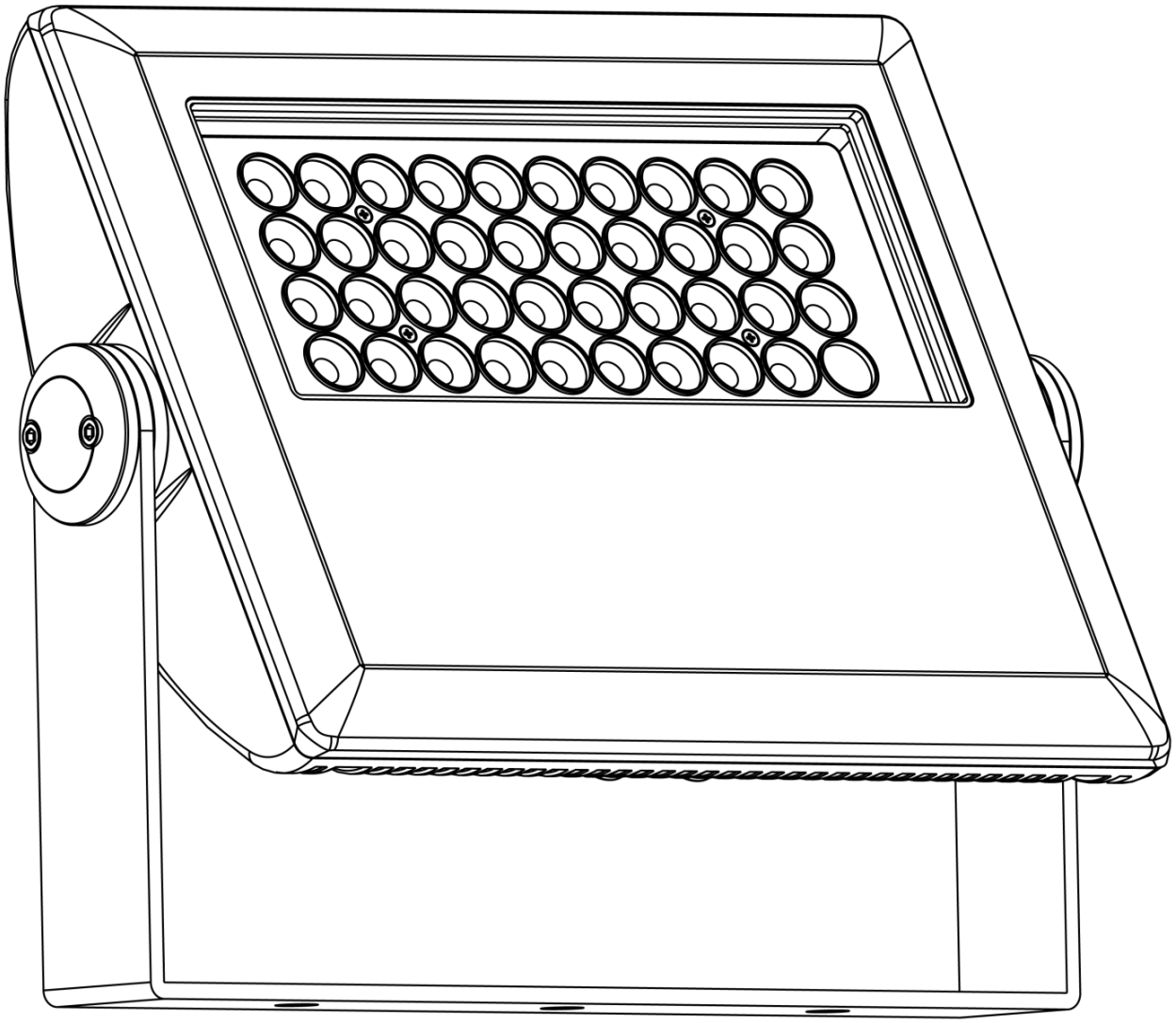
Ilumipanel 40 IP Optic WW

User Manual



ILUMINARC®

Edition Notes

The Ilumipanel 40 IP Optic WW User Manual Rev. 3 covers the description, safety precautions, installation, programming, operation, and maintenance of the Ilumipanel 40 IP Optic WW. ILUMINARC® released this edition of the Ilumipanel 40 IP Optic WW User Manual Rev. 3 in May 2015.

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Document Printing

For better 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 your printer to scale the content of this document to A4 paper.

Intended Audience

Any person in charge of installing, operating, and/or maintaining the Ilumipanel 40 IP Optic WW should read all of both the guide that shipped with it and this User Manual before installing, operating, or maintaining this product.

Disclaimer

ILUMINARC® believes that the information contained in this manual is accurate in all respects. However, ILUMINARC® assumes no responsibility for any error or omissions in this document. ILUMINARC® reserves the right to revise this document and to make changes from time to time in the content hereof without obligation of ILUMINARC® to notify any person or company of such revision or changes. This does not constitute in any way a commitment by ILUMINARC® to make such changes. ILUMINARC® may issue a revision of this manual or a new edition of it to incorporate such changes.

Document Revision

The Ilumipanel 40 IP Optic WW User Manual Rev. 3 supersedes all previous versions of this manual. Please discard any older versions of this manual you may have, whether in printed or electronic format, and replace them with this version.

Author	Date	Editor	Date
D. Couppe	5/4/15		

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1. Introduction

Critical installation, configuration, or operation information. Failure to comply with this information may render the product partially or completely inoperative, damage third-party equipment, or cause harm to the user.

Important installation or configuration information. Failure to comply with this information may prevent the product from functioning correctly.

Useful information.

The term "DMX" used throughout this document refers to the USITT DMX512-A transmission protocol.

What Is In The Box

- Ilumipanel 40 IP Optic WW
- Power Input Cable (bare-ended)
- Data Input/Output Cable (bare-ended)
- Warranty Card
- Quick Reference Guide

Unpacking Instructions

Immediately upon receiving a product from ILUMINARC®, carefully unpack the carton. Check the contents of the box to ensure that all parts are present and that they are in good condition.

Claims

The carrier is responsible for any damage incurred during shipping. Therefore, if the received merchandise appears to have been damaged during shipping, the customer must submit the damage report and any related claims to the carrier, not ILUMINARC®. The customer must submit the report upon receipt of the damaged merchandise. Failure to do so in a timely manner may invalidate the customer's claim with the carrier.
For other issues such as missing components or parts, damage not related to shipping, or concealed damage, the customer must make claims to ILUMINARC® within 7 days of receiving the merchandise.

Text Conventions

Convention	Meaning
1~512	A range of values in the text
50/60	A set of mutually exclusive values in the text
"ILUMICON UM"	The name of another publication or manual
<SET>	A button on the product's control panel
Settings	A product function or a menu option
MENU > Settings	A sequence of menu options
1~10	A range of menu values from which to choose in a menu
Yes/No	A set of two mutually exclusive menu options in a menu
ON	A unique value to enter or select in a menu

Safety Notes

Please read all the following Safety Notes carefully because they include important information on how to install, use, and maintain this product safely.

Personal Safety

- Avoid direct eye exposure to the light source while the product is on.
- Always disconnect this product from its power source before servicing.
- Always connect this product to a grounded circuit to avoid the risk of electrocution.
- Do not touch this product's housing when operating because it may be very hot.

Mounting and Installation

- This product is for outdoor use and can be submerged (IP67). However, do not submerge deeper than 1 m for more than 30 minutes.
- CAUTION: When transferring 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 product to fully acclimate to the surrounding environment before connecting it to power.
- Make sure there are no flammable materials close to this product while it is operating.
- When hanging this product, always secure it to a fastening device using a safety cable.

Power and Wiring

- Always make sure that you are connecting this product to the proper voltage per the specifications in this manual or on the product's sticker.
- Never connect this product to a dimmer pack.
- Make sure that the power input cable is not cracked, crimped, or damaged.
- Never disconnect this product by pulling on the power cable.

Operation

- The maximum ambient temperature is 113° F (45° C). Do not operate this product at a higher temperature.
- In case of a serious operating problem, stop using this product immediately!

There are no user-serviceable parts inside this product. Any reference to servicing you may find in this User Manual will only apply to properly certified ILUMINARC® technicians. Do not open the housing or attempt any repairs unless you are certified to do so.

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

Keep this manual for future consultation. If you sell this product to another user, make sure that they also receive this manual.

In the unlikely event that your Ilumipanel 40 IP Optic WW may require service, please contact ILUMINARC® Technical Support.

2. Product Description

The Ilumipanel 40 IP Optic WW is a flat-panel wash product that may be used to light a variety of both indoor and outdoor applications.
The Ilumipanel 40 IP Optic WW consists of the main housing and a steel yoke. The DMX input and output is located on rear of the product near the bottom.

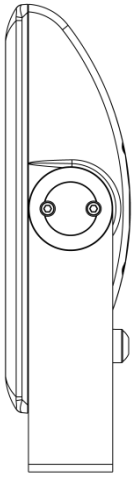
Features

- Operating modes:
  1-channel: Dimmer
- 5 distinct dimming curves
- High-power, 3-W warm white LEDs
- Cast aluminum, IP67 housing
- Impact-resistant glass lens cover
- IP67 stainless steel gland nuts for cable entry
- Adjustable bracket
- Humidity-controlling GORE® valve

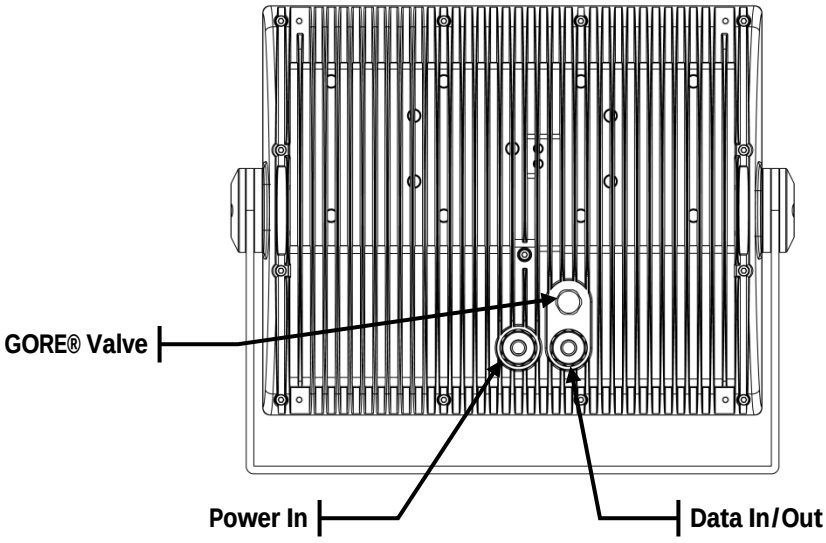
Options

- Ilumicode Addresser (for product configuration)

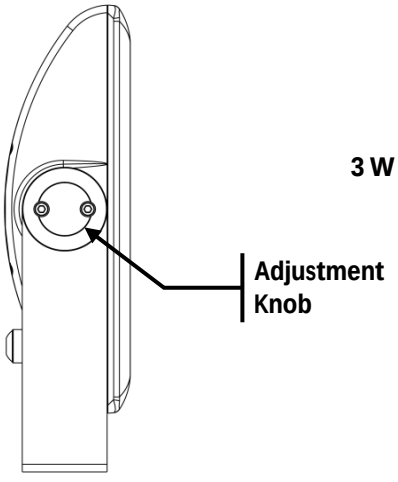
Overview



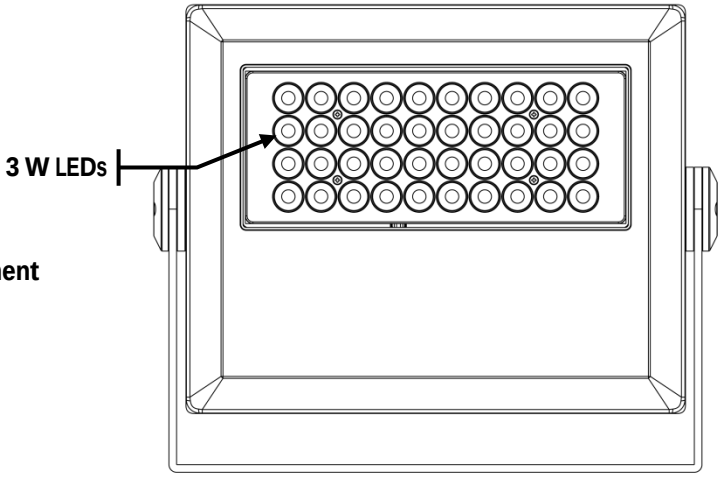
L. Side View



Rear View

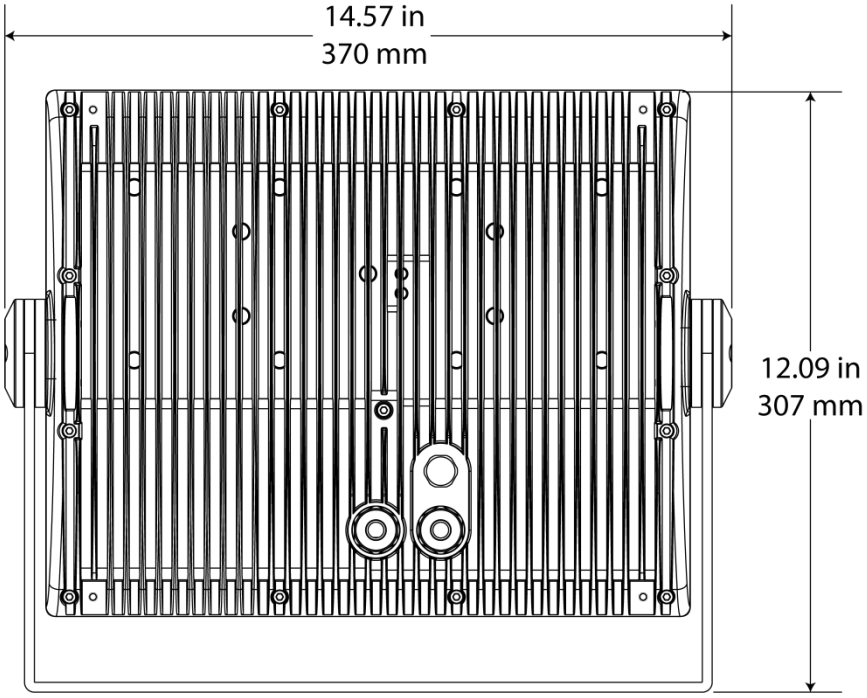


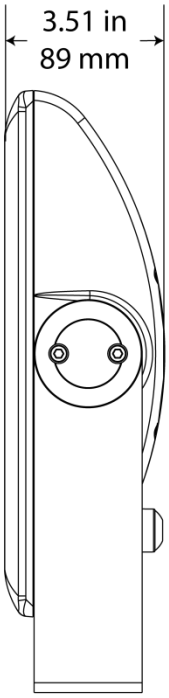
R. Side View



Front View

Dimensions





3. Installation

Mounting

Before mounting this product, read and follow the safety recommendations indicated in the Safety Notes.

Orientation

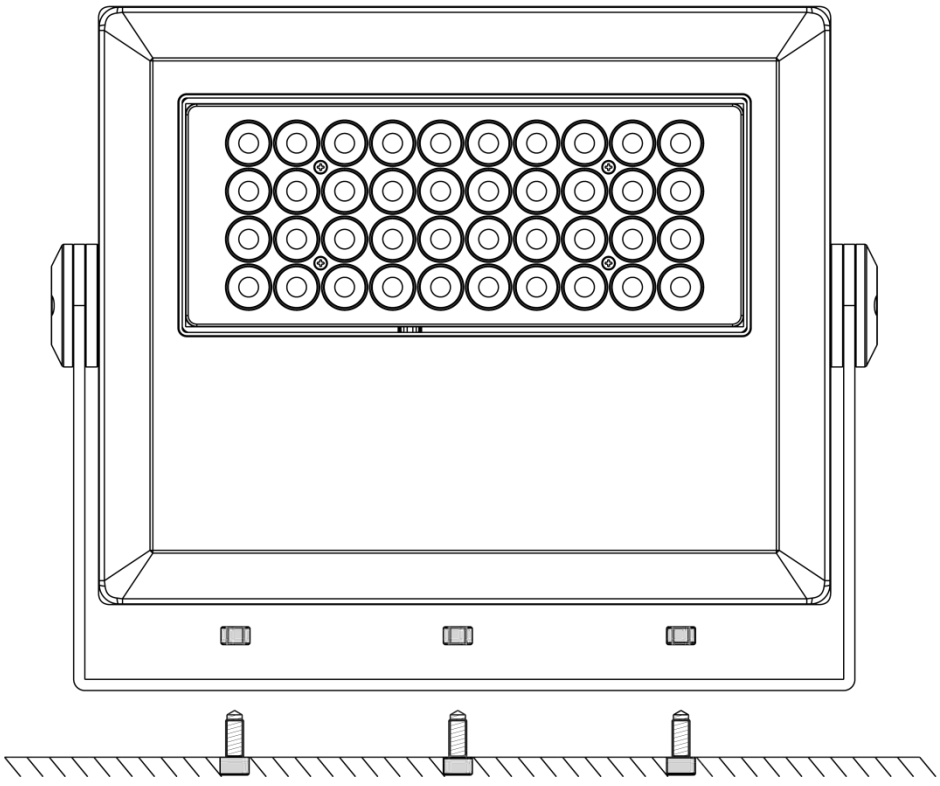
Always mount this product in a safe position, making sure there is adequate room for ventilation, configuration, and maintenance.

Installation

⚠ Make sure to mount this product away from any flammable material as indicated in the Safety Notes.

The Ilumipanel 40 IP Optic WW has 3 mounting points on the mounting bracket to secure it to almost any surface provided that it can support the product's weight. ILUMINARC® recommends following the general guidelines below when mounting the Ilumipanel 40 IP Optic WW.

- When selecting an installation location, consider ease of access to the product for operation, programming adjustments, and routine maintenance.
- Make sure the product's mounting location can support its weight. See the Technical Specifications section of this manual for the weight requirement of this product.



Always connect the Ilumipanel 40 IP Optic WW to a protected circuit with an appropriate electrical ground to avoid the risk of electrocution or fire.

Never connect the Ilumipanel 40 IP Optic WW to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.

Make sure to connect the Ilumipanel 40 IP Optic WW to a power line with the proper voltage and frequency, as per the specifications in this manual or on the product's sticker.

The listed current rating indicates the maximum current draw during normal operation.

If you choose to bury the power or signal distribution boxes, make sure that they are IP67-rated or greater.

AC Power

The Ilumipanel 40 IP Optic WW has an auto-ranging power supply that works with an input voltage range of 100~240 VAC, 50/60 Hz.
Make sure that you are connecting this product to the proper voltage, as per the specifications in this User Manual or on the product's sticker.

Power Consumption

To determine the power requirements for the Ilumipanel 40 IP Optic WW, refer to the label affixed to the side of the product. Alternatively, you may refer to the Technical Specifications.
The listed current rating indicates the maximum current draw during normal operation.

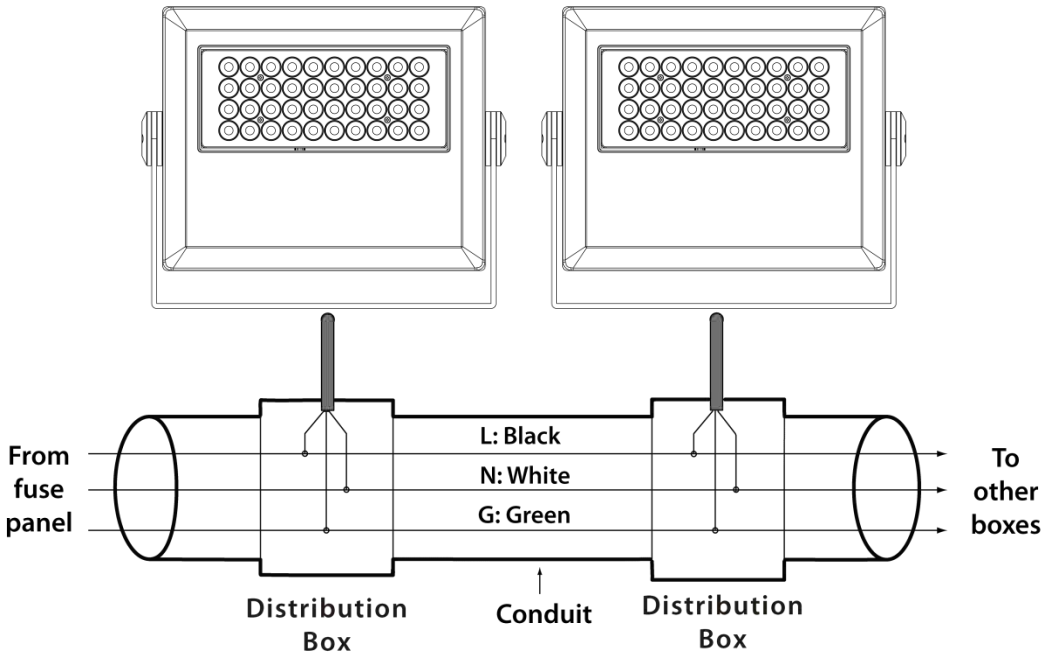
AC Plug

The Ilumipanel 40 IP Optic WW comes with a bare-ended power input cord for hardwire installation. Use the table and the illustration below to wire a plug.

Connection	Wire (U.S.)	Screw Color (U.S.)	Wire (Europe)	IP67 Pin
AC Live	Black	Yellow or Brass	Brown	1
AC Neutral	White	Silver or Gray	Blue	2
AC Ground	Green/Yellow	Green	Green/Yellow	3

Power Wiring

You can connect the bare-ended, IP67-rated AC power cable from the product to an IP67-rated power connector or IP67-rated junction box.
If using junction boxes, make sure to use IP67-rated conduit for surface installations.



The Ilumipanel 40 IP Optic WW must be linked using DMX cable in a daisy chain (serial) fashion. To comply with the EIA-485 standard, no more than 32 products should be connected on one daisy chain without using a DMX optically isolated splitter. Doing otherwise may result in deterioration of the digital DMX signal.

USITT recommends limiting the total length of the DMX cable (from the first product/controller to the last product) to 300~455 m (985~1,500 ft).

Disconnect the product from the AC power before opening it.

The signal cable must match or exceed the electrical characteristics of the Belden® 9841 cable for EIA RS-485 applications. You may also use CAT5, 5e, or CAT6 LAN cable.

DMX Linking

You may link the Ilumipanel 40 IP Optic WW to a DMX controller using a standard DMX serial connection. If using other DMX products compatible with the Ilumipanel 40 IP Optic WW, you can control each individually with a single DMX controller.
If you are not familiar with the DMX standard, or if you need information about the DMX cables needed to link the Ilumipanel 40 IP Optic WW to a DMX controller, you may download the "DMX Primer" from the ILUMINARC® website at http://www.iluminarc.com/reports/dmx-primer.

DMX Modes

The Ilumipanel 40 IP Optic WW uses the standard DMX data connection for its **SOLID** mode. Refer to the Introduction chapter for a brief description of this mode. Refer to the Operation chapter to learn how to configure the Ilumipanel 40 IP Optic WW to work in these modes. The DMX Values section provides detailed information regarding the DMX mode.

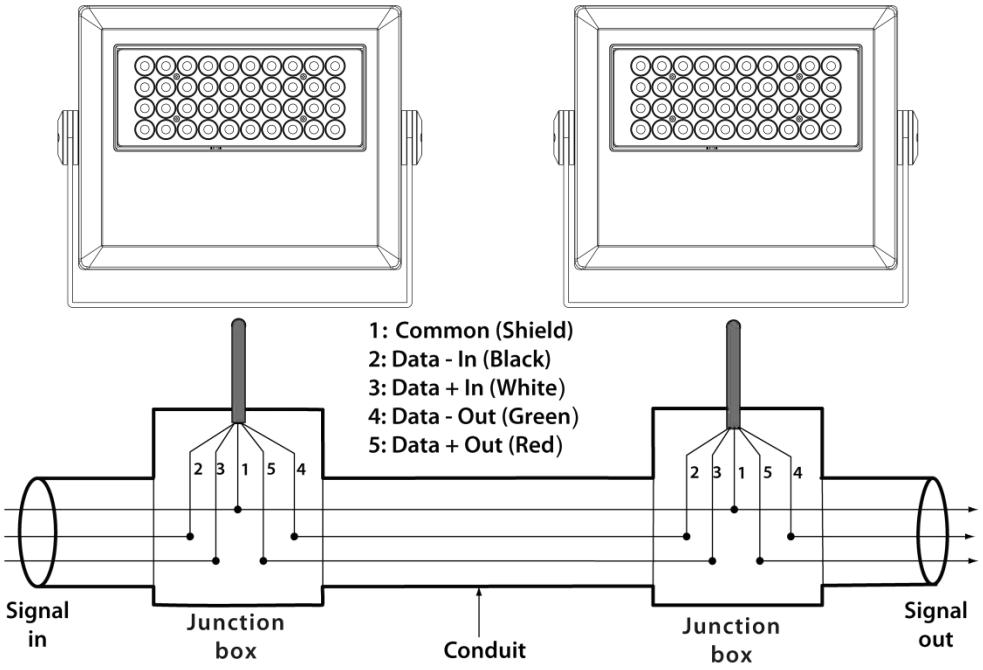
DMX Mode	DMX Address
SOLID	512

Signal Wiring

To provide signal for the Ilumipanel 40 IP Optic WW, you can connect the bare-ended, IP67-rated signal cable from the product to two IP67-rated signal connectors (DMX In/DMX Out) or use an IP67-rated junction box. In this case, make sure to use IP67-rated conduit.

Protocol Connectivity

The Ilumipanel 40 IP Optic WW uses the uses the USITT DMX 512 Protocol. The procedure below illustrates the recommended connection method.



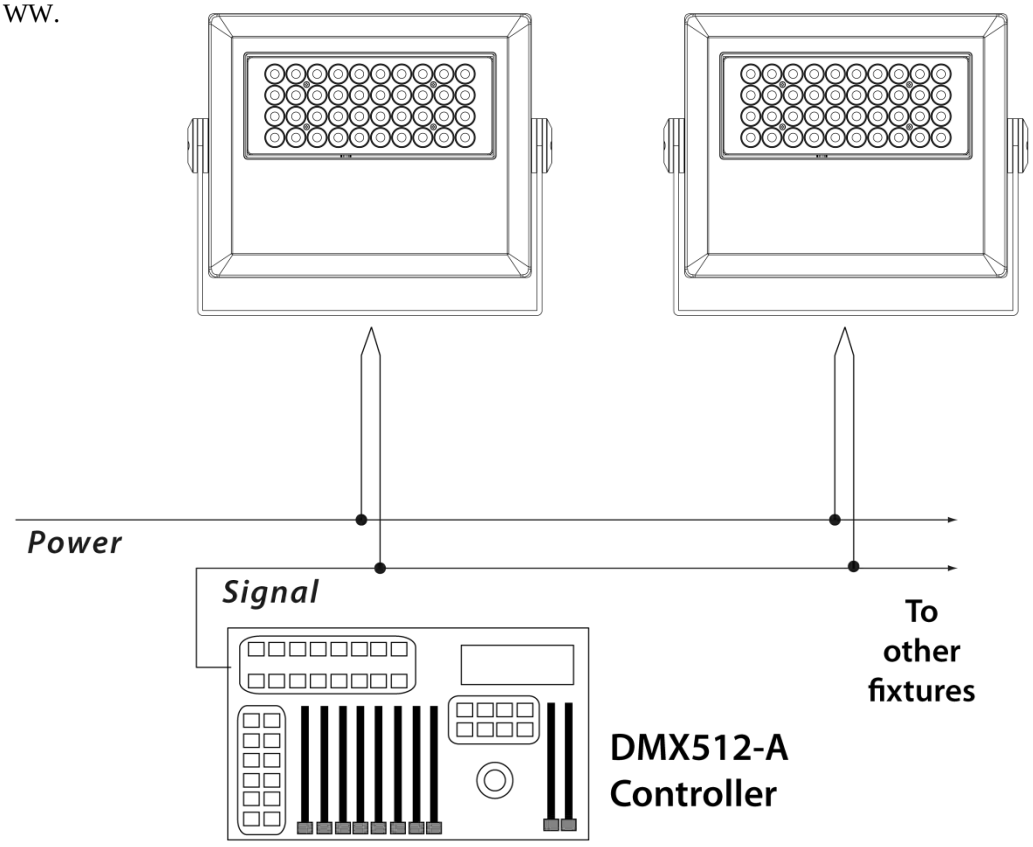
Controllers

If you have not configured the DMX starting address and DMX mode for each product, they will all use their default values. This means that all products will operate in unison.

The Ilumipanel 40 IP Optic WW can operate with a standard DMX controller or the ILUMICODE addresser. The sections below provide information on how to connect these products to the corresponding controllers. The instructions to operate these products with each of the above controllers are in the Operation chapter of this manual.

DMX Controller

The Ilumipanel 40 IP Optic WW can work with a standard DMX controller. The channel assignments will depend on the chosen personality (see the corresponding Menu Map section) and the DMX address assigned to each product (see the Programming section).
The figure below illustrates how to connect the DMX controller to the Ilumipanel 40 IP Optic WW.



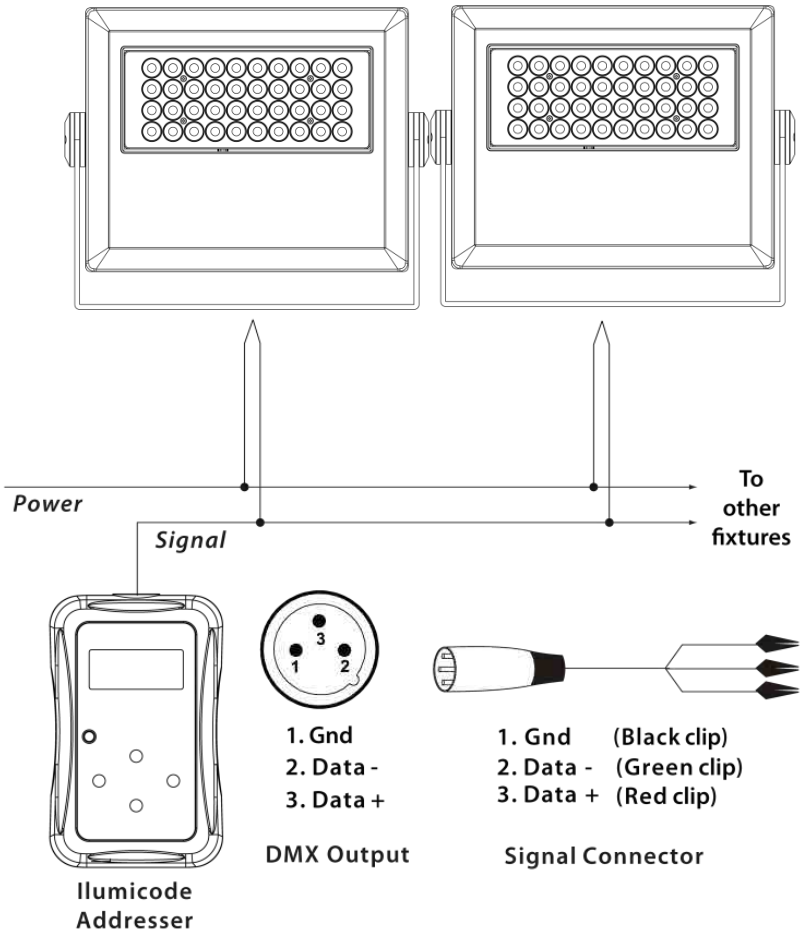
Ilumicode Addresser

To assign individual DMX addresses to each product, you must connect the Ilumicode addresser to each product, individually.

ILUMINARC® suggests that you connect no more than 20 products in this mode and keep the total distance to less than 60 m (197 ft). Otherwise, you might need to use an optically isolated signal amplifier.

The Ilumipanel 40 IP Optic WW uses the Ilumicode addresser ("Ilumicode") for configuration purposes. The diagram below shows how to connect the Ilumicode to this product. This connection will control multiple products at the same time, all having the same DMX address.

Important: The Ilumicode must be used to configure this product. The Ilumicode can be purchased separately through your Iluminarc® sales representative.



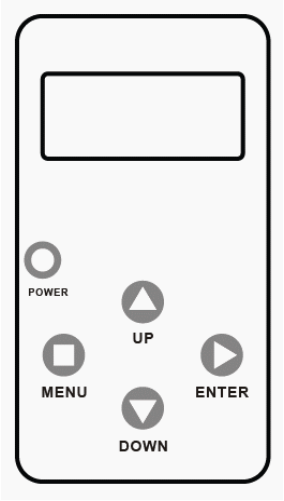
4. Operation

ILUMICODE ADDRESSER

The Ilumipanel 40 IP Optic WW needs the Ilumicode to change its configuration.

Ilumicode Panel Description

Button	Function
<MENU>	Exits from the current menu or function.
<ENTER>	Enables the currently displayed menu or sets the currently selected value into the selected function.
<UP>	Navigates upwards through the menu list and increases the numeric value when in a function.
<DOWN>	Navigates downwards through the menu list and decreases the numeric value when in a function.
<POWER>	Turns the unit on. The unit will turn off automatically after 30 seconds of inactivity.



Control Options

You can set the Ilumipanel 40 IP Optic WW start address in the **001~512** DMX range. This allows for the control of up to 512 products in the 1-channel **SOLID** personality.

Programming

Carry out all the programming procedures indicated below from the control panel. Refer to the Menu Map section to learn how the menu options relate to each other.
Use **<ENTER>** and **<MENU>** to change levels in the Menu Map, moving right and left respectively. Use **<UP>** and **<DOWN>** to move vertically within the Menu Map.

DMX Personality

1. Go to **PERS** and select **SOLID** personality.
2. Make sure to rearrange the DMX addresses of all products in the current DMX universe to avoid address overlapping.

DMX Starting Address

1. Go to **DMX**.
2. Select a starting DMX address (**001~512**).

When you scroll through the menu options, you will see many of them that do not correspond with the menu map. Skip them, as they do not work with the **WW**-only output products.

Static Colors

1. Go to **STATIC**.
2. Select a color (**SOLD**).
3. Select a color value (**000~255**).

Dimmer

This setting gives the user four different options to simulate the dimming curve of an incandescent lighting product.



DIM1 is the fastest dimming curve and **DIM4** is the slowest.

1. Go to **DIMMER**.
2. Select a dimming curve (**OFF** or **DIM1~4**).

Procedure:

DIMMER	Description
OFF	Dimmer curve is linear with fader
DIM1	Non-linear (fastest)
DIM2	Non-linear (fast)
DIM3	Non-linear (slow)
DIM4	Non-linear (slowest)

Reset to Factory Settings

1. Go to **SETTINGS** > **RESET**.
2. Select an option (**YES/NO**).

Menu Map

Main Level	Programming Levels		Description
DMX	**001~512**		Sets the DMX starting address
PERSON	**SOLID**		1-channel: Dimmer
DIMMER	**OFF**		Dimmer works in linear mode
	DIM 1		Dimmer works in non-linear mode, from fast to slow
	DIM 2		
	DIM 3		
	DIM 4		
STATIC	**SOLD**	**000~255**	Configures the static color
SETTINGS	**RESET**	**NO/YES**	Resets unit to factory default settings

DMX Values

SOLID

Channel	Function	Value	Percent/Setting
1	**Dimmer**	000 ó 255	0~100%

5. Technical Information

Product Maintenance

To maintain optimum performance and minimize wear, clean the products frequently. Usage and environment are contributing factors in determining the cleaning frequency. As a general guideline, products should be cleaned at least twice a month. Dust build-up reduces light output, performance, and can cause overheating. This can lead to reduced light source life.
For products containing external optical lenses, clean them periodically to optimize light output. The cleaning frequency depends on the environment in which the product operates. Damp, smoky, or particularly dirty surrounding can cause greater accumulation of dirt on the product's optics, requiring more frequent cleaning.
To clean a product:

- Unplug the product from power.
- Wait until the product has cooled.
- Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external vents and reachable internal components.
- Clean all external glass optics and glass surfaces with a mild solution of glass cleaner or isopropyl alcohol, and a soft, lint-free cotton cloth or lens-cleaning tissue.
- Apply the solution directly to the cloth or tissue and wipe any dirt and grime to the outside edge of the lens.
- Gently polish the external glass surfaces until they are free of haze and lint.

Always dry the external optics and glass surfaces carefully after cleaning them.

If you still experience technical problems after trying the solutions in the Troubleshooting Table, contact ILUMINARC® Technical Support.

Product Repairs

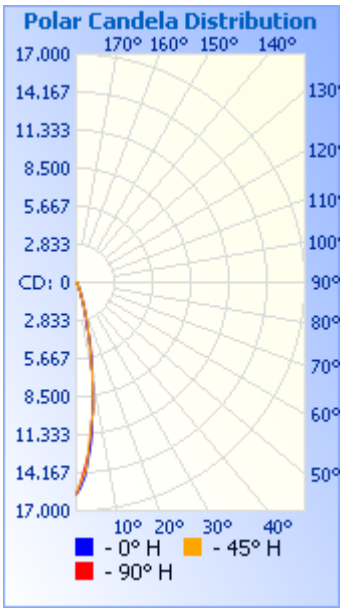
ILUMINARC® strongly advises you against attempting any repairs to this product unless you are an authorized ILUMINARC® technician.
ILUMINARC® presents the information contained in the Troubleshooting Guide as potential solutions only. In most cases, opening the product's housing will invalidate its warranty.

Troubleshooting Guide

Symptom	Cause(s)	Action(s)
Circuit breaker/fuse keeps tripping/blowing	Excessive circuit load	Check total load placed on the electrical circuit
	Short circuit along the power wires	Check for a short in the electrical wiring
Product does not power up	No power	Check for power on power outlet
	Loose or damaged power cord	Check power cord
	Faulty internal power supply	Return for service to Iluminarc®
Product does not respond to DMX	Wrong DMX addressing	Check Control Panel and product addressing
	Damaged DMX cables	Check DMX cables
	Wrong polarity on the controller	Check polarity switch settings on the controller
	Loose DMX cables	Check cable connections
	Faulty DMX interface	Return for service to Iluminarc®
	Faulty Display/Main board	Return for service to Iluminarc®
DMX signal problems	Non-DMX cables	Use only DMX-compatible cables
	Bouncing signals	Install terminator as suggested in the “DMX Primer” from the Iluminarc® website at http://www.iluminarc.com/reports/dmx-primer
	Long cable/low level signal	Install an optically coupled DMX splitter right after the product with the strong signal
	Too many products	Install an optically coupled DMX splitter after product #32 or before
	Interference from AC wires	Keep DMX cables separated from power cables or fluorescent/black lights

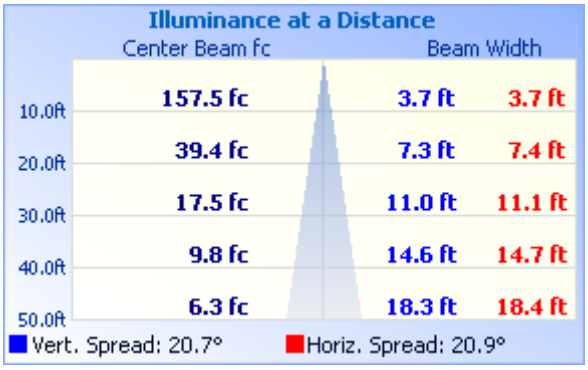
Photometrics

Filename: **ILUMIPANEL 40 IP OPTIC 30 WW**
Manufacturer: ILUMINARC
Luminaire: ILUMIPANEL 40 IP OPTIC 30 WW
Lamp Output: 1 lamp, rated Lumens/lamp: 5000
Max Candela: 16,085.9 at Horizontal: 180°, Vertical: 2.5°
Input Wattage: 101.9
Luminous Opening: Point
Test: 20120820
Test Date: 2012-08-20
Test Lab: ILUMINARC R&D
Photometry : Type B
CIE Class: Direct



Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	44.7%	2,235.3	39.2	39.2
Beam (50%):	22.9%	1,144.8	20.9	20.7
Total:	56.7%	2,836.2		



LED Disclaimer

LED Life

ILUMINARC® rates LED lifetime based on lumen depreciation of 70% of the original output, with data provided by the manufacturer of the LED. Data from the manufacturer of the LED are not independently verified or measured by ILUMINARC®. When the product is operating in optimal environmental conditions, the LED lifetime is rated to be 50,000 to 70,000 hours by the LED manufacturer.

LED Binning

LED manufacturers sort LEDs into "bins," based on variances in color, output intensity, and the frequency at which the semiconductor operates. ILUMINARC® strives to hold its LED manufacturers to the highest standards of binning to optimize consistency in output from product to product. However, the availability of a single bin cannot be guaranteed. With that in mind, ILUMINARC® has developed a rigorous control system to seek the best-achievable consistency in color and output.

Color Rendering Index (CRI)

CRI is an industry standard method to compare properties of different types of light sources. There are known limitations and inconsistencies related to CRI. Results may vary depending on the environmental factors involved. For this reason, the U.S. Department of Energy (DOE) states that CRI should be considered as one point of reference among others in evaluating white LED products and systems.
The following is an excerpt of recommendations from the DOE:

1. Identify the visual tasks to be performed under the light source. If color fidelity under different light sources is critically important (for example, in a space where color or fabric comparisons are made under both daylight and electric lighting), CRI values may be a useful metric for rating LED products.
2. CRI may be compared only for light sources of equal correlated color temperature. This applies to all light sources, not only to LEDs. Also, differences in CRI values of less than five points are not significant, e.g., light sources with 80 and 84 CRI are essentially the same.
3. If color appearance is more important than color fidelity, do not exclude white light LEDs solely on the basis of relatively low CRI values. Some LED products with CRIs as low as 25 still produce visually pleasing white light.
4. Evaluate LED systems in person and, if possible, on-site when color fidelity or color appearance are important issues.

Source: DOE publication: PNNL-SA-56891, January 2008

Returns Procedure

ILUMINARC® reserves the right to use its own discretion to repair or replace returned product(s).

You must send the merchandise prepaid, in the original box, and with its original packing and accessories. ILUMINARC® will not issue call tags.
Call ILUMINARC® and request a Return Merchandise Authorization Number (RMA #) before shipping the product. Be prepared to provide the model number, serial number, and a brief description of the cause for the return.
The user must clearly label the package with an RMA #. ILUMINARC® will refuse any product returned without an RMA #. **DO NOT write the RMA # directly on the box. Instead, write it on a properly affixed label.**
Once you receive the RMA #, please include the following information on a piece of paper inside the box:

- Your name
- Your address
- Your phone number
- The RMA #
- A brief description of the problem

Always keep the original box and all packaging material as you will need those to ship the product back to ILUMINARC®.

Be sure to pack the product properly. Any shipping damage resulting from inadequate packaging will be the customer's responsibility. FedEx packing or double-boxing are recommended.

Contact Us

WORLD HEADQUARTERS - ILUMINARC®

General Information
Address: 5200 NW 108th Avenue
Sunrise, FL 33351
Voice: (954) 923-3680
Fax: (800) 544-4898

Technical Support
Voice: (800) 762-1074
Email: support@iluminarc.com

World Wide Web www.iluminarc.com

UNITED KINGDOM AND IRELAND - Chauvet Europe Ltd.

General Information
Address: Unit 1C
Brookhill Road Industrial Estate
Pinxton, Nottingham, UK
NG16 6NT
Voice: +44 (0)1773 511115
Fax: +44 (0)1773 511110

Technical Support
Email: uktech@iluminarc.com

World Wide Web www.chauvetlighting.co.uk

MEXICO - Chauvet Mexico

General Information
Address: Av. Santa Ana 30
Parque Industrial Lerma
Lerma, Mexico C.P. 52000
Voice: +52 (728) 285-5000

Technical Support
Email: servicio@iluminarc.com.mx

World Wide Web www.chauvet.com.mx

CHAUVET EUROPE - Chauvet Europe BVBA

General Information
Address: Stokstraat 18
9770 Kruishoutem
Belgium
Voice: +32 9 388 93 97

Technical Support
Email: Eutech@chauvetlighting.eu

World Wide Web www.chauvetlighting.eu

Outside the U.S., United Kingdom, Ireland, Mexico, or Benelux, contact the dealer of record. Follow their instructions to request support or to return a product. Visit our website for contact details.

Technical Specifications

Dimensions and Weight	**Length**	**Width**	**Height**	**Weight**
	3.5 in (89 mm)	14.6 in (370 mm)	12.1 in (307 mm)	18.25 lbs (8.28 kg)

Note: Dimensions in inches rounded to the nearest decimal digit.

Electrical	**Power Supply Type**		**Range**	**Voltage Selection**
	Switching (internal)		100~240 V, 50/60 Hz	Auto-ranging
	Parameter		**120 V, 60 Hz**	**230 V, 50 Hz**
	Consumption		106 W (0.89 A)	101 W (0.47 A)
	Power I/O		**Input**	**Output**
	Connectors		Hard Wired	N/A
	Cord plug		Open Wire	N/A
Light Source	**Type**		**Power**	**Lifespan**
	LED		1 W	50,000 hours
	Color	**Color Temperature**	**Quantity**	**Current**
	Warm White	3100° K	40	400 mA
Photometric	**Parameter**		**Standard 30º Optics**	
	Illuminance @ 5 m		630 lx	
	Beam angle		20.8º	
	Field angle		39.2º	
Thermal	**Max. External Temperature**		**Cooling System**	
	113° F (45° C)		Integrated Cooling Enhancment™	
DMX	**I/O Connectors**			**Channel Range**
	Open Wire			1
Ordering	**Product Name**		**Item Code**	**Item UPC**
	Ilumipanel 40 IP Optic WW		01620629	781462209773

UL 1573
CSA C22.2 No. 166
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