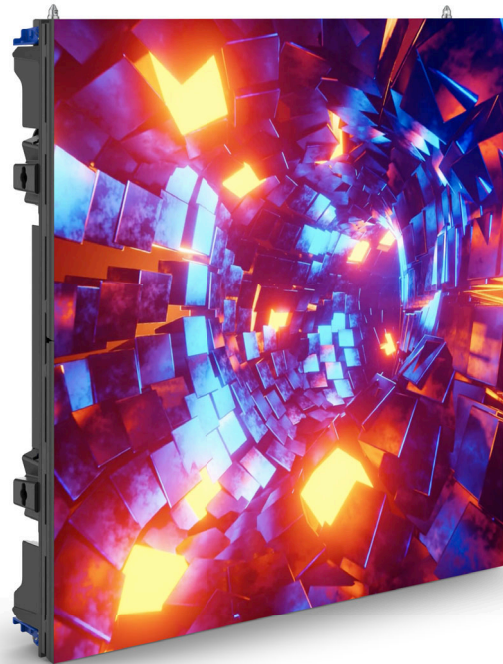
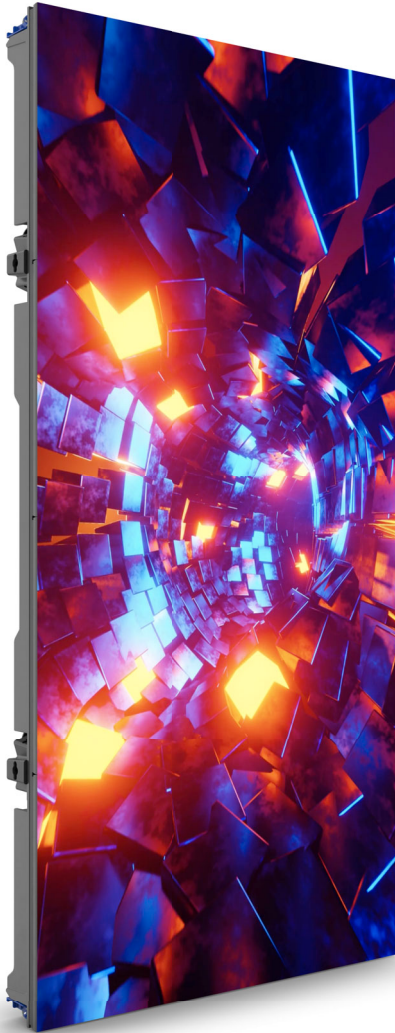


# REM 3IP

# REM 3IP<sub>SQ</sub>

## User Manual



Model ID: REM3IP  
Model ID: REM3IPSQ

## Edition Notes

The REM 3IP and REM 3IPSQ User Manual includes a description, safety precautions, installation, programming, operation and maintenance instructions for the REM 3IP and REM 3IPSQ as of the release date of this edition.

## Trademarks

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## Manual Use

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## Document Printing

For best results, print this document in color, on letter size paper (8.5 x 11 in), double-sided. If using A4 paper (210 x 297 mm), configure the printer to scale the content accordingly.

## Intended Audience

Any person installing, operating, and/or maintaining this product should completely read through the guide that shipped with the product, as well as this manual, before installing, operating, or maintaining this product.

## Disclaimer

Chauvet believes that the information contained in this manual is accurate in all respects. However, Chauvet assumes no responsibility and specifically disclaims any and all liability to any party for any loss, damage or disruption caused by any errors or omissions in this document, whether such errors or omissions result from negligence, accident or any other cause. Chauvet reserves the right to revise the content of this document without any obligation to notify any person or company of such revision, however, Chauvet has no obligation to make, and does not commit to make, any such revisions.

## Document Revision

Go to [www.chauvetprofessional.com](http://www.chauvetprofessional.com) for the latest version.

Revision	Date	Description
6	11/2025	Updated screws in the Introduction section

## TABLE OF CONTENTS

<b>1. Before You Begin .....</b>	<b>1</b>
What Is Included .....	1
Claims.....	1
Text Conventions.....	1
Symbols .....	1
Safety Notes .....	2
FCC Statement of Compliance .....	3
Expected LED Lifespan .....	3
<b>2. Introduction .....</b>	<b>4</b>
Features.....	4
Required Accessories.....	4
Optional Accessories .....	4
Available Power Cables.....	4
Product Overview .....	5
Pixels per Panel.....	6
REM 3IP and REM 3IPSQ LED Module Removal.....	7
Removing a Module from the Rear.....	7
Removing and Replacing the LED Masks .....	8
Scrambled Pulse-Width Modulation .....	8
Product Dimensions .....	9
<b>3. Setup .....</b>	<b>10</b>
AC Power .....	10
AC Plug.....	10
Power Linking .....	10
<b>4. Mounting .....</b>	<b>11</b>
Orientation .....	11
Mounting Points.....	11
REM-RB 50CM IP CURVE Dual Function Rig Bar Dimensions.....	12
REM-RB 100CM IP Dual Function Rig Bar Dimensions .....	12
Mounting/Hanging with Dual Function Rig Bar .....	13
Curving the Panels .....	14
Adjusting the Height .....	14
Truss Installation.....	15
Mounting/Stacking with Dual Function Rig Bar .....	16
Removing the Feet .....	16
Flat Wall Installation .....	17
Mounting Points on a Flat Wall .....	17
Mounting with Steel Struts .....	17
Spacers.....	18
Safety Cable Installation .....	19
<b>5. Joining Each REM 3IP and REM 3IPSQ.....</b>	<b>20</b>
Vertically Joining the Panels.....	20
Vertical Panel Connection .....	21
Horizontally Joining the Panels .....	22
Horizontal Panel Connection .....	22

<b>6. Connecting &amp; Cabling Each REM 3IP and REM 3IPSQ .....</b>	<b>23</b>
Testing Signal and Power Connections.....	23
Using the REM 3IP and REM 3IPSQ Test Button .....	23
Connecting Power and Signal Cables .....	24
Connecting the Signal Between Joined Panels .....	24
Signal Chain Rectangles .....	25
Connecting the Power Between Joined Panels.....	26
<b>7. LED Module Care and Replacement.....</b>	<b>27</b>
REM 3IP and REM 3IPSQ Modules .....	27
Module Description .....	27
Calibration Recall.....	27
<b>8. REM 3IP and REM 3IPSQ Serviceability.....</b>	<b>28</b>
<b>9. Typical REM 3IP and REM 3IPSQ Hanging Installation .....</b>	<b>29</b>
<b>10. Operation .....</b>	<b>30</b>
Additional Hardware and Software .....	30
About Nova VMP .....	30
Description.....	30
Receiver Card Configuration Files.....	30
Operating Nova VMP.....	31
Selecting a Processor.....	31
Selecting a Signal Source.....	32
Customizing the Canvas.....	33
Mapping Video Panels.....	35
Changing the Video Panel Orientation .....	37
Rotating the Video Panel Orientation .....	38
Updating Cabinet Firmware .....	39
Updating Controller Firmware.....	40
<b>11. Technical Information .....</b>	<b>41</b>
REM 3IP and REM 3IPSQ Maintenance .....	41
<b>12. Technical Specifications .....</b>	<b>42</b>
<b>Contact Us .....</b>	<b>45</b>
Warranty & Returns .....	45



## Before You Begin

# 1. Before You Begin

## What Is Included

### REM3IP

- 1 case (REM3IP X4)
- 1 Seetronic® PowerKON® power cable
- 4 Seetronic® PowerKON® power linking cables
- 4 Seetronic® etherKON® signal linking cables
- 5 spare LED masks
- User manual

### REM3IPSQ

- 1 case (REM3IPSQ X8)
- 1 Seetronic® PowerKON® power cable
- 8 Seetronic® PowerKON® power linking cables
- 8 Seetronic® etherKON® signal linking cables
- 5 spare LED masks
- User manual

## Claims

Carefully unpack the product immediately and check the container to make sure all the parts are in the package and are in good condition.





If the box or the contents (the product and included accessories) appear damaged from shipping, or show signs of mishandling, notify the carrier immediately, not Chauvet. Failure to report damage to the carrier immediately may invalidate a claim. In addition, keep the box and contents for inspection.

For other issues, such as missing components or parts, damage not related to shipping, or concealed damage, file a claim with Chauvet within 7 days of delivery.

## Text Conventions

Convention	Meaning
<b>1–512</b>	A range of values
<b>50/60</b>	A set of values of which only one can be chosen
<b>Settings</b>	A menu option not to be modified
<b>Menu &gt; Settings</b>	A sequence of menu options to be followed
<b>&lt;ENTER&gt;</b>	A key to be pressed on the product's control panel

## Symbols

Symbol	Meaning
	Critical installation, configuration, or operation information. Not following these instructions may make the product not work, cause damage to the product, or cause harm to the operator.
	Important installation or configuration information. The product may not function correctly if this information is not used.
	Useful information.
	Pinch point warning.

## Safety Notes

Read all the following safety notes before working with this product. These notes contain important information about the installation, usage, and maintenance of this product.



**This product contains no user-serviceable parts. Any reference to servicing in this User Manual will only apply to properly trained, certified technicians. Do not open the housing or attempt any repairs.**



**All applicable local codes and regulations apply to proper installation of this product.**

- **CAUTION:**

- This product's housing may be hot when operating. Mount this product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
- When transferring the product from extreme temperature environments, (e.g., cold truck to warm humid ballroom) condensation may form on the internal electronics of the product. To avoid causing a failure, allow the product to fully acclimate to the surrounding environment before connecting it to power.

- **ALWAYS:**

- Use a safety cable when mounting this product overhead.
- Connect this product to a grounded and protected circuit.

- **DO NOT:**



- Open this product. It contains no user-serviceable parts.
- Leave any flammable material within 50 cm of this product while operating or connected to power.
- Connect this product to a dimmer or rheostat.
- Operate this product if the housing, lenses, or cables appear damaged.
- Submerge this product (IP65). Regular outdoor operation is fine.
- Operate this product at an altitude exceeding 5000m.
- ONLY use the hanging/mounting bracket to carry this product.
- ONLY mount this product in a vertical orientation as shown in this manual. Mounting in other ways may result in serious injury.
- The minimum startup temperature is -4°F (-20°C). Do not start the product at lower temperatures.
- The maximum ambient temperature is 95°F (35 °C). Do not operate this product at higher temperatures.
- To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.
- In the event of a serious operating problem, stop using immediately.



**If this Chauvet product requires service, contact Chauvet Technical Support.**

## Before You Begin

---

### FCC Statement of Compliance

This device complies with Part 15 Part B 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.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



**The use of certain substances in electrical and electronic equipment is restricted with the EU. For further information, see directive 2011/65/EU.**

### Expected LED Lifespan

Over time, use and heat will gradually reduce LED brightness. Clustered LEDs produce more heat than single LEDs, contributing to shorter lifespans if always used at full intensity. The average LED lifespan is 40,000 to 50,000 hours. To extend LED lifespan, maintain proper ventilation around the product, and limit the overall intensity.

## 2. Introduction

### Features

- 3.9 mm pitch, high resolution, modular, indoor/outdoor hybrid video panel
- Map and scale your wall with the Novastar MX40 Pro sender
- Universal, magnetic LED modules for easy replacement and servicing
- Magnetic-assisted hanging integrated into frames makes building a screen fast and easy with minimal labor/effort required
- REM3IP offered in two physical sizes: 1 m x 0.5 m, 0.5 x 0.5 m (special order)
- Integrated curving capabilities for concave and convex configurations
- Spring-loaded corner protection for safe transportation and handling
- Operating in the DCI-P3 color space and driven via the premium A10s Pro receiver card from Novastar, black frame, white reflector LEDs accurately reproduce video at 22-bit+ grayscale and a wide color gamut
- High performance LED drivers deliver 7,680 Hz refresh rate for camera-friendly operation in high-demand applications
- Low latency and HDR10 supported for VR/XR studio, live applications
- Design allows for overhead hanging, ground stacking, and wall mounting, maximized for multiple applications
- Specialized anti-reflective coating applied to the front of LED modules ensures optimal viewing comfort
- Ground support/stacking system available in scalable road case-GROUNDSUPPORT2KIT

### Required Accessories

- Required Software: NovaVMP
- Controller (required): Novastar MX40 Pro
- Compatible Mounting Options: REM Rig Bar (0.5 m, 1 m lengths offered,) M10, 1.5 Bolt/Clamp (rear or surface mounting), GROUNDSUPPORT2KIT (floor mounting)

### Optional Accessories

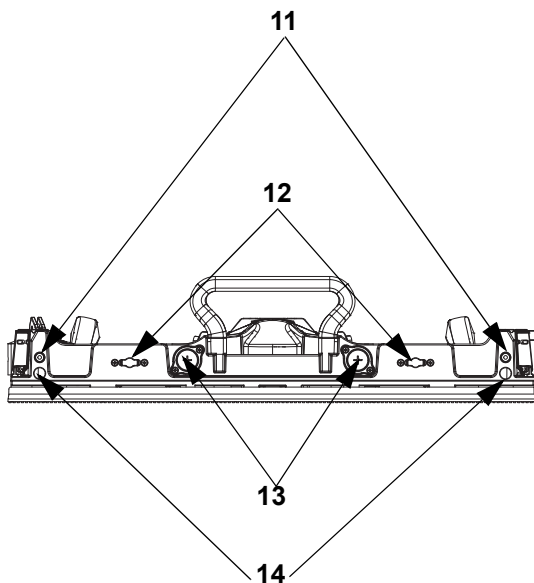
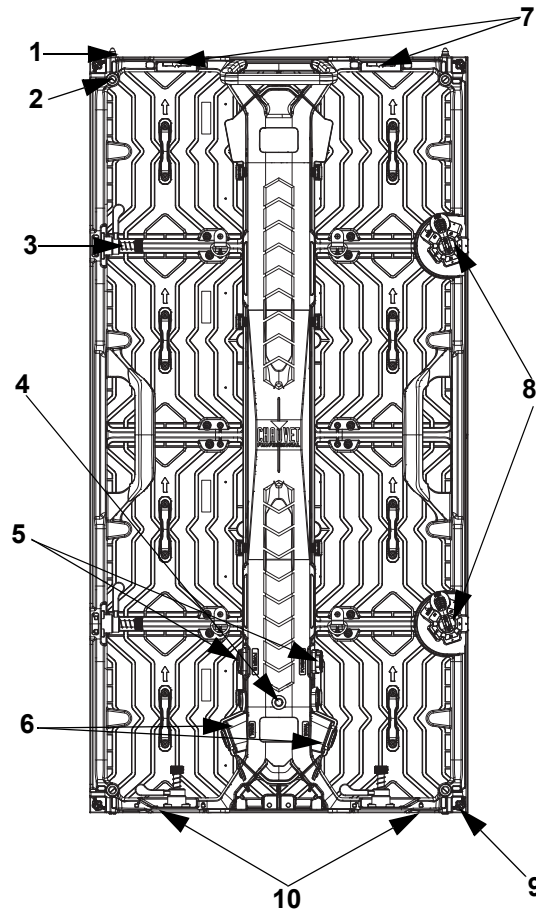
- |                           |                                      |
|---------------------------|--------------------------------------|
| • Clamps                  | • REM-RB50CMIP CURVE                 |
| • Neutrik powerKON cables | • GROUNDSUPPORT2KIT                  |
| • Neutrik etherCON cables | • MT07 Universal Module Removal Tool |
| • REM-RB100CMIP           |                                      |

### Available Power Cables

Power cables (Seetronic® Powerkon Power Extensions)

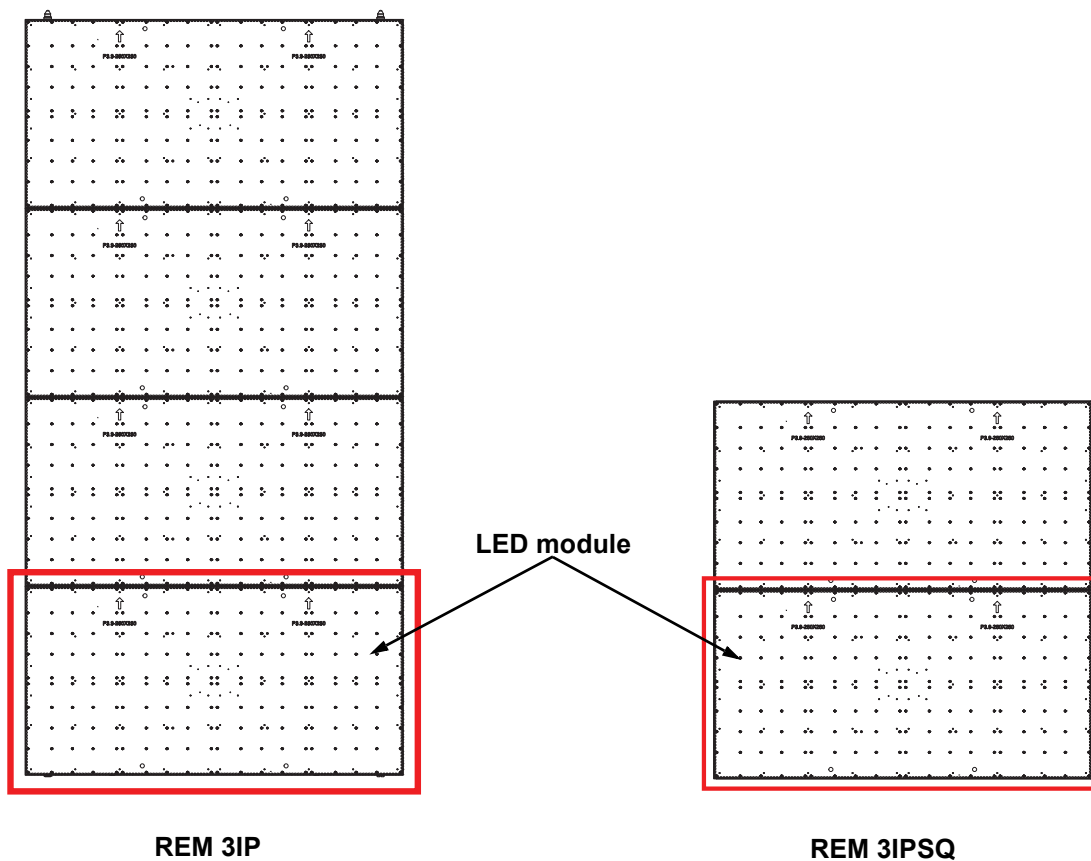
- IP65 Rated Seetronic® Powerkon Extension,
  - 5 ft
  - 10 ft
  - 25 ft

## Product Overview



#	Name
1/11	Alignment conical (x2)
2	M10 threaded mounting hole (x4)
3	Latch (x4)
4	Test button power/ signal indicator LEDs
5	Seetronic powerkon in/ out
6	Seetronic etherkon signal through port (x2)
7/12	Receiver
8	Curve receiver
9	Corner protector (x4)
10	Alignment bolts (x4)
13	Alignment magnets
14	Alignment holes

## Pixels per Panel



**REM 3IP**

**REM 3IPSQ**

Each pixel is 1 tri-color LED. The following table provides the pixels per panel in each REM 3IP and REM 3IPSQ. For detailed specifications, refer to the [Technical Specifications](#) table at the end of this User Manual.

Parameter	REM 3IP	REM 3IPSQ
<b>Total Pixels per Panel</b>	32,768	16,384
<b>Total Pixels per LED Module</b>	8,192	8,192
<b>LED Module Dimensions</b>	250 x 500 mm	250 x 500 mm

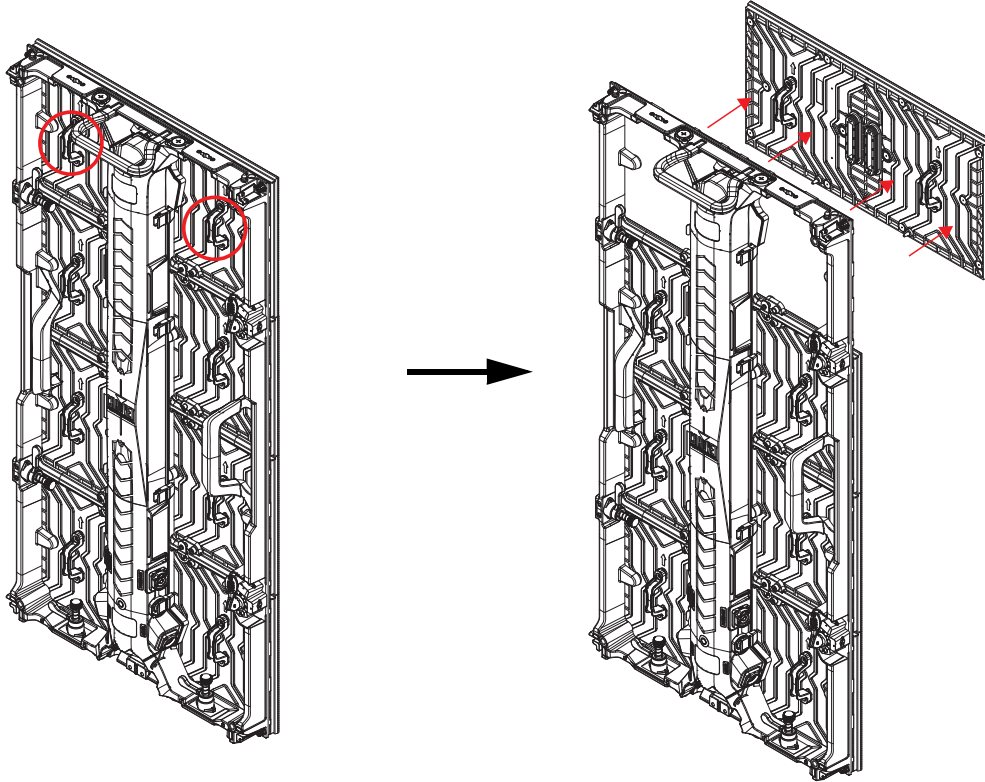


## REM 3IP and REM 3IPSQ LED Module Removal

### Removing a Module from the Rear

To remove an LED module from the rear of the REM 3IP and REM 3IPSQ:

1. Identify which module needs to be removed.
2. Carefully grip the module by the handles from the rear of the panel assembly.



3. With steadily increasing force and keeping as straight as possible, push the module forward away from the frame until it comes loose.



**Use caution when removing the module so as not to damage the connector attached to the back of the module.**



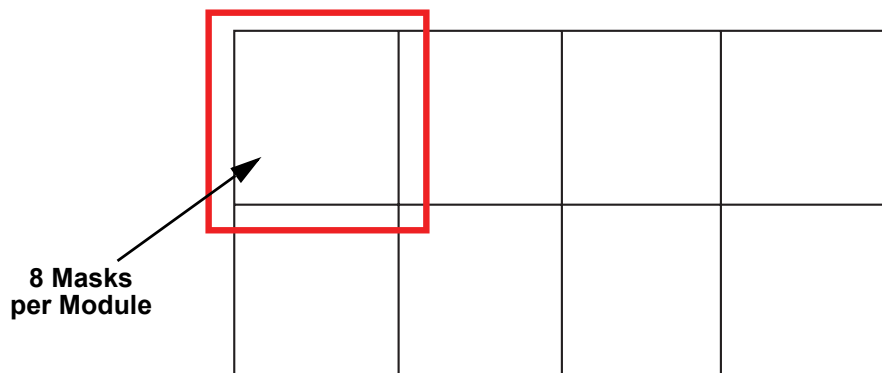
**Modules are universal and will fit anywhere on the frame.**

4. Carefully tilt the module to pull it through to the rear, or have someone on the other side take it.
5. Reverse the steps to install the replacement module.



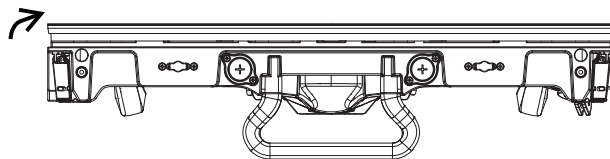
**WARNING! The magnets on the modules are very powerful! Keep fingers clear when installing.**

## Removing and Replacing the LED Masks



To replace an LED mask on an REM 3IP and REM 3IPSQ LED module, follow the instructions below:

1. Remove the module from the REM 3IP and REM 3IPSQ (see [REM 3IP and REM 3IPSQ LED Module Removal](#)).
2. Using a fingertip, gently lift the edges of the mask off of the LEDs.



- Use a roller tool to gently press the masks onto the LEDs.
- Bending the mask too much will permanently stretch it beyond usability.



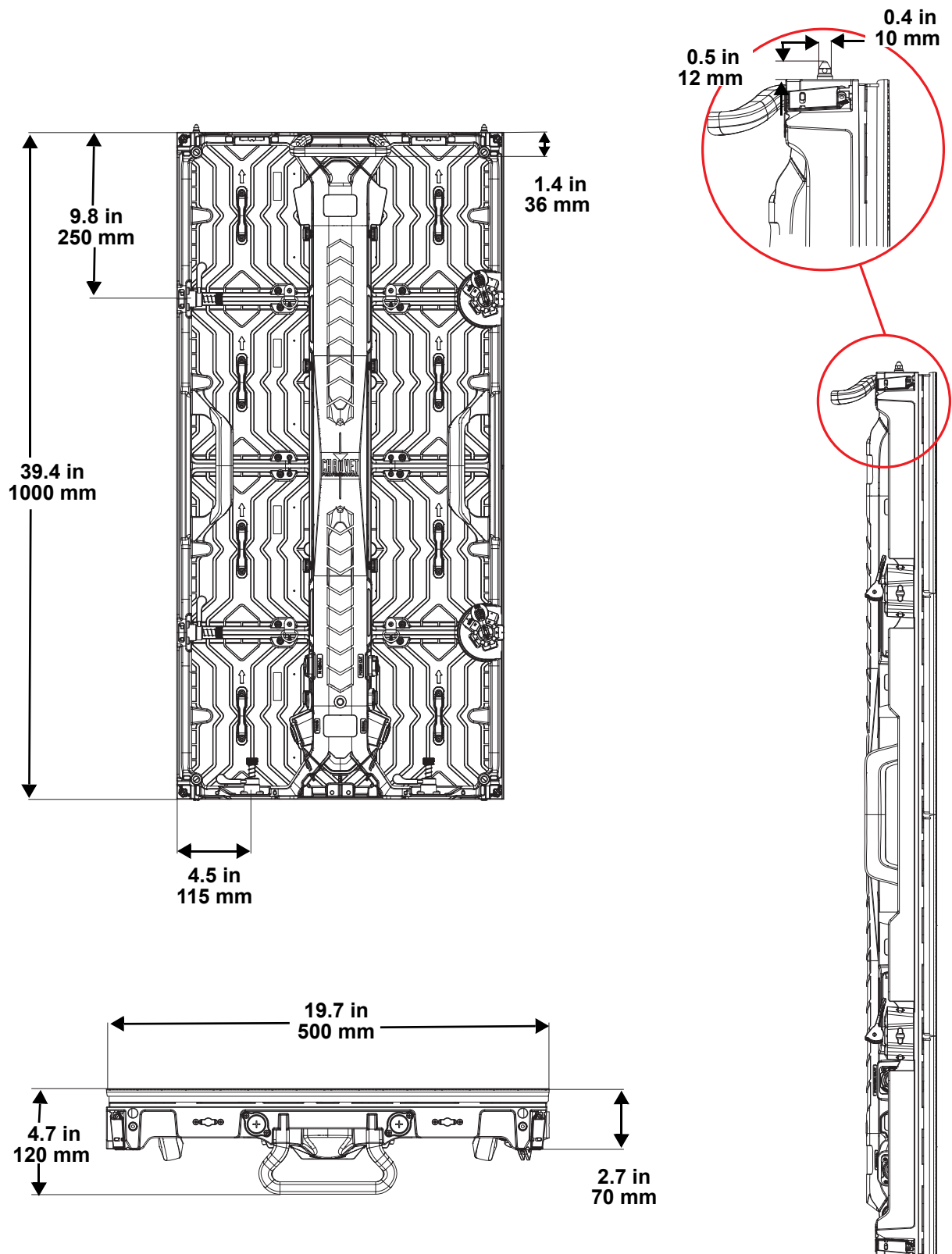
- Take **SPECIAL CARE** to not pry off any LEDs!
- **DO NOT** use a prying tool to remove the LED mask! Doing so may damage the LEDs.
- **When in doubt, seek expert assistance or advice!**

3. Once the edges are loose, slowly lift the mask from the LEDs.
4. Place the new LED mask in the space, with the rear (arrows) side facing in towards the product. Ensure the orientation arrows point in the same direction as the arrows on the module.
5. Push the mask in firmly until it is completely flush with the rest of the masks on the product. A roller tool is recommended for this procedure.

## Scrambled Pulse-Width Modulation

This product features Scrambled-PWM (S-PWM) technology, which de-synchronizes the pulse widths of each color of the multi-color LEDs. This ensures that there is always some LED output, reducing flicker, and maintaining the same grayscale performance.

## Product Dimensions



## 3. Setup

### AC Power

The REM 3IP and REM 3IPSQ have an auto-ranging power supply and can work with an input voltage range of 100 to 240 VAC, 50/60 Hz.

To determine the product's power requirements (circuit breaker, power outlet, and wiring), use the current value listed on the label affixed to the product's back panel, or refer to the product's specifications chart. The listed current rating indicates the product's average current draw under normal conditions.



- **Always connect the product to a protected circuit (a circuit breaker or fuse). Make sure the product has an appropriate electrical ground to avoid the risk of electrocution or fire.**
- **To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.**



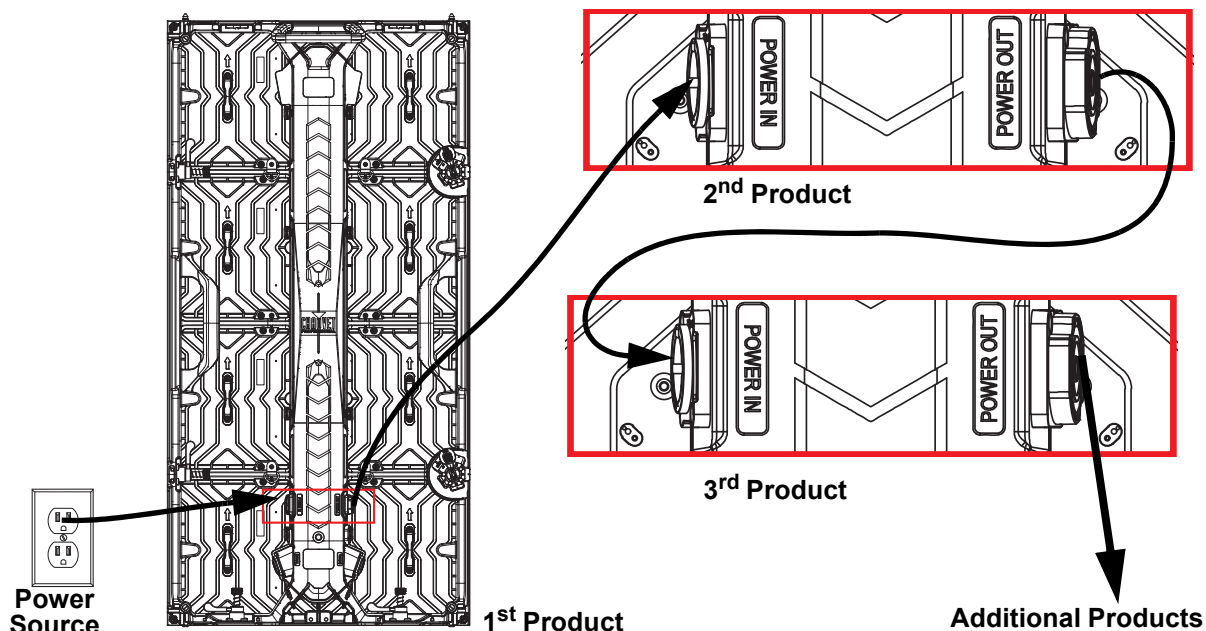
**Never connect the product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.**

### AC Plug

The REM 3IP and REM 3IPSQ come with a power input cord terminated with a Seetronic Powerkon A connector on one end and an Edison plug on the other end (U.S. market). If the power input cord that came with the product has no plug, or if it is necessary to change the plug, use the table below to wire the new plug.

Connection	Wire (U.S.)	Wire (Europe)	Screw Color
AC Live	Black	Brown	Yellow or Brass
AC Neutral	White	Blue	Silver
AC Ground	Green/Yellow	Green/Yellow	Green

### Power Linking



All REM 3IP and REM 3IPSQ panels support power linking. Refer to the following table for specifications.

Voltage	REM 3IP products	REM 3IPSQ
@ 120 V, 60 Hz	5	11
@ 208 V, 60 Hz	10	21
@ 230 V, 50 Hz	11	23



**Please refer to all applicable local codes and regulations for the proper installation of this product.**

## 4. Mounting

### Orientation

Each REM 3IP and REM 3IPSQ are constructed of Aluminum ADC12. Each panel also has convenient built-in handles located on the top and bottom of the backside of the panel along with two alignment conicals on the top and two alignment bolts (feet) on the bottom. This combination enables the user to easily pick up and securely hold each panel while mounting and working with the panels.

The REM 3IP and REM 3IPSQ can be assembled to provide any number of modular designs. The panels on the top can be securely hung from a truss or other stable surface. Always hang in a safe position with adequate space for ventilation, configuration, and maintenance. Chauvet recommends following the general guidelines below.

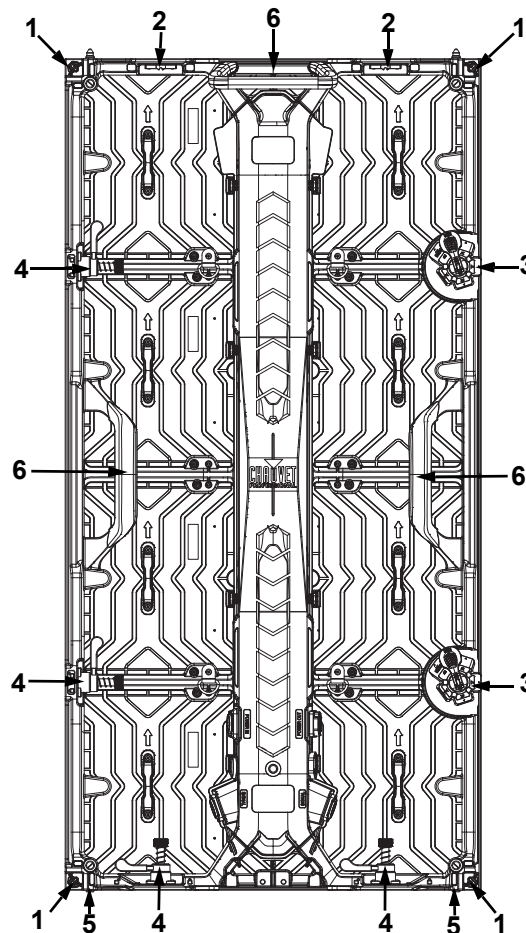
- When selecting an installation location, consider ease of access for operation and routine maintenance.
- Make sure to hang away from any flammable material, as indicated in the [Safety Notes](#) section.
- Never mount in places where rain, extreme temperature changes, or restricted ventilation may affect it.
- Make sure that the structure and attachment points can support the weight before hanging the panels.
- Make sure that all load-bearing hardware used can support the weight.
- See the [Technical Specifications](#) for the weight requirement of each REM 3IP and REM 3IPSQ.



**REM panels are ONLY to be mounted in a vertical orientation as shown in this manual. Mounting in other ways may result in serious injury. Side latches are for curving purposes and are not designed to be load bearing.**

### Mounting Points

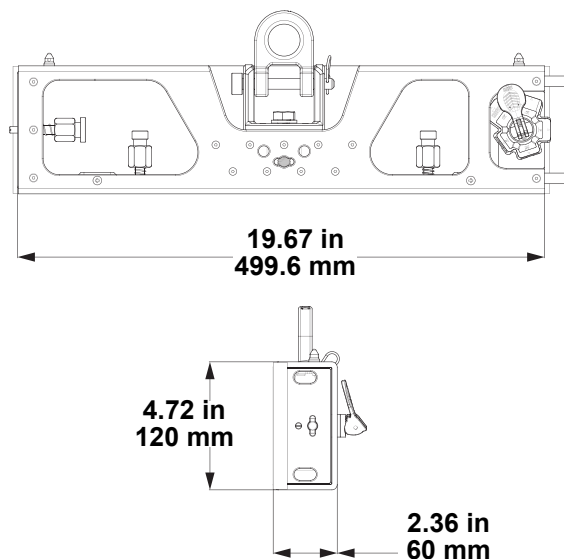
1. Threaded Mounting Holes Size M10 (x4)
2. Receiver
3. Curve receiver
4. Latch
5. Feet (Alignment Bolts) (x2)
6. Handles



**Chauvet offers multiple mounting options for REM-series products, including overhead hanging, rear mounting, and the ground stack kit. REM-series products are not designed to sit directly on the floor or directly on flat surfaces. Doing so may cause damage to the LEDs, which is not covered under warranty. Please contact Chauvet Sales or Technical Service for more details on the offered mounting solutions.**

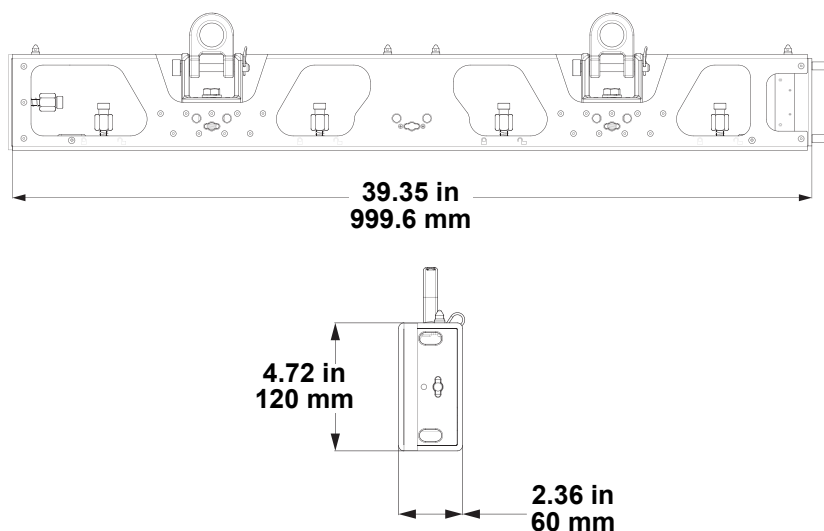
## REM-RB 50CM IP CURVE Dual Function Rig Bar Dimensions

Sold Separately



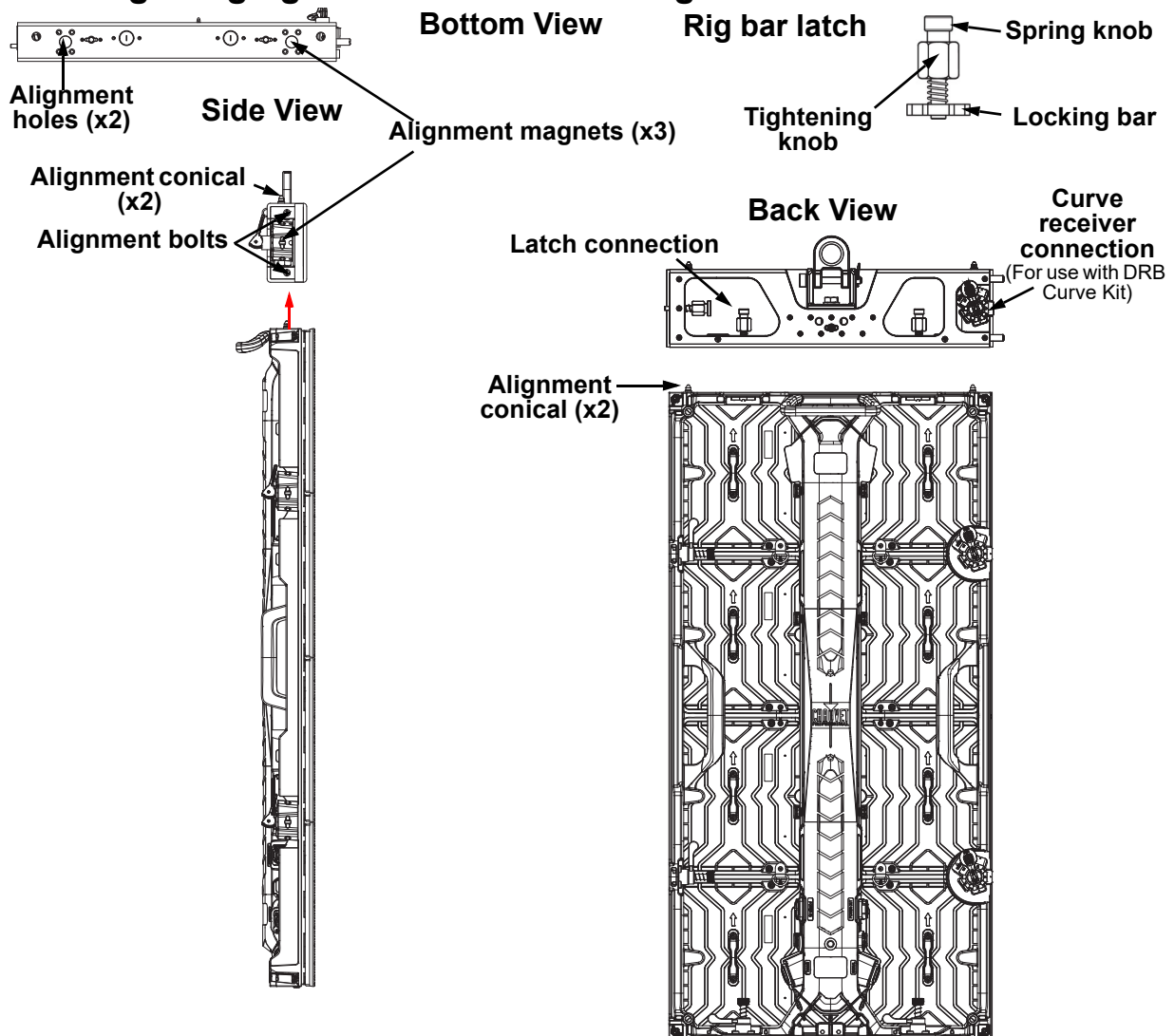
## REM-RB 100CM IP Dual Function Rig Bar Dimensions

Sold Separately





## Mounting/Hanging with Dual Function Rig Bar



1. Loosen the spring knobs on the latch connections of each rig bar to be used.
2. Insert alignment conicals into the alignment holes and allow magnets to connect.
3. Insert the rig bar latch locking bars into the receiver connections on the REM 3IP and REM 3IPSQ.
4. Twist the spring knob on the rig bar latch until it locks into place.



**When mounting a video panel assembly together, mount the entire top row of panels using only the spring knobs before moving on to step 5.**

5. Twist the tightening knobs clockwise until the REM 3IP and REM 3IPSQ products are secure to the rig bars and aligned correctly to each other.
6. Install the side latches of the panels to each other ([Horizontal Panel Connection](#)) only after ensuring the alignment is correct.
7. To detach the rig bar from the REM 3IP and REM 3IPSQ, reverse the previous steps. Tilt the panels away from each other to safely release the magnetic attachments.



**The alignment magnets on the REM 3IP and REM 3IPSQ and Dual Function rig bar are designed to temporarily hold the weight of the panel to allow the user to properly align and tighten the panel into place.**



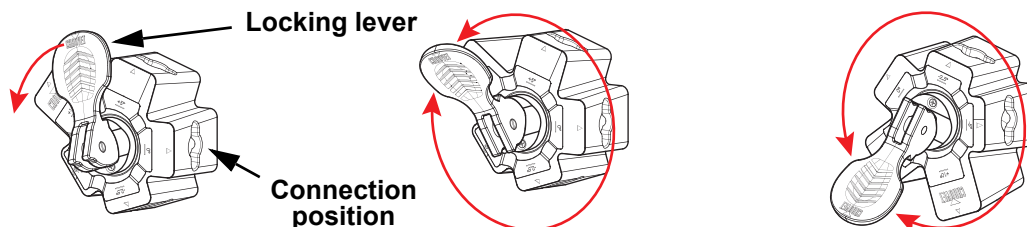
**Warning! The magnetic attachments are not load-bearing, and are intended for alignment assistance only. Do not release panel until the hanging hardware has been fully secured.**

## Curving the Panels

The curve receiver of the REM 3IP and REM 3IPSQ and REM -RB50 CM IP Curve allows a convex or concave angle between rig bars and video panels without additional accessories.

To set the angle to -5° (convex), -2.5° (convex), 0° (straight), +5° (concave), or +10° (concave):

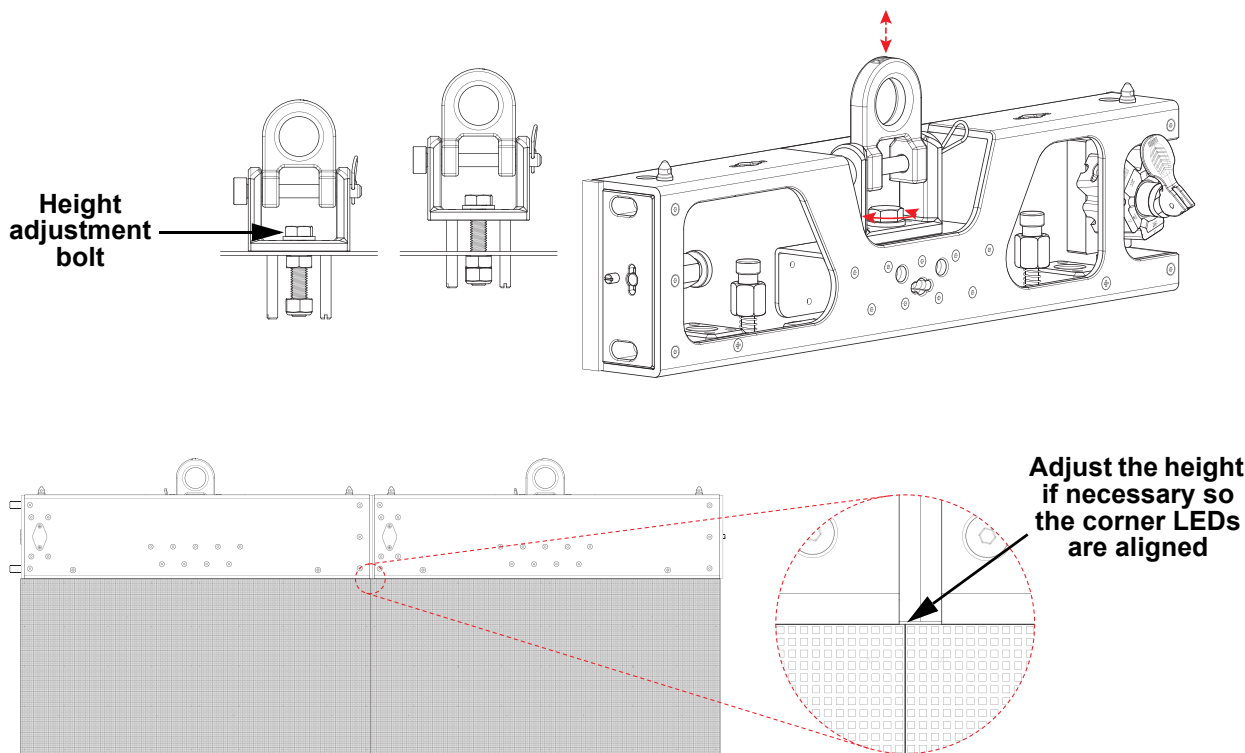
1. Pull the locking lever out, unlocking the curve receiver.
2. Rotate the curve receiver so the receiver at the desired angle is in the connection position.
3. Push the locking lever in, locking the curve receiver in place.



## Adjusting the Height

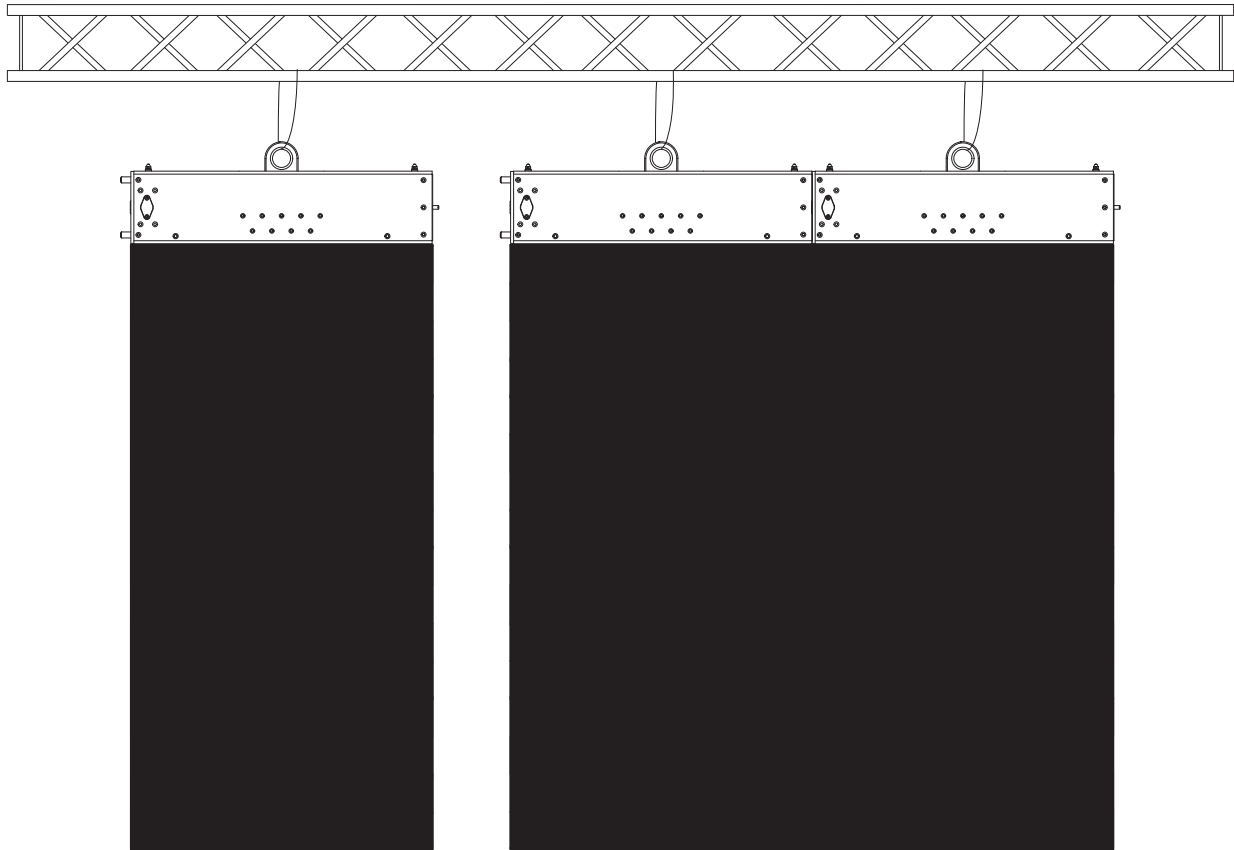
When connected video panels aren't aligning 100% correctly, adjusting the height of the rig bar hoist ring even the smallest amount can correct the issue.

Turn the height adjustment bolt with an adjustable wrench to adjust the height of the hoist ring.



### Truss Installation

## Attach to Truss Using Dual Function Rig Bar



The M10 mounting points are not intended for hanging or suspending from a truss or other overhead structure.

In order to suspend/hang the panels from a truss or other overhead structure, use the Dual Series Rig Bars (REM-RB50CMIPCURVE or REM-RB100CMIP, sold separately).



All applicable local codes and regulations apply to proper installation of this product.

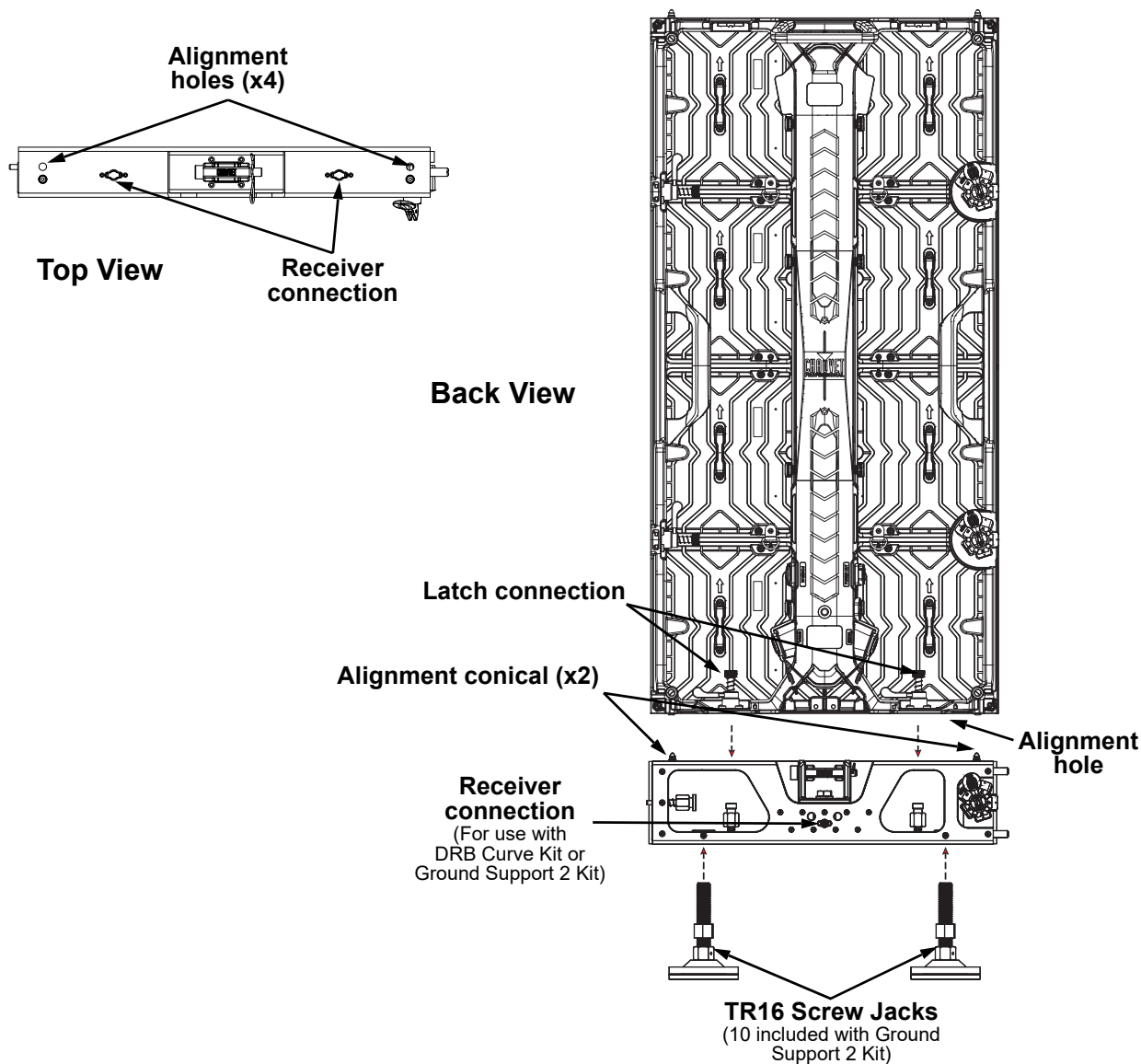


**WARNING:** The alignment magnets on the Dual Function Rig Bars are not designed for load bearing! All Rig Bars in a panel assembly must be mounted individually to the mounting point! Adjacent Rig Bars will NOT support the attached weight!



**WARNING:** This product should only be used by competent and qualified persons.

## Mounting/Stacking with Dual Function Rig Bar



1. Insert alignment conicals into the alignment holes and allow magnets to connect.
2. Close the latches of the latch connections on the REM panel.
3. To detach the rig bar from the panel, reverse the previous steps.



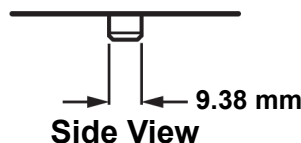
**Warning! The magnetic attachments are not load-bearing, and are intended for alignment assistance only. Do not release panel until the hanging hardware has been fully secured.**

### Removing the Feet

To remove the feet (alignment bolts) from the REM 3IP and REM 3IPSQ, twist them counter-clockwise with a 16 mm wrench until they come loose.



Back View



Side View

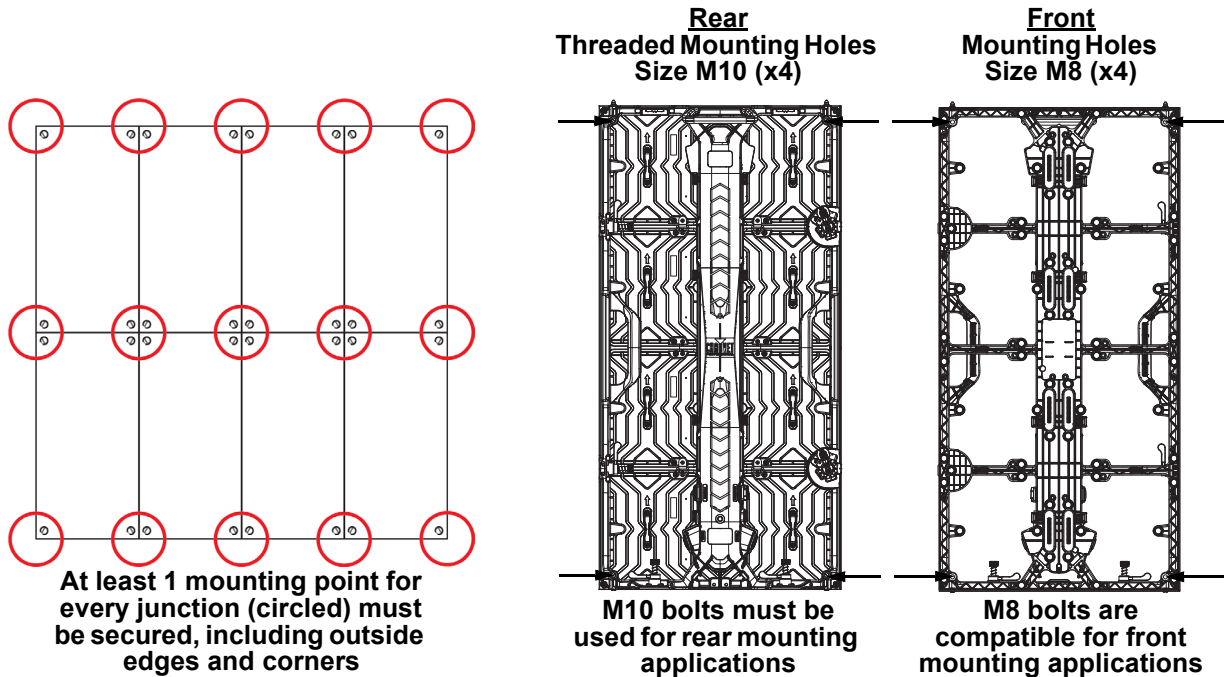


Removing the feet may result in damage not covered by the warranty.

## Flat Wall Installation

Refer to the following diagrams for flat wall installation.

### Mounting Points on a Flat Wall

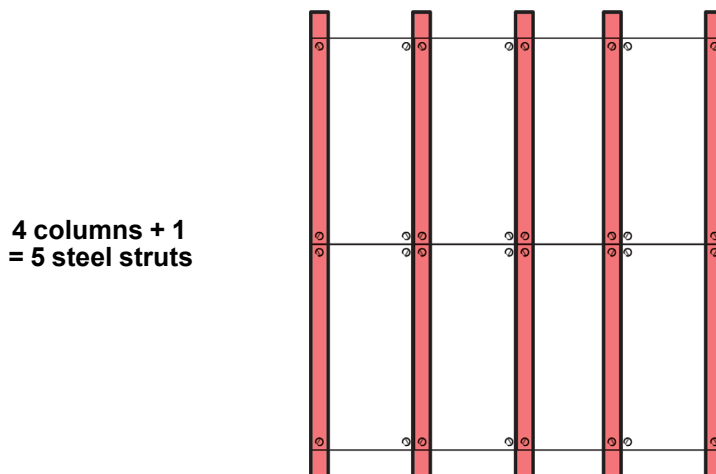


The 4 rear and front mounting holes are intended for flush mount installation to a flat surface against the video panels. 1 mounting point for every junction, including outside edges and corners, must be used in order to maintain structural integrity. The mounting points are not intended for hanging or suspending from a truss or other overhead structure.

The 2 rear mounting holes in the middle of the product are intended for use with the Ground Support 2 Kit from Chauvet.

### Mounting with Steel Struts

Chauvet recommends using a VERTICAL steel strut for each column of panels, plus 1, as in the following diagrams:



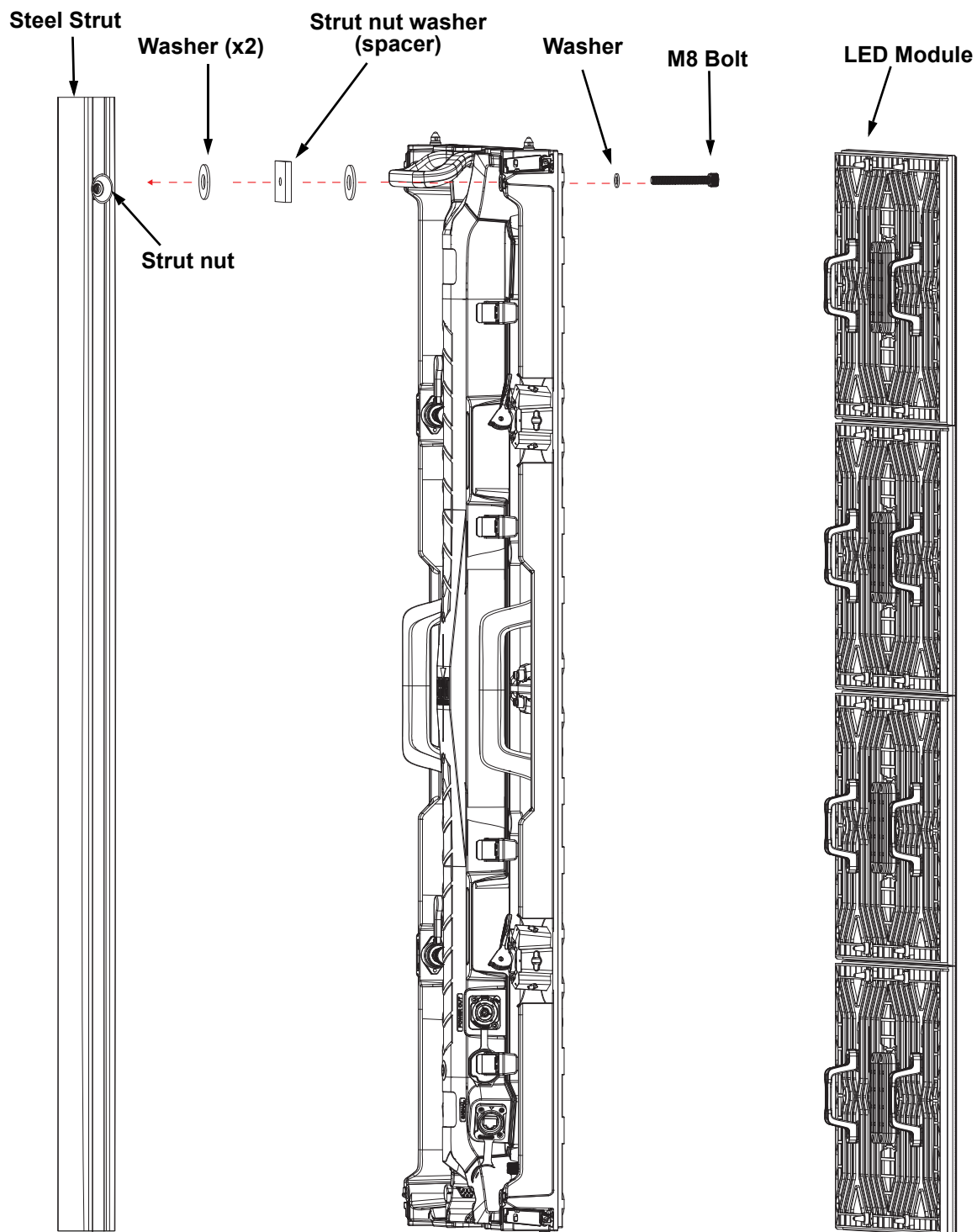
Spacers greater than 6.5 mm thick must be used at each mounting point, between the panels and the struts.



The illustrations above are examples only. Please refer to all applicable local codes and regulations for the proper installation of the product.

## Spacers

When mounting to a flat wall, spacers greater than 6.5 mm thick must be used at each mounting point, between the panels and the struts, as in the diagram below.

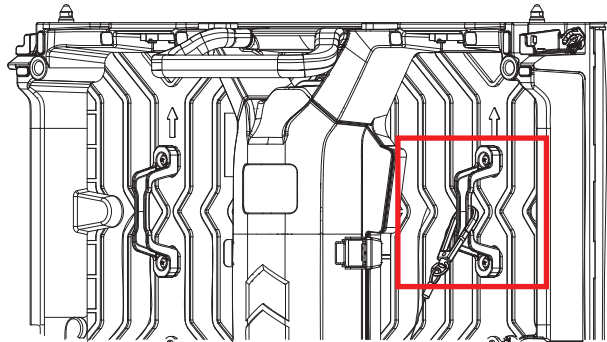




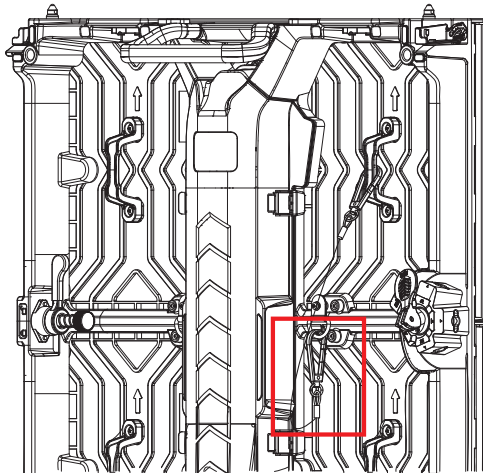
### Safety Cable Installation

Safety cables may be attached to the REM 3IP and REM 3IPSQ. To attach safety cables to the REM 3IP and REM 3IPSQ, follow the instructions below:

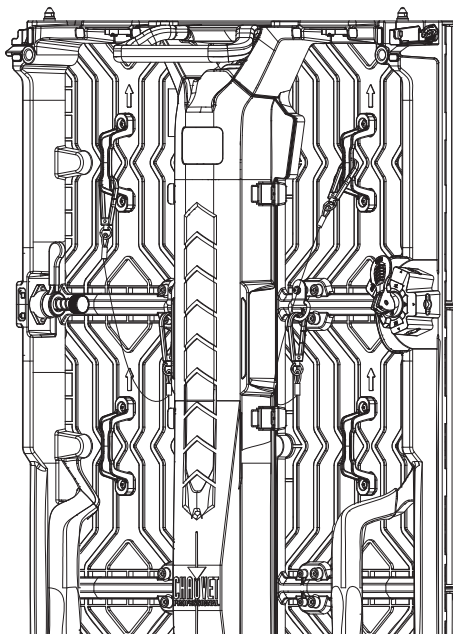
1. Attach the clip at one end of the safety cable to the handle of the module.



2. Attach the clip at the other end of the safety cable to the frame.



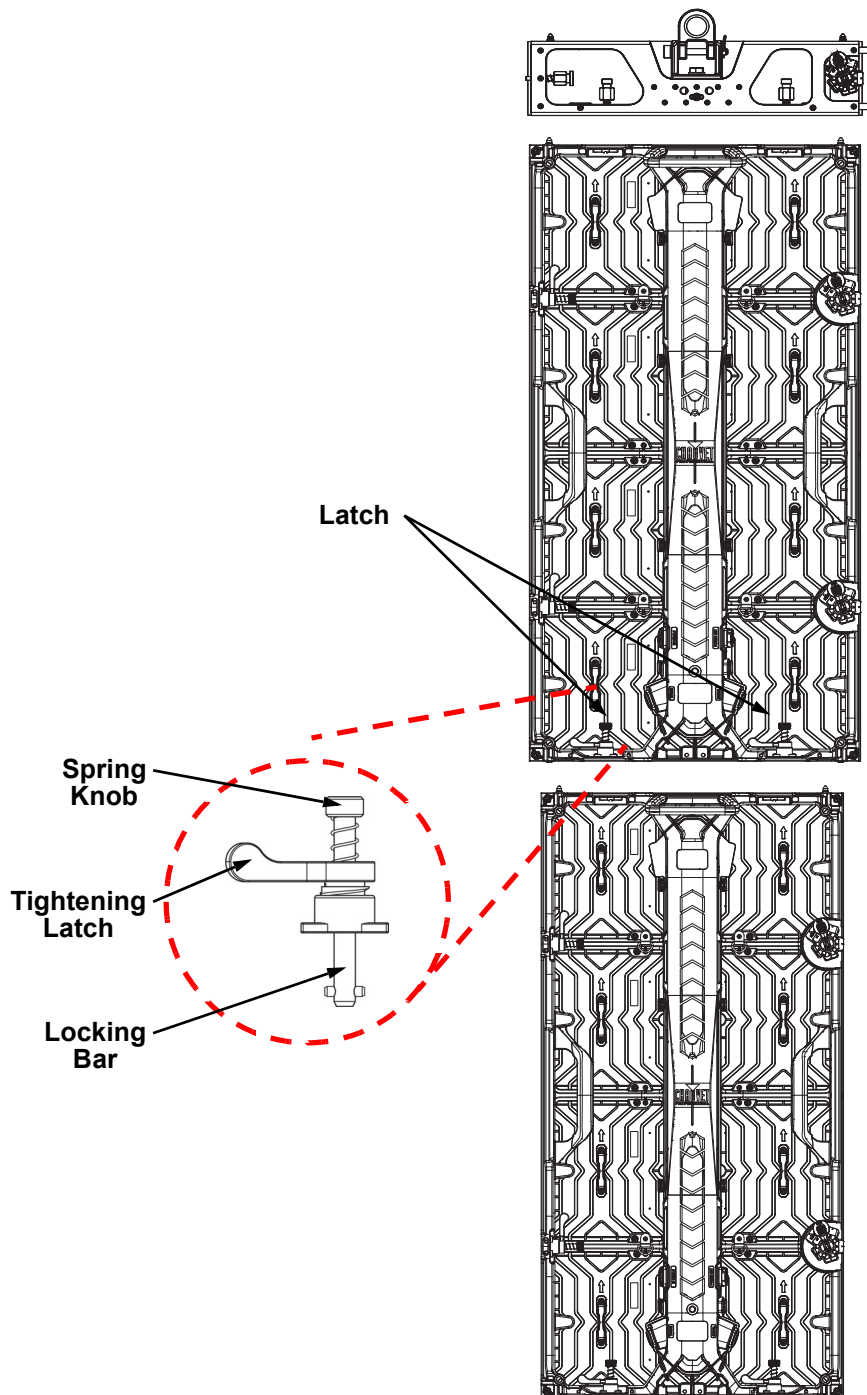
3. Repeat steps 1-2 to secure other modules using the safety cable.



## 5. Joining Each REM 3IP and REM 3IPSQ

### Vertically Joining the Panels

Each REM 3IP and REM 3IPSQ can be easily joined vertically to a truss using an optional rig bar and the 2 receiver connections located at the top corners of each panel. Use the connections at the bottom of each panel to connect additional panels. These connectors stay recessed when not being used.



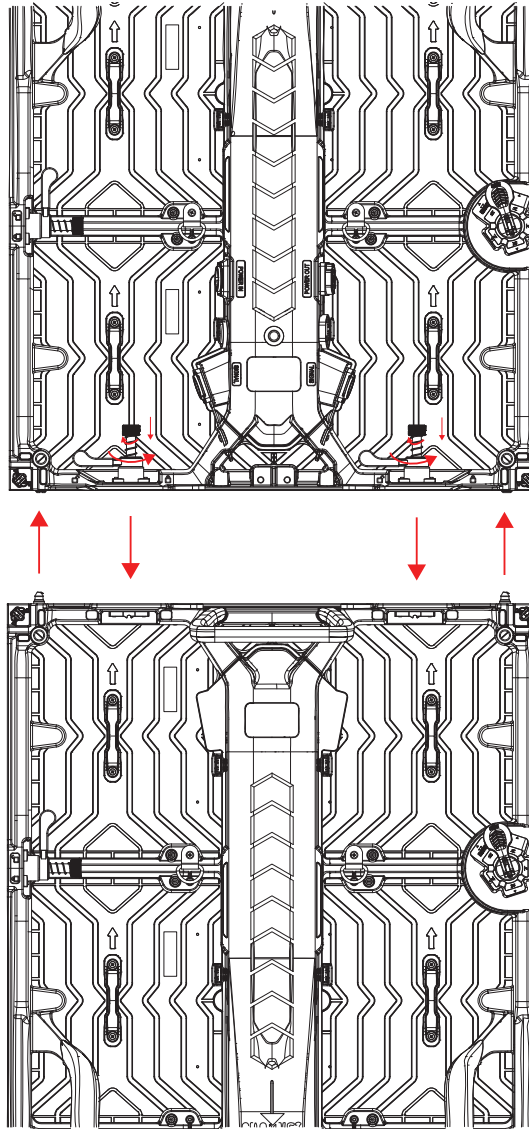
### Vertical Panel Connection

Use the following instructions to join panels vertically:

1. Line up the alignment conicals at the top of each panel, and the alignment magnets at the top and bottom of each panel.
2. Push latch connections into receiver connections.
3. Turn the spring knobs clockwise until secure.
4. Turn the tightening latches counter-clockwise until secure.



**Due to tolerances in the materials, as well as wear and tear of the latches, some tightening latches may not line up when tightened. This is normal.**



**Warning! The magnetic attachments are not load-bearing, and are intended for alignment assistance only. Do not release panel until the hanging hardware has been fully secured.**

## Horizontally Joining the Panels

Each REM 3IP and REM 3IPSQ can be easily joined horizontally using the latch connections on the inside, upper and lower left sides of each panel.

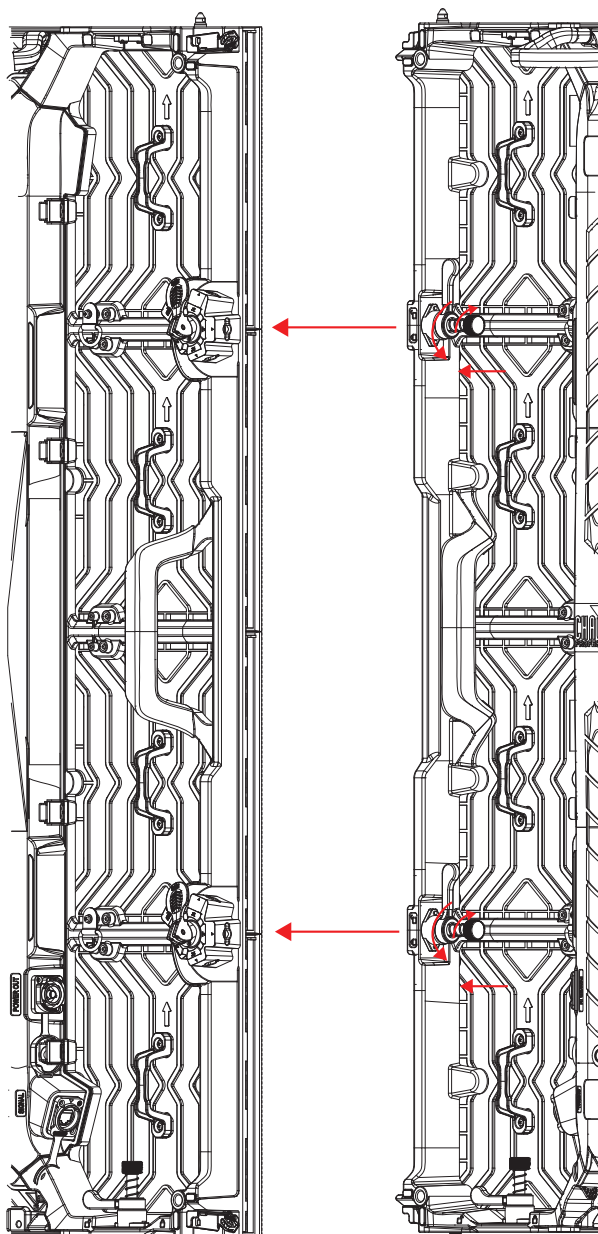
### Horizontal Panel Connection

Use the following instructions to join panels horizontally:

1. Align each of the panels' male latch connections with the corresponding receiver connections on the panels being added.
2. Push latch connections into receiver connections.
3. Turn the spring knobs clockwise until secure.
4. Turn the tightening latches counter-clockwise until secure.



**Due to tolerances in the materials, as well as wear and tear of the latches, some tightening latches may not line up when tightened. This is normal.**



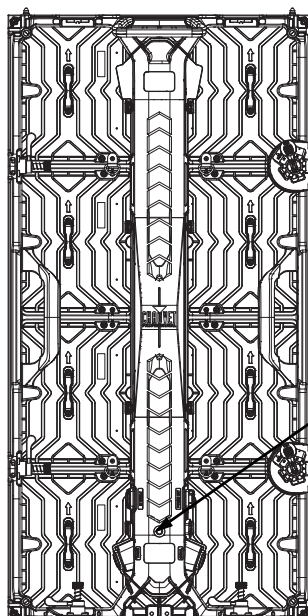
## 6. Connecting & Cabling Each REM 3IP and REM 3IPSQ

### Testing Signal and Power Connections

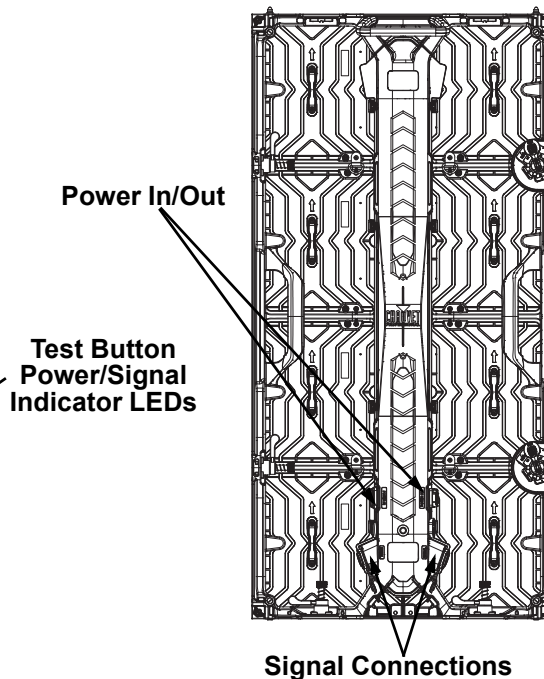
Each REM 3IP and REM 3IPSQ has 2 power sockets and 2 signal ports. The following table outlines each of the indicator functions.

Indicator	Color	Status	Description
Running indicator	Green	Flashing once per 1s	Receiving card function and Ethernet cable is normal. Video source input available.
		Flashing every 3s	Ethernet cable connection is abnormal.
		Flashing 3 times per 0.5s	Ethernet cable is normal, but no video source input is available.
		Flashing once per 0.2s	Receiving card failed to load program in the application area. Receiving card is using the backup program.
		Flashing 8 times per 0.5s	A redundancy switchover occurred on Ethernet port and the loop backup has taken effect.
Power indicator	Red	Always on	Power input is normal.

Rear Panel Views



Underside of Service Access Views



### Using the REM 3IP and REM 3IPSQ Test Button

Each REM 3IP and REM 3IPSQ has a test button, used to ensure all LEDs are functional. Use the Test button on each panel to perform a self-test. If self-testing, the user must perform the test individually for each REM 3IP and REM 3IPSQ. It is not necessary to connect to a signal or use software.



**When using the Test button, make sure the REM 3IP and REM 3IPSQ is NOT connected to the Novastar MX40 Pro.**

To use the Test button, the user must connect the power, but do not connect the signal cables. Press the Test button to toggle through various LED light display configurations.

## Connecting Power and Signal Cables

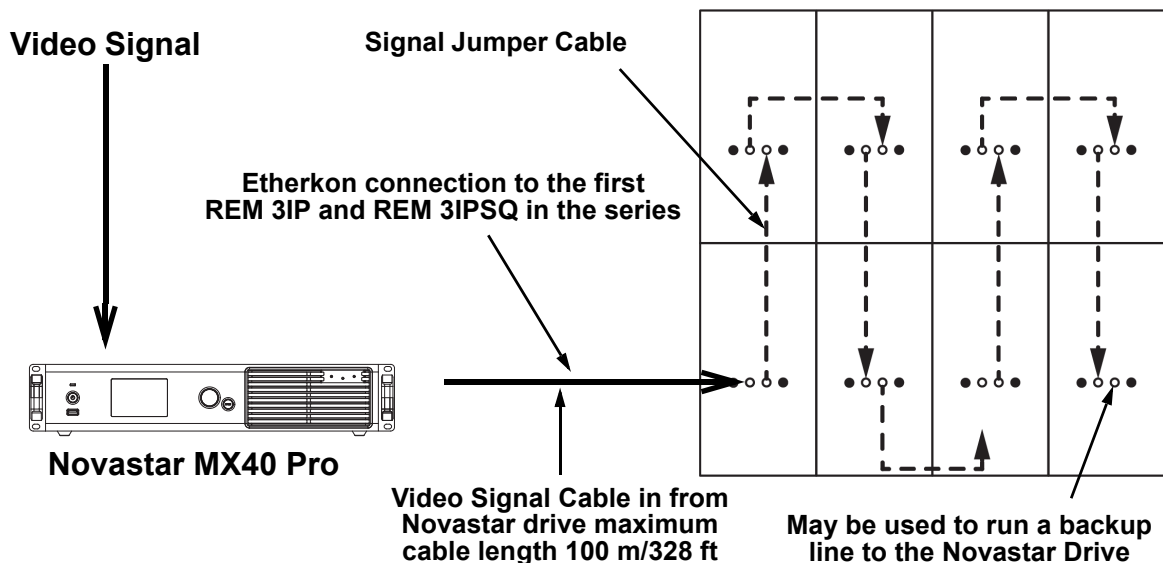
The following sections provide information and diagrams on connecting signal and power between panels. Refer to the [Introduction](#) or [Operation](#) sections in this User Manual for available cables and item numbers.

### Connecting the Signal Between Joined Panels

Signal cable panel connections can use several different configurations. The basic configuration to connect the signal from one panel to the next is as follows:

1. The source signal is connected to the first panel.
2. A signal cable is then connected from the first panel.
3. The connections continue to daisy-chain until all panels are connected.
4. The route of the cables used to make the signal connections can vary.

The following diagram is a recommended suggestion for simple signal connections between panels.



To calculate the number of panels, horizontally and vertically, supported by a single Novastar MX40 Pro, use:

- The number of pixels per panel.
- The screen resolution desired for the video wall display.



The Novastar MX40 Pro is required to operate an REM 3IP and REM 3IPSQ video wall system. Diagrams of how the REM 3IP and REM 3IPSQ panels and the Novastar MX40 Pro connect follow later in this manual. For detailed information about the Novastar MX40 Pro and panel calculation examples, refer to the User Manual for the Novastar MX40 Pro.



## Signal Chain Rectangles

When panels are assembled together to output video from a Novastar MX40 Pro, they form vertical columns, to take advantage of the full processor functions, particularly low latency.

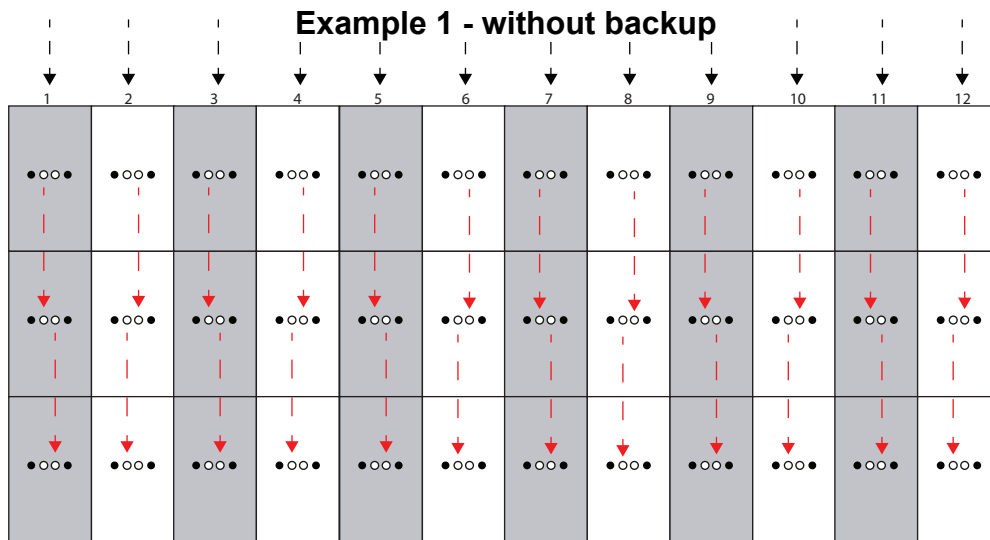
Each port of one of the Novastar MX40 Pro can connect to REM 3IP and REM 3IPSQ panels. If more than the maximum amount of panels are used, more than 1 output port from the Novastar MX40 Pro will be required.

Pixels for each port are calculated as whole rectangles. Even if all panels within a rectangle are not connected to a port, the total panels in the rectangle must be within the limits of the port.


Connecting panels to a single port in an arrangement that exceeds the maximum amount of panels will cause errors.

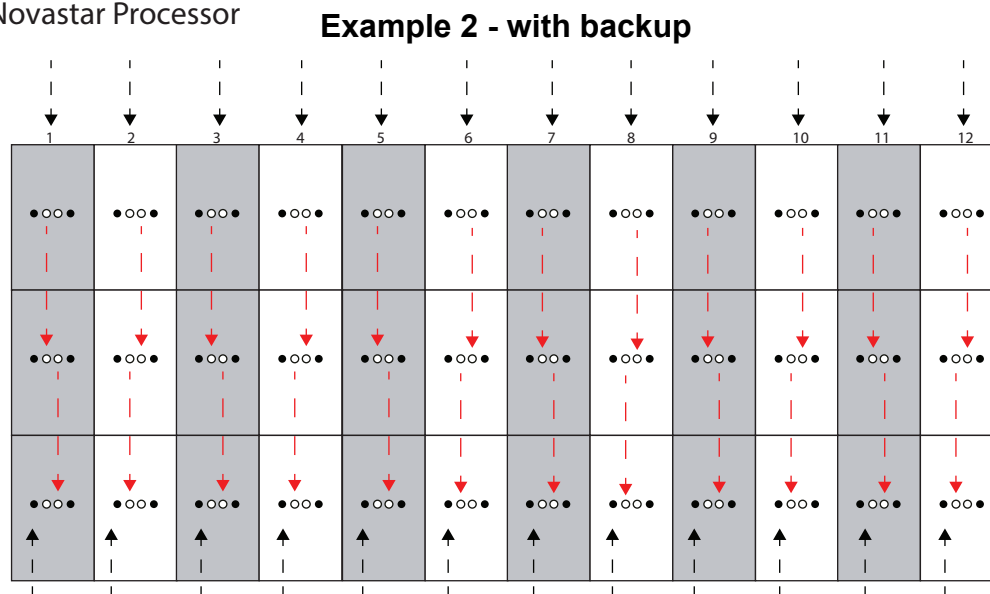
Of the following examples, only those where both of the following are true can work:

- The number of panels connected to each port is equal to or less than the maximum.
- The panels connected to each port individually form a rectangle which includes the maximum or fewer.



 Cabling

 Video output from  
Novastar Processor



**Backup port**

### Connecting the Power Between Joined Panels

Power cable panel connections can also use different configurations. The basic configuration to connect the main power supply from one panel to the next is:

1. The main power is connected to the first panel's Power Input or Output.
2. A power cable is then connected to the first panel's Power Output and connected to the next panel's Power Input.
3. The connections continue until all panels are connected.

Connect power between the panels using the same procedure as the signal only using the Power Input and Power Output connectors. Always adhere to the power-linking specifications for each REM 3IP and REM 3IPSQ model.

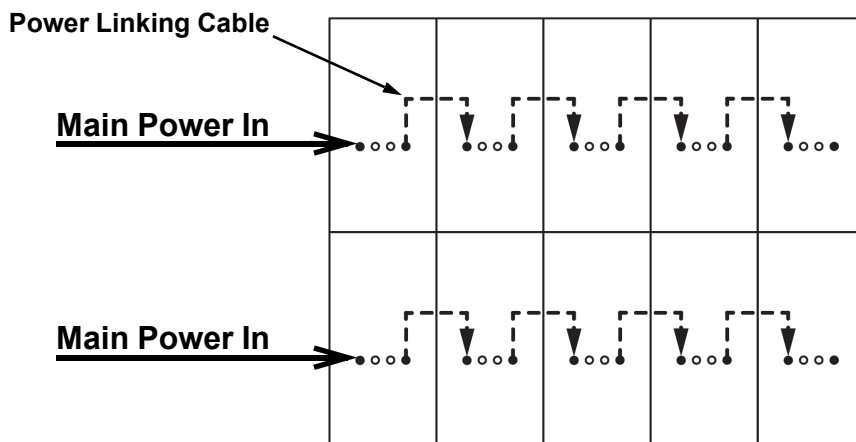
Refer to the [Power Linking](#) section for details on the number of panels that can be linked based on voltage from a single power connection.



**Power linking more panels than recommended will void the product's warranty and increase the risk of electrocution or fire!**

Refer to the following diagrams for an example of power connection from the main and to each connected panel.

This example is using the REM 3IP and REM 3IPSQ power linking 5 panels horizontally @ 120 V.



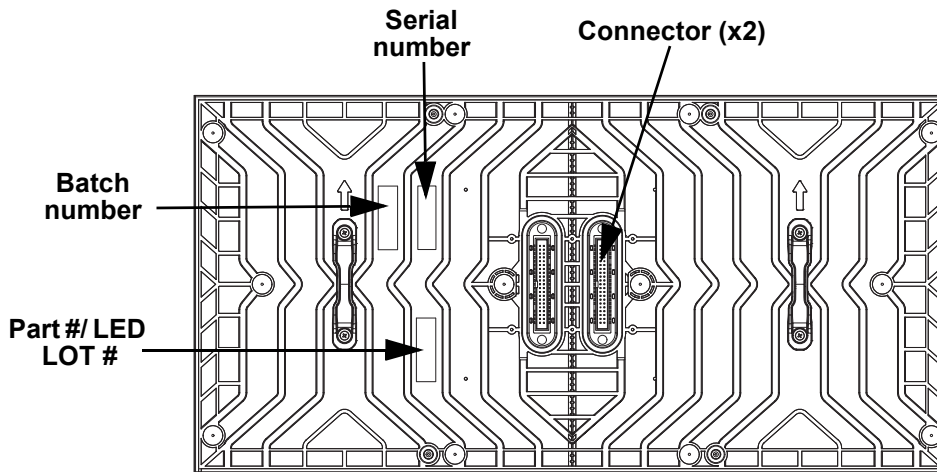
## 7. LED Module Care and Replacement

### REM 3IP and REM 3IPSQ Modules

Each REM 3IP and REM 3IPSQ has 2 or 4 LED modules connected to the panel frame by magnets. Each module has connectors that connect to the main processing unit.

#### Module Description

To ensure consistent color matching and output, replace damaged or defective modules with the same LED lot # as the others on the panel. When combining panels to create full video wall systems (rentals, permanent installations, etc.) it is highly recommended that the LED lot #'s on each of the panels match. LED lot #'s can be located on the back of each module.



REM 3IP and REM 3IPSQ



The arrows on each module point towards the top of the panel when correctly installed.

#### Calibration Recall

Each LED module for the REM 3IP and REM 3IPSQ has individual calibration data for each LED permanently saved to the flash memory of the module. The receiver card inside the control box (or control module) of the REM 3IP and REM 3IPSQ can use that data to ensure a uniformity of brightness across the entire panel. To upload the calibration data from a new LED module to the control module of the panel, follow the instructions below.

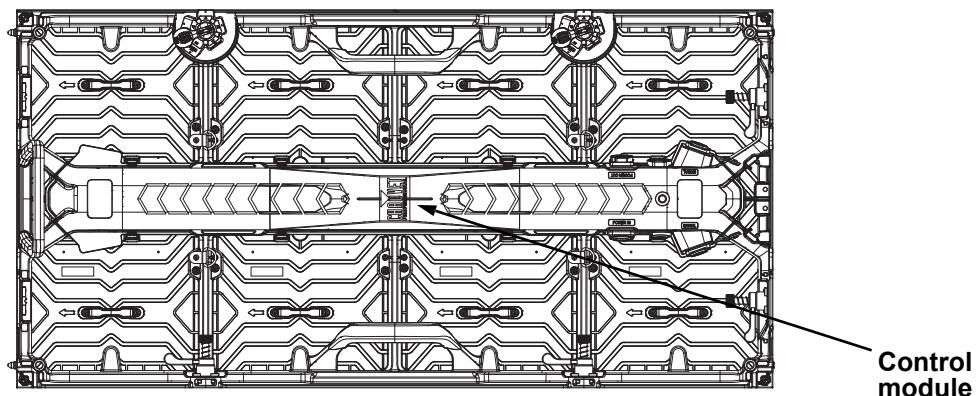
##### Without a Computer

1. Unplug any signal cables and power the product off.
2. Hold the Test Button down and power the product on.
3. Continue to hold the Test Button down for 10 seconds.
4. Release the Test Button. The signal indicator will flash rapidly while it downloads the calibration data from the module.
5. When the signal indicator stops flashing rapidly, the new module will have been matched automatically to the rest of the panel.

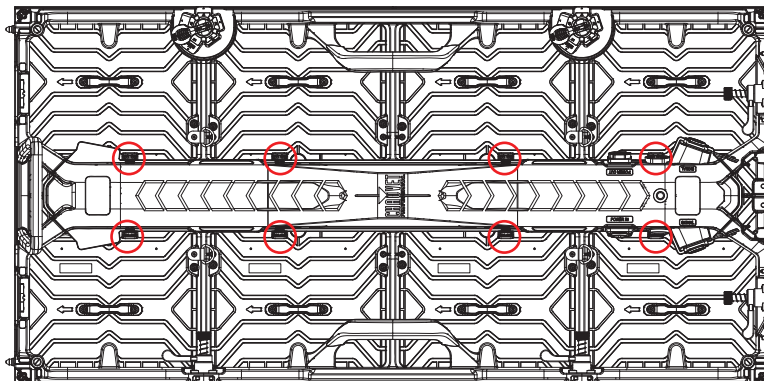
##### With a Computer

See the COEX VMP user manual for instructions on how to perform a calibration recall with a computer.

## 8. REM 3IP and REM 3IPSQ Serviceability



The REM 3IP and REM 3IPSQ control module can be accessed and serviced from either the front of the panel or the rear of the panel at any time, so panels can be serviced when access to either the front or the rear is restricted or impossible. To access the REM 3IP and REM 3IPSQ control module from the rear of the panel, unhook the hinged latches indicated in the diagram below.



**Use caution when removing these latches, as the cover of the control module will be detached from the panel frame. All components in the control module are attached to the cover.**

# 9. Typical REM 3IP and REM 3IPSQ Hanging Installation

Because a video wall system can include different components to provide a simple to complex modular wall design, use the following steps as a general guide to get started.

### Step 1

Open and examine the REM 3IP and REM 3IPSQ road case to make sure all products and accessories are present and that each one is in good condition.

### Step 2

Apply power and run the self-test for each REM 3IP and REM 3IPSQ to ensure all LEDs and inside connections in each panel are working (optional).

### Step 3

Create a stable mounting surface (e.g., truss or other stable surface) for REM 3IP and REM 3IPSQ mounting.

### Step 4

Mount the first top row of the REM 3IP and REM 3IPSQ products. Refer to the [Mounting](#) section in this User Manual.

### Step 5

Adjust the alignment of the first row using the curve receiver / latches.

### Step 6

Connect the signal source to the Novastar MX40 Pro.

### Step 7

Connect the Novastar Drive to the signal port of the first panel in the connection chain.

### Step 8

Based on the desired video wall configuration (design), join each panel, horizontally and/or vertically, using the instructions in the section [Joining Each REM 3IP and REM 3IPSQ](#).

Refer to the instructions and information in the [Connecting & Cabling Each REM 3IP and REM 3IPSQ](#) section of this user manual.

## 10. Operation

### Additional Hardware and Software

In addition to the panels, the user will need other hardware and software to design, build, and operate the REM 3IP and REM 3IPSQ video wall system. The following table summarizes these additional items—some are required and others are optional.

Item	Description
<b>Novastar MX40 Pro</b>	Interface between the signal source, Nova VMP, and the REM 3IP and REM 3IPSQ being used
<b>Nova VMP</b>	Software applications used to design and run the REM 3IP and REM 3IPSQ products comprising the video wall. A PC is needed
<b>RB 50CM IP Curve or RB 100CM IP Series Dual Function Rig Bar</b> (optional)	Provides hardware needed to mount REM 3IP and REM 3IPSQ
<b>Neutrik® PowerKon Extension</b> (optional)	IP65 Rated Seetronic® Powerkon Extension, 5 ft, 10 ft, and 25 ft
<b>Ground Support 2 Kit</b>	Ground support/ stacking system
<b>MT07 Universal Module Removal Tool</b>	LED module removal/installation tool

### About Nova VMP

Nova VMP is a powerful and easy-to-learn software application used to design and run the REM 3IP and REM 3IPSQ video wall system. The following is introductory information about these applications.

Refer to the Novastar MX40 Pro user manual for detailed information and instructions on setting up and using Nova VMP with the Chauvet REM 3IP and REM 3IPSQ video wall system.

### Description

Nova VMP enables the creation and control of a video wall by addressing the panels included in the video wall including pixel pitch and layout.

Once having physically created the modular video wall design by joining the panels, connecting power, signals, and the Novastar MX40 Pro, recreate that design within Nova VMP.

Detailed information and instructions are in the User Manuals for the Novastar MX40 Pro.

### Receiver Card Configuration Files

The A10s Pro receiver card configuration files, commonly referred to as NCP files, contain all of the data used to route video signal data from the receiver card to the LED drivers inside the REM 3IP and REM 3IPSQ panels. This data includes:

- LED module layout and quantity
- LED driver model
- Scan mode (number of LEDs in a series)
- Refresh rate
- Grayscale
- Maximum brightness
- Total panel orientation (when compatible)
- Gamma table (dimming curve)
- The signal indicator LED on/off function
- Panel power consumption
- Panel dimensions
- LED quantity
- LED module flash configuration

The NCP file does not contain brightness/chroma calibration data or mapping data (panel layout). Each of these are stored as separate files. To load a new NCP file onto an REM 3IP and REM 3IPSQ panel, follow the steps under [Updating Controller Firmware](#) or [Updating Cabinet Firmware](#).



**Ensure the NCP file version matches the firmware version on the panel.**

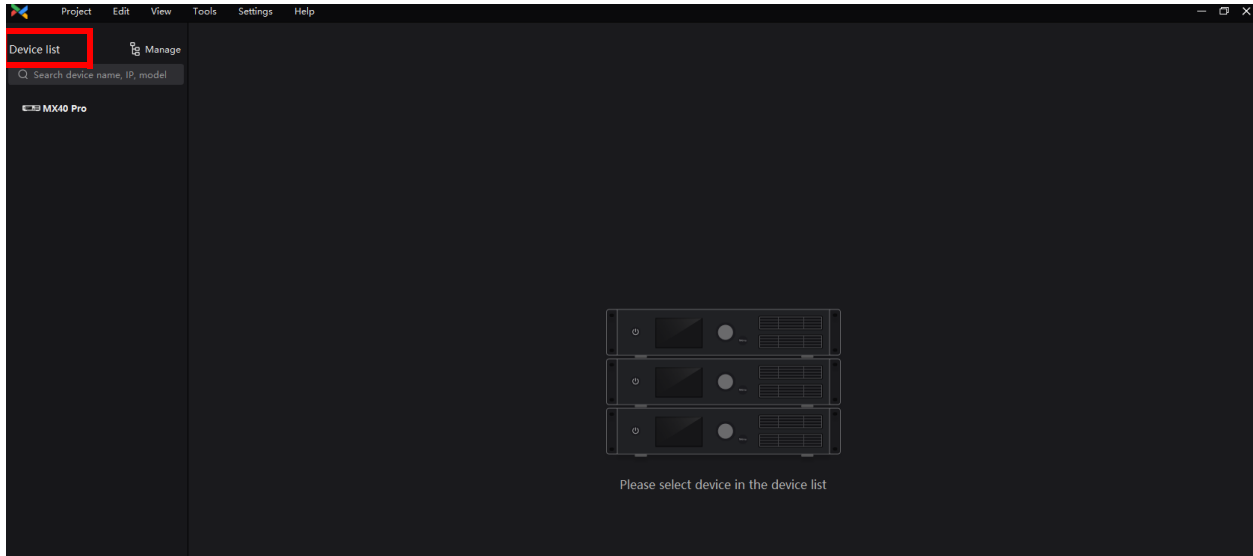
## Operation

### Operating Nova VMP

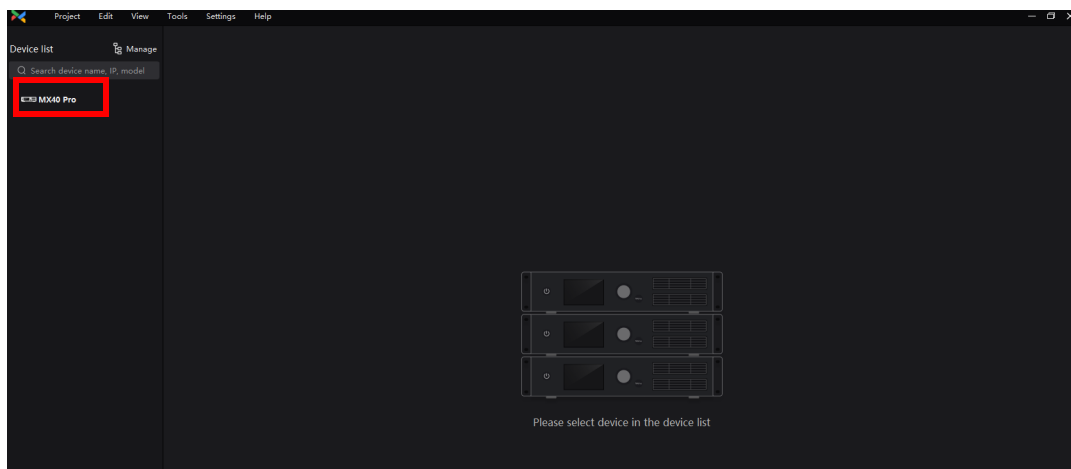
#### Selecting a Processor

After launching the software, Nova VMP will detect all connected processors and auto-populate the device list. To select a processor.

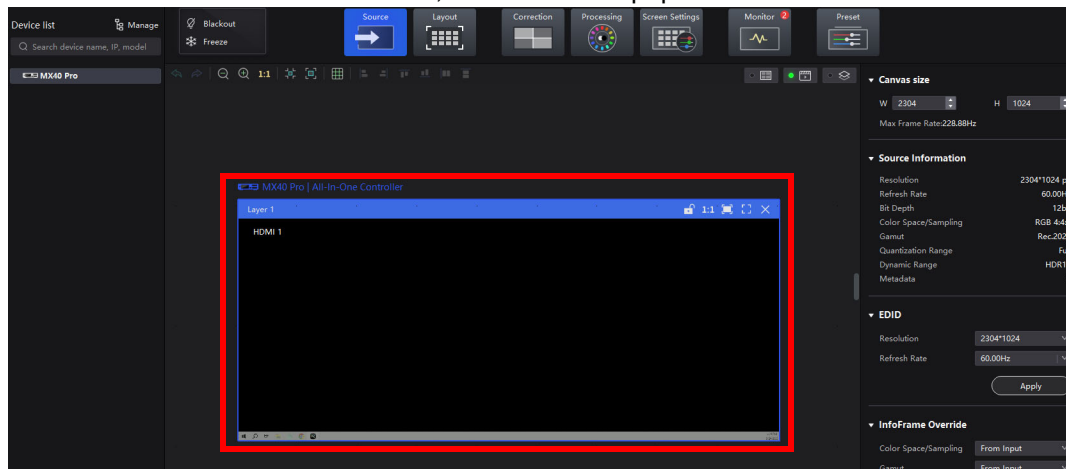
1. Launch Nova VMP software and locate the **Device list** menu.



2. Under the **Device list** menu, select the desired processor (i.e. Novastar MX40 Pro).



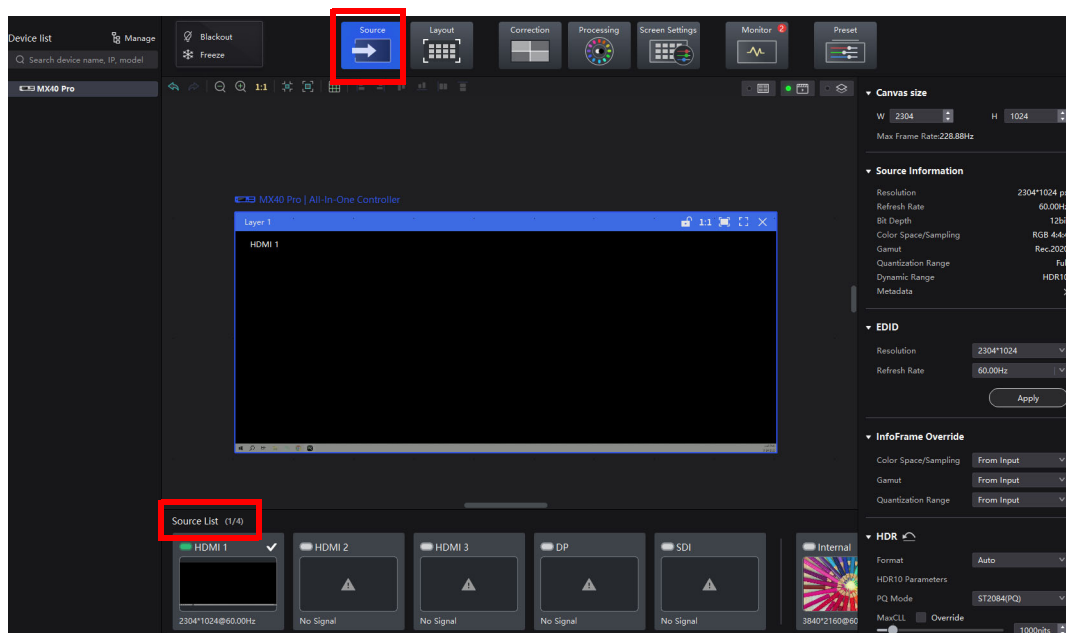
3. Once the desired device is selected, the canvas will populate.



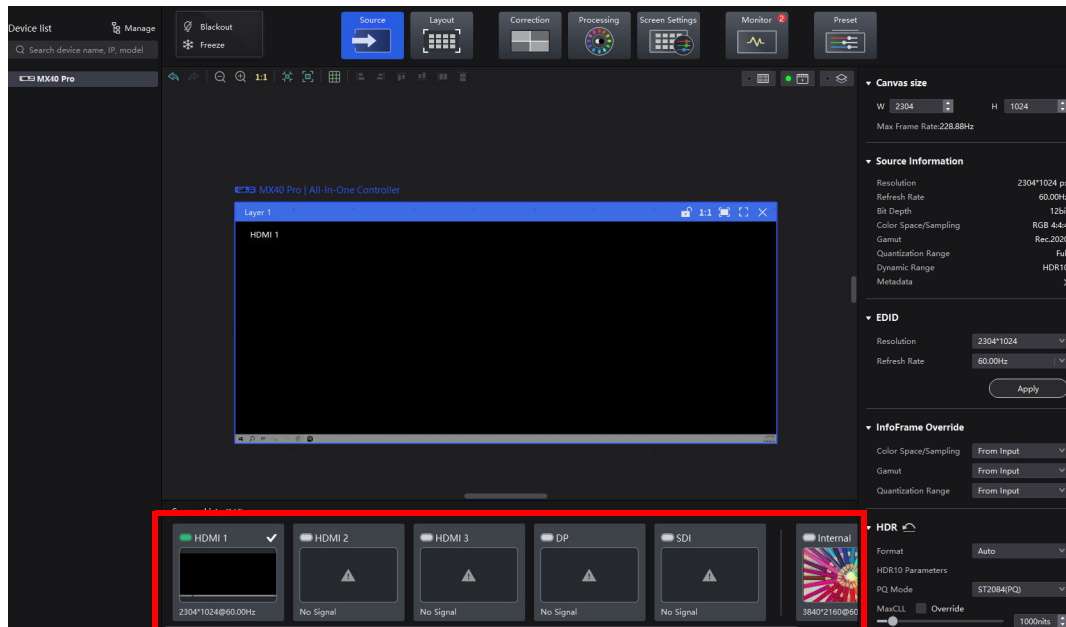
## Selecting a Signal Source

To select a source:

1. Ensure that the **Source** tab is selected. Locate the source list at the bottom of the screen.



2. Select the desired signal.

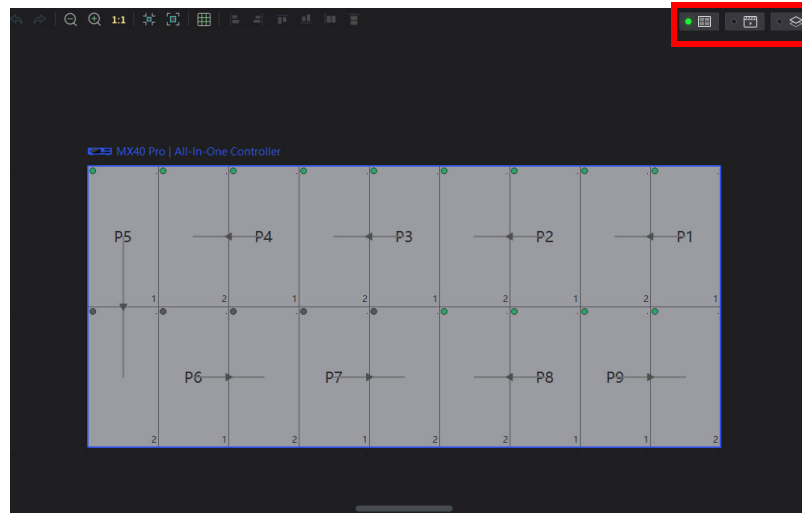




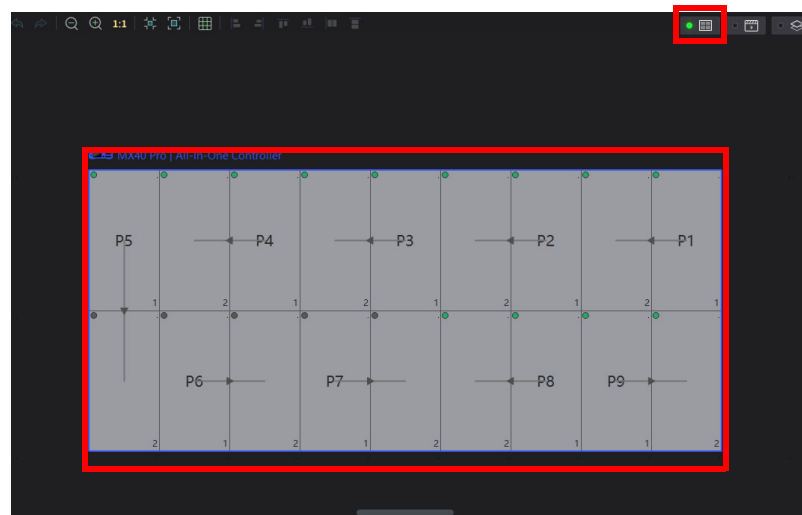
### Customizing the Canvas

The canvas is located at the center of the screen. Users can toggle between three different options to customize the canvas. To customize the canvas:

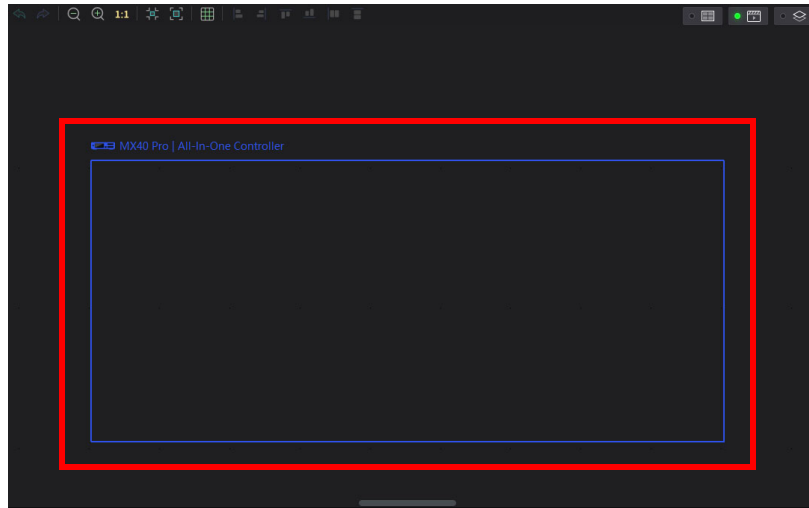
1. Locate the three custom mapping buttons above the canvas.



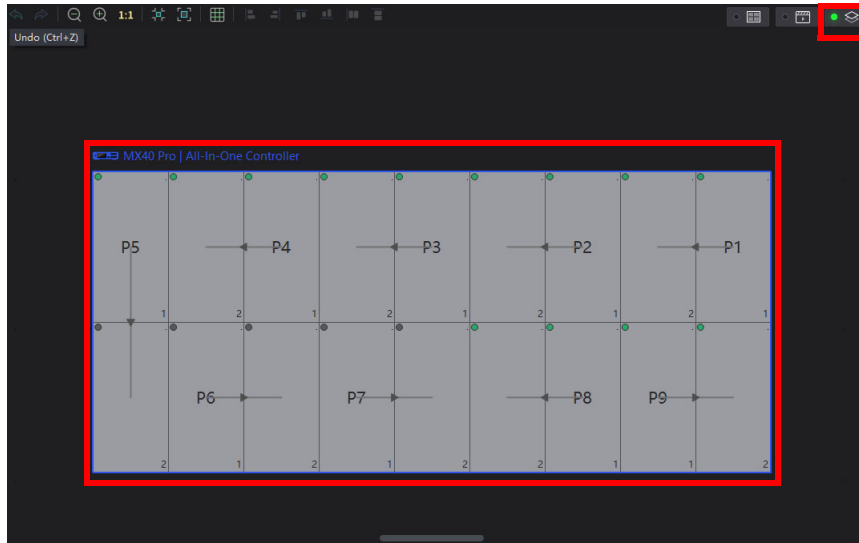
2. Each button will customize the canvas differently. Select the **Cabinet only** button and all panels will be visible on the canvas.



3. Select the **Source Only** button and the source will be visible on the canvas.



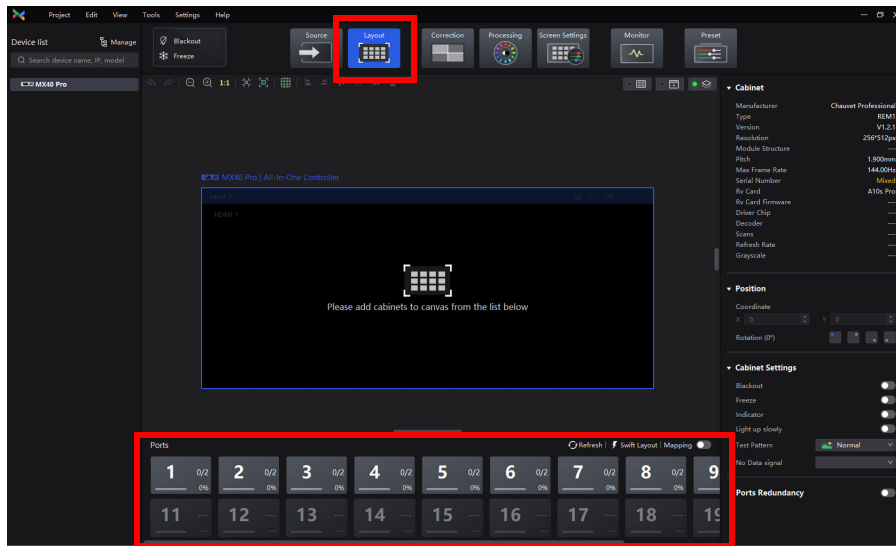
4. Select **Both** to show the source and cabinet option on the canvas.



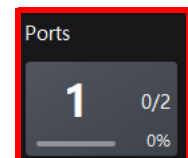
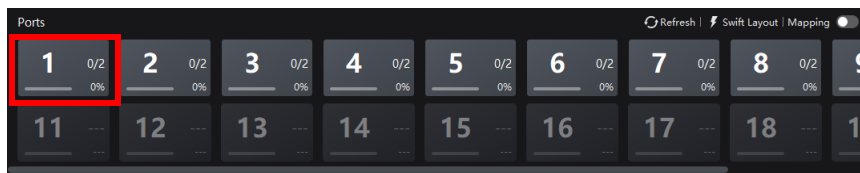
## Mapping Video Panels

In order to apply various features on the NOVA VMP software, the video panels must first be mapped. To map video panels using the Nova VMP software:

1. Ensure that the **Layout** tab is selected. Locate the **Ports** window at the bottom of the display.

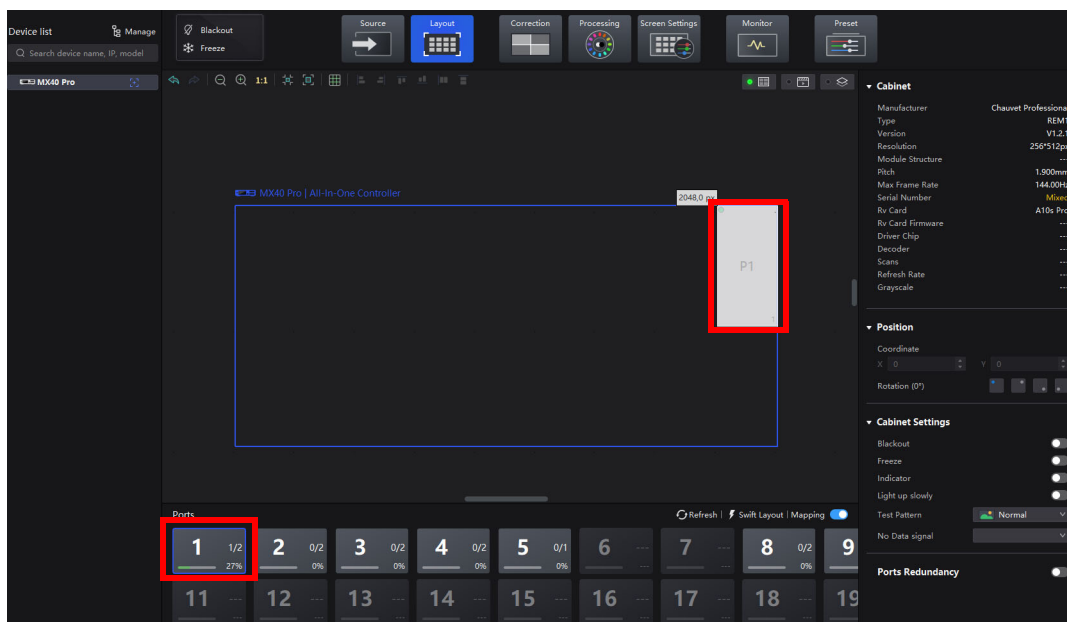


2. Select the desired port to be mapped.

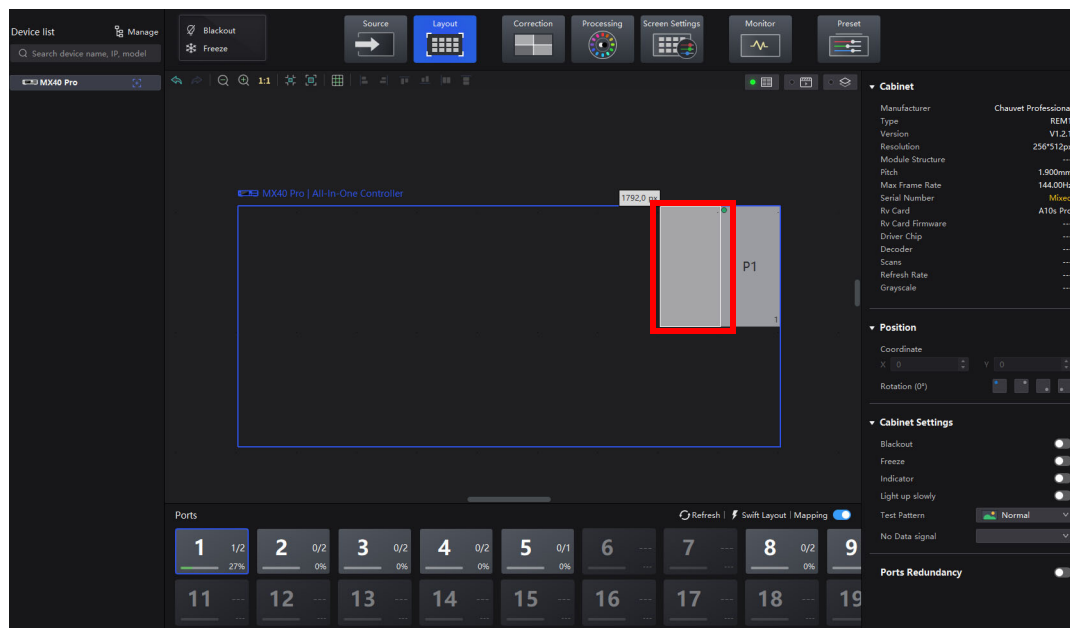


- Each port button is labeled from 1-20 and contains several values.
- The top value denotes the number of panels mapped against the number detected (i.e 0/2), and the bottom value denotes the total capacity that has been mapped (i.e 0%).

3. Drag desired panel onto the canvas.



- Press and hold to select the desired panel on the canvas. Drag the panel to map it on the canvas.

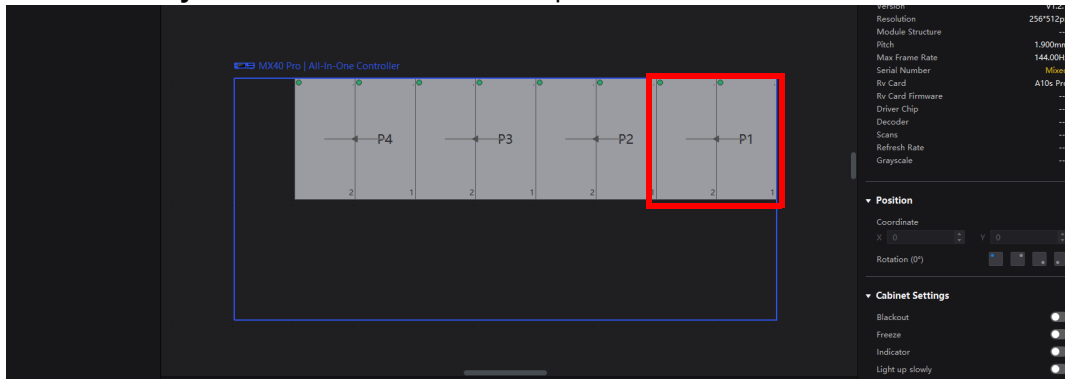


Follow the previous steps to map the entire canvas.

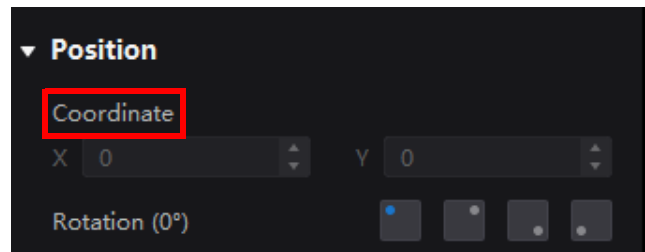
## Changing the Video Panel Orientation

It is possible to move the REM 3IP and REM 3IPSQ panels without manually dragging them within the canvas. To change the video panel orientation:

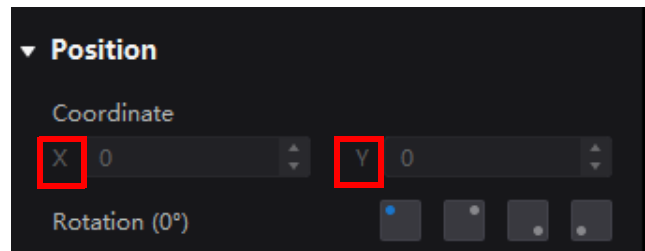
1. Ensure the **Layout** tab is selected. Select the panel on the canvas to be moved.



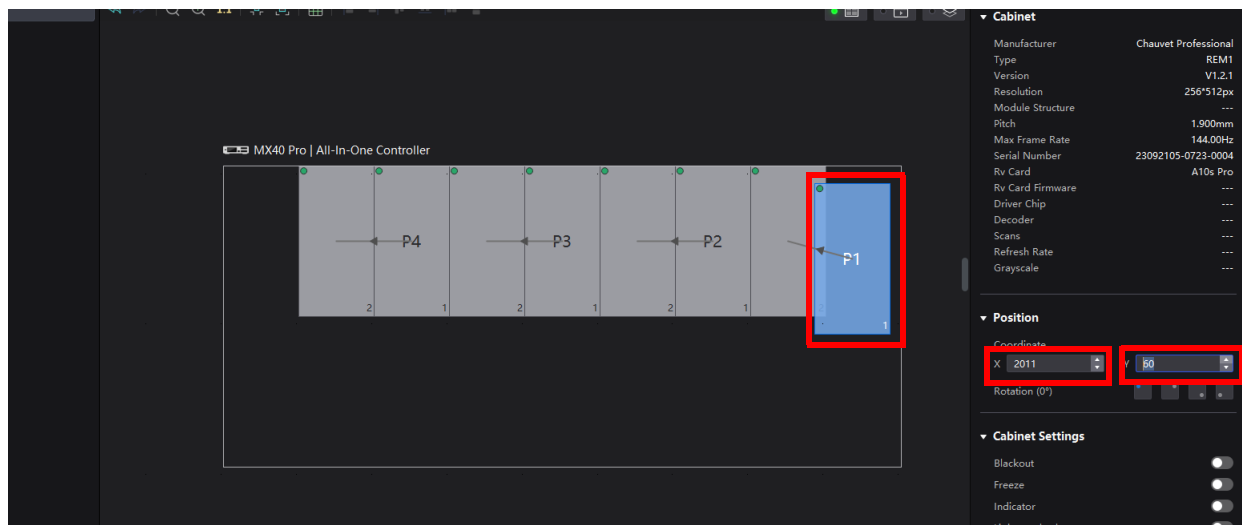
2. Open the **Position** drop down menu and locate the **Coordinate** option.



3. Under the **Coordinate** option, use the up and down arrows of the X and/or Y boxes to adjust the orientation of the panel along the x or y axis.



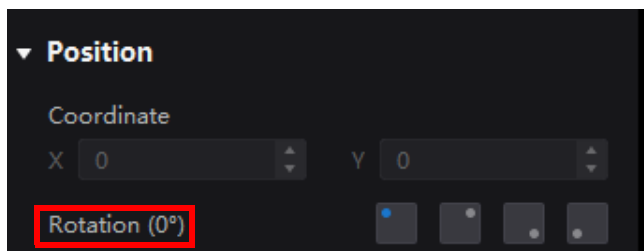
4. The changing values in the X and/or Y boxes change will move the position of the panels in the canvas.



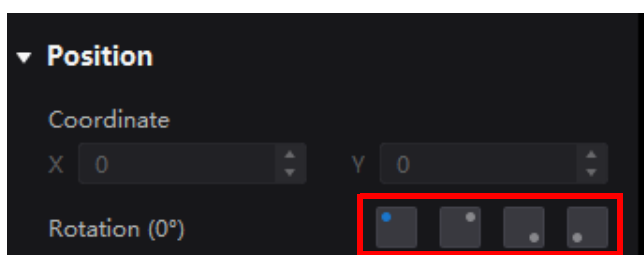
## Rotating the Video Panel Orientation

When mounting REM 3IP and REM 3IPSQ panels sideways (90° or 270°), their orientation must be set in the mapping software. To do this through Nova VMP:

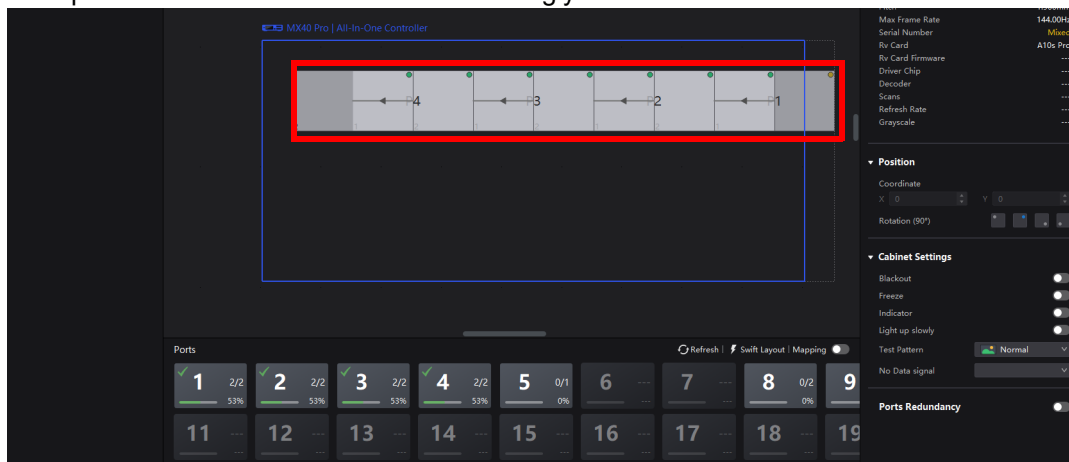
1. Ensure the **Layout** tab is selected. Select the panel on the canvas to be moved.
2. Open the **Position** drop down menu and locate the **Rotation** option.



3. Next to the **Rotation** option, use the four rotate icons to adjust the panel orientation.



4. The panels in the canvas will rotate accordingly.

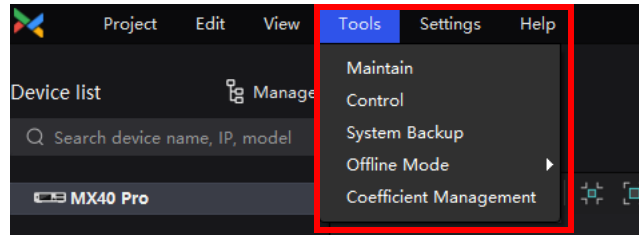


## Operation

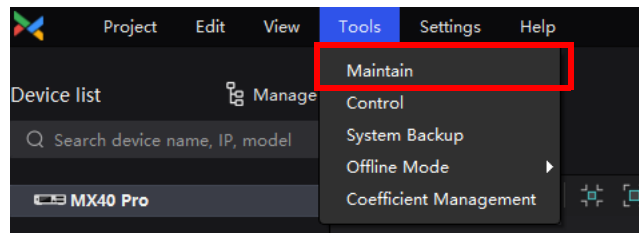
### Updating Cabinet Firmware

To update the firmware of REM 3IP and REM 3IPSQ products through VMP.

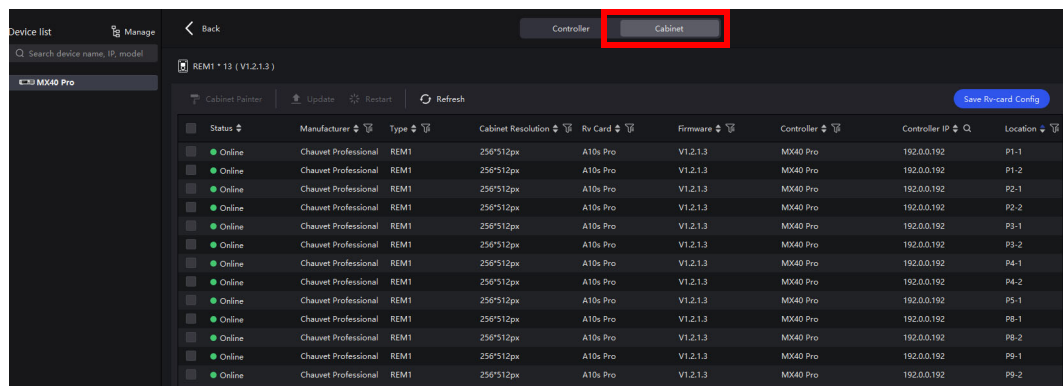
1. Select the **Tools** menu from the menu bar.



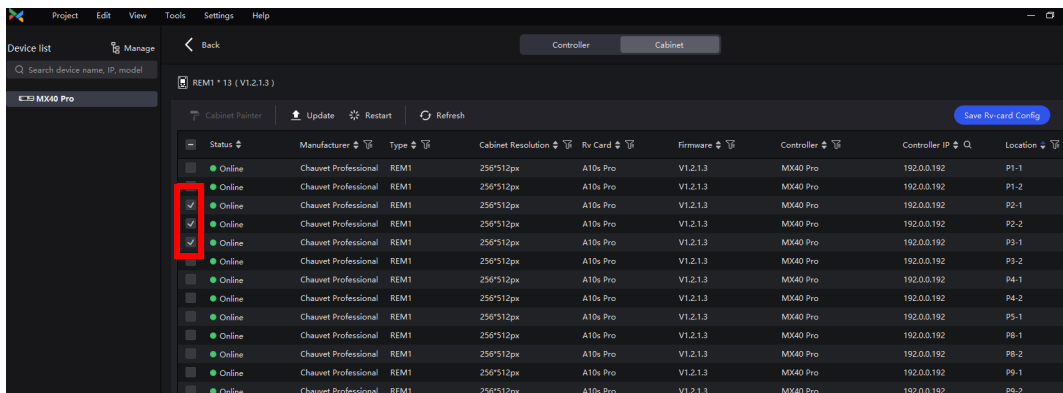
2. Select **Maintain** from the **tools** menu.



3. Under the new display, select the **cabinet** tab to provide access to the firmware installation.



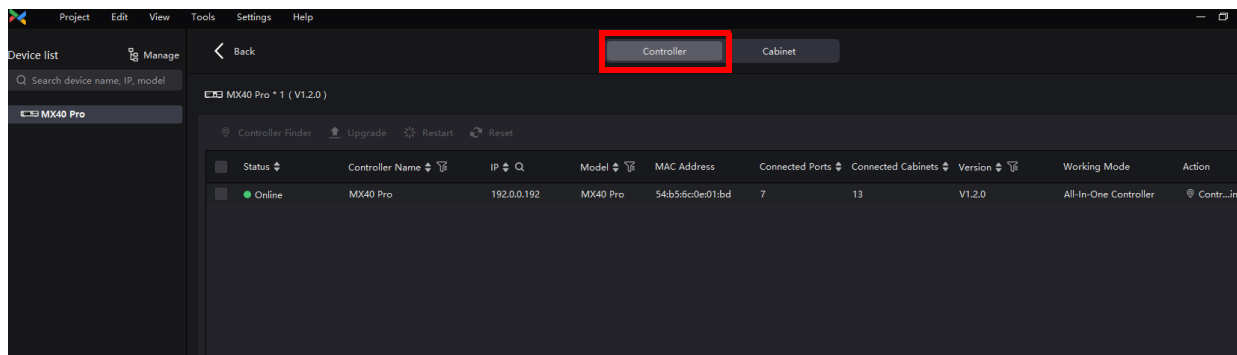
4. Select the desired update location by selecting the corresponding box(es).



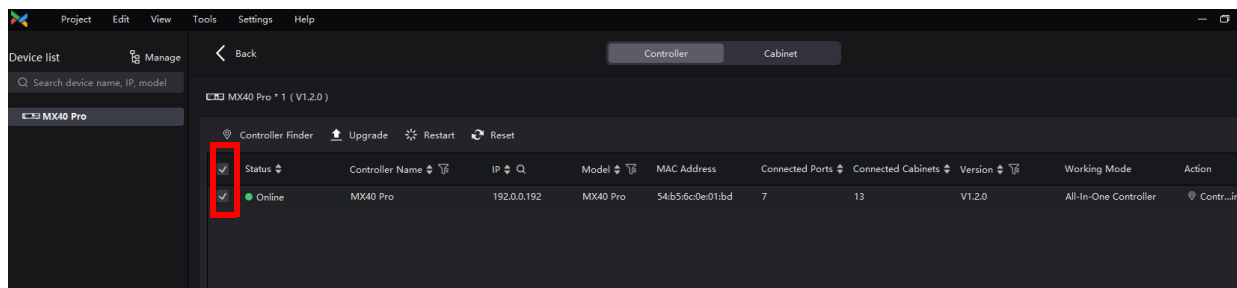
## Updating Controller Firmware

To update the controller:

1. Follow steps 1-2 from the previous section.
2. Under the new display, select the **controller** tab to provide access to the firmware installation.



3. Select the desired update location by selecting the corresponding box(es).





## 11. Technical Information

### REM 3IP and REM 3IPSQ Maintenance

To maintain optimum performance and minimize wear, the user should clean this product regularly. Usage and environment are contributing factors in determining the cleaning frequency.

As a rule, clean this product at least twice a month. Dust build-up reduces light output performance and can cause overheating. This can lead to reduced light source life and increased mechanical wear.

To clean a REM 3IP and REM 3IPSQ, follow the recommendations below:

1. Unplug the panel from power.
2. Wait until the product is at room temperature.
3. Use a soft brush to remove dust collected on the external components.
4. Wipe the outside of the LED Modules with a soft, lint-free cloth dampened with a solution of 99% isopropyl alcohol. **ONLY** apply gentle pressure, or risk damaging the anti-reflective coating.
5. Make sure all connections are thoroughly dry before reconnecting power and signal cables.



**Always dry the external surfaces carefully after cleaning them.**



- **ONLY** apply gentle pressure, or risk damaging the anti-reflective coating.
- **CAUTION!** Take special care when using 99% isopropyl alcohol, as fumes may be harmful if inhaled. Vapors may cause drowsiness and dizziness. Keep away from sparks and flames.



- **To ensure consistent color matching and output, replace damaged or defective modules with the same LED lot # as the others on the panel.**
- **LED lot #'s can be located on the back of each module.**

## 12. Technical Specifications

### REM3IP

Light Source	Red Wavelength	Green Wavelength	Blue Wavelength
Tri-color RGB SMD 1921LED (Black frame, white reflector)	615 to 630 nm	520 to 535 nm	465 to 480 nm
Pixels per Panel	Pixel Pitch (between LEDs)	Pixel Density	Display Refresh Rate
128 x 256 (32,768 total)	3.9 mm	65,536/m <sup>2</sup>	7,680 Hz (S-PWM)
Viewing Angle (H/V) 140°/140°	Calibrated Illuminance	Maximum Illuminance	
	4,500 NITS	>5000 NITS	

### Power

Power Supply Type	AC Voltage Range		Voltage Selection
Switching	100–240 VAC, 50/60 Hz		Auto-ranging
Parameter	120 V, 60 Hz	208 V, 60 Hz	230 V, 50 Hz
Power Consumption	300 W, 2.5 A	300 W, 1.44 A	300 W, 1.3 A
Power Linking	5 units	10 units	11 units

### Construction/Physical

Dimensions	Weight
19.7 x 3.3 x 39.4 in (500 x 83 x 1000mm)	31.2 lb (14.15 kg)
Housing Material	Operating Temperature
Aluminum ADC12	-4 °F to 95 °F (-20 °C to 35 °C)

### Connections

Power Connection	Data Connection	Control Protocol
Seetronic Powerkon® IP65	Seetronic Etherkon® IP65	Novastar Coex VMP
Maximum Panels/Novastar MX40 Pro (24 Hz frame rate)		Notes for All Drives
8-bit video source: 50/port, up to 1,000/Processor/Sender		Increasing refresh rate reduces port capacity Adding mapping space between panels reduces port capacity
10-bit video source: 37/port, up to 740/Processor/Sender		
12-bit video source: 25/port, up to 500/Processor/Sender		
Maximum Panels/Novastar MX40 Pro (30 Hz frame rate)		
8-bit video source: 40/port, up to 800/Processor/Sender		
10-bit video source: 30/port, up to 600/Processor/Sender		
12-bit video source: 20/port, up to 400/Processor/Sender		
Maximum Panels/Novastar MX40 Pro (60 Hz frame rate)		
8-bit video source: 20/port, up to 400/Processor/Sender		
10-bit video source: 15/port, up to 300/Processor/Sender		
12-bit video source: 10/port, up to 200/Processor/Sender		
Maximum Panels/Novastar MX40 Pro (120 Hz frame rate)		
8-bit video source: 10/port, up to 200/Processor/Sender		
10-bit video source: 7/port, up to 140/Processor/Sender		
12-bit video source: 5/port, up to 100/Processor/Sender		
Maximum Panels/Novastar MX40 Pro (144 Hz frame rate)		
8-bit video source: 8/port, up to 160/Processor/Sender		
10-bit video source: 6/port, up to 120/Processor/Sender		
12-bit video source: 4/port, up to 80/Processor/Sender		
Max. Wide/Novastar MX40 Pro	Max. Wide/Novastar MX40 Pro	Max. Wide/Novastar MX40 Pro
15 @ 1920 wide resolution	30 @ 3840 wide resolution	64 @ 8192 wide resolution
Max. Tall/Novastar MX40 Pro	Max. Tall/Novastar MX40 Pro	Max. Tall/Novastar MX40 Pro
4 @ 1080	5 @ 1344	6 @ 1680
Max. Tall/Novastar MX40 Pro	Max. Tall/Novastar MX40 Pro	Max. Tall/Novastar MX40 Pro
8 @ 2160		

### Ordering

Product Name	Item Name	Item Code	UPC Number
REM3IP	REM3IP X4	23092118	781462224660

## Technical Specifications

### REM3IPSQ

Light Source	Red Wavelength	Green Wavelength	Blue Wavelength
Tri-color RGB SMD 1921LED (Black frame, white reflector)	620 to 625 nm	512 to 532 nm	460 to 475 nm
Pixels per Panel	Pixel Pitch (between LEDs)	Pixel Density	Display Refresh Rate
128 x 128 (16,384 total)	3.9 mm	65,536/m <sup>2</sup>	7,680 Hz (S-PWM)
Viewing Angle (H/V) 140°/140°	Calibrated Illuminance	Maximum Illuminance	
	4,500 NITS	>5000 NITS	

### Power

Power Supply Type	AC Voltage Range		Voltage Selection
Switching	100–240 VAC, 50/60 Hz		Auto-ranging
Parameter	120 V, 60 Hz	208 V, 60 Hz	230 V, 50 Hz
Power Consumption	150 W, 1.25 A	150 W, 0.72 A	150 W, 0.65 A
Power Linking	11 units	21 units	23 units

### Construction/Physical

Dimensions	Weight
19.7 x 3.3 x 39.4 in (500 x 83 x 500mm)	18.2 lb (8.26 kg)
Housing Material	Operating Temperature
Aluminum ADC12	-4 °F to 95 °F (-20 °C to 35 °C)

### Connections

Power Connection	Data Connection	Control Protocol
Seetronic Powerkon® IP65	Seetronic Etherkon® IP65	Novastar Coex VMP
Maximum Panels/Novastar MX40 Pro (24 Hz frame rate)		Notes for All Drives  Increasing refresh rate reduces port capacity Adding mapping space between panels reduces port capacity
8-bit video source: 100/port, up to 2,000/Processor/Sender		
10-bit video source: 75/port, up to 1,500/Processor/Sender		
12-bit video source: 50/port, up to 1,000/Processor/Sender		
Maximum Panels/Novastar MX40 Pro (30 Hz frame rate)		
8-bit video source: 80/port, up to 1,600/Processor/Sender		
10-bit video source: 60/port, up to 1,200/Processor/Sender		
12-bit video source: 40/port, up to 800/Processor/Sender		
Maximum Panels/Novastar MX40 Pro (60 Hz frame rate)		
8-bit video source: 40/port, up to 800/Processor/Sender		
10-bit video source: 30/port, up to 600/Processor/Sender		
12-bit video source: 20/port, up to 400/Processor/Sender		
Maximum Panels/Novastar MX40 Pro (120 Hz frame rate)		
8-bit video source: 20/port, up to 400/Processor/Sender		
10-bit video source: 15/port, up to 300/Processor/Sender		
12-bit video source: 10/port, up to 200/Processor/Sender		
Maximum Panels/Novastar MX40 Pro (144 Hz frame rate)		
8-bit video source: 16/port, up to 320/Processor/Sender		
10-bit video source: 12/port, up to 240/Processor/Sender		
12-bit video source: 8/port, up to 160/Processor/Sender		
Max. Wide/Novastar MX40	Max. Wide/Novastar MX40	Max. Wide/Novastar MX40
15 @ 1920 wide resolution	30 @ 3840 wide resolution	64 @ 8192 wide resolution
Max. Tall/Novastar MX40	Max. Tall/Novastar MX40	Max. Tall/Novastar MX40
8 @ 1080	10 @ 1344	13 @ 1680
		16 @ 2160

### Ordering

Product Name	Item Name	Item Code	UPC Number
REM 3IPSQ	REM3IPSQX8	23092120	781462224684



UL 62368-1  
CSA C22.2 No. 62368-1  
E114016



RoHS



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## Warranty & Returns

**For warranty terms and conditions and return information, please visit our website.**

For customers in the United States and Mexico: [www.chauvetlighting.com/warranty-registration](http://www.chauvetlighting.com/warranty-registration).

For customers in the United Kingdom, Republic of Ireland, Belgium, the Netherlands, Luxembourg, France, and Germany: [www.chauvetlighting.eu/warranty-registration](http://www.chauvetlighting.eu/warranty-registration).