watts	N/A
	Software	ViPlex Express
	Processor	NovaStar
	Decoding resolution	Dependent on processor
	Touch support	No
	Supported Video Files	MP4
	Supported Photo Files	PNG/ JPG /BMP
I/O INTERFACES	HDMI IN	1
	HDMI OUT	1
	USB 3.0	1
	Audio OUT	1
	LED OUT	2

I/O INTERFACES	Ethernet (RJ45)	1
	Wi-Fi	1
	SIM	1
STRUCTURE	Net Weight	192 lbs (87kg)
	Gross Weight	230.4 lbs (104kg)
	Unit Dimensions	96.4" x 48.72" x 2.5"
	Package Weight	265lbs (120kg)
	Package Dimensions	≈ 59" x 29" x 41"
	Shell Material	Die-cast aluminum
	Shell Color	Black

Troubleshooting Guide

ISSUE	PROBABLE CAUSE	SOLUTION
SCREEN IS OFF AFTER STARTUP	- The DVI cable is plugged in improperly. - Graphics card is set incorrectly.	Check whether the indicator on the sending card blinks. - If no, check whether the DVI cable is plugged in properly and whether the graphics card is configured correctly. - If yes, check whether the network cable between the receiving card and the display is plugged in properly and whether the network cable is damaged.
IMAGES ON THE SCREEN ARE BLURRY AND UNSTABLE	The loading program file on the receiving card is corrupted.	Resend the loading program file.
SCREEN IMAGES ARE OUT OF ORDER	The connection program file on the receiving card is damaged.	Resend the connection program file in the player software.
A CABINET AND ALL THE SUBSEQUENT CABINETS SHOW A BLACK SCREEN	- Network cable of cabinet is plugged in improperly. - HUB card is faulty.	Take cabinet 5 as an example: Check whether the indicator of the receiving card in cabinet 5 blinks. - If no, check the network cable between cabinet 4 and cabinet 5, the output of receiving card in cabinet 4 and the input of receiving card in cabinet 5. - If yes, check the receiving card in cabinet 5 and the HUB card.
MODULE DISPLAYS ABNORMALLY OR IS OFF	- Module is improperly installed. - Module is faulty.	- Check if the module is installed properly. - Check if the output of the previous module of this module is normal. - Check if the module is faulty.
PARTS MISSING OR DAMAGED	- Parts are missing from product. - Parts are damaged by operator.	- Contact a customer service representative for parts missed during manufacturing (no charge for replacements). - Contact a customer service representative for parts lost or damaged by the customer (charge for replacements).

! **NOTE:** Professional maintenance strongly recommended! Do not attempt to replace or repair circuitry yourself. Contact customer service to schedule a professional maintenance appointment.

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. Call **844-221-3393** or email **info@displays2go.com**

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
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 manuals.

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.