

Design Series DS4QC User Guide



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DOCUMENT VERSION

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Date	Document Version	Notes
09/06/18	1	Initial release

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

The DS4 LED Video Panels and connectors are composed of lightweight nanocomposite materials (nanotechnology polymer) and feature multiple rigging points to connect panels in conventional, offset, or staggered (3D) configurations. This innovative system can easily be linked, rigged, and transported using numerous accessories. An injection molded unibody construction comprises the integral aluminum alloy heatsink and power supply, which significantly improves heat dissipation. And because of its high refresh rate, up to 3840Hz, images displayed on the LED Video Panel can be photographed flicker free. With an expansive screen size potential, high brightness, and curved installation options, our DS4 LED Video Panels allow manifold applications for stage, exhibitions, shows, and commercial advertising.

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, 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

Voice: 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 4Ω)

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 be properly waterproofed for transportation.

MAINTENANCE GUIDELINES

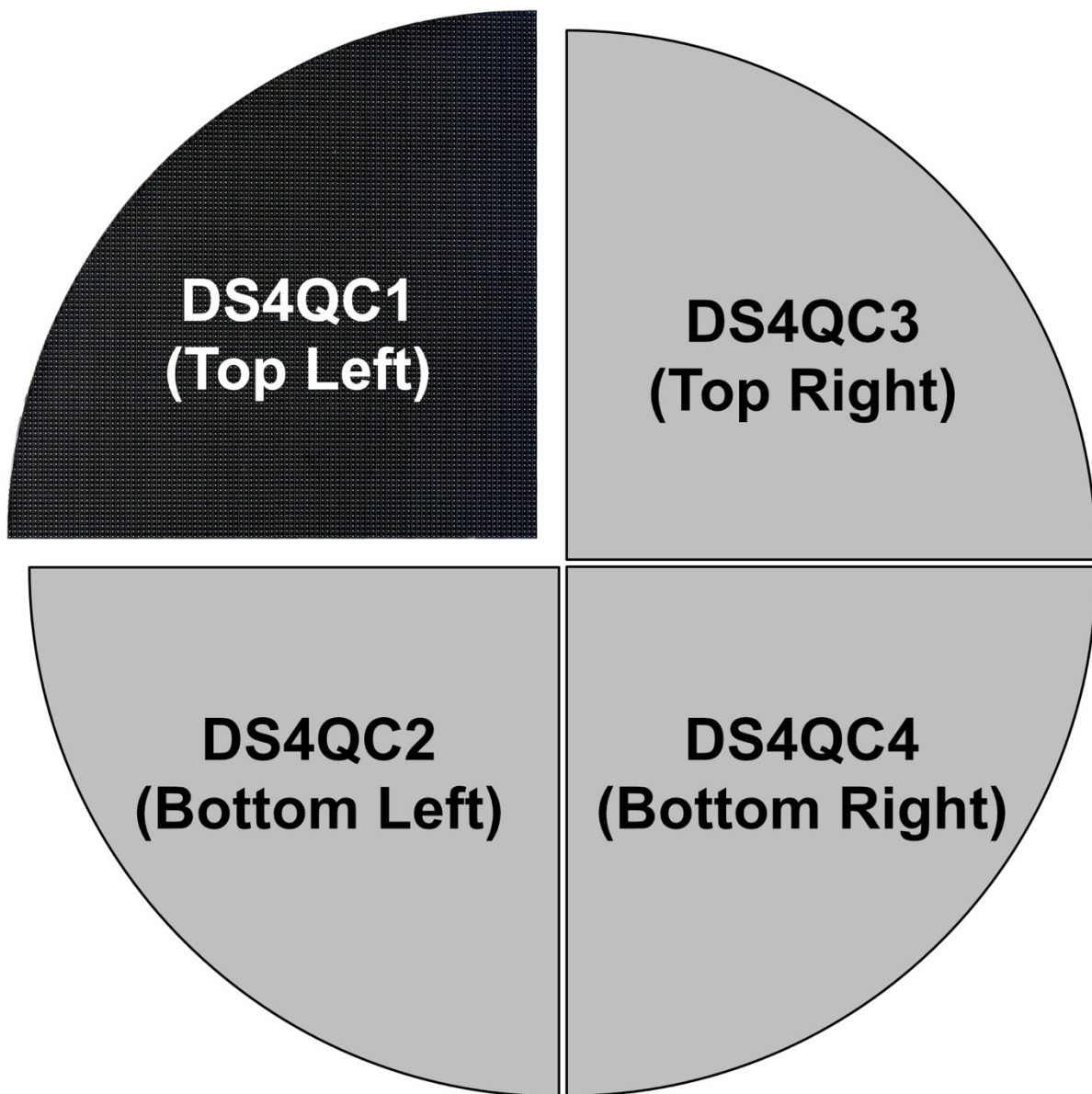
Careful and regular maintenance is necessary to optimize the potential functional lifespan of the DS4 LED Video Panels.

1. Read the installation and operation instructions for correct operation of the DS4QC LED Video Panels.
2. Although the DS4QC 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.
 - 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 DS4QC LED Video Panel for loose screws and other fasteners.
5. If the DS4QC 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. Because the nanocomposite material comprising the DS4QC LED Video Panel frames is susceptible to damage caused from exposure to oil, acid, and other corrosive substance, bar any exposure of the DS4QC panel and frame structures to those substances.
7. Use necessary ESD (electrostatic discharge) precautions when handling DS4QC LED Video Panels, especially the LED screens, as they are ESD sensitive and easily damaged from ESD exposure.
8. 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.
9. If the GFI (Ground Fault Interrupt) breaker-switch trips often, check the display or replace the power-supply switch.
10. When operating the DS4QC 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.
11. 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.
12. To ensure consistent operation, it might be necessary to learn operating parameters for installation, data recovery, backup, controller settings, and basic data preset modification.
13. Regularly check computer for any viruses, and remove any irrelevant data.
14. Only a qualified technician should operate software system.
15. Remove any moisture found inside or outside of any DS4QC LED Video Panels before dismantling video installation, and returning them to their respective flight cases. Ensure flight cases are free of any moisture, using a fan to dry them if necessary, and avoid ESD generating friction when returning DS4QC LED Video Panels.
16. Because the DS4QC LED Video Panels are strictly designed for indoor usage, limit or remove any unit exposure to moisture, condensation, or humidity, and consider using air conditioning where available.
17. When not in use, store DS4QC LED Video Panels in a dry, well ventilated facility.

PANEL OVERVIEW

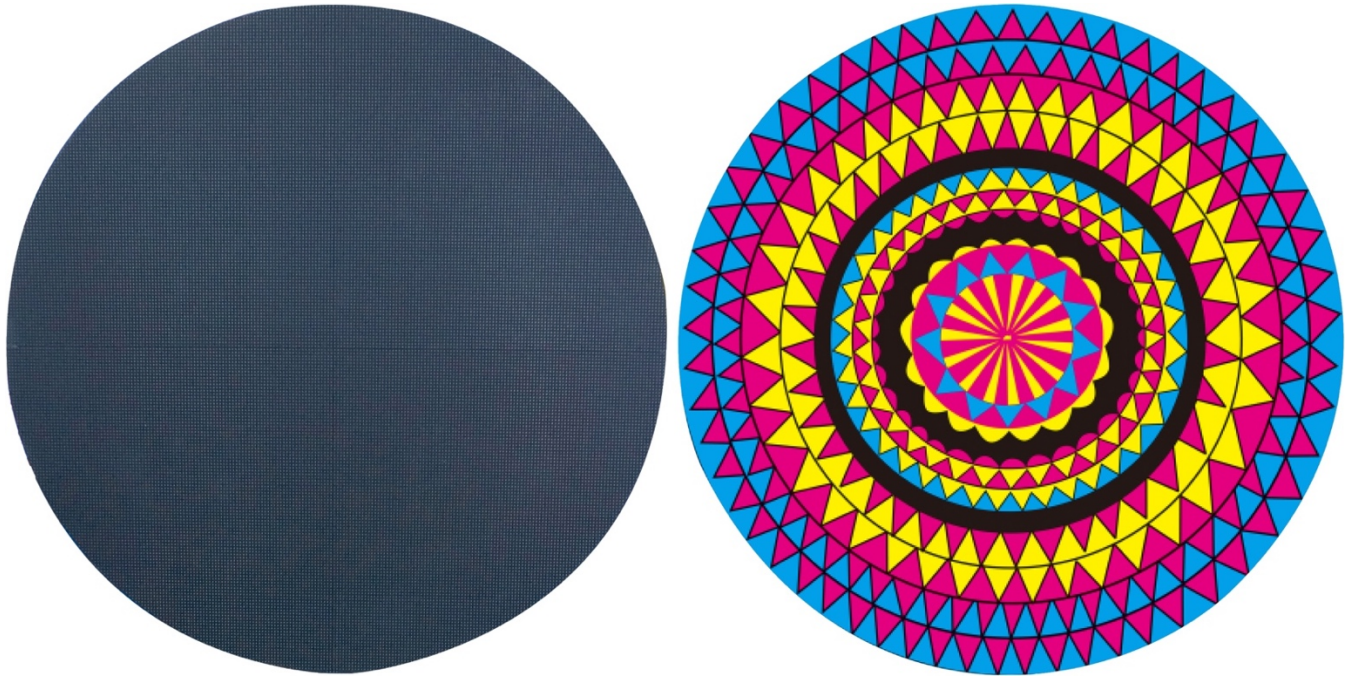
The DS4QC Quarter Circle LED Video Panel includes a power supply, modules, and receiver card. The cover of the power supply box can be secured to protect all internal accessories and components. Instead of traditional die cast aluminum alloy or steel, the panel of the DS4 Quarter Circle panels are comprised of a special lightweight industrial nanocomposite material (nanotechnology polymer) to greatly reduce panel weight. Because of the specific quarter panel orientation and how the video signal is sent, and consequently displayed, all four DS4QC Quarter Circle Panels are used to form a circle.

Dimensions: 19.7" x 19.7" x R19.7" x 2 .9" (500x500xR500x73mm).



DS4QC (1-4): Front View

PANEL OVERVIEW

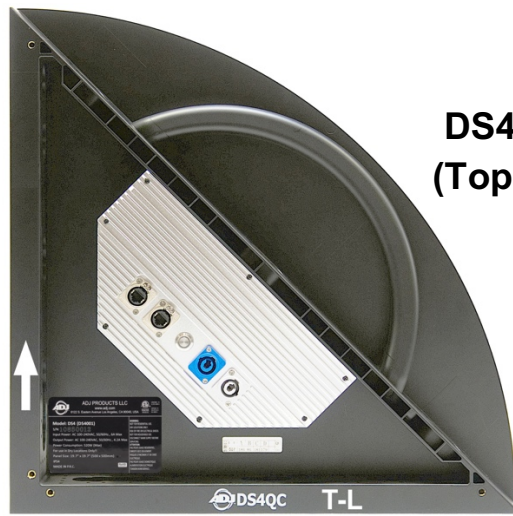


DS4QC (1-4) Assembled

**DS4QC3
(Top Right)**



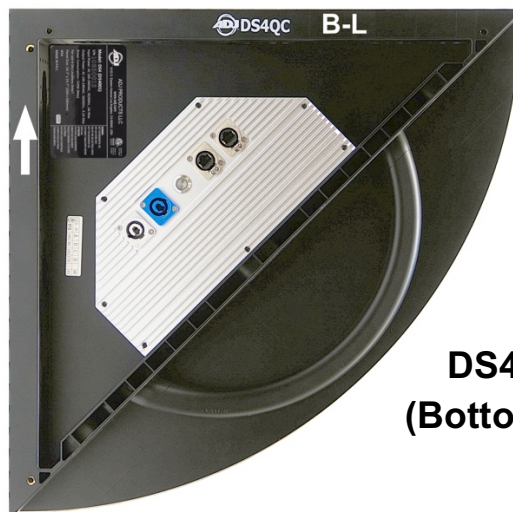
**DS4QC1
(Top Left)**



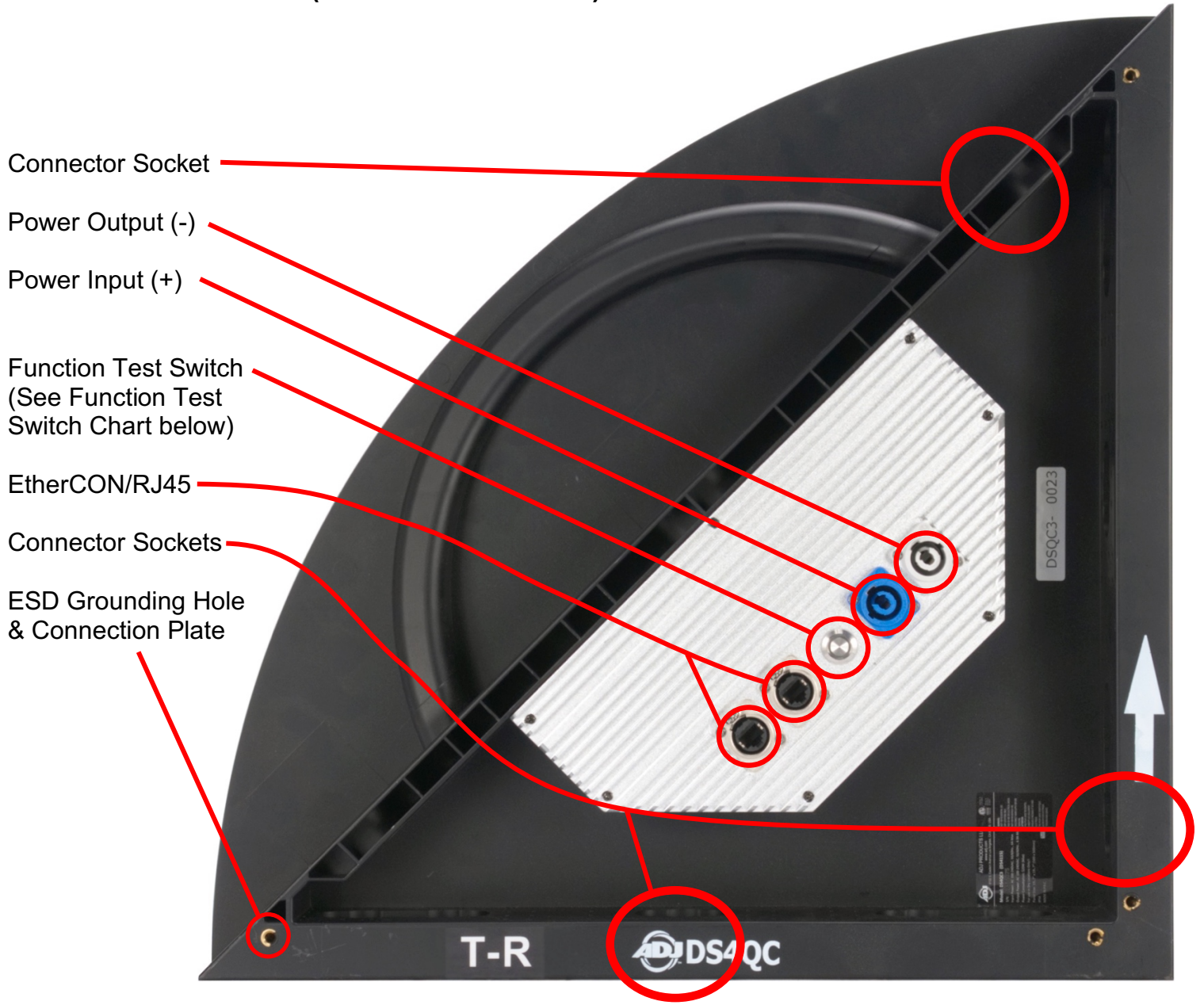
**DS4QC4
(Bottom Right)**



**DS4QC2
(Bottom Left)**



PANEL OVERVIEW (DS4QC3 Back View)



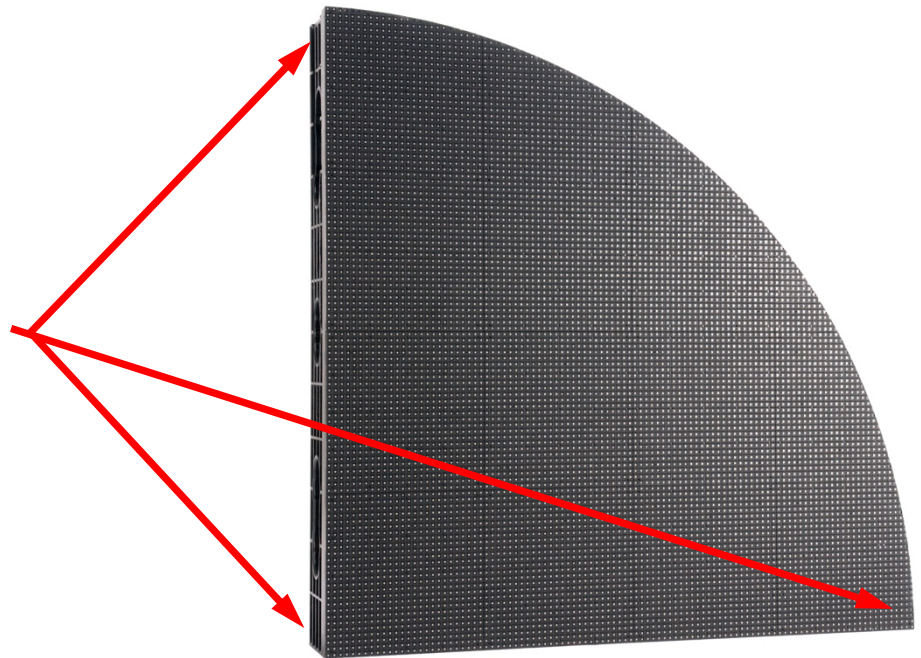
FUNCTION TEST SWITCH CHART

BUTTON PRESS	COLOR/PATTERN/FUNCTION TESTED
Pressing button specific number times below will select the corresponding test	
1	Red
2	Green
3	Blue
4	White
5	Horizontal Pattern
6	Vertical Pattern
7	Slash Pattern
8	256 Gray Gradient
9	Aging (Lifespan)

HANDLING AND TRANSPORTATION

The 3 front corners of the DS4QC Quarter Circle LED Video Panel are susceptible to damage during handling and transportation. When removing DS4 LED Video Panels from their respective Flight Cases (sold separately), and before they are installed, take care to avoid damaging any of the 4 corners.

DS4QC LED Video Panels are susceptible to damage at corners



Corner Frangibility

Because these are ESD sensitive units, use ESD precautions when removing the DS4 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 clipboard, which can generate static electricity that can damage LEDs on DS4QC Panel. The optional DS4QC Flight Case (sold separately) for the DS4QC Quarter Circle panels holds 10x DS4QCs.

DS4QC and DS4T Panels shown in an optional flight case (Sold Separately)



DS4QC Quarter Circle Panels stored without ESD bags

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 24 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)
DS4	104W	4.2A
DS4Q	72W	4.2A
DW4T	47W	4.2A
DS4RA	8.9W	4.2A

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 – PANEL CONNECTORS



Horizontal Panel Connector (Small)

DS4HC—Horizontal Connector



DS4—Vertical Panel Connector

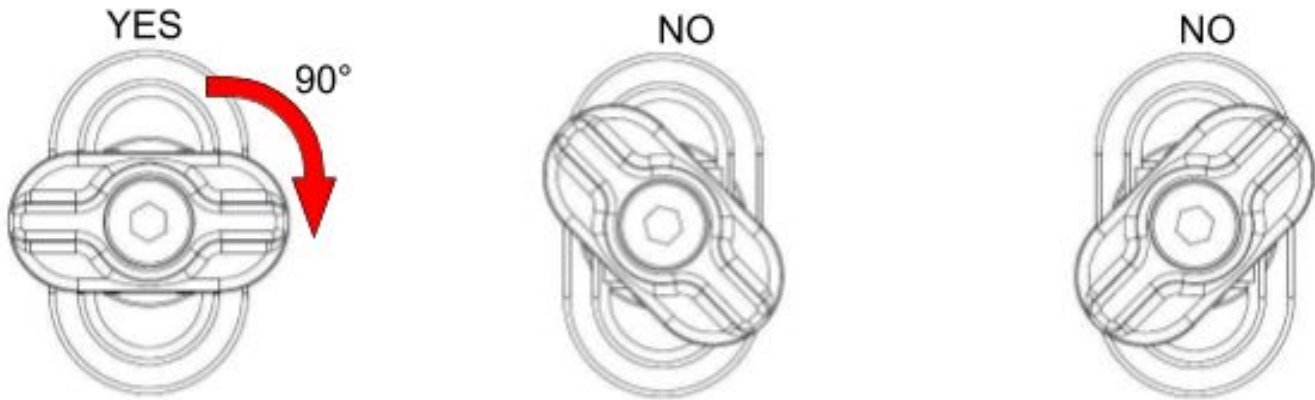


DS4FW—Fastening Wrench

DS4 Connectors, Clamps, & Accessories

INSTALLATION – PANEL CONNECTORS

Regardless of the model used (DS4VC, DS4HC, or DS4CC), all connectors have an integrated locking mechanism that, when turned 90°, will lock the respective DS4QC Quarter Circle Panels into place, ensuring maximum hold strength. When you turn the knob of the locking mechanism the full 90°, you should feel a slight snap.



Turn connector locking mechanism knob 90° to lock

TECHNICAL SPECIFICATIONS

Items		Specifications & Metrics
Module	LED Configuration	3-in-1 SMD 2020 LED
	Pixel Pitch (mm)	4.8mm
	Module Resolution (WxH)	104x104
	Size (mm)	500x125
	Weight (kg)	388g(PGBA)
Panel	Module Per Panel (WxH)	1x4
	Panel Resolution (WxH)	104x104
	Panel Size (mm)	500x500x73
	Panel Area (m ²)	0.25
	Weight (kg/Panel)	5.7
	Pixel Density	43264
	IP Rating	IP50
	Surface Flatness (mm)	Gaps±
Optical Parameters	Brightness Before Correction (nit)	600~800
	White Balance Brightness (nit)	800~1200
	Color Temperature (k)	7000±3000K
	Distance:	12.5ft. (3.8m)
	Vertical Viewing Angle (°)	Horizontal 160° / Vertical 120°
	Pixel Center Distance Deviation	<3%
	Brightness Uniformity	≥97%
	Brightness Adjustment	0~100% 100 Levels
	Gray Scale / Display Color:	14 Bit
	Color Uniformity	No more than ±0.003Cx, Cy
	Contrast Ratio	3000:1
	Electrical	Working Voltage
Power Consumption		Max: 157.5W/panel Average: 52.5W/panel
Connections Power/Data		Power-powerCON In/Out; Data etherCON In/Out
Frame Update Frequency		50-60Hz
Driving Method		Constant Drive
Scan Mode		1/13 Duty
Frame Update Frequency		50-60Hz
Refresh Frequency (Hz)		≥1920Hz
Support Input		Composite, S-Video, Component, VGA, DVI, HDMI, HD_SDI
Control Distance		Ethernet Cable<100m, Fiber Optic>120m
Support VGA Mode		1024x768, 1280x1024, 1600x1200, & 1920x1280
Control System		Nova Star Synchronous System with Control via DVI
Environmental and Usage Parameters		Operating Life / MTBF
	Environment Temperature	Working temperature: -20°C-45°C Storage Temperature: -30°-60°C
	Environment Humidity	Working: 10-90% (No condensation) Storage: 10-90% (No condensation)
	Out of Control Rate	<0.0003%
	Environment Mode	Cat5
	Angle of Arc Installation	165° - 195°
	Minimum Circle Diameter (m)	3.8
	Listings	CE, FCC, & ETL

Specifications subject to change without any prior written notice.



TECHNICAL SPECIFICATIONS

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.

OPTIONAL COMPONENTS & ACCESSORIES

SKU	DESCRIPTION
CAT303	3' etherCON to etherCON Data Jumper
CAT305	5' etherCON to etherCON Data Jumper
CAT310	10' etherCON to etherCON Data Jumper
CAT315	15' etherCON to etherCON Data Jumper
CAT325	25' etherCON to etherCON Data Jumper
CAT451	25' First Data Cable Processor to Panel
CAT461	50' First Data Cable Processor to Panel
CAT471	100' First Data Cable Processor to Panel
DS4001	DS4 4.8mm Video Panel 104 X 104
DS4015	DS4RA Rectangle 1/4 size Panel (Right Angle)
DS4030	DS4RA Chandelier Bracket holds 8 units
DS4044	DS4T1 Top Right Triangle Section 4.8mm
DS4052	DS4T2 Bottom Right Triangle Section 4.8mm
DS4067	DS4T3 Bottom Left Triangle Section 4.8mm
DS4078	DS4T4 Top Left Triangle Section 4.8mm
DS4089	DS4QC1 Top Left Quarter Circle Section 4.8mm
DS4100	DS4QC2 Top Right Quarter Circle Section 4.8mm
DS4115	DS4QC3 Bottom Right Quarter Circle Section 4.8mm
DS4130	DS4QC4 Bottom Left Quarter Circle Section 4.8mm
DS4144	DS4 Transport Cart/Ground Support
DS4152	DS4HC Horizontal Panel Connector (2 per panel)
DS4167	DS4VC Vertical Panel Connector (2 per panel)
DS4178	DS4CC Adjustable Curve Connector 15° (2 per panel)
DS4189	DS4MFC Multi-Function Adjustable Clamp
DS4200	DS4OB Adjustable Offset Bar (3D effect)
DS4215	DS4RB1 Rigging Bar / Ground Support Bar
DS4230	DS4FW Fastening Wrench
DS4244	DS4FC10 Full Panel Flight Case holds 10 units
DS4252	DS4RAFC24 Rectangle Panel Flight Case hold 24 Units
DS4267	DS4QCFC10 Quarter Circle Road Case hold 10 Units
DS4278	DS4TFC10 Triangle Section Road Case hold 10 Units
DS4289	DS4AFC; Flight Case for DS4 Accessories
DS4300	DS4LED-M; LED module for DS4
DS4719	MRV410-6; receiving card for DS4
DS4733	HSP-300PSU; Meanwell Power Supply
DS4751	DS4RACA; Right Angle Hardware Adapter
MCT300	ADJ MCT RL300 Video Wall Processor
MED592	Media Master Express—Video Control Software

OPTIONAL COMPONENTS & ACCESSORIES (Continued)

SKU	DESCRIPTION
MPC10	10' Main Power Cable powerCON to Edison Neutrik
MPC15	15' Main Power Cable powerCON to Edison Neutrik
MPC25	25' Main Power Cable powerCON to Edison Neutrik
PLC1	1' Power Link Cable powerCON to powerCON Neutrik
PLC3	3' Power Link Cable powerCON to powerCON Neutrik
PLC6	6' Power Link Cable powerCON to powerCON Neutrik
PLC10	10' Power Link Cable powerCON to powerCON Neutrik
PLC25	25' Power Link Cable powerCON to powerCON Neutrik
VX4001	Nova Pro VX4S Processor / Scaler / Switcher
Eye Clamp	Eye Clamp
Shackle	1/2" Shackle
TBD	etherCON to etherCON Coupler for Data
TBD	powerCON to powerCON Coupler for Power
TBD	Connecting Plate

