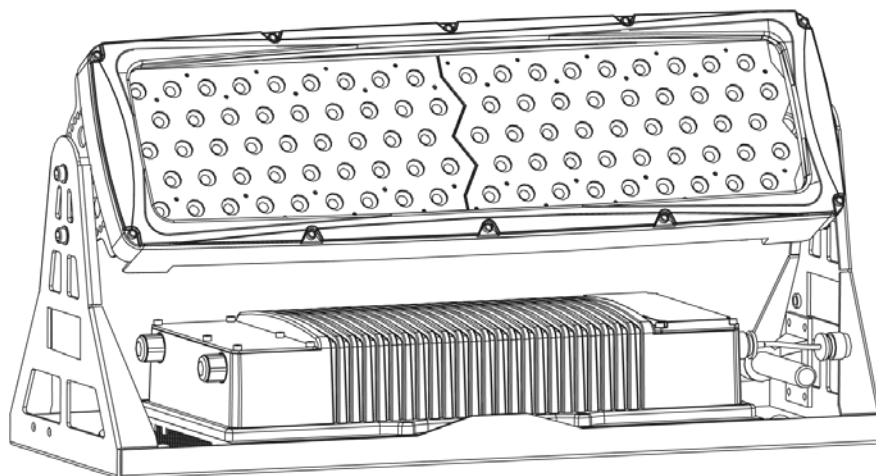


# Ilumipanel 90 IP Optic RGBWA

## Quick Reference Guide



**About This Guide**

The Ilumipanel 90 IP Optic 30 RGBWA Quick Reference Guide (QRG) only contains the product's connection and mounting information, as well as the menu options and DMX values.

**Disclaimer**

Refer to this product's User Manual for detailed information and instructions. You can download the User Manual from the ILUMINARC® website: [www.iluminarc.com](http://www.iluminarc.com).

Read ALL the disclaimers and Safety Notes in this document, as well as those in the product's User Manual before installing, operating, and maintaining this product.

**Safety Notes**

- DO NOT open the product unless instructed. It contains no user serviceable parts.
- DO NOT look at the light source when the product is on.
- DO NOT touch the product when operating because it may be hot.
- DO NOT leave any flammable material within 50 cm from the product while operating or connected to the power outlet to minimize the risk of fire.
- DO NOT mount the product overhead without using a safety cable.
- DO NOT submerge the product below 1 m (IP67) for more than 30 minutes. Regular outdoor operation is fine.
- DO NOT operate the product if you see damage on the housing, lenses, or cables. Have an authorized technician replace the damaged parts.
- DO NOT connect the product to a dimmer or rheostat.
- ONLY connect the product to a grounded and protected circuit.

**What Is Included**

- One Ilumipanel 90 IP Optic 30 RGBWA
- One Power Input Cable (bare-ended)
- One Data Input/Output Cable (bare-ended)
- W-DMX Receiver
- One Warranty Card
- One Quick Reference Guide



- **The RDM2go, which includes a built in ilumicode addresser along with many other useful features is now available.**
- **The Ilumicode addresser is required for product configuration (sold separately).**

- Features**
- 1, 3, 4, 5, 6, 7, or 9 channel DMX-512 LED array light
  - Operating modes:
    - 1-channel: Dimmer
    - 3-channel: RGB control
    - 4-channel: Dimmer, RGB control
    - 4-channel: RGBW control
    - 5-channel: Dimmer, RGBW control
    - 5-channel: RGBWA control
    - 6-channel: Dimmer, RGBWA control
    - 7-channel: Dimmer, RGB, color macros, strobe, dimmer speed
    - 9-channel: Dimmer, RGBWA control, color macros, strobe, dimmer speed
  - Five distinct dimming curves
  - High power 5 W (700 ~ 1,000 mA) RGBWA LEDs
  - IP67 with 316 stainless steel hardware
  - Gore™ valve
  - Cast and extruded aluminum with Integrated Cooling Enhancement™
- Options**
- Ilumicode controller (for product configuration)

**AC Power** This product has an auto-ranging power supply that works with an input voltage range of 100~240 VAC, 50/60 Hz.

- Power Wiring** To provide power, you have two options:
- Connect the bare-ended IP67 rated power cable from the product to an IP67 rated power connector.
  - Use an IP67 rated junction box. If so, make sure to use IP67 rated conduit.

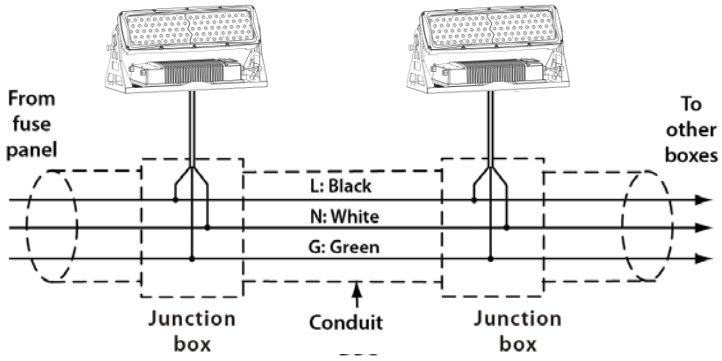


**Illuminarc recommends always using conduit for underground wiring of any kind.**

Power Cable Table

Connection	Wire (US)	Wire (Europe)	IP67 Pin
AC Live	Black	Brown	1
AC Neutral	White	Blue	2
AC Ground	Green/Yellow	Green/Yellow	3

AC Power Junction Box Wiring



## DMX Connection

This product provides a DMX 512 connection by using bare-ended IP67 rated signal cable. This cable comes connected to the product.

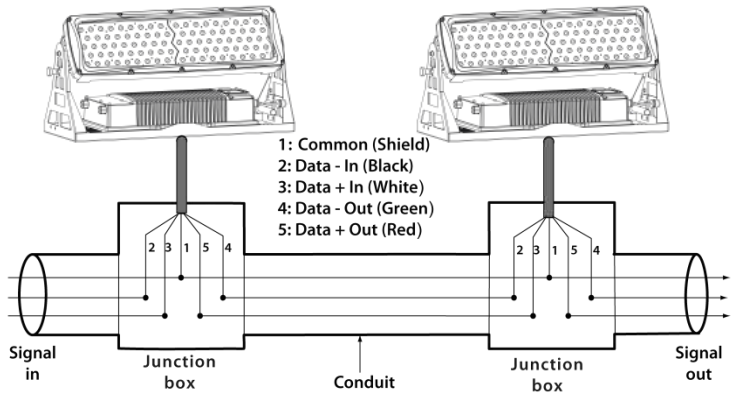
### Signal Wiring

To provide the signal, you have two options:

- Connect the bare-ended IP67 rated signal cable from the product to two IP67 rated signal connectors (DMX In and DMX Out).
- Use an IP67 rated junction box. If so, make sure to use IP67 rated conduit.

**The signal cable must match or exceed the electrical characteristics of the Belden® 9841 cable for EIA RS-485 applications. You can also use CAT 5, CAT 5e, or CAT 6.**

### DMX Junction Box Wiring



### DMX Cable Table

Connection	DMX In	DMX Out	IP67 Pin
Ground	Shield	Shield	1
Data -	Black	Green	2
Data +	White	Red	3

## Illumicon and DMX Controllers

To control/operate the Illumipanel 90 IP Optic 30 RGBWA, use either an Illumicon or a DMX controller. Use the standard DMX connection as shown in the section, *DMX Junction Box Wiring*, to connect this product to any standard DMX controller.

For more information, refer to the *Illumipanel 90 IP Optic 30 RGBWA User Manual*.

## Illumicode Configuration

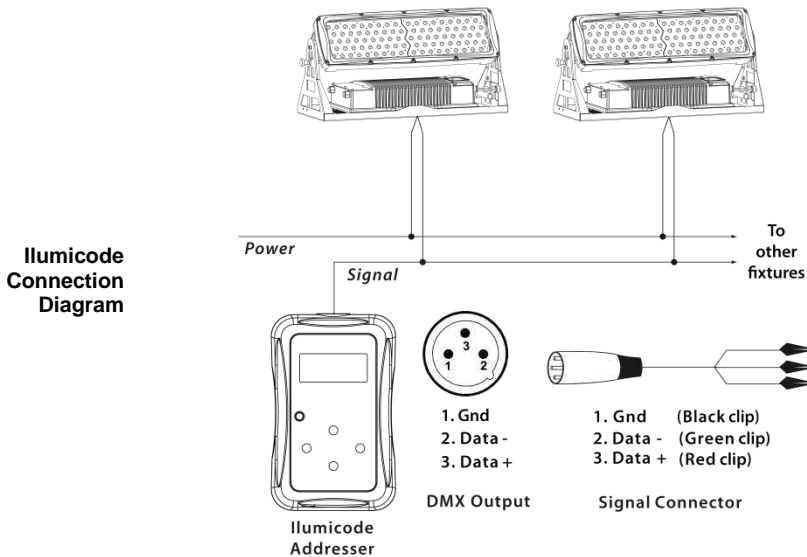
To configure the Illumipanel 90 IP Optic 30 RGBWA, you must use the Illumicode addresser.

### Illumicode Connections

The following diagram shows how to connect the Illumicode to the product. This connection will control multiple products at the same time. In addition, all connected products will be assigned to the same DMX address.

To assign individual DMX addresses to each product, connect the Illumicode unit to each product individually. In addition, disconnect the DMX output of the product being configured if other products are connected to it.

**The Illumicode will not work via wireless. You must hardwire the Illumicode directly to the Illumipanel 90 IP Optic 30 RGBWA when programming the product.**



ILUMINARC® suggests connecting no more than 20 products in this mode, keeping the total distance to less than 60 m (197 ft.). If not, you may need to use an optically isolated signal amplifier.

## Wireless Operation

You can run the Illumipanel 90 IP Optic 30 RGBWA without DMX cabling using the W-DMX™ option. This product can operate in W-DMX mode up to 300 m (900 feet) from the W-DMX transmitter. For wireless operation, the W-DMX receiver in the Illumipanel 90 IP Optic 30 RGBWA must be paired with the W-DMX transmitter. Use the following instructions to operate.

1. Using the Ilumicode, set the personality and the DMX address to the Illumipanel 90 IP Optic 30 RGBWA. (Refer to the programming section of the *Operation* chapter of the User Manual.)
2. Disconnect power and the Ilumicode from the product.
3. Open the cover next to the W-DMX™ Antenna by unscrewing the 6 Allen Screws using a 3 mm angled Allen Key.
4. Reconnect power to product.
5. Press and hold the W-DMX™ button until the green LED stops flashing.
6. Disconnect power to the product for approximately 10 seconds.
7. Reconnect power to product.
8. Locate the product by using the W-DMX™ transmitter. (Refer to the W-DMX™ transmitter instructions provided with your transmitter.)
9. Upon locating the product wirelessly, close the cover.
10. Tighten the Allen Screws uniformly by alternating between opposite screws to insure a tight seal.

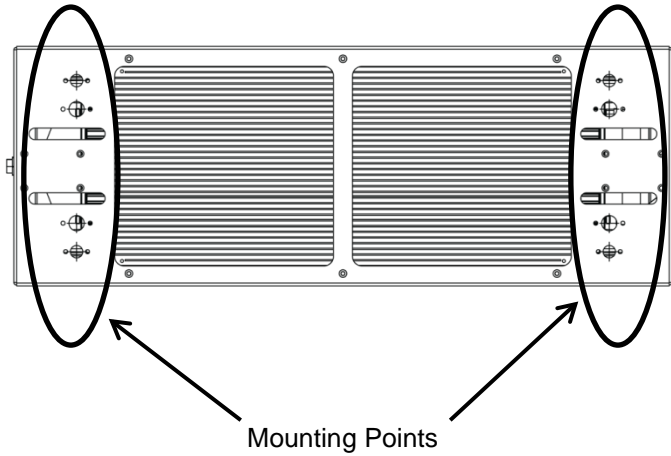
**IMPORTANT NOTE: Once W-DMX has been enabled, you cannot use the Ilumicode to make changes to the Illumipanel 90 IP Optic 30 RGBWA. Changes made via the Ilumicode should be done prior to enabling W-DMX. The W-DMX takes priority control over the wired DMX cables.**

Refer to the *Operation* chapter of the *User Manual* for detailed setup procedures.

**Mounting**

Before mounting this product, read the Safety Notes at the beginning of the *Illumipanel 90 IP Optic 30 RGBWA User Manual* and follow the mounting procedures.

Mounting Diagram





**Illumicode  
Control Panel  
Description**

Button	Function
<POWER>	Turns the Illumicode unit on.
<MENU>	Scrolls through the main level or exits from the current menu or function (NOTE: Press and hold it to turn the unit off).
<ENTER>	Enables the currently displayed menu or sets the currently selected value into the selected function.
<UP>	Navigates upwards through the menu options and increases the numeric value when in a function.
<DOWN>	Navigates downwards through the menu options and decreases the numeric value when in a function.

**Start Address**

To ensure full access to all channels in each DMX mode, the highest recommended DMX addresses are as follows:

Mode	Address	Mode	Address	Mode	Address
ARC FULL	506	AR1.D	509	ARC3	508
ARC1	510	SOLID	512	AR3.D	507
ARC2	509	AR2.D	508	SPECIAL 2	504

**Menu Options**

Main Level	Programming Levels		Description	
<b>DMX</b>	<b>001~512</b>	N/A	Sets the DMX starting address	
<b>PERSON</b>	<b>ARC 1</b>	N/A	3-channel: RGB control	
	<b>ARC 1 + D</b>		4-channel: RGB control + dimmer	
	<b>ARC 2</b>		4-channel: RGBW control	
	<b>ARC 2 + D</b>		5-channel: RGBW control + dimmer	
	<b>ARC 3</b>		5-channel: RGBWA control	
	<b>ARC 3 + D</b>		6-channel: RGBWA control + dimmer	
	<b>ARC FULL</b>		7-channel: RGB control, dimmer, color macro, strobe, dimmer speed	
	<b>REMOTE</b>		Allows using the ILUMICON unit	
	<b>SOLID</b>		1-channel: dimmer	
	<b>SPECIAL 2</b>		9-channel: RGBWA control, dimmer, color macro, strobe, dimmer speed	
<b>CALIB</b>	<b>WHITE (1~11)</b>	<b>RED GREN BLUE COOL WARM AMBE</b>	<b>0~255</b>	Determines the white balance for the color macros
	<b>RGBTOW</b>			Determines the white balance when RGBTOW is active
<b>DIMMER</b>	<b>OFF</b>	N/A		Dimmer work in linear mode
	<b>DIM 1</b>			Dimmer works in non-linear mode, from fast to slow.
	<b>DIM 2</b>			
	<b>DIM 3</b>			
	<b>DIM 4</b>			

**Menu Options  
(cont.)**

Main Level	Programming Levels		Description
<b>STATIC</b>	<b>RED</b>	<b>0~255</b>	Configures the static color and effect
	<b>GRN</b>		
	<b>BLUE</b>		
	<b>COOL</b>		
	<b>WARM</b>		
	<b>AMBR</b>		
	<b>STRB</b>		
<b>SETTINGS</b>	<b>COLOR</b>	<b>OFF</b>	Maximum output, unbalanced white
		<b>RGBTOW</b>	White output is as per <b>CALIB &gt; RGBTOW</b> settings
		<b>UC</b>	Output matches that of product's previous versions
	<b>RESET</b>	<b>NO/YES</b>	Resets unit to factory default settings

## DMX Channel Values

### ARC FULL

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	Color Macros	000 ∘ 010 No function 011 ∘ 035 R: 100% G: Up B: 0% 036 ∘ 060 R: Down G: 100% B: 0% 061 ∘ 085 R: 0% G: 100% B: Up 086 ∘ 110 R: 0% G: Down B: 100% 111 ∘ 135 R: Up G: 0% B: 100% 136 ∘ 160 R: 100% G: 0% B: Down 161 ∘ 185 R: 100% G: Up B: Up 186 ∘ 210 R: Down G: Down B: 100% 211 ∘ 215 White 1: 3,200 K 216 ∘ 220 White 2: 3,400 K 221 ∘ 225 White 3: 4,200 K 226 ∘ 230 White 4: 4,900 K 231 ∘ 235 White 5: 5,600 K 236 ∘ 240 White 6: 5,900 K 241 ∘ 245 White 7: 6,500 K 246 ∘ 250 White 8: 7,200 K 251 ∘ 255 White 9: 8,000 K	
6	Strobe	000 ∘ 005 No function 006 ∘ 255 Slow~Fast	
7	Dimmer Speed	000 ∘ 009 Off 010 ∘ 069 Speed 1 (Fastest) 070 ∘ 129 Speed 2 130 ∘ 189 Speed 3 190 ∘ 255 Speed 4 (Slowest)	

**ARC 1**

Channel	Function	Value	Percent/Setting
1	Red	000 ó 255	0~100%
2	Green	000 ó 255	0~100%
3	Blue	000 ó 255	0~100%

**ARC 1 + D**

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ó 255	0~100%
2	Red	000 ó 255	0~100%
3	Green	000 ó 255	0~100%
4	Blue	000 ó 255	0~100%

**ARC 2**

Channel	Function	Value	Percent/Setting
1	Red	000 ó 255	0~100%
2	Green	000 ó 255	0~100%
3	Blue	000 ó 255	0~100%
4	White	000 ó 255	0~100%

**ARC 2 + D**

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ó 255	0~100%
2	Red	000 ó 255	0~100%
3	Green	000 ó 255	0~100%
4	Blue	000 ó 255	0~100%
5	White	000 ó 255	0~100%

### ARC 3

Channel	Function	Value	Percent/Setting
1	Red	000 ó 255	0~100%
2	Green	000 ó 255	0~100%
3	Blue	000 ó 255	0~100%
4	White	000 ó 255	0~100%
5	Amber	000 ó 255	0~100%

### ARC 3 + D

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ó 255	0~100%
2	Red	000 ó 255	0~100%
3	Green	000 ó 255	0~100%
4	Blue	000 ó 255	0~100%
5	White	000 ó 255	0~100%
6	Amber	000 ó 255	0~100%

### SOLID

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

**SPECIAL 2**

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ó 255	0~100%
2	Red	000 ó 255	0~100%
3	Green	000 ó 255	0~100%
4	Blue	000 ó 255	0~100%
5	White	000 ó 255	0~100%
6	Amber	000 ó 255	0~100%
7	Color Macros	000 ó 010 011 ó 035 036 ó 060 061 ó 085 086 ó 110 111 ó 135 136 ó 160 161 ó 185 186 ó 210 211 ó 215 216 ó 220 221 ó 225 226 ó 230 231 ó 235 236 ó 240 241 ó 245 246 ó 250 251 ó 255	No function R: 100% G: Up B: 0% R: Down G: 100% B: 0% R: 0% G: 100% B: Up R: 0% G: Down B: 100% R: Up G: 0% B: 100% R: 100% G: 0% B: Down R: 100% G: Up B: Up R: Down G: Down B: 100% White 1: 3,200 K White 2: 3,400 K White 3: 4,200 K White 4: 4,900 K White 5: 5,600 K White 6: 5,900 K White 7: 6,500 K White 8: 7,200 K White 9: 8,000 K
8	Strobe	000 ó 005 006 ó 255	No function Slow~Fast
9	Dimmer Speed	000 ó 009 010 ó 069 070 ó 129 130 ó 189 190 ó 255	Off Speed 1 (Fastest) Speed 2 Speed 3 Speed 4 (Slowest)

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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.

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