



# **MDF2BLK**

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!

## **D O C U M E N T   V E R S I O N**



**Due to additional product features and/or enhancements, an updated version of this document may be available online. Please scan the QR Code with your mobile device or visit [www.adj.com](http://www.adj.com) for the latest revision/update of this manual, before installation and/or programming.**

| Date     | Document Version | DMX Channels | Notes            |
|----------|------------------|--------------|------------------|
| 06/03/20 | 1.0              | None         | Initial Release. |

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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 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](https://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](mailto: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](mailto:support@adj.eu)

**REPLACEMENT PARTS** please visit [parts.adj.com](https://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 warrant 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 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; DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THE PANELS AND INCLUDED AND 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 – DEVICE IS PROTECTED AGAINST DAMAGE FROM DUST INTRUSION AND MODERATE WATER JETS FROM ANY DIRECTION!**

**INDOOR USE ONLY! PANELS ARE NOT FULLY WATERPROOF AND NOT FOR OUTDOOR USE!**

**PANEL SURFACE MAY BECOME A SLIP HAZARD IF EXPOSED TO LIQUIDS. KEEP PANEL SURFACE DRY FROM LIQUIDS SUCH AS SPILLED DRINKS TO PREVENT SLIPPING HAZARDS!**

**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 IP RATED FOR OUTDOOR USE! 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)!**

# 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, avoid brute force when installing and/or operating.

**DO NOT** apply masking or stage tape to panel surface to prevent sticky adhesive residue build-up.

**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, there are NO user serviceable parts inside.

**ALWAYS** disconnect 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:

- Power cords and/or plugs have become damaged
- Heavy objects have fallen onto them
- Exposed to rain and/or dampness/moisture
- 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. Clean the panel surface with a soft dry cloth to remove any dust, moisture, or liquid residue. Use glass cleaner such as Windex, Zep or Repel 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 other service issues to an authorized ADJ service technician. Should you need any spare parts, please order genuine parts from your local ADJ dealer.

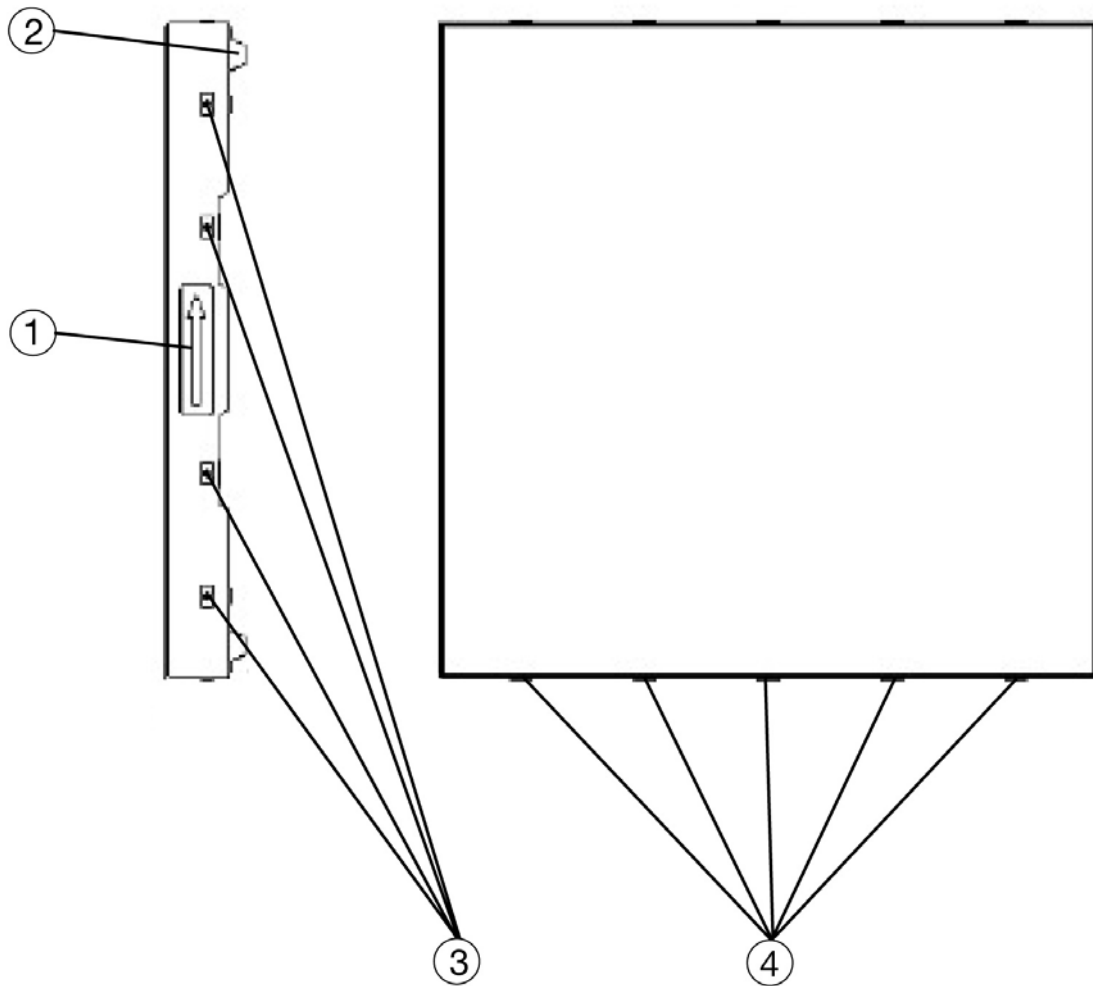
Please refer to the following points during routine inspections:

- 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

The MDF2BLK is designed to be used in conjunction with one or more illuminated MDF2 panels in order to create a checker-board effect. Please note that the MDF2BLK does NOT include any LEDs or intelligence, and is intended simply to pass power and data signal to and from adjacent panels via its magnetic circuit ports.



1. Directional Arrow
2. Adjustable Foot
3. Docking Magnets
4. Lighting Circuit Ports

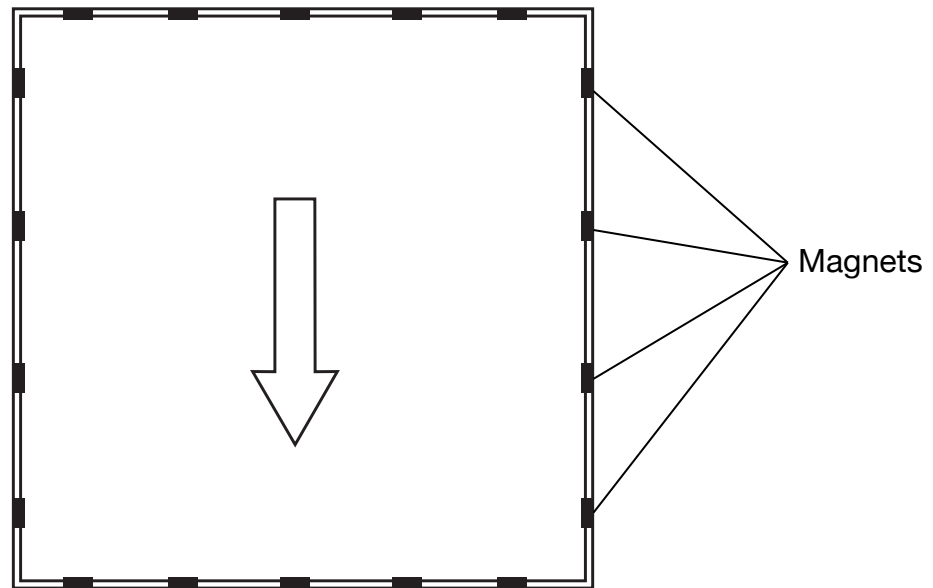
## **NOTE REGARDING THE LOCATION OF DOCKING MAGNETS AND LIGHTING CIRCUIT PORTS:**

- *Lighting Circuit Ports are located along the panel edges that are NOT marked with a Directional Arrow, and include integrated magnets to aid with assembly. Five (5) of these ports are located along each edge.*
- *Docking Magnets are located along the panel edges that are marked with a Direction Arrow, and do not have any capability to receive or transmit power or signal. Four (4) magnets are located along each edge.*

# OVERVIEW

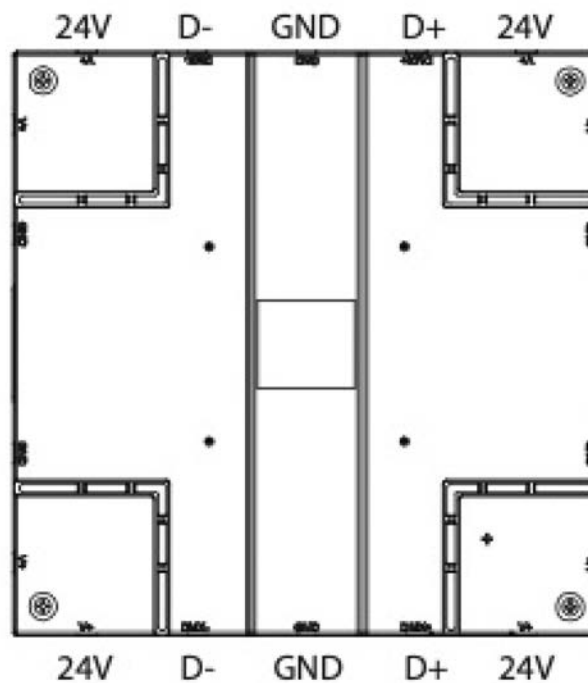
## DOCKING MAGNETS

Each panel has built in docking magnets to assist in installation and hold the panels together. These magnets do not have the capability to receive or transit power or signal.



## LIGHTING CIRCUIT PORTS

Each panel has built in circuit ports that connect together using the docking magnets.



# INSTALLATION INSTRUCTIONS

## PANEL SET UP INSTRUCTIONS



1. Use the built-in magnet on the Lighting Circuit Ports to connect the blackout panel to any of the power supply ramps or panels that have already been set in place. Make sure that each foot on the blackout panel slots into the holes in the Connection Brackets. Adjust the position of the Connection Brackets as needed to align them with the blackout panel feet. The blackout 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 blackout panel will NOT receive or transmit power or DMX signal.



**CAUTION: DO NOT SLIDE PANELS INTO POSITION! THIS MAY RESULT IN EXTENSIVE DAMAGE TO PANEL ELECTRONICS! INSTEAD, PANEL SHOULD BE LIFTED AT THE EDGES AND DROPPED VERTICALLY INTO POSITION. A PANEL REMOVAL TOOL IS AVAILABLE FROM ADJ TO AID IN THIS PROCESS.**

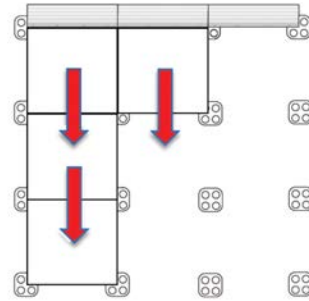


2. Check that the panel is stable and does not wobble. If wobbling is detected, the panel feet may be adjusted to compensate. To adjust the feet, simply twist to alter the height.

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

# INSTALLATION INSTRUCTIONS

## PANEL SET UP INSTRUCTIONS



3. Each subsequent panel in the same column should attach to the edge of the preceding panel that does NOT feature the Directional Arrow, as illustrated in the image at the above left. Panels should be oriented so that the arrows on each side of the panel point directly away from the power supply ramps.

The order of panel installation 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 at the above right 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, PANEL SHOULD BE LIFTED AT THE EDGES AND DROPPED VERTICALLY INTO POSITION. A PANEL REMOVAL TOOL IS AVAILABLE FROM ADJ TO AID IN THIS PROCESS.**

## TROUBLE SHOOTING TIPS

### ***One or more panels do not respond to DMX:***

1. Check that panels are correctly aligned and none of the magnets are missing.
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.

## FREQUENTLY ASKED QUESTIONS

Listed below are a few answers to common questions users may have.

### **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.

# PANEL REMOVAL TOOL INSTRUCTIONS

## TOOL OVERVIEW

To facilitate the disassembly process, ADJ offers a Panel Removal Tool (**part number MDF675**) as an optional accessory. (not included)



1. Suction Cup Disc
2. Suction Cup Lever
3. Grip Handle



**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 LIFTED OR LOWERED VERTICALLY INTO OR OUT OF POSITION.**

# PANEL REMOVAL TOOL INSTRUCTIONS

## USAGE INSTRUCTIONS

For the sake of simplicity, 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 the Suction Cup Lever is in the downward position.



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

# PANEL REMOVAL TOOL INSTRUCTIONS

## USAGE INSTRUCTIONS



3. Use the Panel Removal Tool to lower the Magnetic Dance Floor Panel into position, or to lift it out of its installed position.



**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 LIFTED OR LOWERED VERTICALLY INTO OR OUT OF POSITION.**



4. To detach the Panel Remove Tool from the Magnetic Dance Floor Panel, move the Suction Cup Lever to the downward position.



**CAUTION: MAINTAIN A FIRM HOLD ON THE SUCTION CUP LEVER AND LOWER IT SLOWLY TO THE DOWNWARD POSITION. FLIPPING THE SUCTION CUP LEVER DOWNWARD WITHOUT MAINTAINING A FIRM HOLD WILL CAUSE THE LEVER TO SNAP DOWNWARD, WHICH MAY CAUSE THE LEVER TO STRIKE THE USER'S HANDS OR FINGERS.**



# PANEL REMOVAL TOOL INSTRUCTIONS

## 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.**



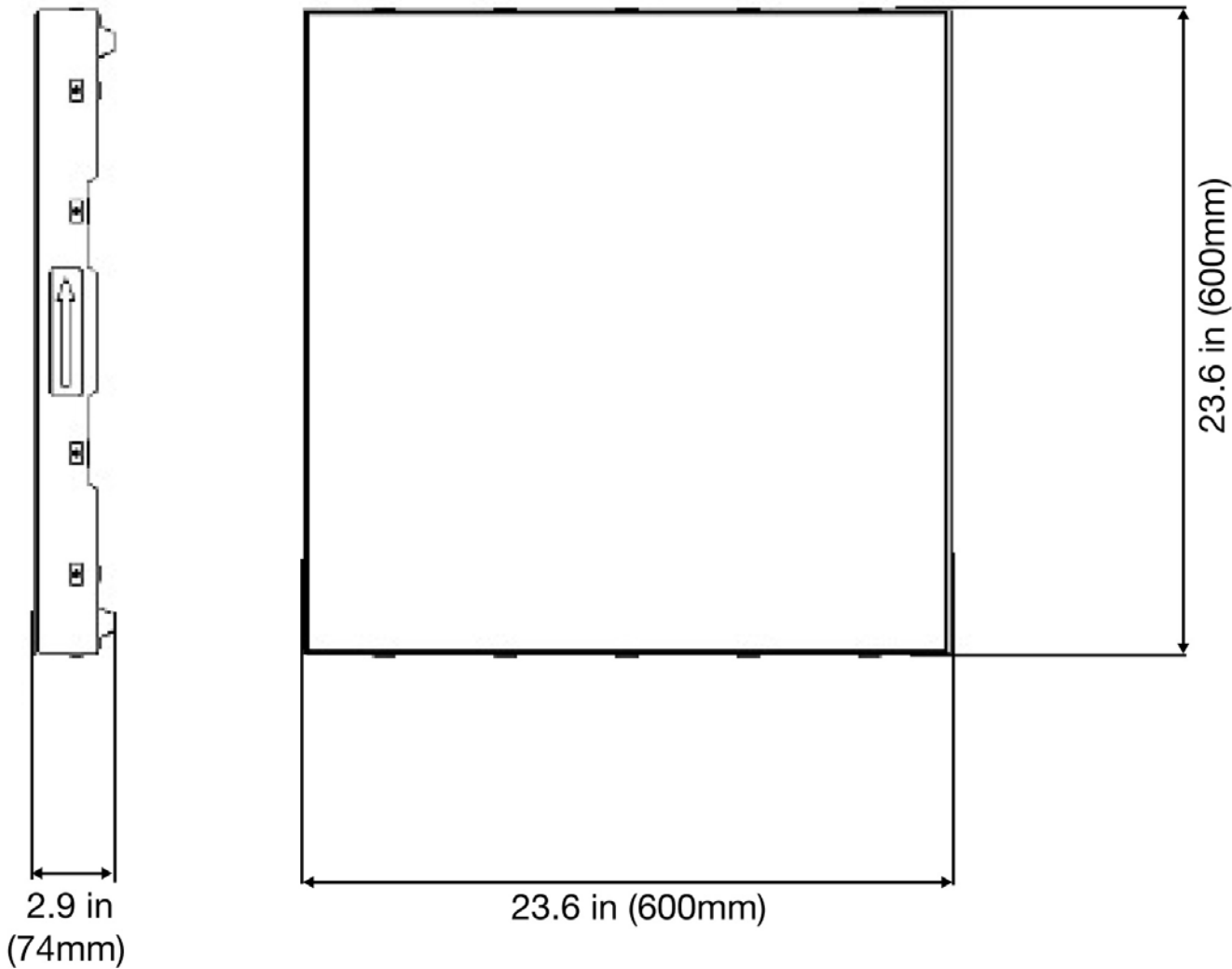
## TECHNICAL SPECIFICATIONS

| MDF2BLK DANCE FLOOR PANEL |   |
|---------------------------|---|
| Input Voltage             | DC 24V  |
| Input Signal              | DMX512 (3-Pin XLR)                                  |
| Surface Material          | Tempered Glass                                      |
| Base Material             | ABS   |
| Bearing Weight            | 61.5 lbs./ft <sup>2</sup> (300 kgs/m <sup>2</sup> ) |
| Working Temperature       | -4°~113°F (-20°~45°C)                               |
| Weight                    | 25.0 lbs (11.3 kg)                                  |
| Warranty                  | 2 Year (730 Days)                                   |

**Specifications subject to change without notice.**

# DIMENSIONAL DRAWINGS

\*drawings not to scale



**SKU#:** MDF555  
**UPC#:** 818651028553