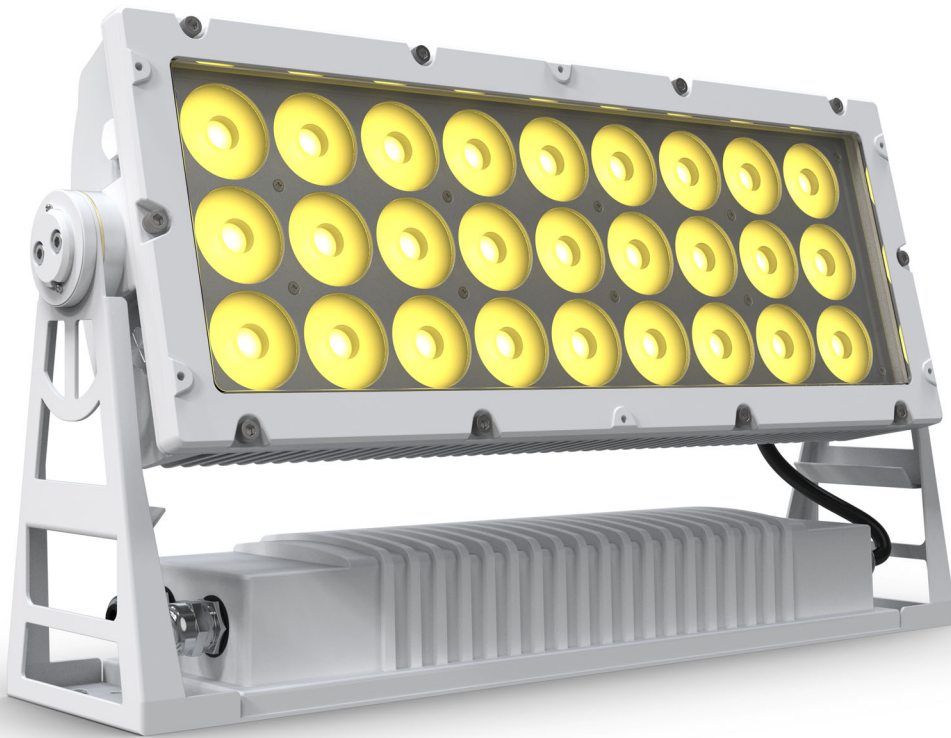


ILUMIPANEL ML2

User Manual



Model ID: ILUMIPANELML2

ILUMINARC®

Edition Notes

The Ilumipanel ML2 User Manual includes a description, safety precautions, installation, programming, operation, and maintenance instructions for the Ilumipanel ML2 as of the release date of this edition.

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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.

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Go to www.chauvetprofessional.com for the latest version.

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1. Before You Begin

What Is Included

- Illumipanel ML2
- Filter frame
- Quick Reference Guide

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
1–512	A range of values
50/60	A set of values of which only one can be chosen
Settings	A menu option not to be modified
<ENTER>	A key to be pressed on the product's control panel

Symbols

Symbol	Meaning
	Electrical warning. Not following these instructions may cause electrical damage to the product, accessories, or the user.
	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.
	Pinch point warning. Not following these instructions may result in damage to, or loss of, tools, digits, or limbs.
	Important installation or configuration information. The product may not function correctly if this information is not used.
	Useful information.

The term “DMX” used throughout this manual refers to the USITT DMX512-A digital data transmission protocol.



Connection of the control signal: DMX line

- The product has bare-ended IP66-rated signal cable for DMX input.
- Notice: This control circuit is isolated and belongs to the Class 2 data port.

The control circuit has a cumulative leakage current of less than 3.5 mA.

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.

- The luminaire is intended for professional use only.
- The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 3.28 ft (1 m) is not expected.
- If the external flexible cable or cord of this luminaire is damaged, it shall be replaced by a special cord or cord exclusively available from the manufacturer or its service agent.
- The light source contained in this luminaire shall only be replaced by the manufacturer or its service agent or a similar qualified person.
- **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.
 - Flashing light is known to trigger epileptic seizures. User must comply with local laws regarding notification of strobe use.
- **ALWAYS:**
 - Disconnect from power before cleaning the product.
 - When using an IP67-rated product in an outdoor environment, use IP67- (or higher) rated power and data cables.
 - 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.
 - Look at the light source when the product is on.
 - Leave any flammable material within 30 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 (adhere to standards for the published IP rating). Regular outdoor operation is fine.
 - Permanently install outdoors in locations with extreme environmental conditions. This includes, but is not limited to:
 - Exposure to a marine/saline environment (within 3 miles of a saltwater body of water).
 - Locations where normal temperatures exceed the temperature ranges in this manual.
 - Locations that are prone to flooding or being buried in snow.
 - Other areas where the product will be subject to extreme radiation or caustic substances.
- The maximum ambient temperature is 113 °F (45 °C). Do not operate this product at higher temperatures.
- The minimum startup temperature is -4°F (-20°C). Do not start the product at lower temperatures.
- The minimum ambient temperature is -22°F (-30°C). Do not operate the product at lower temperatures.
- To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker.
- In the event of a serious operating problem, stop using immediately.



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

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.

Expected LED Lifespan

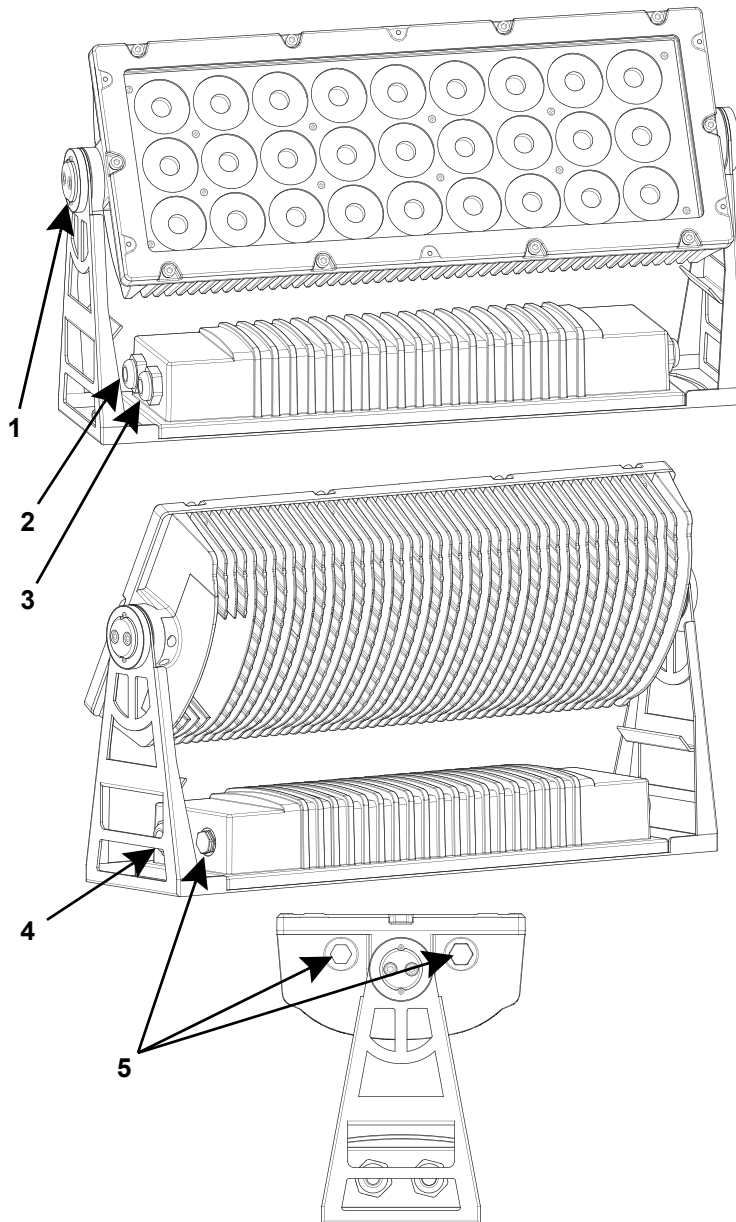
Over time, use and heat will gradually reduce LED brightness. Clustered LEDs produce more heat than single LEDs, contributing to shorter lifespans if always used at full intensity. The average LED lifespan is 40,000 to 50,000 hours. To extend LED lifespan, maintain proper ventilation around the product,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

2. Introduction

Features

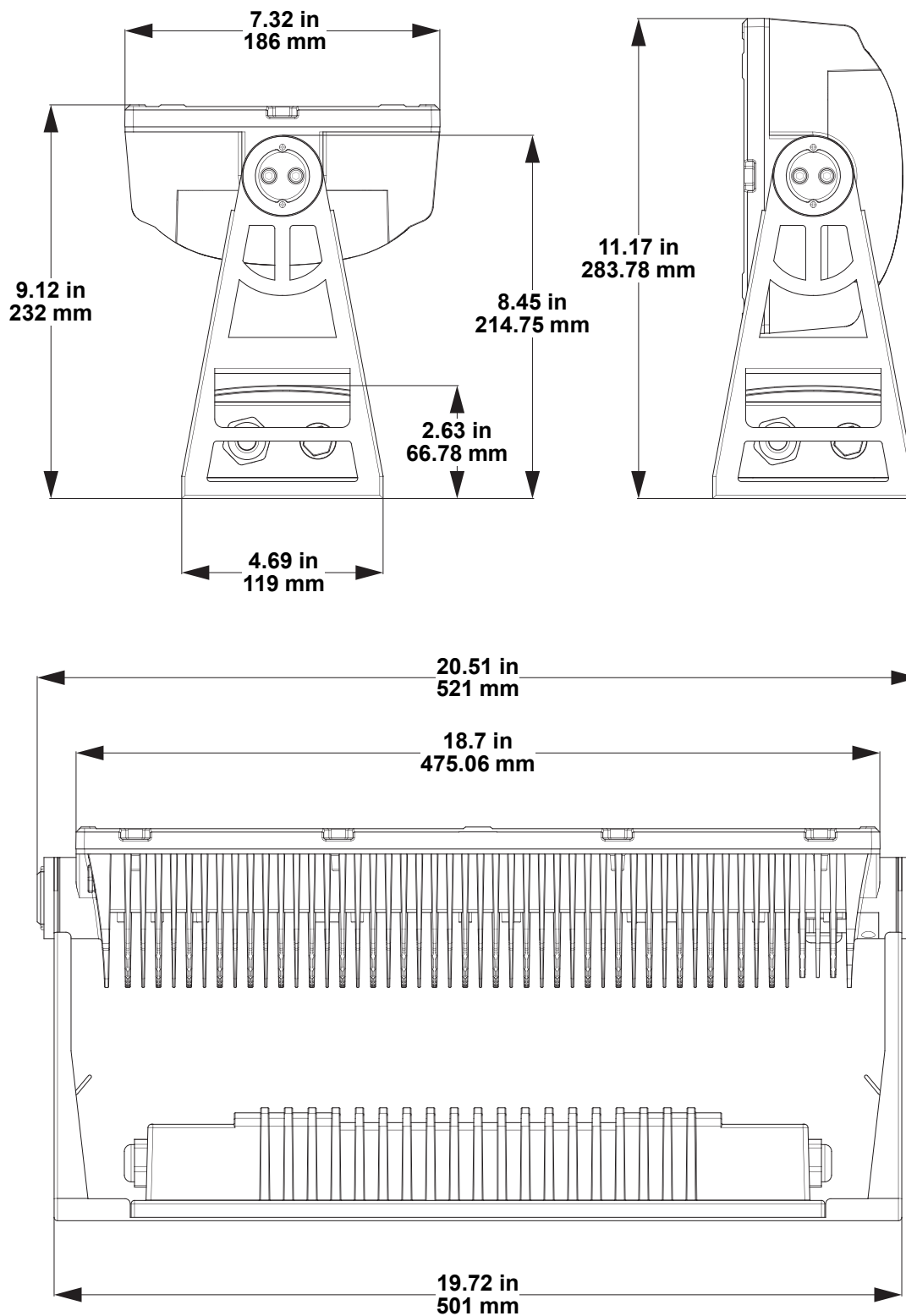
- 4-in-1 RGBL Color Mixing
- 50,000 hour LED Lifespan
- Beam Angle: 8°, or change with optional Beam Filters
- Illuminance: 17,205 lux @ 5 m
- IP Rating: 67
- Integrated Yoke
- Optional Beam Spread Filters can be applied without breaking IP Seal

Product Overview



#	Name
1	Yoke lock (x2)
2	Data input cord
3	Power input cable
4	Base-to-panel power cable
5	GORE® valves

Product Dimensions



3. Setup

AC Power

The Ilumipanel ML2 has an auto-ranging power supply and it can work with an input voltage range of 100 to 277 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). Ensure 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 Ilumipanel ML2 comes with a bare-ended power input cable. Use the table below to wire a 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

DMX Linking

The Ilumipanel ML2 will work with a DMX controller using a standard DMX serial connection. A DMX Primer is available from www.iluminarc.com.

DMX Output

Signal Connector



1. Ground
2. Data -
3. Data +



1. Ground (black clip)
2. Data - (green clip)
3. Data + (red clip)

Remote Device Management

Remote Device Management, or RDM, is a standard for allowing DMX-enabled devices to communicate bi-directionally along existing DMX cabling. Check the DMX controller's User Manual or with the manufacturer as not all DMX controllers have this capability. The Ilumipanel ML2 supports RDM protocol that allows feedback to make changes to menu map options.

Mounting

Before mounting the product, read and follow the safety recommendations indicated in the [Safety Notes](#).

Orientation

Always mount this product in a safe position, making sure there is adequate room for ventilation, configuration, and maintenance.

Rigging

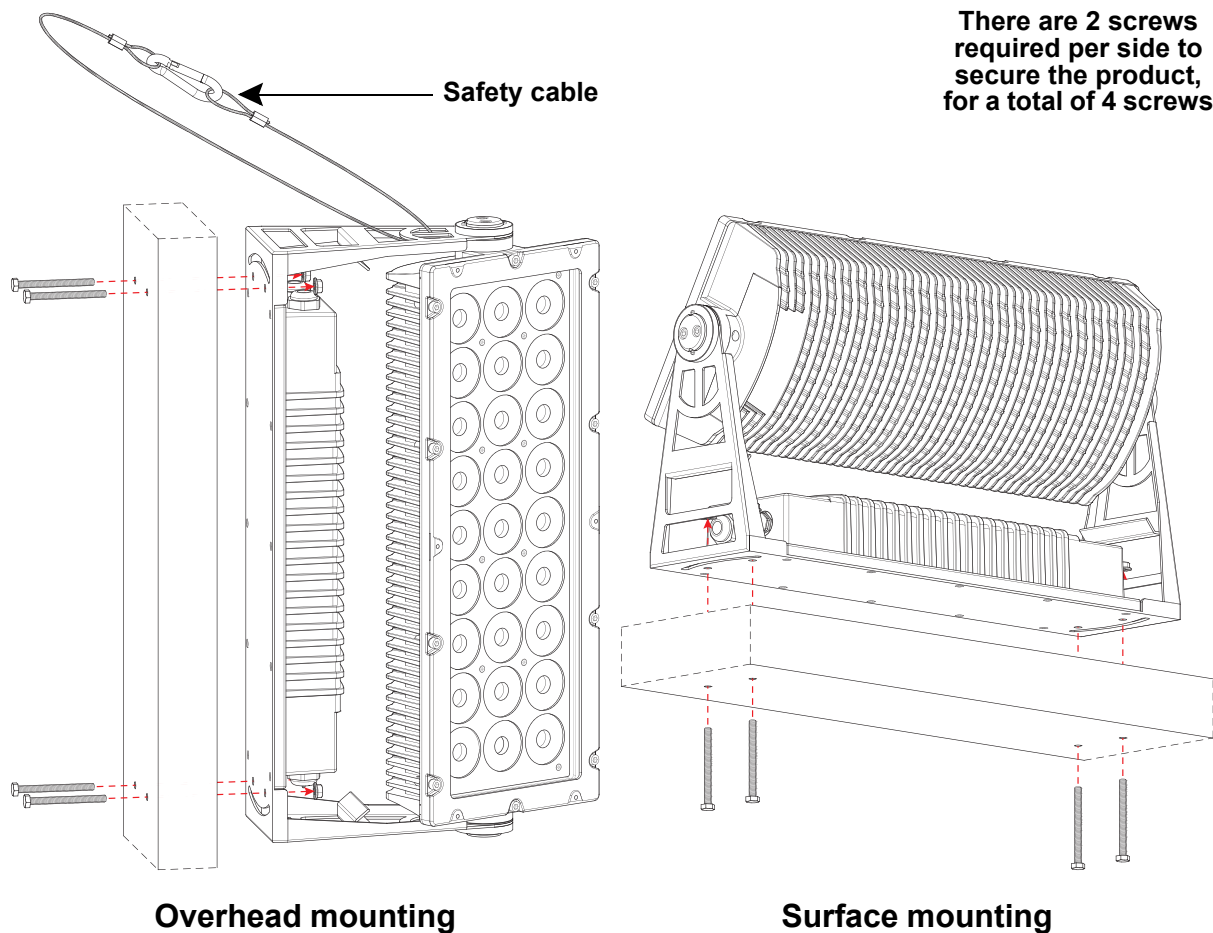
Chauvet recommends using the following general guidelines when mounting this product.

- Before deciding on a location for the product, make sure there is easy access to the product for maintenance and programming purposes.
- Make sure that the structure and attachment points can support the weight before hanging the product (see the [Technical Specifications](#) for weight information).
- When mounting the product overhead, always use a safety cable. Mount the product securely to a rigging point, whether an elevated platform or a truss.
- When rigging the product onto a truss, use hardware of appropriate weight capacity.

Procedure

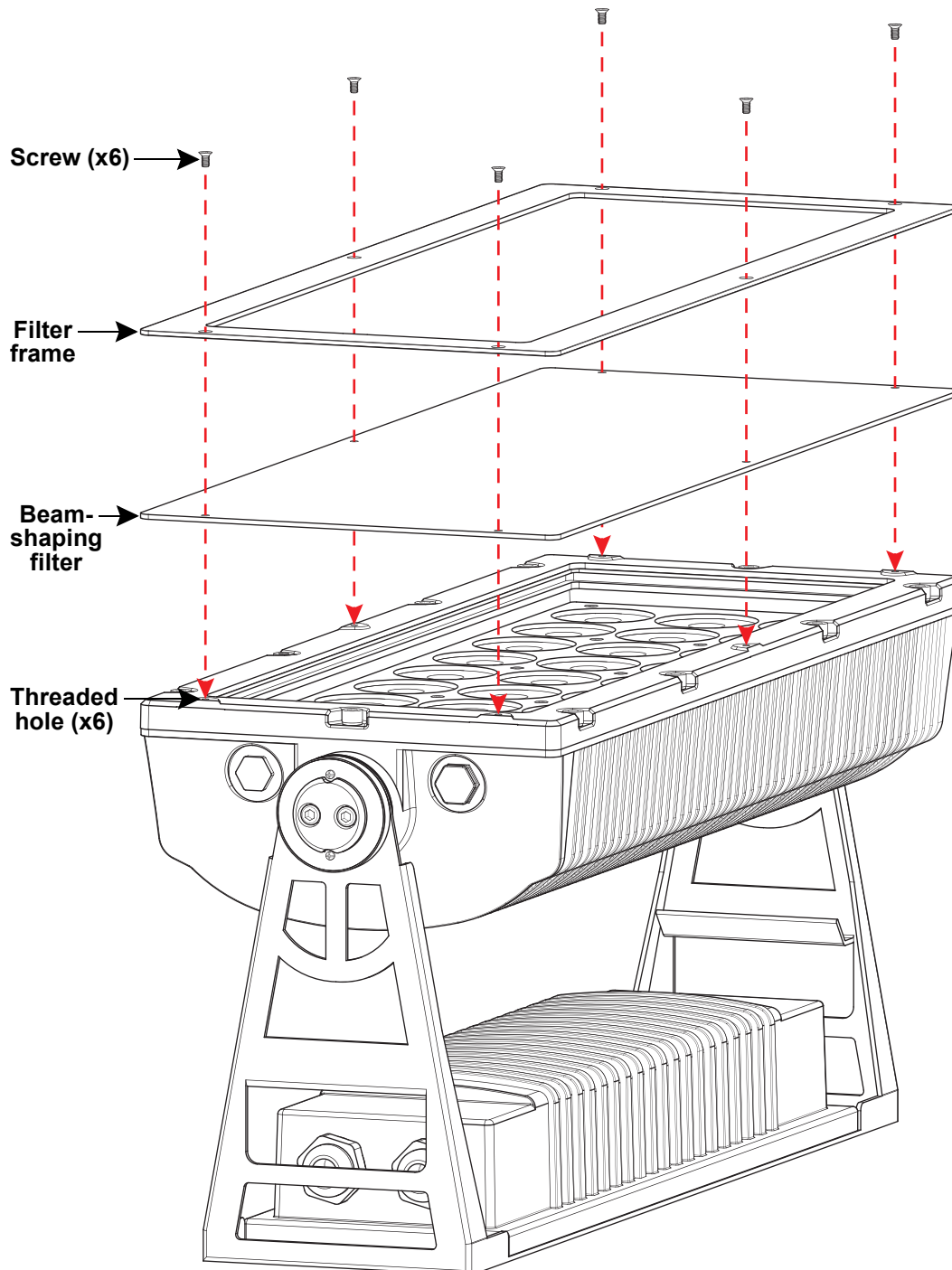
The Ilumipanel ML2 comes with an adjustable bracket. The user can secure this bracket directly to a mounting surface. Make sure the mounting surface and hardware are capable of supporting the weight of this product.

Mounting Diagram



Beam Shaping Filters

The Ilumipanel ML2 can be used with the medium, wide, very wide, or asymmetrical beam-shaping filters (sold separately).



Follow the instructions below to install a beam-shaping filter:

1. Detach the filter frame by removing the screws securing it to the product.
2. Line up the holes in the beam-shaping filter with the threaded holes which secure the filter frame. Ensure the glossy side of the filter is facing OUT.
3. Secure the filter frame and beam-shaping filter with the screws removed in step 1.

4. Operation

RDM2go Control

The Ilumipanel ML2 requires an external controller, such as the RDM2go from Chauvet Professional, to change its configuration.

Menu Map

Refer to the Ilumipanel ML2 product page on www.iluminarc.com for the latest menu map.

The **Ilumicode** section of the RDM2go from Chauvet Professional is required to access the full menu of options. For more information, download the RDM2go User Manual from www.chauvetprofessional.com.

Main Level	Programming Levels			Description
STATIC	RED		000–255	Configures a static color and effect
	GREEN			
	BLUE			
	COOL			
	SOLID			
	STROBE			
DIMMER	OFF			Linear (immediate) dimmer
	DIM1–4			Dimmer speed from fast (DIM1) to slow (DIM4)
CALIB	WHITE 1–11	RED GREEN BLUE COOL	000–255	Configures the bank of white settings
	RGBTOW			Configures the white balance for RGB to W color mode
PERSON	ARC1			3-channel: RGB control
	ARC1+D			4-channel: dimmer, RGB control
	ARC2			4-channel: RGBL control
	ARC2+D			5-channel: dimmer, RGBL control
	ARC FULL			8-channel: dimmer, RGB control, preset color, color temperature, strobe, dimmer speed
	SOLID			1-channel: dimmer
	SPECIAL 1			15-channel: dimmer, strobe, dimmer speed, 3-zone RGBL control
	SPECIAL 2			9-channel: dimmer, RGBL control, preset color, color temperature, strobe, dimmer speed
DMX	001–512			Configures DMX address (highest available address restricted by selected personality)
UC-CALIB	RED		000–255	Configures the white balance for Universal Color mode
	GREEN			
	BLUE			
SETTINGS	COLOR	OFF		Maximum output (unbalanced white)
		RGBTOW		RGB to W color mode
		UC		Universal Color mode (matches legacy products)
	RESET	NO		Resets the product to factory default settings
		YES		

DMX Configuration

Use control configurations to operate the product with a DMX controller.

DMX Personalities

To set the DMX personality:

1. Go to the **PERSON** main level.
2. Select the desired personality, from **ARC1**, **ARC1+D**, **ARC2**, **ARC2+D**, **ARC FULL**, **SOLID**, **SPECIAL 1**, or **SPECIAL 2**.



- See the [Starting Address](#) section for the highest selectable starting address for each personality.
- Make sure that the starting addresses on the various products do not overlap due to the new personality setting.

Starting Address

Each product will respond to a unique starting address from the controller. All products with the same starting address will respond in unison. To set the starting address in DMX mode:

1. Go to the **DMX** main level.
2. Select the starting address (**001–512**).

Personality	Channels	Highest Address	Products per Universe
ARC1	3	510	170
ARC1+D	4	509	128
ARC2	4	509	128
ARC2+D	5	508	102
ARC FULL	8	505	68
SOLID	1	512	1
SPECIAL 1	15	498	34
SPECIAL 2	9	504	56

DMX Channel Assignments and Values

Preset Color Chart

Value	Function	Value	Function	Value	Function
000 ⇔ 010	No function	071 ⇔ 080	LEE Yellow	161 ⇔ 165	Dark Steel Blue
011 ⇔ 020	Light Salmon	081 ⇔ 085	Ice And A Slice	166 ⇔ 185	Pale Violet
021 ⇔ 025	Scarlet	086 ⇔ 110	Dark Yellow Green	186 ⇔ 200	Pretty 'n Pink
026 ⇔ 030	Flame Red	111 ⇔ 120	Turquoise	201 ⇔ 205	Follies Pink
031 ⇔ 045	Dark Salmon	121 ⇔ 140	Steel Green	206 ⇔ 220	Smokey Pink
046 ⇔ 050	Sunset Red	141 ⇔ 145	Steel Blue	221 ⇔ 225	Flesh Pink
051 ⇔ 060	CID (To Tungsten)	146 ⇔ 150	Special Steel Blue	226 ⇔ 240	Pink
061 ⇔ 065	Soft Golden Amber	151 ⇔ 160	New Colour Blue	241 ⇔ 255	Cherry Rose
066 ⇔ 070	Urban Sodium				

Color Temperature Chart

Value	Function	Value	Function	Value	Function
000 ⇔ 009	No function	071 ⇔ 084	3201–3999K	145	6000K
010	1800K	085	4000K	146 ⇔ 159	6001–6499K
011 ⇔ 024	1801–2199K	086 ⇔ 099	4001–4499K	160	6500K
025	2200K	100	4500K	161 ⇔ 174	6501–6999K
026 ⇔ 039	2201–2699K	101 ⇔ 114	4501–4999K	175	7000K
040	2700K	115	5000K	176 ⇔ 189	7001–7999K
041 ⇔ 054	2701–2999K	116 ⇔ 129	5001–5599K	190	8000K
055	3000K	130	5600K	191 ⇔ 204	8001–9999K
056 ⇔ 069	3001–3199K	131 ⇔ 144	5601–5999K	205 ⇔ 255	10000K
070	3200K				

ARC Personalities

1: ARC1 (3 channels), 1D: ARC1+D (4), 2: ARC2 (4), 2D: ARC2+D (5), AF: ARC FULL (8)

1	1D	2	2D	AF	Function	Value	Percent/Setting
–	1	–	1	1	Dimmer	000 ⇔ 255	0–100%
1	2	1	2	2	Red	000 ⇔ 255	0–100%
2	3	2	3	3	Green	000 ⇔ 255	0–100%
3	4	3	4	4	Blue	000 ⇔ 255	0–100%
–	–	4	5	–	Lime	000 ⇔ 255	0–100%
–	–	–	–	5	Preset Color	000 ⇔ 255	See the Preset Color Chart
–	–	–	–	6	Color Temperature	000 ⇔ 255	See the Color Temperature Chart
–	–	–	–	7	Strobe	000 ⇔ 009 010 ⇔ 255	No function Strobe, 1–25 Hz
–	–	–	–	8	Dimmer Speed	000 ⇔ 009 010 ⇔ 029 030 ⇔ 069 070 ⇔ 129 130 ⇔ 189 190 ⇔ 255	No function Dimmer speed OFF Dimmer speed 1 (fastest) Dimmer speed 2 Dimmer speed 3 Dimmer speed 4 (slowest)

SOLID (1 channel)

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ⇔ 255	All LEDs (0–100%)

SPECIAL1 (15 channels)

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ⇔ 255	0–100%
2	Strobe	000 ⇔ 009 010 ⇔ 255	No function Strobe, 1–25 Hz
3	Dimmer Speed	000 ⇔ 009 010 ⇔ 029 030 ⇔ 069 070 ⇔ 129 130 ⇔ 189 190 ⇔ 255	No function Dimmer speed OFF Dimmer speed 1 (fastest) Dimmer speed 2 Dimmer speed 3 Dimmer speed 4 (slowest)
4	Red 1	000 ⇔ 255	0–100%
5	Green 1	000 ⇔ 255	0–100%
6	Blue 1	000 ⇔ 255	0–100%
7	Lime 1	000 ⇔ 255	0–100%
8	Red 2	000 ⇔ 255	0–100%
9	Green 2	000 ⇔ 255	0–100%
10	Blue 2	000 ⇔ 255	0–100%
11	Lime 2	000 ⇔ 255	0–100%
12	Red 3	000 ⇔ 255	0–100%
13	Green 3	000 ⇔ 255	0–100%
14	Blue 3	000 ⇔ 255	0–100%
15	Lime 3	000 ⇔ 255	0–100%

SPECIAL2 (9 channels)

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ⇔ 255	0–100%
2	Red	000 ⇔ 255	0–100%
3	Green	000 ⇔ 255	0–100%
4	Blue	000 ⇔ 255	0–100%
5	Lime	000 ⇔ 255	0–100%
6	Preset Color	000 ⇔ 255	See the Preset Color Chart
7	Color Temperature	000 ⇔ 255	See the Color Temperature Chart
8	Strobe	000 ⇔ 009 010 ⇔ 255	No function Strobe, 1–25 Hz
9	Dimmer Speed	000 ⇔ 009 010 ⇔ 029 030 ⇔ 069 070 ⇔ 129 130 ⇔ 189 190 ⇔ 255	No function Dimmer speed OFF Dimmer speed 1 (fastest) Dimmer speed 2 Dimmer speed 3 Dimmer speed 4 (slowest)

Standalone Configuration

Static Mode

To configure the Illumipanel ML2 to output a static or strobing color without a DMX controller:

1. Go to the **STATIC** main level.
2. Select from **RED**, **GREEN**, **BLUE**, **COOL** (lime), or **STROBE**.
3. Set the desired value from **000–255**.



The **SOLID** option has no function with this product.

Settings Configuration

Dimmer Speed

To set the dimmer speed:

1. Go to the **DIMMER** main level.
2. Select the dimmer speed from **OFF** (instant), **DIM1** (fastest), **DIM2**, **DIM3**, or **DIM4** (slowest).

White Balance

To configure one of a bank of 11 white settings:

1. Go to the **CALIB** main level.
2. Select from **WHITE 1–11**.
3. Select the maximum color value to edit, from **RED**, **GREEN**, **BLUE**, or **COOL** (lime).
4. Set the maximum level for the selected color, from **000–255**.
5. Repeat steps 3–4 until the selected white setting is calibrated as desired.

Color Mode

To set the color calibration mode:

1. Go to the **SETTINGS** main level.
2. Select **COLOR**.
3. Select the color mode, from **OFF** (unbalanced maximum output), **RGBTOW** (limits the output of selected colors to balance full output), or **UC** (calibrates to match legacy Illuminarc products).

RGB to W Color Calibration

To configure the color calibration in RGB to W color mode:

1. Go to the **CALIB** main level.
2. Select **RGBTOW**.
3. Select the maximum color value to edit, from **RED**, **GREEN**, **BLUE**, or **COOL** (lime).
4. Set the maximum level for the selected color, from **000–255**.
5. Repeat steps 3–4 until the colors are calibrated as desired.

Universal Color Calibration

Universal Color mode matches the color calibration of legacy Illuminarc products. To configure the color calibration in Universal Color mode:

1. Go to the **UC-CALIB** main level.
2. Select the maximum color value to edit, from **RED**, **GREEN**, or **BLUE**.
3. Set the maximum level for the selected color, from **000–255**.
4. Repeat steps 2–3 until the colors are calibrated as desired.

Factory Reset

To reset the product to factory default settings:

1. Go to the **SETTINGS** main level.
2. Select **RESET**.
3. Select **NO** (do not reset) or **YES** (reset).

5. Maintenance

Product Maintenance

Dust build-up reduces light output performance and can cause overheating. This can lead to reduction of the light source's life and/or mechanical wear. To maintain optimum performance and minimize wear, clean each lighting product at least twice a month. However, be aware that usage and environmental conditions could be contributing factors to increase the cleaning frequency.

To clean the product, follow the instructions below:

1. Unplug the product from power.
2. Wait until the product is at room temperature.
3. Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external surface/vents.
4. Clean all transparent surfaces with a mild soap solution, ammonia-free glass cleaner, or isopropyl alcohol.
5. Apply the solution directly to a soft, lint free cotton cloth or a lens cleaning tissue.
6. Softly drag any dirt or grime to the outside of the transparent surface.
7. Gently polish the transparent surfaces until they are free of haze and lint.



Always dry the transparent surfaces carefully after cleaning them.

Torque Measurements

To maintain the IP rating when reassembling the product, use the given torque measurements for each of the following screws and bolts:

Fixture Parts	Torque Rating (Kgf.cm)	Torque Rating (lgb.in)
PCB Phillips screws (except PSU and LED PCB)	3.0–4.0	2.60388–3.47185
Lens plate Phillips screws	6.0–7.0	5.20777–6.07573
PSU Phillips screws LED PCB standoffs Top frame hex screws Bottom housing Phillips screws Back of panel yoke attachment hex screws	9.0–10.0	7.81165–8.67962
Yoke adjustment knob hex screws	12.0–13.0	10.41554–11.28350

Vacuum Test Measurements

Use the IP Tester from Chauvet Professional to ensure the product has been reassembled correctly by following the information below:

Parameters	Values
Method	Positive
Test pressure	8–9 kPa
Test duration	15 seconds
PASS state leak pressure	<0.1 kPa

6. Technical Specifications

Dimensions and Weight

Length	Width	Height	Weight
20.51 in (521 mm)	7.32 in (186 mm)	9.12 in (232 mm)	25.4 lb (11.5 kg)

Note: Dimensions in inches are rounded.

Power

Power Supply Type	Range	Voltage Selection
Switching (internal)	100 to 277 VAC, 50/60 Hz	Auto-ranging

Parameter	100 V, 60 Hz	120 V, 60 Hz	208 V, 60 Hz	230 V, 50 Hz	240 V, 50 Hz	277 V, 60 Hz
Consumption	316 W	315 W	312 W	312 W	308 W	255 W
Operating Current	3.18 A	2.65 A	1.60 A	1.47 A	1.40 A	1.18 A

Power I/O	U.S./Worldwide	UK/Europe
Power Input Connector	Fixed	Fixed
Power Output Connector	Fixed	Fixed
Power Cable plug	Bare wire	Bare wire

Light Source

Type	Color	Quantity	Power	Current	Lifespan
LED	Quad-color RGBL	27	20 W	1.5 A	50,000 hours

Photometrics

Installed Optics	Efficacy at Full	Color Temperature Presets
6°	38 lumens/Watt	1800K – 10000K

Filter	Beam Angle	Field Angle	Cutoff Angle	Lumens	Illuminance @ 5 m
Installed optics	8°	14.6°	20.8°	11,884	17,205 lux
Medium	20.8°	43.7°	64.7°	6,444	1,277 lux
Wide	34.4°	69.1°	126.2°	6,597	502 lux
Very wide	34°	70.3°	151.1°	6,090	438 lux
Asymmetrical	40° x 13.9°	79.8° x 30.9°	165.3° x 58.9°	7,122	884 lux

Thermal

Maximum External Temperature	Cooling System
113 °F (45 °C)	Convection

Control

DMX I/O Connector	Channel Range
USITT DMX-512a bare wired to hard wired	1, 3, 4, 4, 5, 8, 15, or 9 channels

Ordering

Product Name	Item Name	Item Code	UPC Number
Illumipanel ML2	ILUMIPANELML2	01622365	781462227135



UL 1598
CSA-C22.2 No. 250
E115166



Contact Us

General Information	Technical Support
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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.

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