



WMS1 / WMS2 MEDIA SYS

User Manual

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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!

DOCUMENT VERSION



Due to additional product features and/or enhancements, an updated version of this document may be available online.

Please check www.adj.com for the latest revision/update of this manual before beginning installation and/or programming.

Date	Document Version	Software Version	DMX Channels	Notes
03/18/2025	1.0	N/A	Not Applicable	Initial Release

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GENERAL INFORMATION

INTRODUCTION

Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this device. These instructions contain important safety and use information.

Discover the cutting-edge ADJ WMS1/WMS2 LED Video Panel – a pinnacle in high-resolution display technology designed for seamless integration into diverse projects. Expanding ADJ’s professional LED video panel portfolio, the WMS1/WMS2 stands out as the company’s highest resolution offering to date. Perfectly suited for integration applications, including shop window displays, museums, boardrooms, digital signage, and entertainment venues, this video panel is a versatile solution for immersive visual experiences.

With a wide viewing angle of 160-degrees (horizontal) by 140-degrees (vertical) and a rapid refresh rate of 3840Hz, this video panel ensures a captivating and smooth visual performance.

Measuring 39.3” x 19.9” (1000mm x 500mm), the WMS1/WMS2 consists of eight individual modules, each with 96 x 96 pixels, offering flexibility in arrangement. The panel’s frame assembly features a secure locking mechanism, allowing for the seamless joining of adjacent panels. Installation is simplified with mounting points for direct wall installation. The front-serviceable design enables easy module replacement, ensuring uninterrupted operation.

With a slim 1.3” (33mm) thickness and a weight of 21 lbs. (9.5 kgs.), the WMS1/WMS2 is a lightweight and compact solution. Its versatility extends to wall-mounting, hanging, or stacking, catering to various installation preferences. Join the LED video panel revolution with ADJ’s crystal clear, and incredibly vibrant WMS1/WMS2.

UNPACKING

Every device has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton is damaged, carefully inspect the device for damage, and be sure all accessories necessary to install and operate the device have arrived intact. In the event that damage has been found or parts are missing, please contact our customer support team for further instructions. Please do not return this device to your dealer without first contacting customer support. Please do not discard the shipping carton in the trash. Please recycle whenever possible.

GENERAL INFORMATION

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

Parts: To purchase parts online visit:

<http://parts.adj.com> (US)

<http://www.adjparts.eu> (EU)

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

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WARNING! To prevent or reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture!

CAUTION! There are no user serviceable parts inside this unit. Do not attempt any repairs yourself, as doing so will void your manufacturer's warranty. In the unlikely event your unit may require service, please contact ADJ Products, LLC.

Do not discard the shipping cartoon in the trash. Please recycle when ever possible.

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 back the product-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 pre-paid. 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. No accessories should be shipped with the product. If any accessories are shipped with the product, ADJ Products, LLC shall have no liability whatsoever for loss of or damage to any such accessories, or for the safe return thereof.
- C. This warranty is void if the serial number has been 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 service by anyone other than ADJ Products, LLC factory unless prior written authorization was issued to purchaser by ADJ Products, LLC; if the product is damaged because not properly maintained as set forth in the instruction manual.
- D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check up. 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 no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. 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 Products, LLC be liable for any loss or damage, direct or consequential, arising out of the use of, 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.

LIMITED WARRANTY PERIODS

- **Non L.E.D. Lighting Products = 1-year (365 days) Limited Warranty** (Such as: Special Effect Lighting, Intelligent Lighting, UV lighting, Strobes, Fog Machines, Bubble Machines, Mirror Balls, Par Cans, Trussing, Lighting Stands etc. excluding LED and lamps)
- **Laser Products = 1 Year (365 Days) Limited Warranty** (excludes laser diodes which have 6 month limited warranty)
- **L.E.D. Products = 2-year (730 days) Limited Warranty** (excluding batteries which have a 180 day limited warranty)
Note: 2 Year Warranty only applies to purchases within the United States.
- **StarTec Series = 1 Year Limited Warranty** (excluding batteries which have a 180 day limited warranty)
- **ADJ DMX Controllers = 2 Year (730 Days) Limited Warranty**

SAFETY GUIDELINES

This device is a sophisticated piece of electronic equipment. To guarantee 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 rigging parts and/or 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, including to rigging and/or accessories, will void the original manufacturer's 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 TO PERFORM ANY REPAIRS BY YOURSELF, AS DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS PANEL AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURER'S 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!**

SAFETY GUIDELINES

- **DO NOT** touch panel housing during operation. Turn OFF power and allow approximately 15 minutes for panel to cool down before servicing.
- **DO NOT** operate devices with covers open and/or removed.
- **DO NOT** shake panel, and avoid brute force when installing and/or operating.
- **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 in extremely hot/humid environments, or handle without ESD precautions.
- **DO NOT** operate if ambient temperature falls outside of this range **-20°C to 40°C (-4°F to 104°F)**, as doing so will result in damage to the device.
- **DO NOT** operate 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 and with ease.
- **NEVER** force a power cord connector into the panel. If the power cord or any of its connectors are damaged, replace immediately with a new cord and/or connector of the same 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, and never pull out the plug by tugging the wire portion of the cord.
- **ONLY** use the original packaging materials and/or case to transport the panel in for service.
- **PLEASE** recycle shipping boxes and packaging whenever possible.
- To avoid causing physical damage, read the installation instructions carefully before installation.
- Panels should be installed/operated by qualified and trained professionals **ONLY**.
- Always mount panels in a safe and stable manner.
- **INDOOR / DRY** location use **ONLY**! Outdoor use will void the manufacturer's warranty.
- Wear appropriate safety equipment during panel installation.
- Turn **OFF** power to panel, computers, servers, system boxes, and monitors before making any type of power or data connections and before performing any maintenance work.
- 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.
- Panel must be properly grounded before operating. (resistance must be less than 4Ω)
- Ensure all power is disconnected from panel before unplugging any data cables from the panel, especially serial line ports.
- Route power and data cables so that they are **NOT** likely to be walked on or pinched.
- If panels are not in regular use for an extended period, it is advised to test run the devices for 2 hours each week to ensure that they remain in proper working condition.
- Cases used to transport panel must be properly waterproofed for transportation.

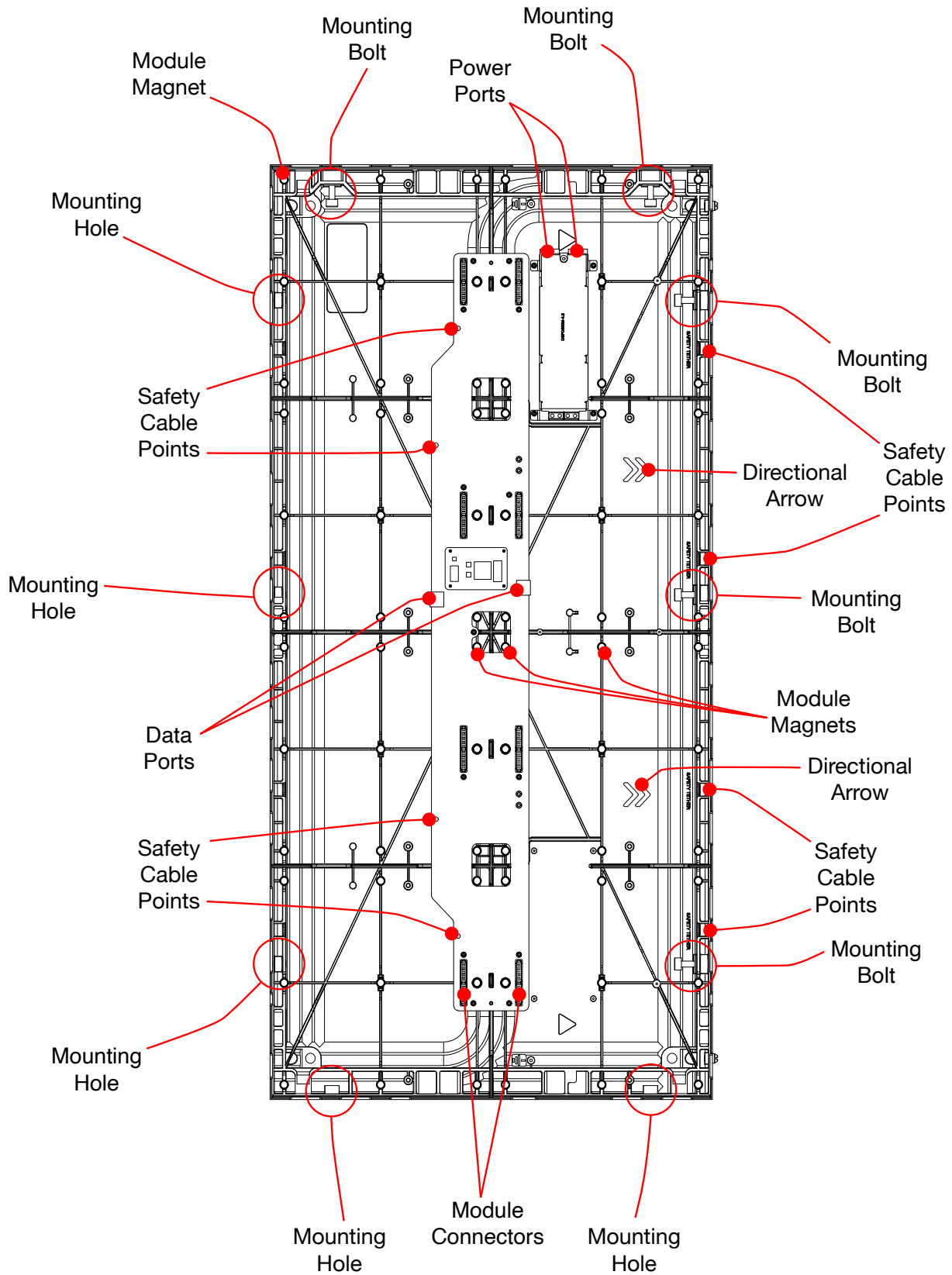
MAINTENANCE GUIDELINES

- Careful and regular maintenance is necessary to optimize the potential functional lifespan of the video panels.
- Read the installation and operation instructions for correct operation of the video panels.
- Although the video panels are designed and built to withstand some impact forces when installed correctly, care should still be taken to avoid impact damage when handling or transporting them, especially at or near the corners and edges of the devices, which are particularly susceptible to damage during transportation.
- The fixture should be serviced by a qualified service technician when:
 - A. Objects have fallen onto, 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 for an IP20 device. This includes exposure from the front, rear, or side of the panels.
 - C. The fixture does not appear to operate normally or exhibits a marked change in performance.
 - D. The fixture has fallen and/or has been subjected to extreme handling.
- Check each video panel for loose screws and other fasteners.
- If the video panel installation is fixed or displayed for a lengthy time, regularly inspect all rigging and installation equipment, and replace or repair as necessary.
- During long periods of non-use, disconnect the main power to the unit.
- Use necessary ESD (electrostatic discharge) precautions when handling video panels, especially the LED screens, as they are ESD sensitive and easily damaged from ESD exposure.
- 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.
- If the GFI (Ground Fault Interrupt) breaker-switch trips often, check the display or replace the power-supply switch.
- **When operating the video panels, power up the computer before powering up the video panels. Conversely, when shutting down after operation, turn the video panels off before turning off the computer. If the computer is turned off while the panels are still powered on, a high intensity spike of brightness may occur, resulting in catastrophic damage to the LEDs.**
- If a circuit shorts out, a breaker-switch trips, wires burn, and or any other abnormality appears while conducting an electrical test, discontinue testing, and troubleshoot units to find the problem before continuing with any testing or operation.
- To ensure consistent operation, it might be necessary to learn operating parameters for installation, data recovery, backup, controller settings, and basic data preset modification.
- Regularly check computer for any viruses and remove any irrelevant data.
- Only a qualified technician should operate software system.
- Remove any moisture found inside or outside of any 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 frictional contact that may result in ESD generation when returning video panels to the flight cases.
- The 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.
- When not in use, store video panels in a dry, well ventilated facility.

OVERVIEW

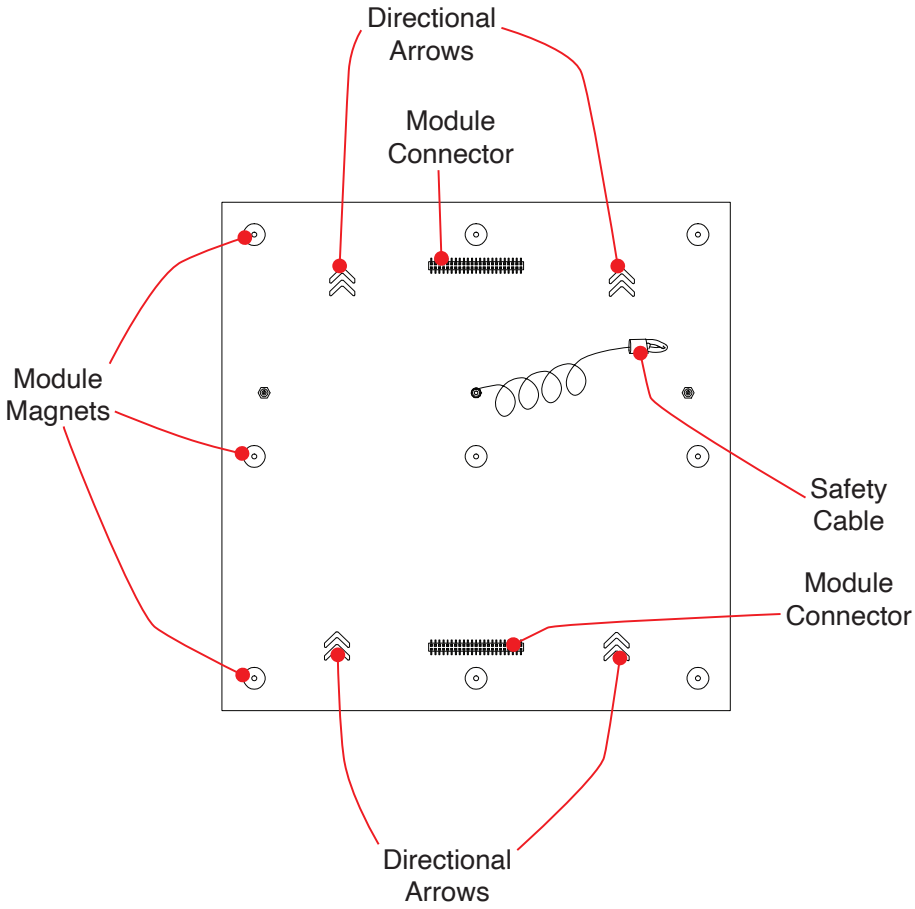
VIDEO PANEL

Please note: Video panel is shown rotated 90 degrees in order to fit this page. During actual installation, the video panel should always be oriented so that the directional arrows are pointed upwards.



OVERVIEW

LED PANEL



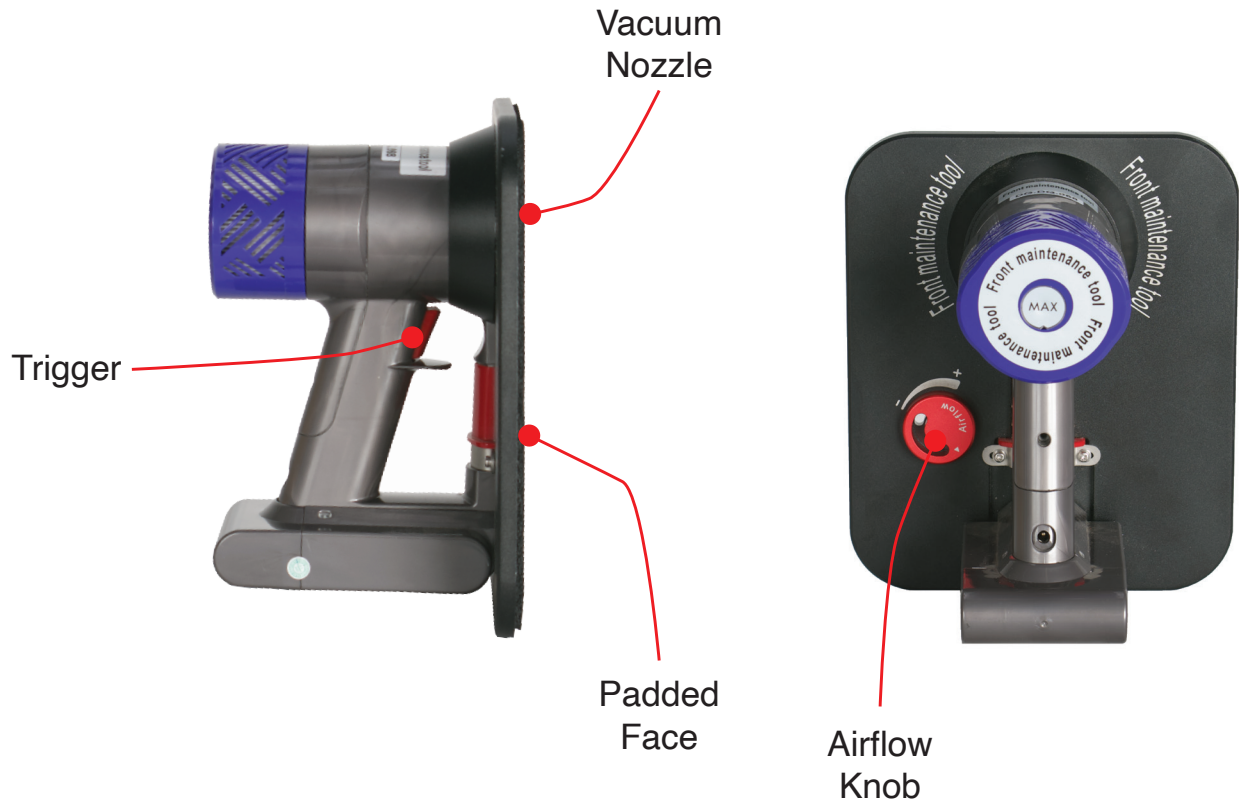
HANDLING AND TRANSPORTATION

ELECTROSTATIC DISCHARGE (ESD) PRECAUTIONS

Because these are ESD sensitive units, ESD precautions must be observed when removing the video panels from their flight case (ESD gloves, protective clothing, wrist straps, etc.). In addition to using standard ESD precautions, in order 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.

VACUUM MODULE REMOVAL TOOL

A technician can use the optional **Vacuum Module Removal Tool** (ADJ part number *EVSVAC*, sold separately) to safely remove and reinstall any of the eight LED Modules in the video panel, and minimize potential damage from mishandling, ESD exposure, or other issues.



The airflow adjustment knob can be rotated to adjust the amount of vacuum suction force exerted by the tool. Turn the knob clockwise to increase suction force, or counter-clockwise to decrease suction force.



The face of the tool is padded to cushion against damaging the LED modules. Nevertheless, use caution and do not use excessive force when pressing the vacuum tool against the LED module.

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 AT LEAST ONCE A YEAR!



FLAMMABLE MATERIAL WARNING

Keep panel(s) a minimum of 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 installatons.



A MAXIMUM OF 15 PANELS may be suspended from each other in a vertical column. There is no limit on the number of panels that may be installed in a single horizontal row. Always consult a professional equipment installer to verify that your mounting surface or structure is certified to support the weight of the panels and any associated accessories or cables. Note that additional processing power may be necessary to operate larger quantities of panels.



USE CAUTION WHEN POWER LINKING PANELS OF DIFFERENT MODEL TYPES, AS POWER CONSUMPTION CAN VARY WITH MODEL TYPE, AND MAY EXCEED THE MAX POWER OUTPUT OF THIS PANEL. CONSULT THE SILK SCREEN FOR MAX CURRENT RATING.

Input Power	1100W (110V), 2200W (220V)
Output Power	800W (110V), 2000W (220V)
Average Power Consumption	200W

- **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, and 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 calculating working load limits, knowledge of the installation material being used, and periodic safety inspection of all installation material and the fixture itself, among other skills. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury and property damage.

DISPLAY STAND SETUP

The ADJ Lighting WMS1/WMS2 Media Sys is a powerful LED display solution equipped with two WMS1 or WMS2 LED panels, an integrated Novastar processor, and a rugged flight case.

System includes:

- 1x WMS1/WMS2 Media System: 2x WMS1/WMS2 LED Video Panels
- 1x Display Stand with Built-In Novastar Video Processor
- 1x Flight Case

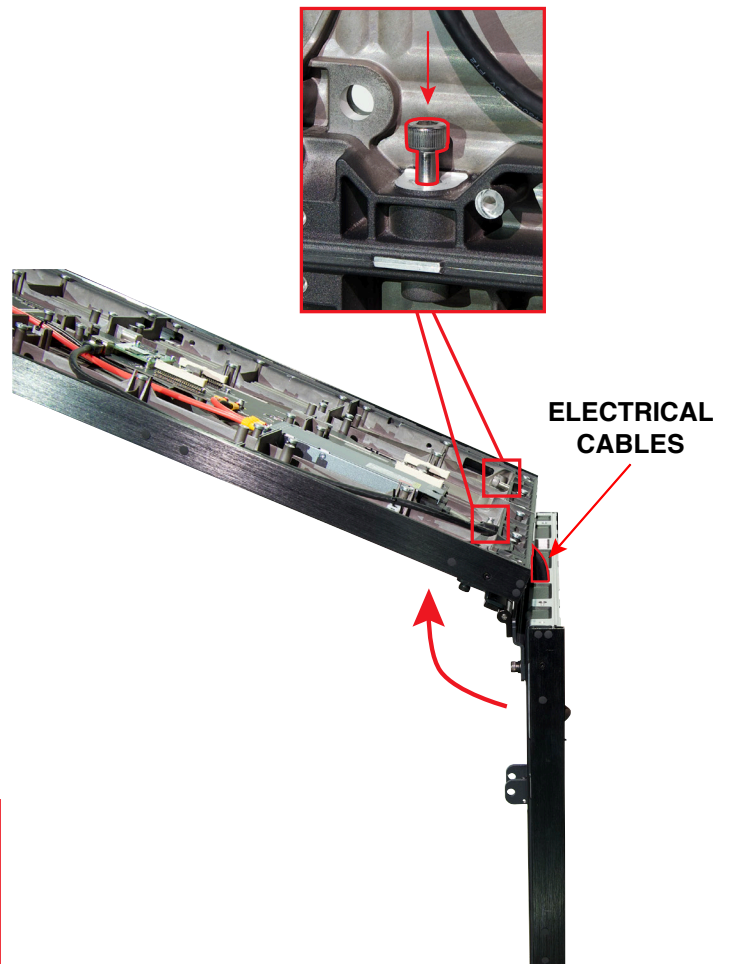
1. Remove the stand from the flight case. **Do not remove by yourself, as the stand is heavy!** Place the stand on a flat, level surface and deploy the feet by turning the red knobs on each wheel assembly. **Deploy each foot fully to ensure that the stand will not roll away.**
2. Unfold the system by swinging the upper panel upward to the fully vertical position. Be careful not to pinch the cables that pass through the hinged section. Insert the mounting bolts at the bottom edge of the top panel into the mounting holes at the top edge of the lower panel, and tighten to secure in place.



STAND
RETRACTED



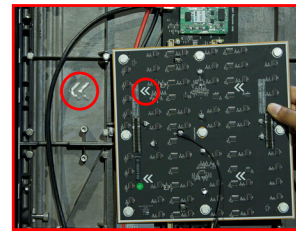
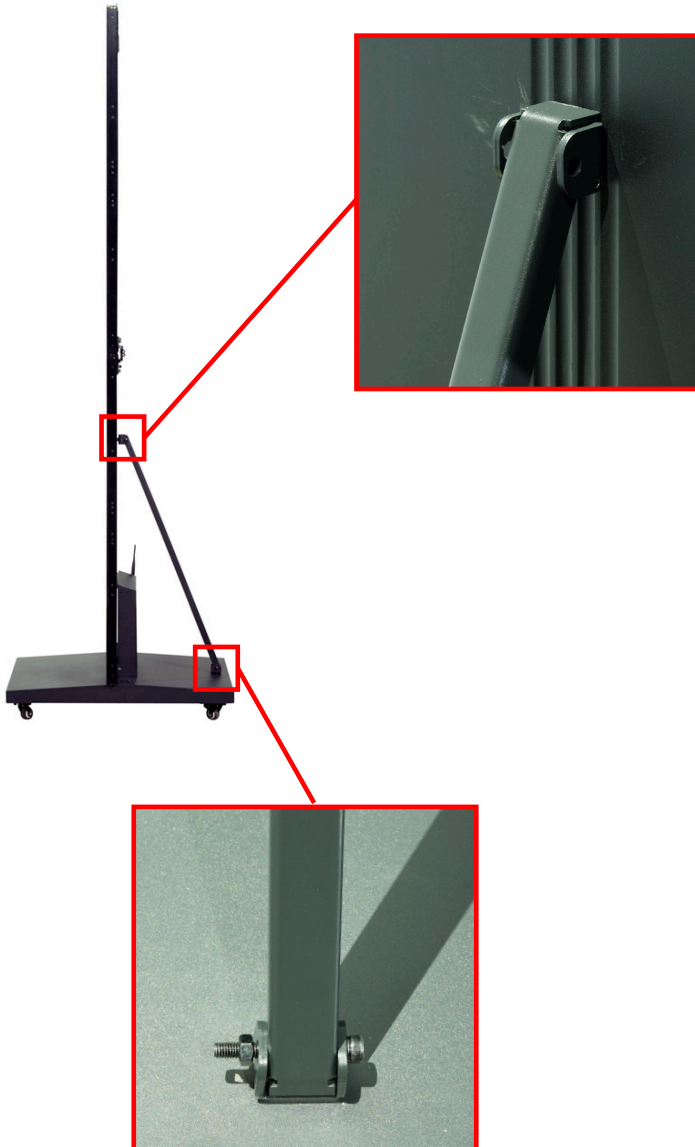
STAND
DEPLOYED



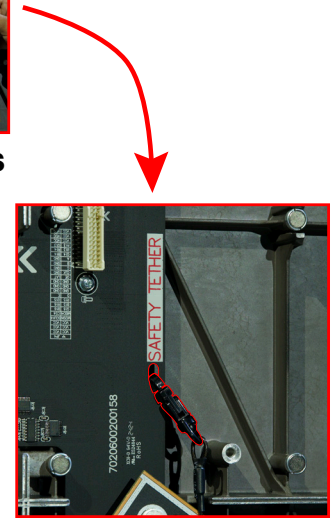
DISPLAY STAND SETUP

3. Align the lower end of the brace bar with the bracket on the frame base, then secure in place with a bolt and nut. Then align the upper end of the brace bar with the bracket on the back of the lower panel, and secure in place with a bolt and nut. Please note that the two ends of the brace bar have different shapes, and make sure to orient the brace bar correctly.

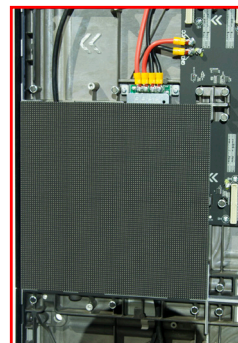
4. Install each LED module. Orient each module so that the arrows on the module are pointing in the same direction as the arrows inside the panel. Anchor each module to the nearest safety cable point, then gently lower the module toward the video panel and allow the built-in magnets to snap the modules into place.



Directional arrows aligned.



Safety cable connection.



LED module installed.

DISPLAY STAND SETUP

5. Connect the display stand to power via the power port on the integrated Novastar processor, then switch the power on.



**POWER
PORT**

6. Assembly is now complete. Please note, when returning the display stand to the flight case for storage, always remove the LED panels first using the vacuum removal tool. The unit should be stored with the feet fully retracted, and oriented in the flight case such that the lower brace bracket on the base of the stand does not interfere with the foam padding in the case.



UPLOADING CONTENT

Uploading content into the NovaStar TB50 involves a few key steps, typically done through ViPlex Express or ViPlex Handy software. Please follow the steps below:

1. Prepare Your Content

- Ensure the images, videos, or other media files match the required format (e.g., MP4, JPG, PNG).
- Check that the resolution matches your LED display.
- Keep files in a compatible USB drive or accessible folder.

2. Connect to the TB50

- The TB50 supports LAN, Wi-Fi, and USB connections.
- Ensure the control computer or mobile device is on the same network.
- If using a direct connection, set your IP to match the TB50's network settings.

3. Use ViPlex Express (PC) or ViPlex Handy (Mobile) to Upload Content

Via ViPlex Express (PC)

- i. Launch ViPlex Express and connect to the TB50.
- ii. Go to the 'Screen Management' section.
- iii. Select the TB50 device from the list.
- iv. Go to 'Media Management' and upload your files.
- v. Arrange content in the playlist and set playback schedules.
- vi. Save and Send the content to the TB50.

Via USB Drive

- i. Copy the prepared content into a USB drive.
- ii. Insert the USB into the TB50's USB port.
- iii. The TB50 will automatically detect and prompt you to upload content.

Via ViPlex Handy (Mobile)

- i. Connect to the TB50 via Wi-Fi (default password should be 'SN2008@+').
- ii. Open ViPlex Handy and select the TB50 device.
- iii. Tap "Media", then upload and arrange content.
- iv. Send the content to the TB50.

4. Verify the Content

- After uploading, check if the media is playing as expected.
- Adjust brightness, scheduling, or content playback as needed.

TECHNICAL SPECIFICATIONS

MEDIA SYS DISPLAY STAND

Specifications:

- Pixel Pitch (mm): WMS1: 1.95; WMS2: 2.6
- Pixel Density (dot/m²): WMS1: 262,144; WMS2: 147,456
- LED sealing Type: WMS1: SMD1212 Kinglight Cooper; WMS2: SMD1515 Kinglight Cooper
- Module Size (mm x mm): 250 x 250mm
- Module Resolution (PX x PX): WMS1: 128 x 128 Dots; WMS2: 96 x 96 Dots
- Panel Resolution (PX x PX): WMS1: 512 x 256; WMS2: 384 x 192
- Average Life (Hours): 50,000

Features:

- Transport: Single System Flight Case
- One WMS1/WMS2 Media System
- Installation Method: Roll and Set
- Maintenance: Front
- Configuration*: WMS1: DP3265S, 3840Hz.; WMS2: CFD455, 3840 Hz.

Optical Ratings:

- Brightness (cd/m²): 700-800nits
- Horizontal Viewing Angle (Deg): 160
- Vertical Viewing Angle (Deg): 140
- Grey Scale (Bit): ≥14
- Refresh Rate (Hz): 3840

Power Supply:

- Input Voltage (V): 100-240VAC
- Max Power Dissipation (W/m²): 520
- Average Power consumption (W/m²): 180

Control System:

- Receiving Card in Panels: Novastar A8s-N
- Processor: Novastar TB50

Environmental:

- Working Environment: Indoor
- IP Rating: IP20
- Working Temperature (°C): -20~ +40
- Work humidity (RH): 10%~90%
- Storage temperature range: -40~ +80
- Operation humidity (RH): 10%~90%

Weight / Dimensions:

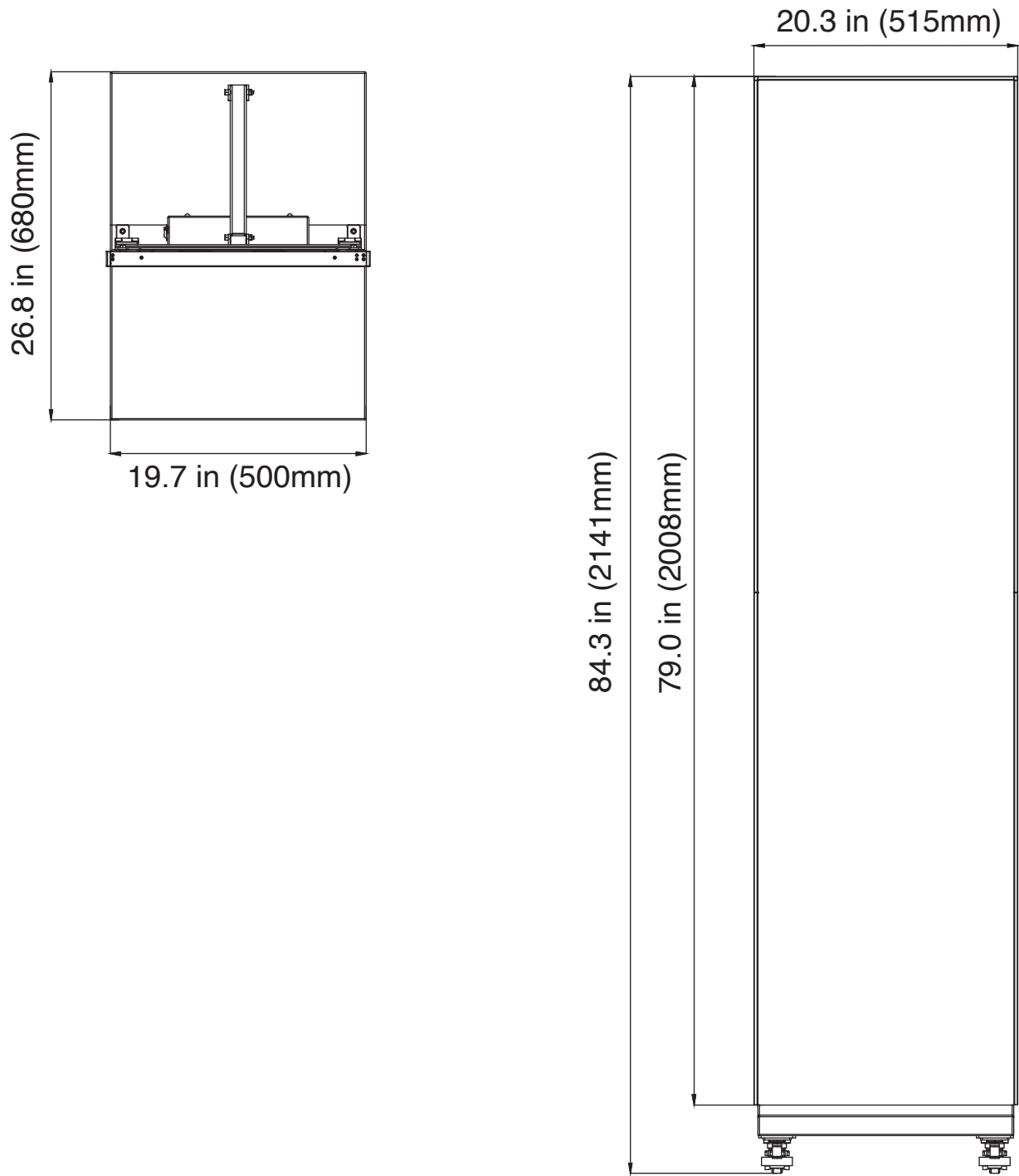
- Flight Case Dimensions (LxWxH): 45.5" x 28.3" x 27.3" (1155 x 714 x 690mm)
- System Dimensions (LxWxH): 26.8" x 19.7" x 84.3" (680 x 500 x 2141mm)
- LED Panel Thickness: 1.3" (33mm)
- System Weight (In Flight Case): 176lbs. (80kg)

Approvals:

- Certificates: LED Panels are ETL Certified

Specifications subject to change without any prior written notice.

DIMENSIONAL DRAWINGS



OPTIONAL COMPONENTS AND ACCESSORIES

SKU (US)	SKU (EU)	DESCRIPTION
EVSVAC	1226300171	EVSVAC - Vacuum Tool for Module Removal

