

# AV6X

# User Guide



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#### **DOCUMENT VERSION**

Please check [www.adj.com](http://www.adj.com) for the latest revision/update of this guide.

Date	Document Version	Notes
09/06/18	1	Initial release
11/26/19	1.5	Update specifications

#### **Europe Energy Saving Notice**

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!

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## GENERAL INFORMATION

With a brightness of 1200 NITS and a 6.0 mm pixel pitch, the AV6X 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 1200 NITS, with its 0-100% adjustable brightness, the intensity of the screen can be reduced for all indoor applications. The 6.0mm pixel pitch translates to 96 x 96 LEDs, equivalent to 27,777 dot/m<sup>2</sup>, with a wide viewing angle of 140-degrees. Each AV6X LED Video Panel is composed of 4 modular LED panels, which allows for easier serviceability.

With multiple panels linked to mains power, the AV6X LED video panel has a maximum power consumption of 300W per panel, an average consumption of 120W per panel, and each panel is fitted with a Locking Power Connector input and output socket allowing the power supply for multiple panels to be linked. Locking RJ45 Ethernet 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 (140 AV6X panels,), to the advanced Novastar VX4S that can drive up to 2.6 million pixels (280 AV6X panels) with multiple cascades to create unlimited size screens.

The AV6X 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 (USA ONLY)

- 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, Strobos, 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](https://forums.adj.com) with questions, comments or suggestions.

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

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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  $30^{\circ}\text{C}$  ( $86^{\circ}\text{F}$ ).

**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 be properly waterproofed for transportation.



## MAINTENANCE GUIDELINES

Careful and regular maintenance is necessary to optimize the potential functional lifespan of the AV6X LED Video Panels.

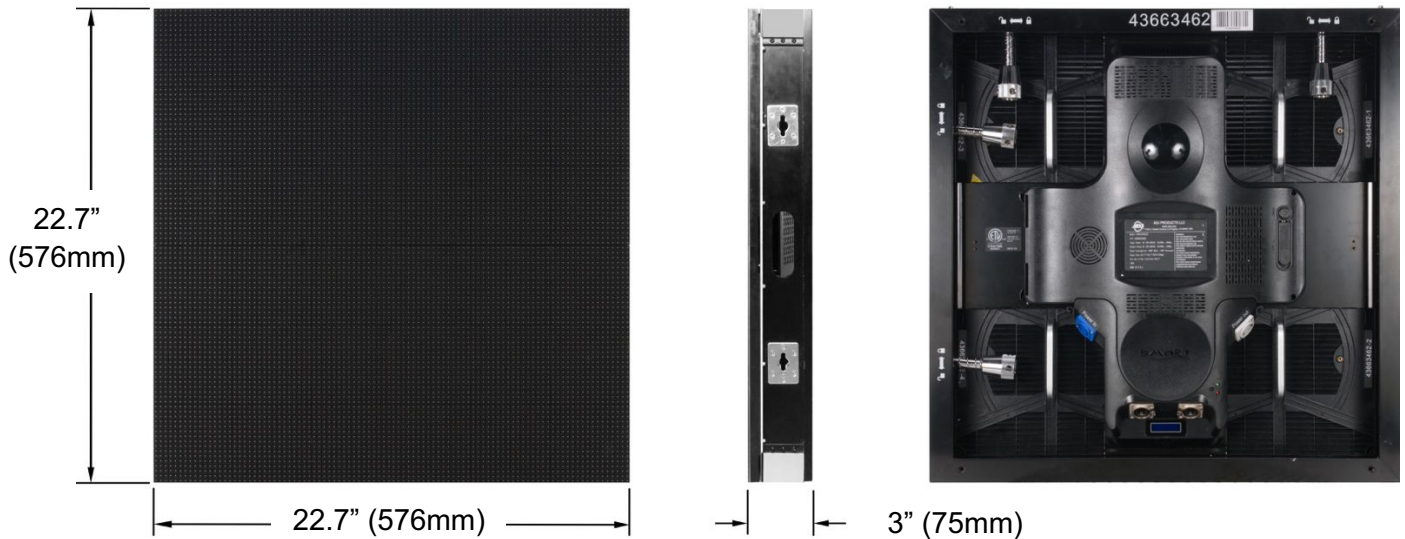
1. Read the installation and operation instructions for correct operation of the AV6X LED Video Panels.
2. Although the AV6X LED Video Panels are designed and built to withstand some impact forces when installed correctly, take care to avoid impact damage when handling or transporting them, especially 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 AV6X LED Video Panel for loose screws and other fasteners.
5. If the AV6X 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 AV6X 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 AV6X 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 AV6X 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 AV6X LED Video Panels.
15. The AV6X 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 AV6X LED Video Panels in a dry, well ventilated facility.



## PANEL OVERVIEW

Each AV6X 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:** 22.7" x 22.7" x 3" (576x576x75mm).



AV6X: Front, Side, & Back View

AV6X: Power Supply Panel — Closed



AV6X: Power Supply Panel — Opened



AV6X: Quick-Release Power Supply with 4X Receiver Card Modules. Modules are secured with magnets and set screws.



PANEL OVERVIEW

Integrated Vertical Locking  
Panel Connector

Integrated Horizontal  
Locking Panel Connector  
& Socket

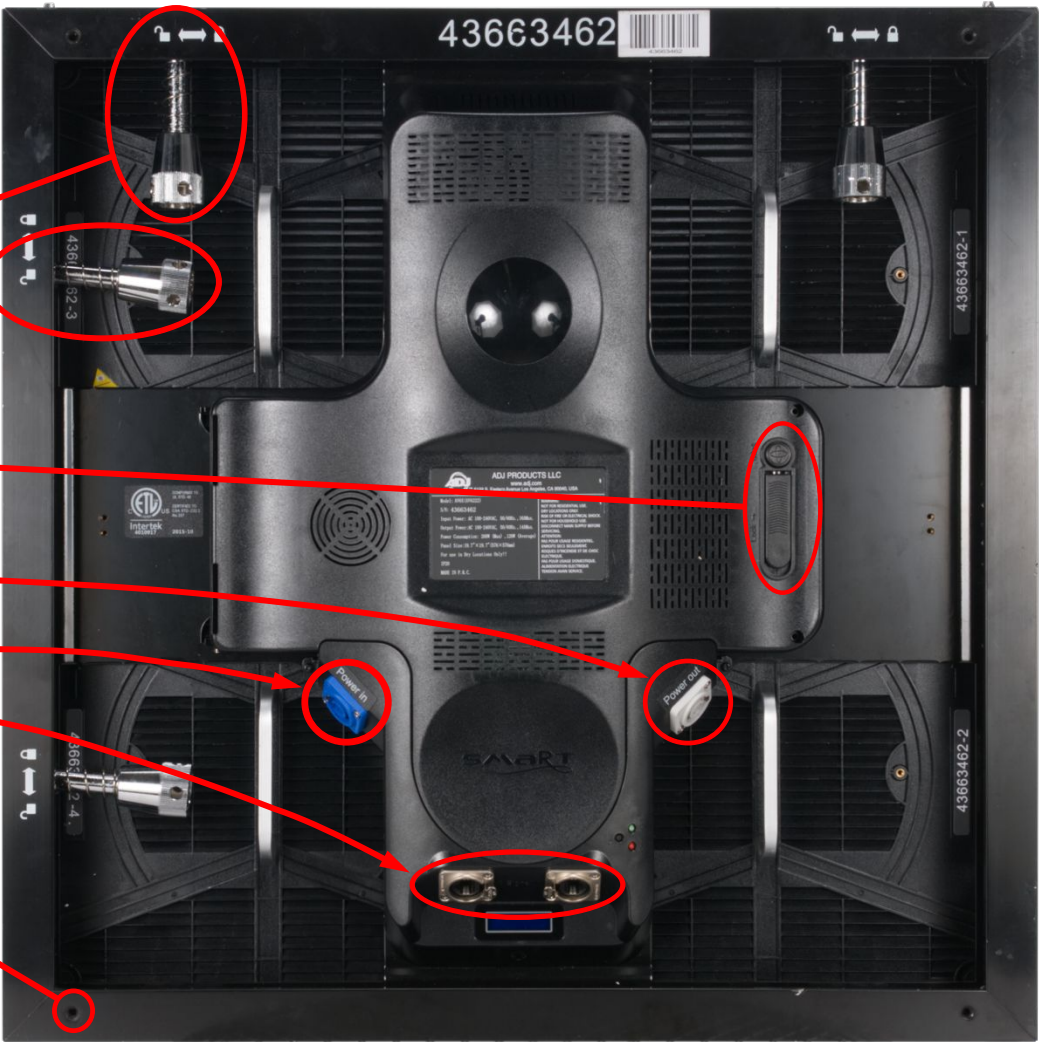
Power Supply Housing  
Latch

Power Output (-)

Power Input (+)

Locking RJ45 Ethernet

ESD Grounding Hole  
& Connection Plate for  
permanent or semi-  
permanent installations



AV6X Overview

Power Input (+)

Power Output (-)



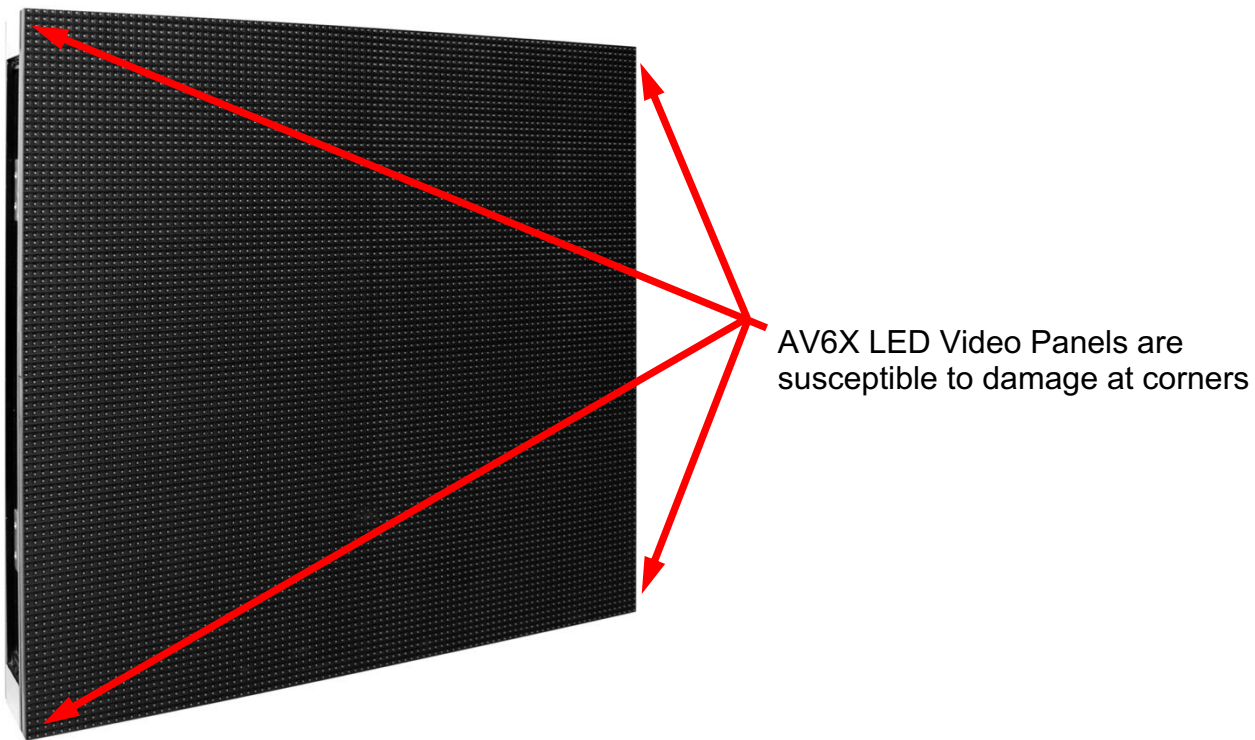
Locking RJ45 Ethernet

Test Power Signal



## HANDLING AND TRANSPORTATION

The corners of the AV6X LED Video Panel are susceptible to damage during handling and transportation. When removing AV6X LED Video Panels from their respective Flight Cases (AV6XFC 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 AV6X 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 AV6X Panel.

## HANDLING AND TRANSPORTATION

The optional AV6XFC Flight Case (sold separately) for the AV6 and AV6X LED video panels holds 8x AV6Xs. 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 AV6X 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.



AV6XFC 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.**

MODEL	MAXIMUM POWER CONSUMPTION (W)	MAXIMUM AMPERES OUT (A)
AV6X	300W	14A

**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 where 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.



## INSTALLATION - ASSEMBLY

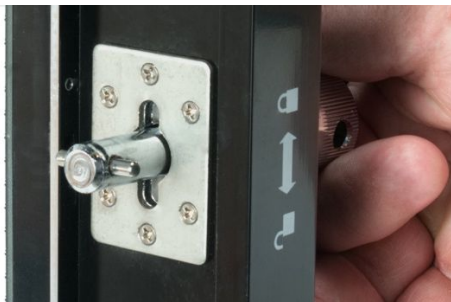
### Horizontal Panel Assembly



Slotted horizontal tab-keyed connector socket



Integrated horizontal locking panel connectors are spring loaded. Note the “Lock” and “Unlock” icons



Note horizontal orientation of the locking-tab mechanism with the tab in locked position



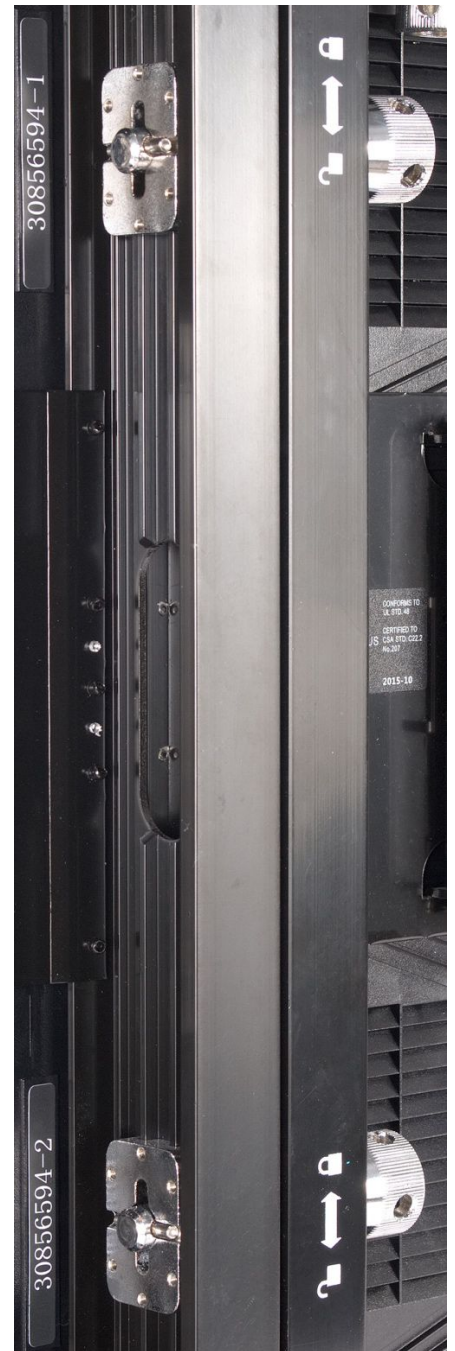
1. Align the locking-tab with tab-keyed connector socket



2. Compress spring of panel connector and pass locking-tab through tab-keyed connector socket



3. Note the “Lock” and “Unlock” directional arrows



Locked horizontal connectors

## INSTALLATION - ASSEMBLY

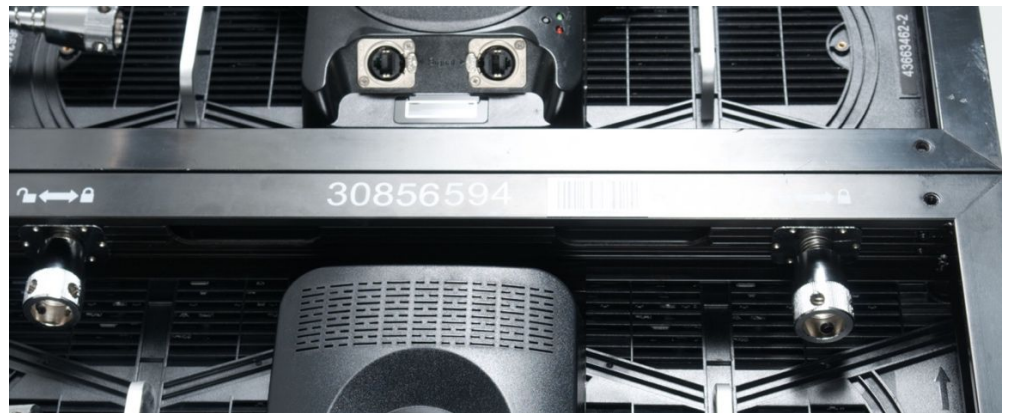
### Vertical Panel Assembly



1. Align the vertical positional posts with their corresponding alignment holes



2. Push locking vertical connectors up through their corresponding slotted vertical tab-keyed connector sockets



3. Compress spring of vertical panel connector and pass locking-tab through tab-keyed connector socket



## INSTALLATION – RIGGING

The AV6X is compatible with ADJ's AV6RB2 rigging bar (sold separately), which easily and securely locks to the top of the first panel in a vertical hang of up to 20 AV6Xs, allowing them hang from a truss, hoist, or lintel beam. A qualified technician or trained professional is required to fly the AV6RB2 Rigging Beam/AV6X LED Video Panel assembly.

1. Insert alignment pins on AV6X LED Video Panels into the vertical alignment holes on the AV6XRB2 Rigging Bar



2. Push locking vertical connectors up through their corresponding slotted vertical tab-keyed connector sockets in the AV6XRB2 Rigging Bar, and compress spring of vertical panel connectors and passing their locking-tab through tab-keyed connector socket, and turn 90° to lock



Note that a total of 20 Panels can be connected vertically. Vertical anchor point is adjustable  $\pm 50^\circ$  in  $10^\circ$  increments



**NOTE: 20 MAX. PANELS PER RIGGING BAR**

## TECHNICAL SPECIFICATIONS

Items		Specifications & Metrics
Panel	LED Configuration	3-in-1 SMD2121 LED
	Pixel Pitch	6.0mm
	Panel Resolution (WxH)	96x96
	Pixel Density	9,216
	Panel Size (mm)	22.7"x22.7"x3"/576x576x75mm
	Weight	23lbs./10.5Kg
	Surface Flatness (mm)	Gaps<0.5mm
	Module Quantity / Panel	4
	Module Size	11.375"x11.375" / 288x288mm
	Module Resolution (WxH)	48x48
Optical Parameters	Brightness	1200 NITS
	Viewing Angle	Horizontal 140° / Vertical 140°
	Distance	20ft. / 6m
	Gray Scaler	14-bit
	Brightness Adjustment	0~100% 100 Levels
	Processing	14-bit
Electrical	Input Voltage	100~240V 50-60Hz
	Max. Power Consumption	300W/Panel
	Ave. Power Consumption	120W/Panel
	Connections Power/Data	Power= Locking Power Connector In/Out; Data=Locking RJ45 Ethernet In/Out
Control Systems	Control Mode	Nova Star Synchronous System with Control via DVI
	Frame Update Frequency	50-60Hz
	Scan Mode	1/12
	Refresh Rate	1200Hz
	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
Environmental and Usage Parameters	Operating Temperature	-4° + 104° Fahrenheit / -20° + 40° Celsius
	Humidity	10-90% (No condensation)
	Operating Life / MTBF	100,000 Hours / 5,000 Hours
	Protection Level	IP20 (Front and Back, indoor use only)
	Out of Control Rate	<0.02%
	Listings	CE, FCC Class A, & ETL

Specifications subject to change without any prior written notice.

### 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.



**Intertek**  
**501032**

Consult the dealer or an experienced radio/TV technician for help.

## OPTIONAL COMPONENTS & ACCESSORIES

Model (SKU)	Description
AV6XFC	Flight Case - fits 8 AV6X
AV6RB2	Rigging Bar - Holds up to 15 AV6X vertically
Novastar MCTRL-300	Video Processor
Media Master Express 4	Video Software
GrandVJ 2.0	Video Software
10ft. / 3.04M (MPC010)	Main Power Cables (Locking Power Connector to Edison)
15ft. / 4.57M (MPC015)	
25ft. / 7.62M (MPC025)	
50ft. / 15.24M (MPC050)	
1ft. / .25M (PLC1)	Panel to Panel Power Link Cables (Locking Power Connector to Locking Power Connector)
3ft. / .75M (PLC3)	
6ft. / 1.5M (PLC6)	
9.84ft. / 3M (PLC10)	
15ft. / 3.8M (PLC15)	
25ft. / 6.4M (PLC25)	
10ft. / 3.04M (CAT271)	Main Data Cables, Bare RJ45 to Locking RJ45 Ethernet
25ft. / 7.62M (CAT729)	
50ft. / 15.24M (CAT743)	
100ft. / 30.48M (CAT757)	
3ft. / .91M (CAT303)	Panel to Panel Data Link Cables (Locking RJ45 Ethernet to Locking RJ45 Ethernet)
5ft. / 1.52M (CAT305)	
10ft. / 3.04M (CAT310)	
15ft. / 4.87M (CAT315)	
25ft. / 7.62M (CAT325)	
50ft. / 15.24M (CAT350)	

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