# AV2X User Guide





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#### **FCC STATEMENT**

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 RADIO FREQUENCY INTERFERENCE WARNINGS & INSTRUCTIONS

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

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

#### Energy Saving Matters (EuP 2009/125/EC)

Saving electric energy is a key to help protecting the environment. Please turn off all electrical products when they are not in use. To avoid power consumption in idle mode, disconnect all electrical equipment from power when not in use. Thank you!

Document Version: An updated version of this document may be available online. Please check www.adj.com for the latest revision/update of this document before beginning installation and use.

Date	Document Version	Notes
05/13/19	1	Initial release

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## **GENERAL INFORMATION**

With a brightness of 1000 NITS and a 2.97mm pixel pitch, the AV2X is a cost effective, bright, high-resolution video panel designed for indoor use. Although the 3-in-1 RGB SMD2121 LEDs create an impressive brightness of 1000 NITS, with its 0-100% adjustable brightness, the intensity of the screen can be reduced for all indoor applications. The 2.97mm pixel pitch translates to 168 x 168 LEDs, equivalent to 112,896 dot/m2, with a wide viewing angle of 160°. Each AV2X LED Video Panel is composed of 4 modular LED panels, which allows for easier serviceability. Additionally, the AV2X LED Video Panels can connect horizontally for curved-in or curved-out screen surfaces (convex/concave ±5°).

With multiple panels linked to mains power, the AV2X LED video panel has a maximum power consumption of 115W per panel, an average consumption of 35W per panel, and each panel is fitted with a powerCON input and output socket allowing the power supply for multiple panels to be linked. Locking etherCON input and output sockets are also provided for each panel, allowing the signal data to daisy-chain across each panel to make up a larger screen. Using ADJ's range of video processors with the internal 14-bit NovaStar data receiving card, multiple panels can be linked using standard Ethernet cables.

ADJ offers a number of video processors that can be used to convert a standard video signal (HDMI, DVI, VGA etc.) for use with the AV Series LED panels. These processors range from the basic and cost effective MCTRL-300 that can drive up to 1.3 million pixels (up to 11 AV2X panels,), to the advanced Novastar VX4S that can drive up to 2.6 million pixels (up to 23 AV2X panels) with multiple cascades to create unlimited size screens.

The AV2X is a great video solution for your show, and ADJ offers full packages with video processors, software, cabling, rigging bars, and flight cases so that you have everything you need to get up and running.

## LIMITED WARRANTY

- A. ADJ Products, LLC hereby warrants, to the original purchaser, ADJ Products, LLC products to be free of manufacturing defects in material and workmanship for a prescribed period from the date of purchase (see specific warranty period on reverse). This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.
- B. For warranty service, you must obtain a Return Authorization number (RA#) before sending the product back—please contact ADJ Products, LLC Service Department at 800-322-6337. Send the product only to the ADJ Products, LLC factory. All shipping charges must be prepaid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, ADJ Products, LLC will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package and packaging material. No accessories should be shipped with the product. If any accessories are shipped with the product, ADJ Products, LLC shall incur no liability whatsoever for loss of or damage to any such accessories, nor for the safe return thereof.
- C. This warranty is void if the product serial number and/or labels are altered or removed; if the product is modified in any manner which ADJ Products, LLC concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the ADJ Products, LLC factory unless prior written authorization was issued to purchaser by ADJ Products, LLC; if the product is damaged because it was not properly maintained as set forth in the product instructions, guidelines and/or user manual.
- D. This is not a service contract, and this warranty does not include maintenance, cleaning, or periodic checkup. During the period specified above. ADJ Products, LLC will replace defective parts at its expense with new or refurbished parts. and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of ADJ Products, LLC under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of ADJ Products, LLC. All products covered by this warranty were manufactured after August 15, 2012, and bear identifying marks to that effect.
- E. ADJ Products, LLC reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.
- F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by ADJ Products, LLC in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And all warranties, whether expressed or implied, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. The consumer's and/or dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall ADJ Product, LLC be liable for any loss and/or damage, direct and/or consequential arising out of the use of, and/or inability to use this product.
- G. This warranty is the only written warranty applicable to ADJ Products, LLC products, and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

#### MANUFACTURER'S LIMITED WARRANTY PERIODS:

Non-LED Lighting Products = 1-Year (365 Days) (Including Special Effect Lighting, Intelligent Lighting, UV lighting, Strobes, Fog Machines, Bubble Machines, Mirror Balls, Par Cans, Trussing, Lighting Stands, Power/Data Distribution, etc. excluding LED and lamps)

Laser Products = 1-Year (365 Days) (excluding laser diodes which have a 6-Month Limited Warranty)

LED Products = 2-Year (730 Days) (excluding batteries which have a 180 Day Limited Warranty) NOTE: 2-Year (730 Days) Limited Warranty ONLY applies to product purchased within the United States.

StarTec Series = 1-Year (365 Days) (excluding batteries which have a 180 Day Limited Warranty)

**ADJ DMX Controllers = 2 Year (730 Days)** 

American Audio Products = 1 Year (365 Days)

#### CUSTOMER SUPPORT INFORMATION

Contact ADJ Service for any product related service and support needs. Also visit forums.adj.com with questions, comments or suggestions.

ADJ SERVICE USA - Monday - Friday 8:00am to 4:30pm PST

323-582-2650 | Fax: 323-832-2941 | support@adj.com

ADJ SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET

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## **SAFETY GUIDELINES**

This panel is a sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow all instructions and guidelines in this manual. ADJ is not responsible for injury and/or damages resulting from the misuse of this panel due to the disregard of the information printed in this manual. Only qualified and/or certified personnel should perform the installation of this panel and all included and/or rigging accessories. Only the original included rigging parts and/or rigging accessories for this panel should be used for proper installation. Any modifications to the panel, included and/or rigging accessories will void the original manufactures warranty and increase the risk of damage and/or personal injury.



#### PROTECTION CLASS 1 - PANEL MUST BE PROPERLY GROUNDED

THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS PANEL.



DO NOT ATTEMPT ANY REPAIRS YOURSELF; DOING SO WILL VOID YOUR MANUFACTURES WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS PANEL AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURES WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS. DO NOT PLUG PANEL INTO A DIMMER PACK! NEVER OPEN THIS PANEL WHILE IN USE! UNPLUG POWER BEFORE SERVICING PANEL! NEVER TOUCH FRONT OF PANEL DURING OPERATION, AS IT MAY BE HOT! KEEP FLAMMABLE MATERIALS AWAY FROM PANEL.



INDOOR / DRY LOCATIONS USE ONLY!
DO NOT EXPOSE PANEL TO RAIN AND/OR MOISTURE!
DO NOT SPILL WATER AND/OR LIQUIDS ON OR INTO THE PANEL!

**DO NOT** touch panel housing during operation. Turn OFF power and allow approximately 15 minutes for panel to cool down before serving.

**DO NOT:** Operate a panel if any cover is open and/or removed.

**DO NOT** shake panel, avoid brute force when installing and/or operating panel.

**DO NOT:** Expose any part of the panel to open flame or smoke. Keep panel away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

**DO NOT:** Install/use panel in extreme hot/humid environments, or handle without ESD precautions.

**DO NOT:** Exceed an operation temperature of 40°C (104°F), doing so will damage the panel.

**DO NOT** operate panel if power cord is frayed, crimped, damaged and/or if any of the power cord connectors are damaged and do not insert into the panel securely with ease. **NEVER** force a power cord connector into the panel. If the power cord or any of its connectors are damaged, replace it immediately with a new one of similar power rating.

**DO NOT** block air ventilation slots/vents. All fan and air inlets must remain clean and never blocked. Allow approximately 6" (15cm) between panel and other devices or a wall for proper cooling.

**ALWAYS** disconnect panel from main power source before performing any type of service and/or cleaning procedure. Only handle the power cord by the plug end, never pull out the plug by tugging the wire portion of the cord.

## **SAFETY GUIDELINES**

**ONLY** use the original packaging materials and/or case to transport the panel in for service.

**PLEASE** recycle shipping boxes and packaging whenever possible.

**CAUTION:** To avoid physical damage, read the installation instructions carefully before installation.

**CAUTION:** Panels should only be installed/operated by qualified and trained professionals ONLY.

**CAUTION:** Always mount panels in a safe and stable manner.

**CAUTION:** INDOOR / DRY location use ONLY! Outdoor use will void the warranty.

**CAUTION**: Wear appropriate safety equipment during panel installation.

**CAUTION:** Turn OFF power to panel, computers, servers, system boxes, and monitors before making any type of power or data connections and performing any maintenance work.

**CAUTION:** Read user manual carefully to ensure normal operation and lifespan of the panel.

**CAUTION:** Electronics used in this panel are ESD (Electrostatic Discharge) sensitive. To protect device from ESD, wear a grounded ESD wrist strap or similar grounding device when handling panel.

**CAUTION:** Panel must be properly grounded before operating. (resistance must be less than  $4\Omega$ )

**CAUTION:** Ensure all power is disconnected from panel before unplugging any data cables from the panel, especially serial line ports.

**CAUTION:** Route power and data cables so that they are NOT likely to be walked on or pinched.

**CAUTION:** Air conditioning is required if operating environment temperature exceeds 30°C (86°F).

**CAUTION:** Test panel for 2-hours per week, if not used regularly or for an extended period of time.

**CAUTION:** Cases used to transport panel must me properly waterproofed for transportation.

## **MAINTENANCE GUIDELINES**

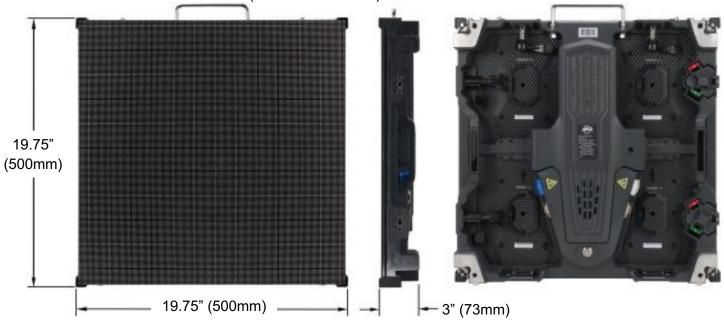
Careful and regular maintenance is necessary to optimize the potential functional lifespan of the AV2X LED Video Panels.

- 1. Read the installation and operation instructions for correct operation of the AV2X LED Video Panels.
- 2. Although the AV2X LED Video Panels are designed and built to withstand some impact forces when installed correctly, take care to avoid impact damage when handling or transporting them, especially corners and edges, which are particularly frangible during transportation.
- 3. The fixture should be serviced by a qualified service technician when:
  - A. Objects have fallen, or liquid has been spilled into the fixture
  - B. The fixture has been exposed to rain or water conditions in excess of IP rating parameters (IP20 front and rear)
  - C. The fixture does not appear to operate normally or exhibits a marked change in performance
  - D. The fixture has fallen and/or subjected to extreme handling.
- 4. Check each AV2X LED Video Panel for loose screws and other fasteners.
- 5. If the AV2X LED Video Panel installation is fixed or displayed for a lengthy time, regularly inspect all rigging and installation equipment, and replace or repair it as necessary, and during long periods of non-use, disconnect the main power to the unit.
- 6. Use necessary ESD (electrostatic discharge) precautions when handling AV2X LED Video Panels, especially the LED screens, as they are ESD sensitive and easily damaged from ESD exposure.
- 7. The Null Line and Live Line connections from the computer and control system cannot be reversed and should therefore only be connected in original layout order.
- 8. If the GFI (Ground Fault Interrupt) breaker-switch trips often, check the display or replace the power-supply switch.
- 9. When operating the AV2X LED Video Panels, power the computer before powering the LED Video Screens; conversely, when shutting down after operation, turn the LED Video Panels off before turning off the computer. If the PC is turned off first, a high intensity brightness might appear, causing catastrophic failure to those LEDs.
- 10. If while conducting an electrical test a circuit shorts, a breaker-switch trips, wires burn, and or any other abnormality appears, discontinue testing and troubleshoot units to find the problem before continuing with any testing or operation.
- 11. To ensure consistent operation, it might be necessary to learn operating parameters for installation, data recovery, backup, controller settings, and basic data preset modification.
- 12. Regularly check computer for any viruses and remove any irrelevant data.
- 13. Only a qualified technician should operate software system.
- 14. Remove any moisture found inside or outside of any AV2X LED Video Panels before dismantling video installation and returning them to their optional flight cases (sold separately). Ensure flight cases are free of any moisture, using a fan to dry them if necessary, and avoid ESD generating friction when returning AV2X LED Video Panels.
- 15. The AV2X LED Video Panels are designed for indoor use only, within its IP20 rating parameters (front / rear), limit or remove any unit exposed to moisture, condensation, or humidity, and consider using air conditioning where available.
- 16. When not in use, store AV2X LED Video Panels in a dry, well ventilated facility.

## **PANEL OVERVIEW**

Each AV2X LED Video Panel includes a quick-release power supply with 4X receiver card modules, allowing for easy serviceability and simple repairs whilst out on the road. The cover of the power supply box can be secured to protect all internal accessories and components.

**Dimensions:** 19.75" x 19.75" x 3" (500x500x100mm)

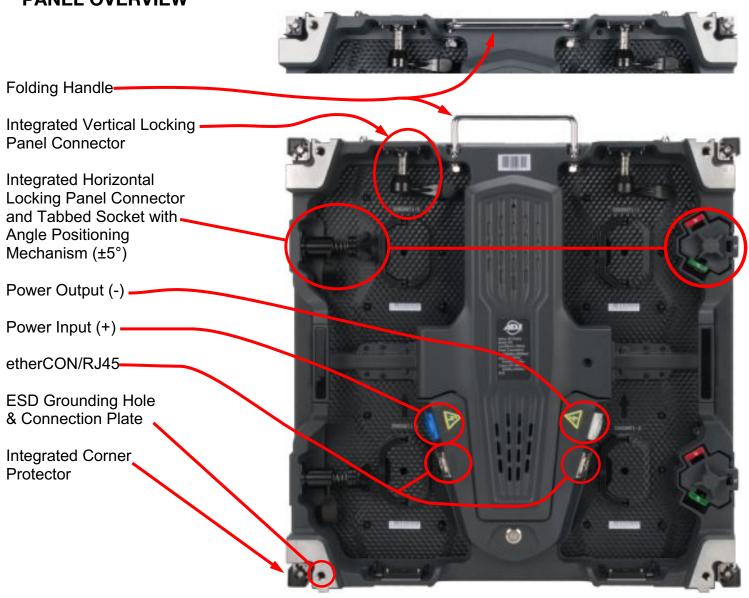


AV2X: Front, Side, & Back View



AV2X: Module

## **PANEL OVERVIEW**

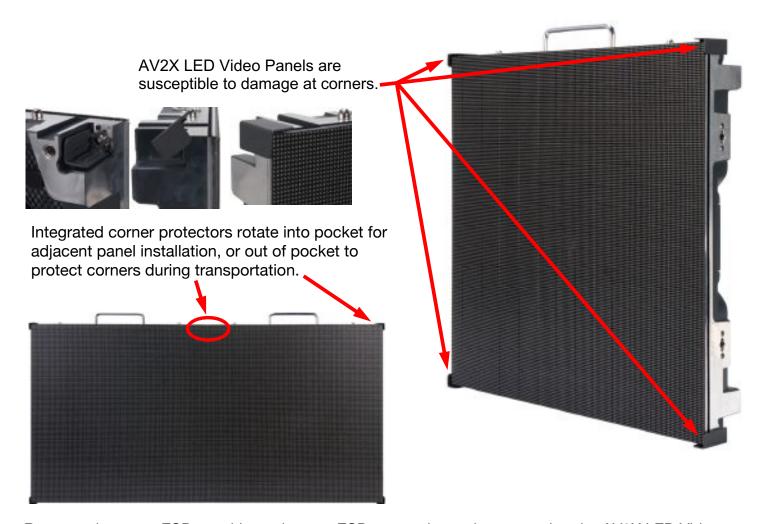


**AV2X Overview** 



## HANDLING AND TRANSPORTATION

The corners of the AV2X LED Video Panel are susceptible to damage during handling and transportation. When removing AV2X LED Video Panels from their respective Flight Cases (AV2FC sold separately), and before they are installed, take care to avoid damaging any of the 4 corners.



Because these are ESD sensitive units, use ESD precautions when removing the AV2X LED Video Panels from their flight case (ESD gloves, protective clothing, wrist straps, etc.). In addition to using standard ESD precautions, to reduce static building friction, take care to lift the panels without rubbing the LED panel surface along the foam-covered slots, which can generate static electricity that can damage LEDs on AV2X Panel.

## HANDLING AND TRANSPORTATION

The optional AV2FC Flight Case (sold separately) for the AV2X LED video panels holds 8x AV2Xs. The flight case features a full foam lining with slots for each unit. The case is robust, so will completely protect a set of panels on the road. Designed specifically for use with AV2X LED video panels, it is constructed from 9mm plywood and fitted with steel ball corners, aluminum edging, large swivel castors, professional butterfly latches, four sprung handles, and a hinged lid.



AV2FC Flight Case

## **INSTALLATION**



DO NOT INSTALL THE PANEL IF YOU ARE NOT QUALIFIED TO DO SO! INSTALLATION BY QUALIFIED TECHNICIANS ONLY!



INSTALLATIONS SHOULD BE CHECKED BY A QUALIFIED PERSON ONCE A YEAR!



#### FLAMMABLE MATERIAL WARNING

Keep panel minimum 5.0 feet (1.5m) away from flammable materials and/or pyrotechnics.



#### **ELECTRICAL CONNECTIONS**

A qualified electrician should be used for all electrical connections and/or installations.



A MAXIMUM OF 20 panels may be suspended from each other vertically in a curtain. An unlimited number of panels may be installed horizontally. (NOTE: Additional processing may be necessary)



USE CAUTION WHEN POWER LINKING MULTIPLE PANELS AS THE POWER CONSUMPTION OF OTHER PANEL MODELS MAY EXCEED THE MAX POWER OUTPUT ON THIS PANEL. CHECK SILK SCREEN FOR MAX AMPS.

Input Power	AC 100-240VAC, 50/60HZ, 16A Max		
Output Power	AC 100-240VAC, 50/60Hz, 14.5A Max		
Max Power	120W Max, 48W Average		
Consumption			

**WARNING!** The safety and suitability of any lifting equipment, installation location/platform, anchoring/rigging/mounting method and hardware, and electrical installation is the sole responsibility of the installer.

Panel(s) and all panel accessories and all anchoring/rigging/mounting hardware **MUST** be installed following all local, national, and country commercial electrical and construction codes and regulations.

Before rigging/mounting a single panel or multiple interconnected panels to any metal truss/structure, a professional equipment installer **MUST** be consulted to determine if the metal truss/structure or surface is properly certified to safely hold the combined weight of the panels(s), clamps, cables, and all accessories.

Inspect metal truss/structure visually to ensure it does not flex and/or become deformed due to the weight of the panel(s). Damage caused to panel(s) by mechanical stress is not covered by warranty.

Panel(s) should be installed in areas outside walking paths, seating areas, or away from areas were unauthorized personnel might reach the panel(s) by hand. Access under work area must be blocked.

**NEVER** stand directly below the panel(s) when rigging, removing or servicing.

#### **OVERHEAD RIGGING**

Overhead fixture installation must always be secured with a secondary safety attachment, such as an appropriately rated safety cable. Overhead rigging requires extensive experience, including amongst others calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury and property damage.

## **Horizontal Panel Assembly**



To select panel surface angle, unlock the adjustable horizontal tab-keyed connector socket by rotating knob counterclockwise.



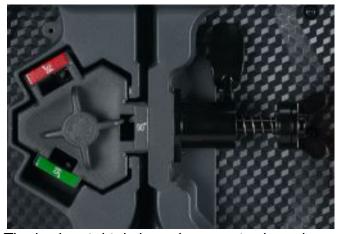
Remove Adjustable horizontal tab-keyed connector socket assembly.



Rotate assembly to desired panel surface angle and re-insert it.



Twist and tighten the knob to the right (clockwise) to lock the horizontal tab-keyed connector assembly.



The horizontal tab-keyed connector is spring loaded.

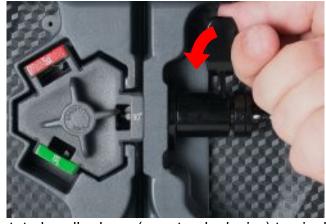


Press the horizontal tab-keyed connector until its tab-key passes through tab-keyed socket.

**Horizontal Panel Assembly** 



Rotate the handle to the right (clockwise) to hold the horizontal tab-keyed connector in place.

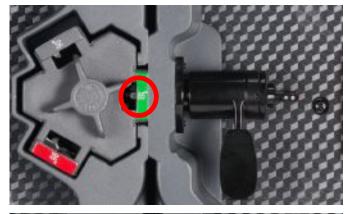


Rotate handle down (counterclockwise) to cinch horizontal tab-keyed connector.



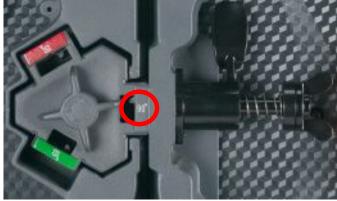
To unlock, rotate handle (clockwise), releasing tension of horizontal tab-keyed connector cinching mechanism.

# Flat, Concave, and Convex Panel Assembly

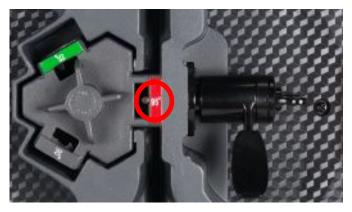




Use the 85° setting for +5° Convex Screen



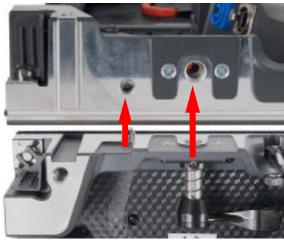
Use the 90° setting for Flat Screen



Use the 95° setting for -5° Concave Screen



#### **Vertical Panel Assembly**



Align the vertical positional posts with their corresponding alignment holes.



The vertical connector will snap into place when the latch snaps back to lock connector.



To unlock the vertical connector, rotate lever to the right (counter-clockwise).



Once latch is released, the vertical connector will snap open.



The vertical tab-keyed connector is spring loaded. Press locking latch lever while pressing vertical key-tabbed connector into matching tab-keyed hole of locking-latch.



To tighten, twist lever to the left (clockwise).



Press spring-loaded locking socket latch towards the right.

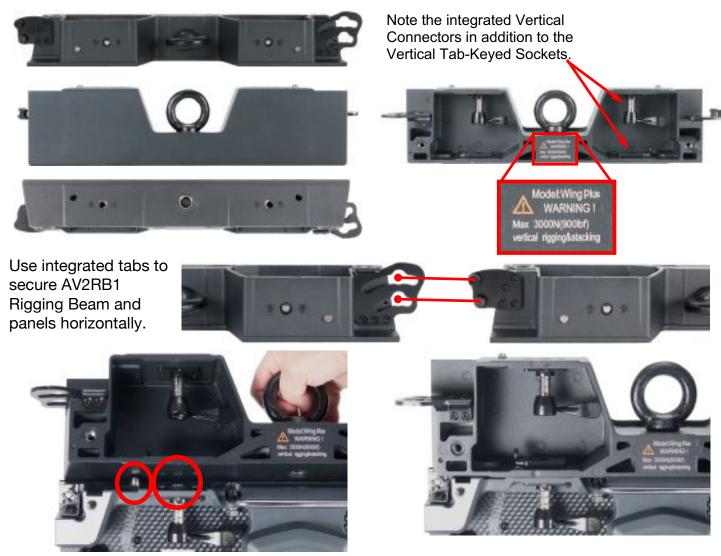
## **Back Panel Bracket**



Use an AV2084 Rear Support Bracket (sold separately) when connecting multiple panels for a larger display design, to strengthen the structural integrity of the screen, improve consistent flatness, and improve overall screen continuity.

#### **INSTALLATION - RIGGING**

The AV2X is compatible with ADJ's AV2RB1 rigging bar (sold separately), which easily and securely locks to the top of the first panel in a vertical hang of up to 20 AV2Xs, allowing them hang from a truss, hoist, or lintel beam. A qualified technician or trained professional is required to fly the AV2RB1 Rigging Beam/AV2X LED Video Panel assembly.



Align the vertical positional posts with their corresponding alignment holes and insert them.



The vertical tab-keyed connector is spring loaded. Press locking latch lever while pressing vertical key-tabbed connector into matching tab-keyed hole of locking-latch, then release latch to lock the vertical connector.

# **INSTALLATION - RIGGING**



To tighten, twist lever to the left (clockwise)



To unlock the vertical connector, rotate lever to the right (counter-clockwise)





Press spring-loaded locking socket latch towards the right; the vertical connector will snap open as soon as the latch is released

# **TECHNICAL SPECIFICATIONS**

Items		Specifications & Metrics		
	LED Configuration	3-in-1 SMD2121 LED		
	Pixel Pitch	2.97mm		
	Panel Resolution (W x H)	168 x 168		
	Pixel Density	112 x 896		
Damal	Panel Size (mm)	19.75" x 19.75" x 3" (500mm x 500mm x 73mm)		
Panel	Weight (Panel)	17.64lbs. (8kg)		
	Surface Flatness (mm)	Gaps<0.5mm		
	Module Quantity / Panel	2		
	Module Size	9.875" x 19.75" (250mm x 500mm)		
	Module Resolution (W x H)	52 x 104		
	Brightness	1000 NITS		
Optical	Viewing Angle	Horizontal 160° / Vertical 120°		
Parameters	Gray Scaler	14-bit		
	Brightness Adjustment	0~100% 100 Levels		
	Processing	14-bit		
	Input Voltage	100~240V 50-60Hz		
Flooduical	Max. Power Consumption	120W/Panel		
Electrical	Ave. Power Consumption	48W/Panel		
	Connections Power/Data	Power=True1 powerCON In/Out; Data=etherCON In/Out		
	Control Mode	Nova Star Synchronous System with Control via DVI		
	Frame Update Frequency	50-60Hz		
	Scan Mode	1/21		
Caratural Coratavas	Refresh Rate	1920Hz		
Control Systems	Support Input	Composite, S-Video, Component, VGA, DVI, HDMI, HD_SDI		
	Control Distance	Ethernet Cable<100m or Fiber Optic>120m		
	Support VGA Mode	1024x768, 1280x1024, 1600x1200, 1920x1280		
	Brightness Correction	Pixel, Module, Cabinet		
	Operating Temperature (F/C)	-4° + 104° Fahrenheit / -20° + 40° Celsius		
Environmental	Humidity	10-90% (No condensation)		
and Usage	Operating Life / MTBF	50,000 Hours / 5,000 Hours		
Parameters	Protection Level	IP20 (Front and Back, INDOOR / DRY LOCATION ONLY)		
	Out of Control Rate	<0.02%		
	Listings	cETLus		

Specifications subject to change without any prior written notice.



# **OPTIONAL COMPONENTS & ACCESSORIES**

SKU	DESCRIPTION		
AV2066	Flight Case - fits 8 AV2X		
AV2035	Rigging Bar - Holds up to 15 AV2X vertically		
AV2084	Rear Support Bracket		
VX4001	Novastar VX4S Video Processor		
MCT300	Novastar MCTRL-300 Video Processor		
MED500	Media Master Express Video Software		
MPC010 (10ft. / 3.04m)			
MPC015 (15ft. / 4.57m)	Main Bower Cables (newerCON to Edison)		
MPC025 (25ft. / 7.62m)	Main Power Cables (powerCON to Edison)		
MPC050 (50ft. / 15.24m)			
PLC1 (1ft. / .25m)			
PLC3 (3ft. / .75m)			
PLC6 (6ft. / 1.5m)	Panel to Panel Power Link Cables (powerCON to powerCON)		
PLC10 (9.84ft. / 3m)	Parier to Parier Power Link Cables (powerCON to powerCON)		
PLC15 (15ft. / 3.8m)			
PLC25 (25ft. / 6.4m)			
CAT271 (10ft. / 3.04m)			
CAT729 (25ft. / 7.62m)	Main Data Cables, Bare RJ45 to etherCON		
CAT743 (50ft. / 15.24m)	Main Data Cables, Bare NJ45 to ether CON		
CAT757 (100ft. / 30.48m)			
CAT303 (3ft. / .91m)			
CAT305 (5ft. / 1.52m)	Panel to Panel Data Link Cables (etherCON to etherCON)		
CAT310 (10ft. / 3.04m)			
CAT315 (15ft. / 4.87m)			
CAT325 (25ft. / 7.62m)			
CAT350 (50ft. / 15.24m)			

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