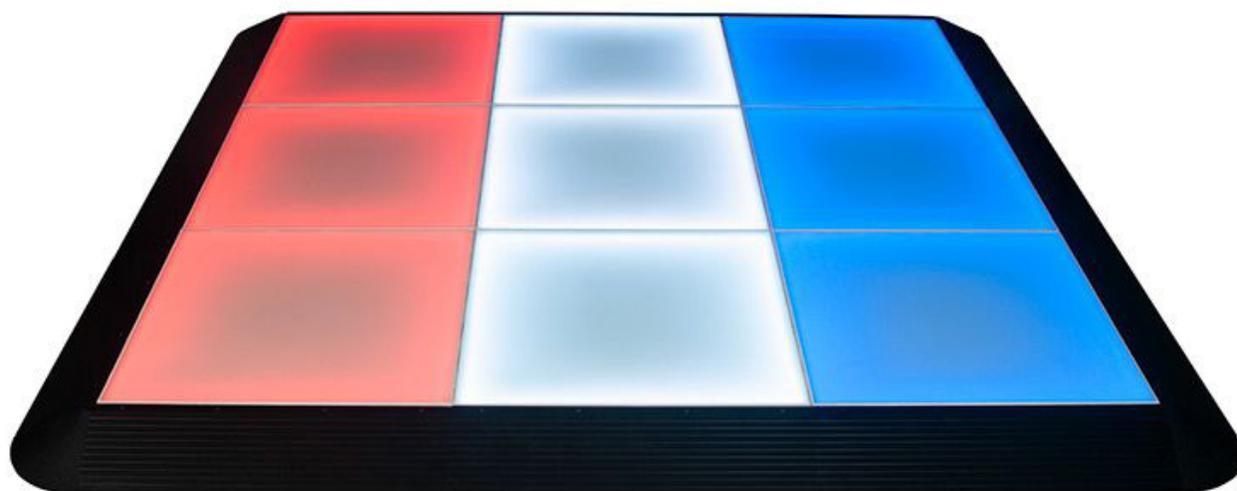




MDF2-9SYS



User Manual

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Energy Saving Matters (EuP 2009/125/EC)

Saving electric energy is key to 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
12/20/2019	1.0	1.0	3 / 5 / 7 / 10	Initial Release
10/11/2021	2.0	N/C	No Change	Update Installation Instructions and System Menu, add DMX Addressing

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GENERAL INFORMATION

INTRODUCTION

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

UNPACKING

The products in this kit have been thoroughly tested and have been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect each unit included for damage and be sure all accessories necessary to operate the units 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 kit to your dealer without first contacting customer support at the number listed below. Please do not discard the shipping carton in the trash. Please recycle whenever possible.

WARRANTY RETURNS

All returned service items, whether under warranty or not, must be freight pre-paid and accompanied by a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper and included in the shipping container. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. Items returned without an R.A. number clearly marked on the outside of the package will be refused and returned at customer's expense. You may obtain an R.A. number by contacting customer support.

CUSTOMER SUPPORT

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

ADJ SERVICE USA - Monday - Friday 8:00am to 4:30pm PST
800-322-6337 | Fax 323-832-2941 | support@adj.com

ADJ SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET
+31 45 546 85 60 | Fax +31 45 546 85 96 | support@adj.eu

REPLACEMENT PARTS please visit parts.adj.com

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 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.

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.

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 INSTRUCTIONS AND GUIDELINES

To guarantee smooth operation, it is important to follow all instructions and guidelines in this manual. ADJ PRODUCTS LLC is not responsible for injury and/or damages resulting from the misuse of these devices due to the disregard of the information printed in this manual. Only qualified and/or certified personnel should perform installation of these devices and only the original rigging parts included with these devices should be used for installation. Any modifications to these devices and/or the included and optional hardware accessories will void the original manufacturer's warranty and increase the risk of damage and/or personal injury.



THERE ARE NO USER SERVICEABLE PARTS INSIDE THE PANELS. DO NOT ATTEMPT ANY REPAIRS YOURSELF, AS DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THE PANELS OR INCLUDED OR OPTIONAL HARDWARE ACCESSORIES 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.

- **IP55 RATED – LIMITED DUST INGRESS AND LOW-PRESSURE WATER JET PROTECTION!**
- **INDOOR USE ONLY! PANELS ARE NOT WATERPROOF AND NOT FOR OUTDOOR USE! KEEP PANEL SURFACE DRY FROM LIQUIDS SUCH AS SPILLED DRINKS!**
- **PANEL SURFACE BECOMES A SLIP HAZARD IF EXPOSED TO LIQUIDS!**
- **DO NOT DISASSEMBLE PANELS UNDER ANY CONDITIONS!**
- **DO NOT EXCEED PANEL MAX LOAD WEIGHT OF 61.5 LBS PER SQ. FT. (300 KG/SQ. METER)!**
- **DO NOT INSTALL PANELS ON UNSTABLE, UNEVEN, OR CARPETED SURFACES!**
- **INSTALL ON SMOOTH LEVEL SURFACES ONLY!**
- **POWER SUPPLIES ARE NOT IP55 RATED! INDOOR USE ONLY!**
- **DO NOT PLUG THE POWER SUPPLIES INTO A DIMMER PACK!**
- **UNPLUG POWER SUPPLIES DURING LONG PERIODS OF NON-USE!**
- **KEEP FLAMMABLE MATERIALS AWAY FROM PANELS AND POWER SUPPLIES!**
- **DO NOT EXCEED OPERATING TEMPERATURES OF 113°F (45°C)!**
- **SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK FROM STROBING LIGHT!**

SAFETY INSTRUCTIONS AND GUIDELINES

- **DO NOT** position Panels or Power Supplies close to any **FLAMMABLE MATERIALS** while operating.
- **DO NOT** attempt installation and/or operation without knowledge of how to do so.
- **DO NOT** permit operation by persons who are not qualified to operate these types of devices.
- **DO NOT** shake Panels or Power Supplies, and avoid brute force when installing and/or operating.
- **DO NOT** apply masking or stage tape to panel surface, as doing so can result in the buildup of sticky adhesive residue on the surface of the panels.
- **DO NOT** operate Panels if any of the Power Ramp or Power Supply cords have become frayed, crimped and/or damaged. Replace any damaged Power Ramps or Power Cords as needed.
- **DO NOT** remove or break off the ground plug from the Power Supply power cords.
- **DO NOT** remove or disassemble Panels, as there are NO user serviceable parts inside.
- **ALWAYS** disconnect Power Supply from main power source before performing any cleaning.
- **ALWAYS** be sure to install Panels and Power Supplies in an area that will allow proper ventilation.
- **ONLY** use hardware and accessories which are listed in this guide.
- **ALWAYS** safely route and secure all Power Supply power cords to prevent a tripping hazard.
- **ALWAYS** disconnect all Power Supplies during long periods of non-use.
- **ONLY** use the original packaging and materials to transport these devices for service.
- Panels and Power Supplies should be serviced by qualified service personnel when:
 - A. Power cords and/or plugs have become damaged.
 - B. Heavy objects have fallen onto them.
 - C. Exposed to rain and/or dampness/moisture.
 - D. They do not operate normally or exhibit a marked change in performance.

MAINTENANCE GUIDELINES



DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!

CLEANING

Cleaning panel surface is recommended after each use to ensure proper optimized light output and extended life. Clean the panel surface with a soft dry cloth to remove any dust, moisture, or liquid residue. Use glass cleaner to remove any residue or stains.

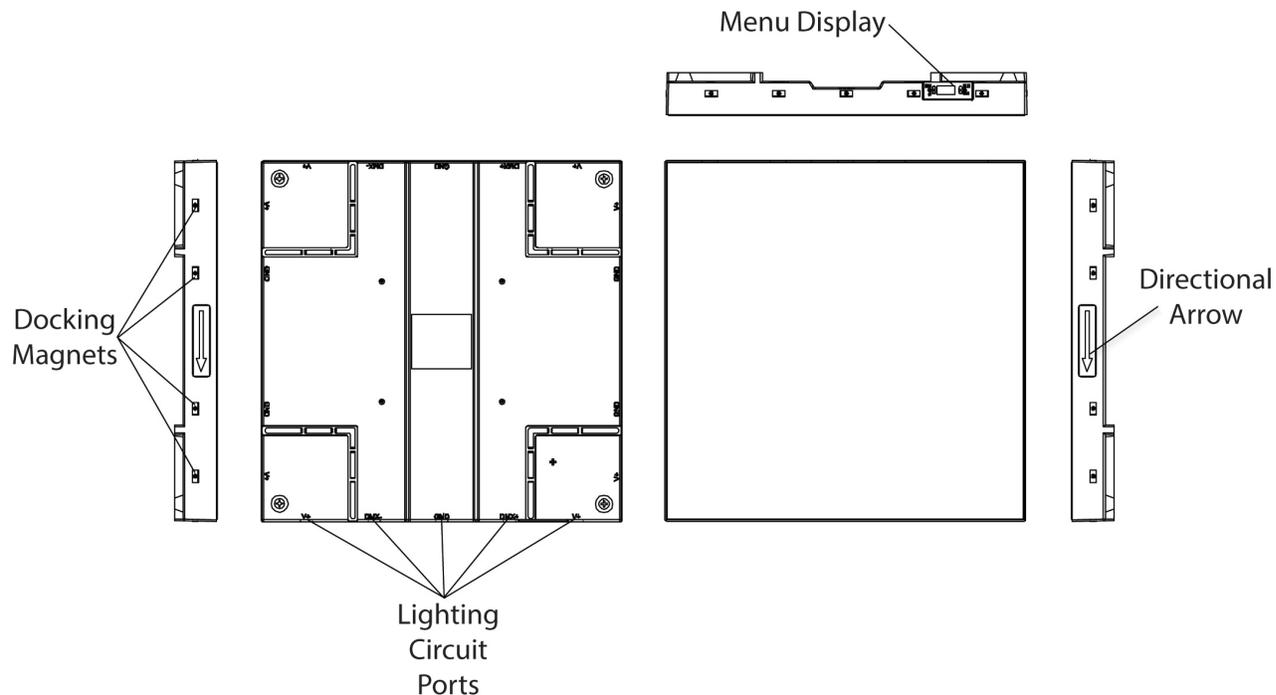
MAINTENANCE

Regular inspections are recommended to ensure proper function and extended life. There are no user serviceable parts inside these devices. Please refer all service issues to an authorized ADJ service technician. Should you need any spare parts, please order genuine parts from your local ADJ dealer.

Please refer to the following points during routine inspections:

- Detailed review every 3 months to ensure panel shows no signs of damage.
- Check all screws, magnets, and feet are securely tightened at all times. Loose items may fall out during normal transportation, installation, and operation.
- Check for any deformations on the panel surface, ramps, and power supplies which could allow for dust and/or liquid to enter.
- Power supply cables must not show any signs of damage or deformities.

OVERVIEW



Note: Directional arrows are marked on the side of the panels to assist with orientation during assembly. Please see the **Installation Instructions** section of this manual.

Note: Refer to the **Control Panel** section of this manual for details regarding the Menu Display and the associated control buttons.

INCLUDED ITEMS:

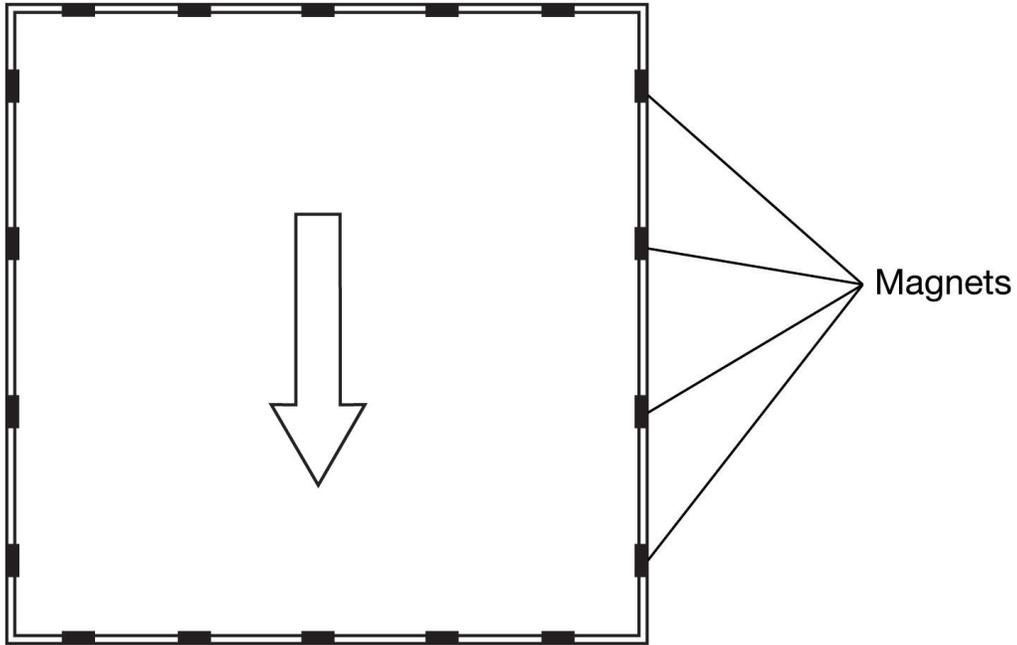
- Magnetic Dance Floor Panels (x9)
- 9-Panel Flight Case (x1)
- Floor Connection Brackets (x16)
- Corner Ramp w/ Cable Inlet Cutout (x1)
- Corner Ramps (x3)
- Power Ramps (x3)
- Dummy Ramps (x9)
- 9-Panel Power Supply w/ Power Cable* (x1)
- 19.6 ft/5.9m Ramp Power Cable* (x1)
- 16.3 ft/4.9m 3pin XLR DMX Cable* (x1)

*Additional cable lengths and power supply options are available. See the **Optional Accessories** section of this manual for details and ordering information.

OVERVIEW

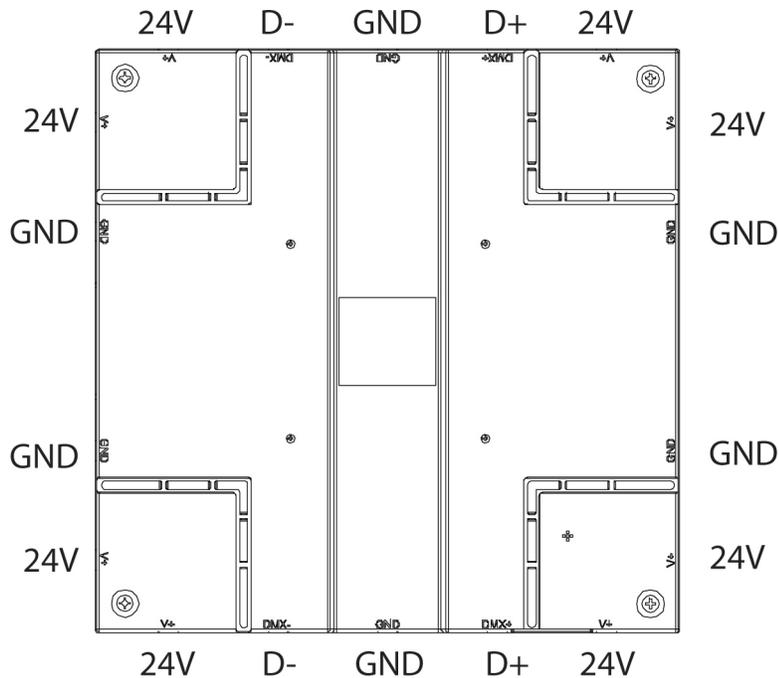
DOCKING MAGNETS

Each panel has built-in docking magnets to assist in assembly and to hold the panels in place once installed.



LIGHTING CIRCUIT PORTS

Each panel has built-in circuit ports that connect together with the assistance of the docking magnets. These circuit ports transfer power and data signals from panel to panel by way of simple contact, removing the need to use wires to connect the panels together.



INSTALLATION INSTRUCTIONS

IP RATING

The panels are **IP55** rated. This rating signifies that dust cannot enter in sufficient quantity to interfere with the satisfactory operation of the device, and that water projected by a nozzle against the enclosure from any direction shall have no harmful effects. **PLEASE NOTE THAT THIS RATING APPLIES ONLY TO THE PANELS, AND THAT ANY ASSOCIATED POWER CABLES AND ACCESSORIES ARE RATED FOR USE ONLY IN DRY, INDOOR ENVIRONMENTS.**

FLAMMABLE MATERIAL WARNING!

Keep device a minimum of 5.0 feet (1.5m) away from flammable material and/or pyrotechnics.

ELECTRICAL CONNECTIONS

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

DO NOT INSTALL THE DEVICE IF YOU ARE NOT QUALIFIED TO DO SO!

The unit **MUST** be installed following all local, national, and country commercial electrical and construction codes and regulations.

Before installing or mounting any device, a professional equipment installer **MUST** be consulted to determine whether the mounting structure or surface is properly certified to safely support the combined weight of the fixture, clamps, cables, and accessories.

Operating temperature range is **-4°F to 113°F (-20°C to 45°C)**. Do not operate this device when ambient temperature is outside of this range.

Allow approximately 15 minutes for the fixture to cool down before servicing.

INSTALLATION INSTRUCTIONS

PANEL SET UP INSTRUCTIONS



1. Start by setting up the Panel Power Ramps. Connect all Panel Power Ramps to each other by stringing together both the DMX connections and the power cable connections.

NOTE: One Panel Power Ramp is required for each column of panels.



2. Slot the feet of the Panel Power Ramps into the Panel Floor Brackets. This will hold the Panel Power Ramps together.

NOTE: Be sure to leave Panel Floor Bracket slots open when installing the Panel Floor Brackets at both ends of the row of Panel Power Ramps. These slots will be used later to install the Panel Dummy Ramps.

INSTALLATION INSTRUCTIONS

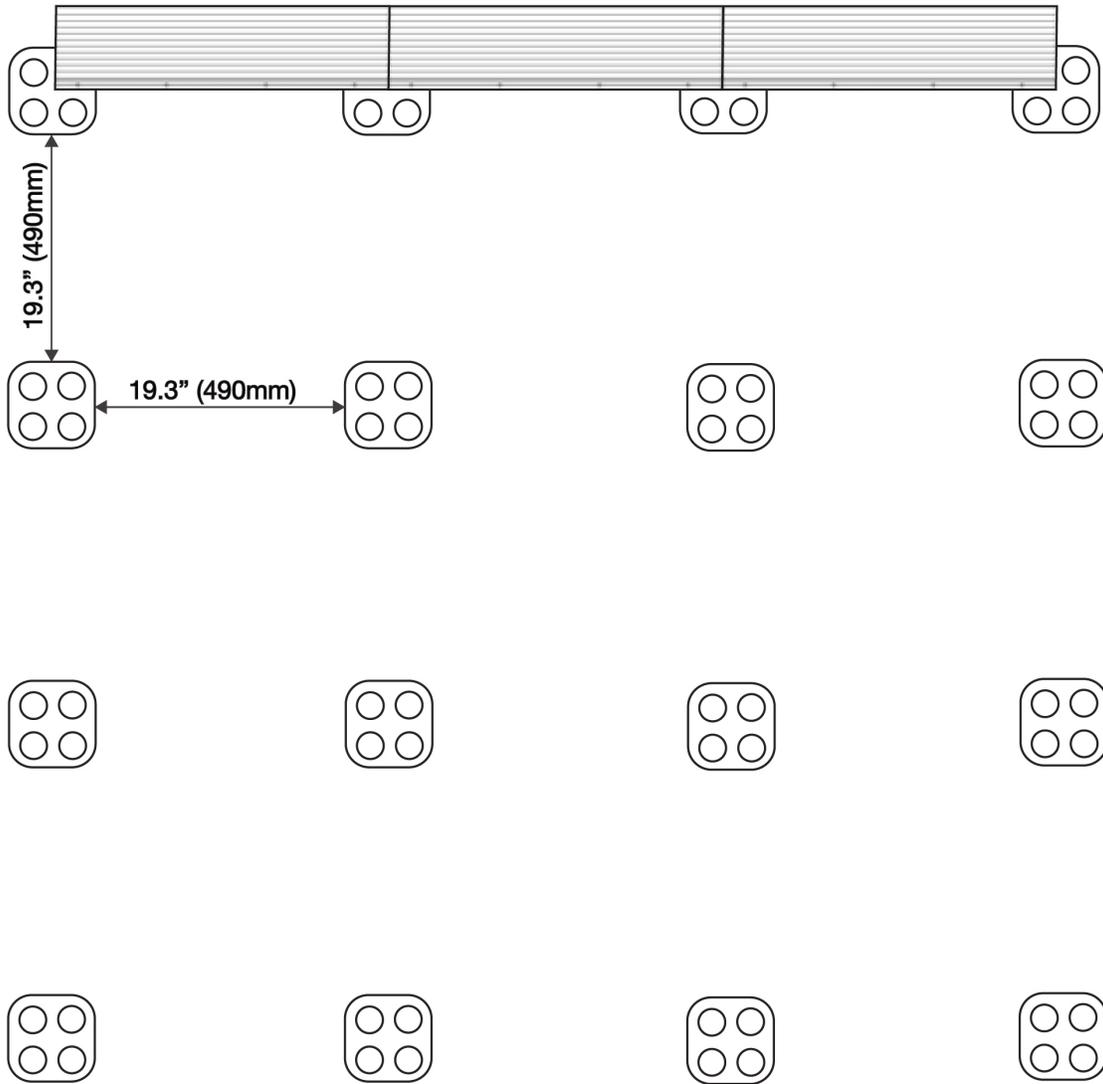
PANEL SET UP INSTRUCTIONS



3. Connect your row of Panel Power Ramps to both the DMX console and the Power Supply. Plug in the Power Supply and switch it on.

INSTALLATION INSTRUCTIONS

PANEL SET UP INSTRUCTIONS



4. Lay out a grid of Panel Floor Brackets, noting that one Panel Floor Bracket is required for each corner where a panel or a ramp come into contact with each other. Panel Floor Brackets should be spaced approximately 19.3 inches (490mm) apart from edge to edge in both left-to-right and front-to-back directions. For reference, see the diagram above, which shows the Panel Floor Bracket layout for a 3x3 panel system.

INSTALLATION INSTRUCTIONS

PANEL SET UP INSTRUCTIONS



5. Connect a panel to any of the power supply ramps using the docking magnets, making sure that each foot on the panel slots into the holes in the Connection Brackets. Adjust the position of the Connection Brackets as needed to align them with the panel feet. The panel itself should be oriented so that the arrows on each side of the panel are pointing directly away from the power supply ramp.

NOTE: If placed in any other orientation, the panel will NOT receive power or DMX signal. Sample diagrams are shown on page 18.



CAUTION: DO NOT SLIDE PANELS INTO POSITION! THIS MAY RESULT IN EXTENSIVE DAMAGE TO PANEL ELECTRONICS! INSTEAD, PANELS SHOULD BE LIFTED AT THE EDGES AND LOWERED VERTICALLY INTO POSITION.



6. Stand on the panel to check that it is stable and does not wobble. If instability or wobbling is detected, the panel feet may be adjusted to compensate. To adjust the feet, simply twist to alter the height.

NOTE: Excessive wobbling or instability may lead to poor power or DMX signal connection to the panel.

INSTALLATION INSTRUCTIONS

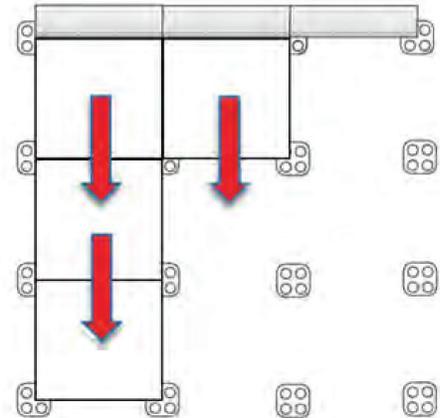
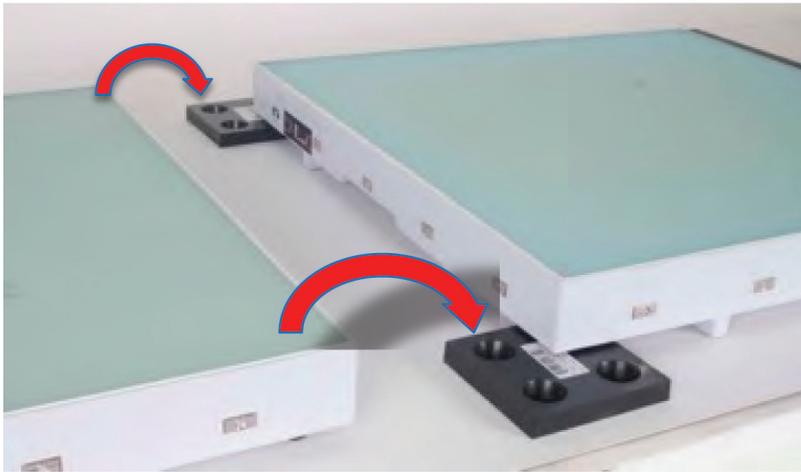
PANEL SET UP INSTRUCTIONS



7. If desired, use the Menu Display screen to configure the settings of the individual panel.(see System Menu section on page 20).



NOTE: Due to panel orientation requirements, the Menu Display screen may not be accessible after additional panels have been installed.



8. Each subsequent panel in the same column should attach to the Menu Display screen side of the panel preceding it and should be oriented so that the arrows on each side of the panel point directly away from the power supply ramps.

The installation procedure for each subsequent panel will follow steps 4 to 7 and should proceed in the direction of power/data flow. When starting a new column, remember to begin with the panel closest to the power supply ramp and proceed in the direction of power/data flow. See the diagram above for reference. Continue in this manner until all panels in your system have been installed.



CAUTION: DO NOT SLIDE PANELS INTO POSITION! THIS MAY RESULT IN EXTENSIVE DAMAGE TO PANEL ELECTRONICS! INSTEAD, PANELS SHOULD BE LIFTED AT THE EDGES AND LOWERED VERTICALLY INTO POSITION.

INSTALLATION INSTRUCTIONS

PANEL SET UP INSTRUCTIONS



9. Once all panels have been placed, install the unpowered edge ramps around the remaining edges of the panel assembly using the docking magnets and the connection brackets.

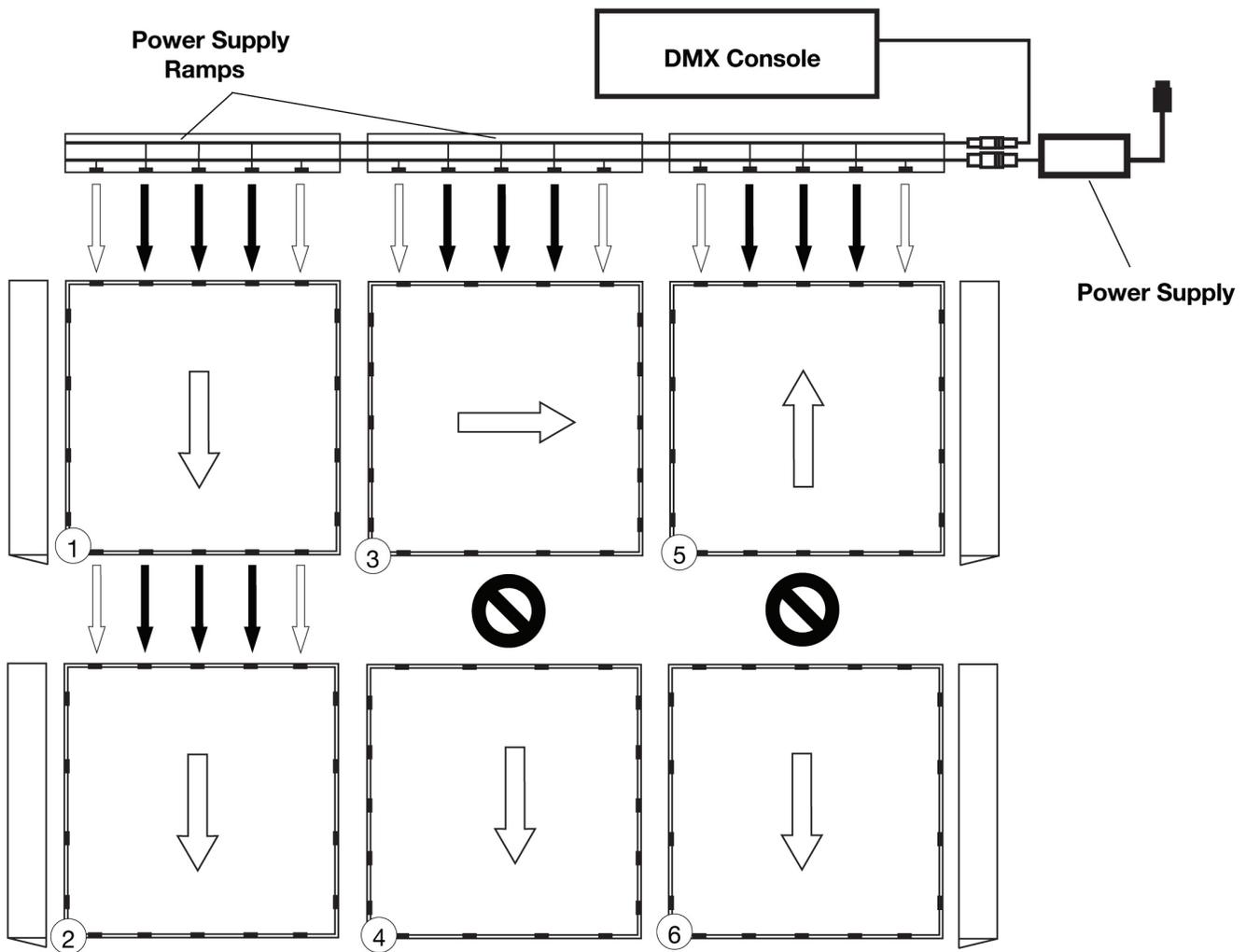


10. Slot the corner ramps in place at each corner of the panel assembly. It can be helpful to lift both adjacent edge ramps slightly in order to align the corner ramp, the edge ramps, and the connection bracket. Once aligned, the three ramp pieces should fall easily into place.

One of the corner ramps includes a small cutout for the power cable and DMX line, and may be used at the corner where the cables run out from the row of power supply ramps. Alternately, this corner may simply be left open.

INSTALLATION COMPLETE!

INSTALLATION INSTRUCTIONS



Panel 1 > Panel 2: Correct. Both panels receive both power and DMX data.

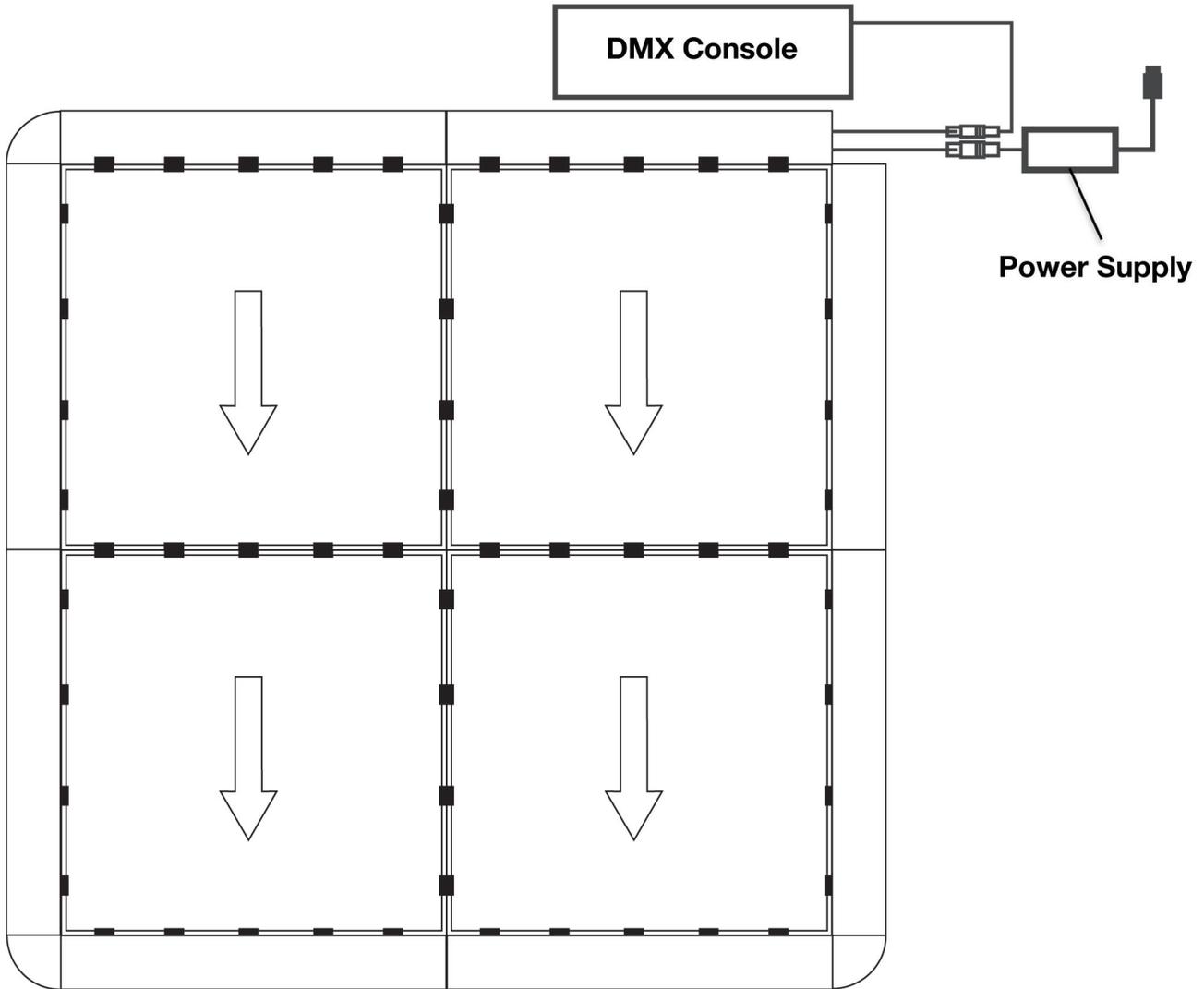
Panel 3 > Panel 4: Incorrect. The top panel is rotated, and connections do not line up with the ramp, and therefore the panel will not receive a signal from the ramp. Any panel(s) installed below the top row will not receive a signal regardless of orientation.

Panel 5 > Panel 6: Incorrect. The top panel is facing the opposite direction of the power and data flow, and therefore the panel will not receive a signal from the ramp. Any panel(s) installed below the top row will not receive a signal regardless of orientation.

NOTE: The actual panels do NOT have arrows on the lighting surface. Instead, the arrows are located along the sides of the panels. In the above drawings, arrows are depicted on the lighting surface solely for the sake of clarity.

INSTALLATION INSTRUCTIONS

The completed installation should resemble the diagram shown below. A four-panel system is depicted as an example, but your system may differ in number of panels.



SYSTEM MENU

Menu	Option	Function
Addr	A001 - A512	Starting DMX address channel. 001 - 512
NodE	CH03	Select DMX channel mode.
	CH05	
	CH07	
	CH10	
nodn	bIAC	Blackout when DMX signal is lost.
	Intr	Defaults to internal programs when DMX signal is lost.
	SEtt	Defaults to manual settings when DMX signal is lost.
	HoLd	Holds last state when DMX signal is lost.
PRI / SECD	SECD	When SECD is set to ON, the unit will be controlled by the Primary unit that is connected in line to it.
	PRI	Unit will be set to Primary and will act as the host for other units.
rxxx	r000 - r255	Manually set the red from 000 - 255.
Gxxx	G000 - G255	Manually set the green from 000 - 255.
bxxx	b000 - b255	Manually set the blue from 000 - 255.
Coxx	Co00 - Co32	Color macros take priority over all manual RGB settings and will be stored and do not reset after a power cycle. See the Color Macros section of this manual for details.
Sxxx	S000 - S255	Manually set the strobe effect.
txxx	t000 - t255	Manually set the master dimmer.
rAnd	SPEED 000 - 255	Random internal program, speed adjustable.
CHAG	SPEED 000 - 255	Color jumper program, speed adjustable.
PuSE	SPEED 000 - 255	Color gradient program, speed adjustable.
CHAS	SPEED 000 - 255	Color pulse program, speed adjustable.
Soun	Sens 000 - 255	Sound active program, adjustable sensitivity.
rESt	REST	RESET - Press and hold ENTER button for a few seconds to restore unit to factory settings.
tInE	xxx H	Total panel usage time.
	xxx H	Total panel power-ON time.
Sxx	Sxx	Software version.

SYSTEM MENU

SAVING SYSTEM MENU SETTINGS: After completing the steps below to configure any of the System Menu settings, press MENU to return to the main menu selection, then continue to press the MENU button until you have completed a full cycle through the menu options (return to Address setting). This step must be completed in order to ensure that the unit remembers the changes you have made after the power has been disconnected.

DMX Mode: Operating through a DMX controller gives the user the freedom to create their own programs tailored to their own individual needs. See the DMX Values & Functions section of this manual for detailed information.

DMX Addressing and Channel Mode: This function will allow you to control each individual fixture's traits with a standard DMX 512 controller.

1. To run your fixture in DMX mode, press the MENU button until "Addr" is displayed. Press ENTER to show the current DMX address, displayed as "Axxx," where "xxx" is the current address.
2. Use the UP or DOWN buttons to select your DMX address, then double press the ENTER button.
3. Press MENU until "Addr" is displayed, indicating that you have returned to the main menu selection.
4. Use the UP and DOWN buttons to scroll to "NodE". Press ENTER to enter Channel Mode selection.
5. Use the UP or DOWN button to scroll to your desired DMX Channel Mode (CH03, CH05, CH07 and Ch10), and double press the ENTER button to select.

No DMX Setup: This mode allows the unit to default to one of four modes if the DMX signal is lost or interrupted.

1. To select your NO DMX Mode, press the MENU button until "nodn" is displayed. Press ENTER to configure the No DMX Mode setup.
2. Press the UP or DOWN button to select one of the four options, then press ENTER to select the desired mode.
 - BLACKOUT = "bIAc". The unit will switch all LED's off if signal is lost.
 - INTERNAL = "Intr". The unit will default to internal programs when the signal is lost.
 - SETTING = "Sett". The unit will go to manual settings when the signal was lost.
 - HOLD = "Hold". The unit will maintain the same settings as before the signal was lost.

Primary/Secondary Mode: This mode allows one panel to control one or more other panels in the system.

1. Press the MENU button until "PRI" or "SECD" is displayed. Press the ENTER button to select the Primary/Secondary Mode setting.
2. To run your fixture in Primary mode, press the UP or DOWN button until "PRI" is displayed, then press the ENTER button to select Primary mode. Please note that only one panel can be set as the "Primary" unit. All other panels in the system must be set as "Secondary" units.
3. To run your fixture in Secondary mode, press the UP or DOWN button until "SECD" is displayed, then press the ENTER button to select Secondary mode. The "Secondary" unit(s) should now start following the "Primary" unit.

Note: (If using multiple secondary fixtures, be sure to set additional fixtures to Secondary Mode as well.)

SYSTEM MENU

Manual Color Mode: Used to manually control the tone of each individual color.

1. Press the MENU button to cycle through the available color options, which are displayed as “X000” – “X255” where “X” represents the color (R, G, or B) and 000-255 represents the current tone for that color. Press the ENTER button to select which color you would like to set.
2. Use the UP or DOWN button to set the color tone. Press the ENTER button to accept.
 - R000-R255 = Manually set the Red color tone.
 - G000-G255 = Manually set the Green color tone.
 - B000-B255 = Manually set the Blue color tone.

Color Macro Mode: Used to select from a list of 32 pre-programmed color macros. See the **Color Macros** section of this manual for detailed information.

1. Press the MENU button until “CoXX” is displayed, where “XX” is a number from 01-32 corresponding to the assigned DMX value of the currently selected color macro. Press the ENTER button to configure the Color Macros Mode.
2. Use the UP and DOWN buttons to select the value of the desired color macro. Press the ENTER button to accept.

Strobe Effect:

1. Press the MENU button until “SXXX” is displayed, where “XXX” is a value between 000 and 255. Press the ENTER button to select the Strobe effect.
2. Use the UP or DOWN buttons to adjust your desired strobe effect between 000-255 then press the ENTER button to select your desired setting.

Total Dimming Effect:

1. Press the MENU button until “TXXX” is displayed, where “XXX” is a value between 000 and 255. Press the ENTER button to select the Total Dimming effect.
2. Use the UP or DOWN buttons to adjust your dimming effect between 000-255 then press the ENTER button to select your desired setting.

Other Program Select Mode: There are five additional programs to choose from (Random Program, Color Jumper, Color Gradient, Color Pulse, and Sound Sensitivity).

1. Press the MENU button to cycle through the different programs in the main menu. Press the ENTER button to select the program. The programs are denoted as follows on the screen:
 - Random Program: “Rand”
 - Color Jumper: “CHAG”
 - Color Gradient: “PuSE”
 - Color Pulse: “CHAS”
 - Sound Sensitivity: “Soun”
2. The screen will then display either “SPEd” or “SEnS” depending on which program is selected. Press the ENTER button again to accept.
3. Use the UP and DOWN buttons to adjust the speed or sensitivity level of the selected program from 000-255, with 000 being the slowest/least sensitive and 255 being the fastest/most sensitive. Press the ENTER button again to accept. Do NOT press MENU again to return to the main system menu, as this will take the panel out of the program mode you have just selected.

SYSTEM MENU

Reset: Resets the unit to factory settings.

1. Press the MENU button until “REST” is displayed. Press the ENTER button to begin the reset process.
2. Long press the ENTER button to confirm the reset and restore the unit to factory settings.

Usage Time: Press the MENU button until “TinE” is displayed. Press the ENTER button to view total product usage time and total product power-on time.

Software Version: Press the MENU button until “S 00” is displayed. Press the ENTER button to view current software version.

DMX VALUES AND FUNCTIONS

MODES

The MDF2 has 4 selectable DMX channel modes: 3, 5, 7, or 10 channels.

Channel				Value	Function
CH03	CH05	CH07	CH10		
1	1	1	1	000 - 255	Red LEDs , 0% - 100%
2	2	2	2	000 - 255	Green LEDs , 0% - 100%
3	3	3	3	000 - 255	Blue LEDs , 0% - 100%
					Color Macros
		4	4	000	No effect
				001 - 255	32 Color Macros, see Color Macros section of this manual for info
					Strobe
		5	5	000 - 031	Off
				032 - 063	On
				064 - 095	Variable Strobe, slow to fast
				096 - 127	On
				128 - 159	Strobe Pulse Effect, slow to fast
				160 - 191	On
				192 - 223	Random Strobe, slow to fast
				224 - 255	On
	4	6	6	000 - 255	Master Dimmer , 0% to 100%
	5	7	7	000 - 255	Master Dimmer Fine
			8	000 - 255	Dimming Speed , fast to slow
					Internal Programs
			9	000 - 010	Maintain
				011 - 060	Random Color Change
				061 - 110	Color Jump
				111 - 160	Color Gradient
				161 - 210	Color Pulse
				211 - 255	Sound Control
			10	000 - 255	Color Change Speed Control , slow to fast - OR - Sound Sensitivity , least to most sensitive

DMX ADDRESSING

All devices should be given a DMX starting address when operating with a DMX controller, in order to ensure that the correct device responds to the correct control signal. This digital starting address is the channel number from which the device starts to “listen” to the digital control signal sent out from the DMX controller. The assignment of this starting DMX address is achieved by setting the correct DMX address on the digital control display on the device.

You can set the same starting address for all devices or a group of devices, or set different addresses for each individual device. Setting all devices to the same DMX address will cause all devices to react in the same way. In this case, please note that changing the settings of one channel will affect all the devices simultaneously.

If you set each device to a different DMX address, each unit will start to “listen” to the channel number you have set, based on the quantity of DMX channels of each device. That means changing the settings of one channel will only affect the selected device.

As an example, when operating a panel in 3-channel mode, you should set the starting DMX address of the first unit to 1, the second unit to 4 (1 + 3), the third unit to 7 (1 + 3 + 3), and so on. (See the chart below for more details.)

Channel Mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
3 Channels	1	4	7	10
5 Channels	1	6	11	16
7 Channels	1	8	15	22
10 Channels	1	11	21	31

COLOR MACROS

COLOR	DMX VALUES	RED	GREEN	BLUE
Off	000			
R02 Bastard Amber	001 - 007	255	206	143
R04 Medium Amber	008 - 015	254	177	153
R09 Pale Amber Gold	016 - 023	254	192	138
R316 Gallo Gold	024 - 031	254	165	98
R21 Golden Amber	032 - 039	254	121	0
R26 Light Red	040 - 047	176	17	0
R27 Medium Red	048 - 055	96	0	11
R36 Medium Pink	056 - 063	234	139	171
R339 Broadway Pink	064 - 071	224	5	97
R344 Follies Pink	072 - 079	175	77	173
R52 Light Lavender	080 - 087	119	130	199
R54 Special Lavender	088 - 095	147	164	212
R57 Lavender	096 - 103	88	2	163
R59 Indigo	104 - 111	0	38	86
R361 Hemsley Blue	112 - 119	0	142	208
R362 Tipton Blue	120 - 127	52	148	209
R64 Light Steel Blue	128 - 135	1	134	201
R67 Light Sky Blue	136 - 143	0	145	212
R68 Sky Blue	144 - 151	0	121	192
R69 Brilliant Blue	152 - 159	0	129	184
R76 Light Green Blue	160 - 167	0	83	115
R79 Bright Blue	168 - 175	0	97	166
R80 Primary Blue	176 - 183	1	100	167
R382 Congo Blue	184 - 191	0	40	86
R87 Pale Yellow Green	192 - 199	209	219	182
R89 Moss Green	200 - 207	42	165	85
R91 Primary Green	208 - 215	0	46	35
L200 Double CTB	216 - 223	8	107	222
L201 Full CTB	224 - 231	107	156	231
L202 Half CTB	232 - 239	165	198	247
L119 Dark Blue	240 - 247	0	0	189
White	248 - 255	255	255	255

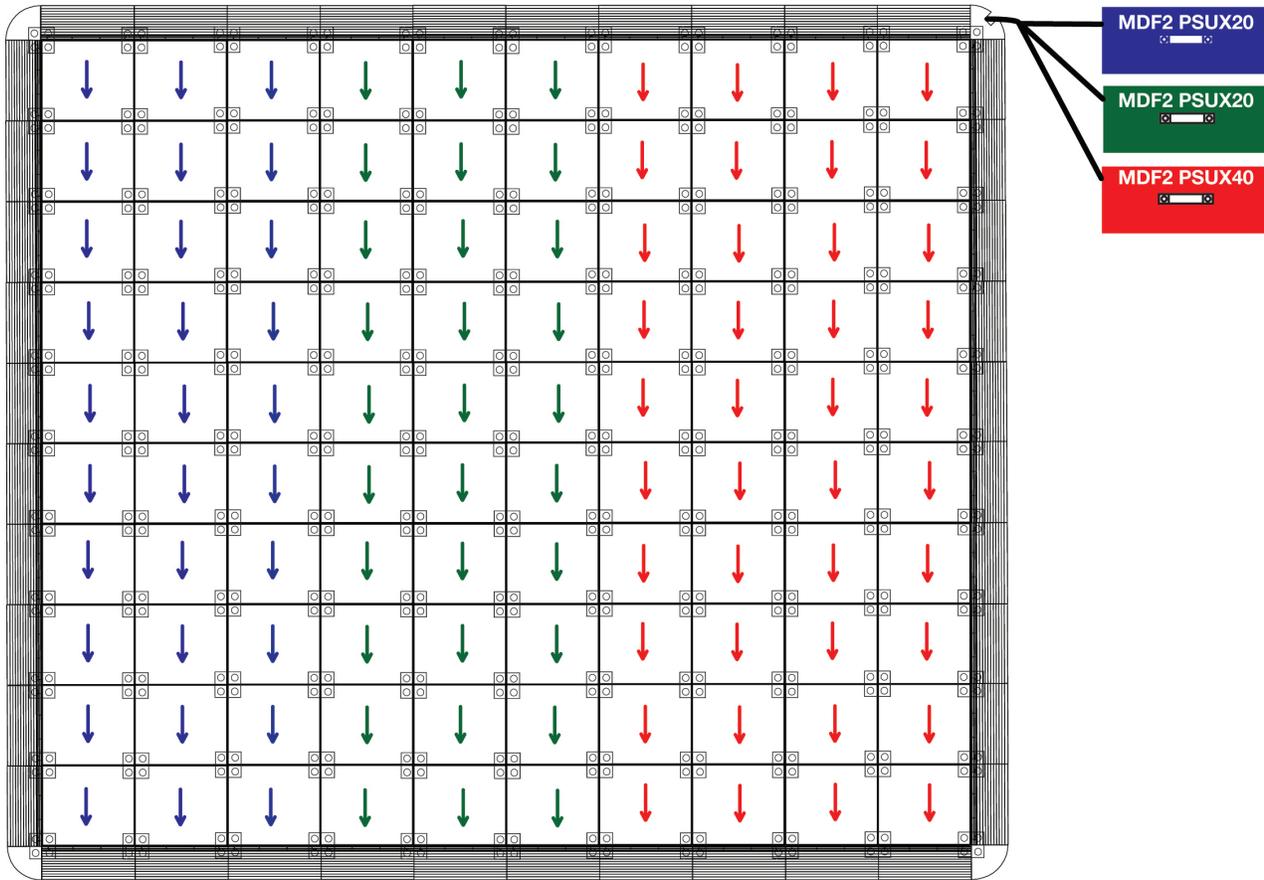
LARGE DANCE FLOOR SET UPS

Additional panels, hardware, and power supplies are available to create larger dance floor sizes. See example below and refer to the **Optional Accessories** section of this manual for details.



NOTE: Each model power supply supports a specific number of panels. Multiple power supply units are required to support larger dance floor sizes.

20 x 20 SQUARE FEET DANCE FLOOR EXAMPLE



TROUBLE SHOOTING TIPS

One or more panels do not illuminate:

1. Check if panels are correctly installed and make sure none of the magnets are missing or mis-aligned.
2. Check if the power supply(s) have AC power and are turned ON.
3. Locate the circuit breaker that the AC outlet the power supply(s) is connected to and confirm it has not been tripped.
4. Check if the power cord from the power supply(s) is damaged or cut.
5. If none of these solutions work, please contact ADJ Customer Service.

One or more panels do not respond to DMX:

1. Check if panels are correctly installed and make sure none of the magnets are missing or mis-aligned.
2. Check all DMX cables are connected to the correct input and output connectors.
3. Check if any of the DMX cables are damaged or cut.

One or more panels do not respond sound:

1. Quiet or high-pitched sounds will not activate the panels.
2. Confirm panels are all in CH10 DMX Mode and DMX Channel 9 value is set to 211-255.

FREQUENTLY ASKED QUESTIONS

Is there a fuse that can be replaced on the panel?

No. The panels do not have a replaceable fuse. However, there is a replaceable fuse located on the Power Supply(s). If the fuse is intact and the system still does not operate, please contact ADJ customer service.

What is the maximum number of panels that can be linked together?

The maximum number of linkable panels is limited by the total number of panels supported by the power supply used. The system comes with a power supply which can support up to 9 total panels max. If using more panels, a larger and/or multiple power supply(s) is required. See the ***Optional Accessories*** section of this manual for details on power supplies to accommodate larger setups.

Are replacement end pieces and corners available for purchase?

Yes. Please visit www.adj.com for additional/replacement parts and accessories.

REMOVAL INSTRUCTIONS

PANEL REMOVAL TOOL OVERVIEW

To facilitate the disassembly process, ADJ offers a Panel Removal Tool (part number MDF368) as an optional accessory. (not included)



CAUTION: DURING ASSEMBLY OR DISASSEMBLY, DO NOT SLIDE PANELS INTO OR OUT OF POSITION! THIS MAY RESULT IN EXTENSIVE DAMAGE TO PANEL ELECTRONICS! INSTEAD, PANELS SHOULD BE RAISED OR LOWERED VERTICALLY INTO OR OUT OF POSITION

REMOVAL INSTRUCTIONS

PANEL REMOVAL TOOL USAGE INSTRUCTIONS

For the sake of clarity, the images that follow depict the use of a single panel removal tool. However, it is recommended to use two (2) panel removal tools in order to minimize the risk of droppage or electronic damage due to the sliding of panels during removal or installation.



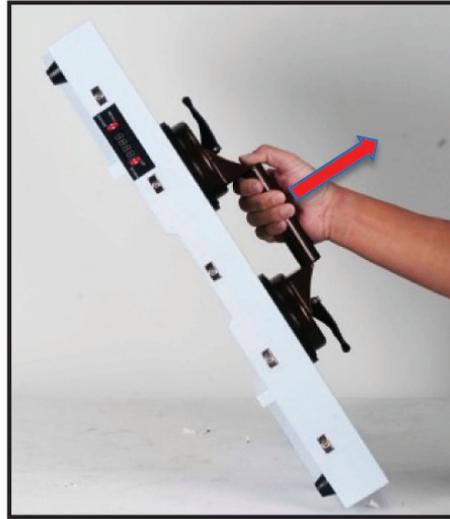
1. Make sure that both Suction Cup Levers are in the upward position.



2. Use the Grip Handle to press the Suction Cup Discs firmly against the lighting surface of the Magnetic Dance Floor Panel and move both Suction Cup Levers to the downward position. The Panel Removal Tool should now be firmly attached to the Magnetic Dance Floor Panel.

REMOVAL INSTRUCTIONS

PANEL REMOVAL TOOL USAGE INSTRUCTIONS



3. Use the Panel Removal Tool to lift the Magnetic Dance Floor Panel out of its installed position.



CAUTION: DO NOT SLIDE PANELS INTO OR OUT OF POSITION! THIS MAY RESULT IN EXTENSIVE DAMAGE TO PANEL ELECTRONICS! INSTEAD, PANELS MUST BE LIFTED VERTICALLY INTO OR OUT OF POSITION.



4. To detach the Panel Removal Tool from the Magnetic Dance Floor Panel, move both suction cup levers to the upward position.



CAUTION: MAINTAIN A FIRM HOLD ON THE SUCTION CUP LEVERS AND LIFT THEM SLOWLY TO THE UPWARD POSITION. FLIPPING THE SUCTION CUP LEVERS WITHOUT MAINTAINING A FIRM HOLD WILL CAUSE THE LEVERS TO SNAP UPWARD, WHICH MAY CAUSE THE LEVERS TO STRIKE THE USER'S HANDS OR FINGERS, OR CAUSE DAMAGE TO THE LEVERS.

REMOVAL INSTRUCTIONS

PANEL REMOVAL TOOL USAGE INSTRUCTIONS



5. The Panel Removal Tool can now be removed from the Magnetic Dance Floor Panel.



NOTE: AFTER DISASSEMBLY HAS BEEN COMPLETED, THE FEET OF EACH PANEL SHOULD BE RETURNED TO THE LOWEST HEIGHT POSITION. FAILING TO DO SO CAN RESULT IN DAMAGE TO THE FEET WHEN THE PANEL IS PLACED BACK INTO THE FLIGHT CASE.

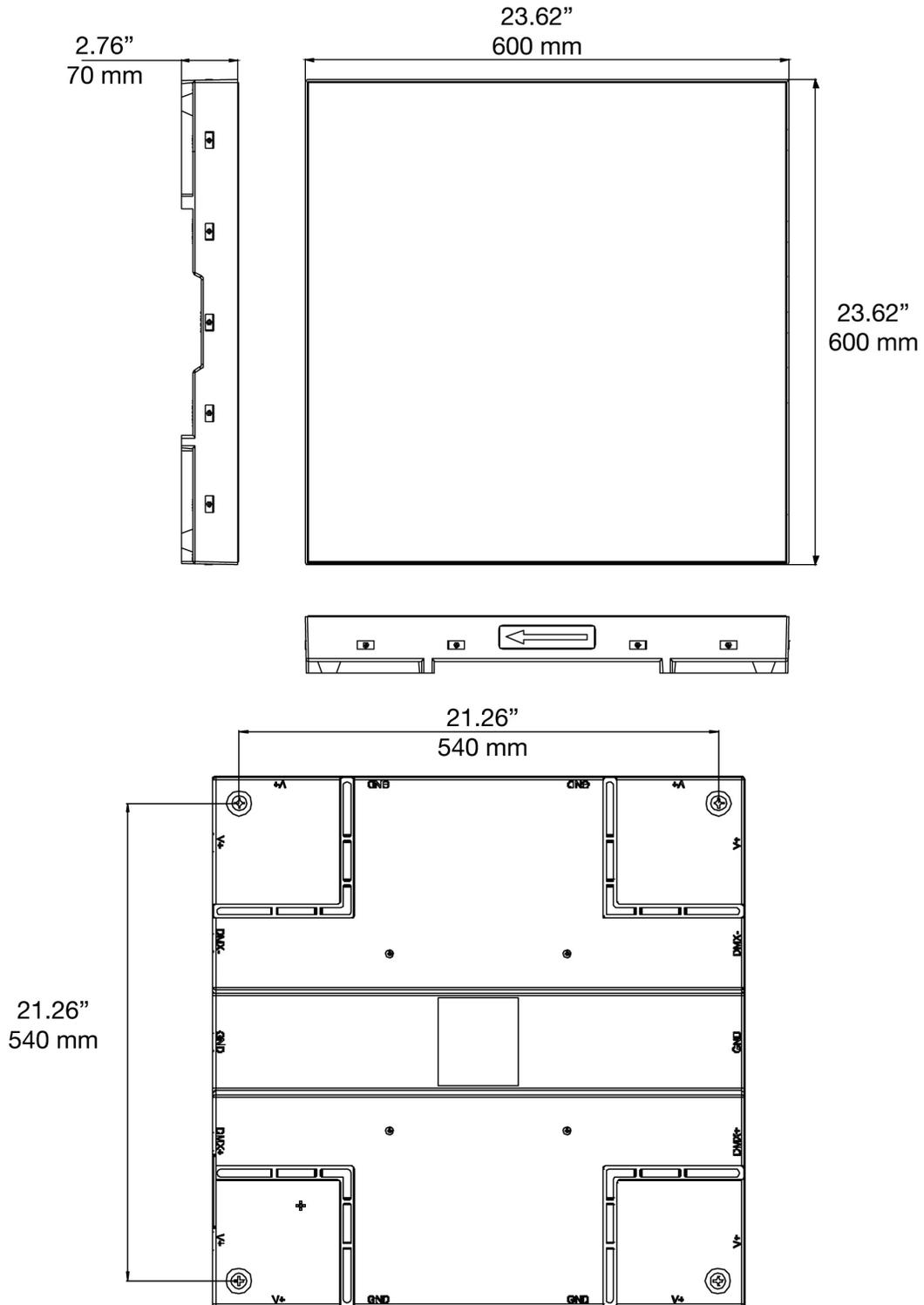


TECHNICAL SPECIFICATIONS

MDF2 DANCE FLOOR PANEL	
<i>Input Voltage</i>	DC 24V
<i>Max Power Consumption</i>	15 W
<i>Input Signal</i>	DMX512 (3-pin XLR)
<i>Control Mode</i>	DMX512, Manual, Auto Programs, Sound Active
<i>DMX Channel Mode</i>	3, 5, 7, & 10 Channel Modes
<i>Light Source</i>	RGB 3-in-1
<i>Visual Angle</i>	160 Degrees
<i>Brightness</i>	High Brightness
<i>Surface Material</i>	Tempered Glass
<i>Base Material</i>	ABS
<i>Bearing Weight</i>	61.5 lbs/sq.ft. (300 kg/sq.meter)
<i>Working Temperature</i>	-4 deg F ~ 113 deg F (-20 deg C ~ 45 deg C)
<i>Weight</i>	26.57 lbs (12.05 kg)
<i>Warranty</i>	2 Year (730 Days)

Specifications subject to change without notice.

DIMENSIONAL DRAWINGS



Drawings may not be shown to scale.

OPTIONAL ACCESSORIES

Order Code	Description
MDF200	Magnetic Dance Floor Panel
MDF232	x9 Panel Power Supply
MDF248	x15 Panel Power Supply
MDF264	x20 Panel Power Supply
MDF281	x40 Panel Power Supply
MDF297	16ft (4.9m) Power Cable to Ramp
MDF313	20ft (6.0m) Power Cable to Ramp
MDF320	25ft (7.6m) Power Cable to Ramp
MDF336	50ft (15.2m) Power Cable to Ramp
MDF352	Floor Connection Bracket
MDF368	Removal Tool
MDF384	Power Ramp
MDF401	Dummy Ramp
MDF417	Solid Corner Ramp
MDF433	9 Panel Empty Flight Case
MDF459	Main Cable Inlet Corner Ramp
MDF472	4 Corner Ramp Set (3 Solid + 1 Inlet)

