Ilumiline Inground Tri-12 IP Optic 25 RGB
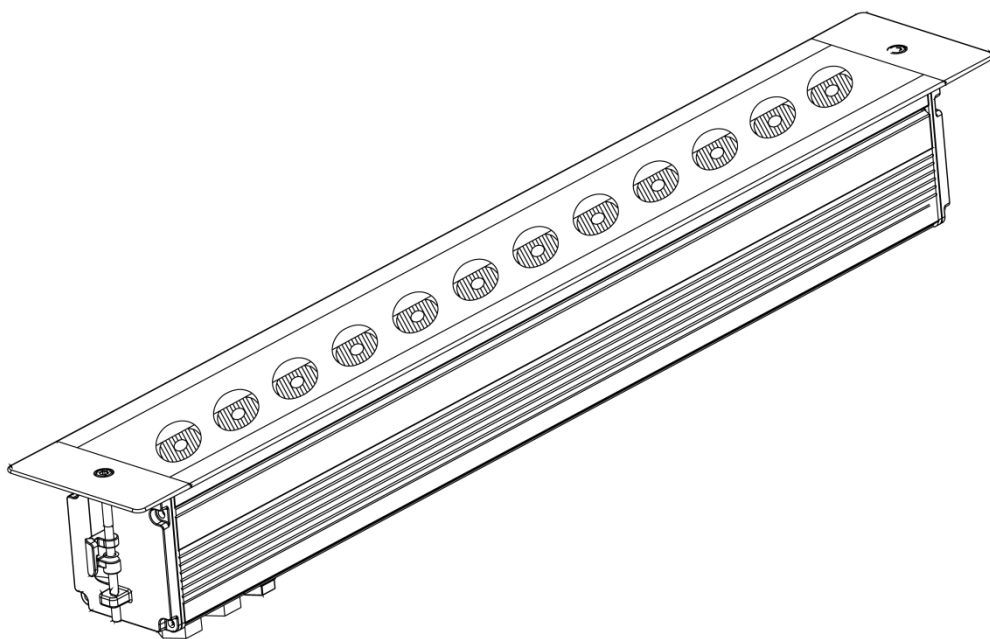
Quick Reference Guide

About This Guide	The Ilumiline Inground Tri-12 IP Optic 25 RGB Quick Reference Guide (QRG) only contains the product's connection and mounting information, as well as the menu options and DMX values.

Disclaimer	This QRG does not replace the product's User Manual. You must download the corresponding User Manual from the ILUMINARC® Web site (www.iluminarc.com) to learn about the disclaimers, safety notes, programming modes, and technical information.

Safety Notes

·   DO NOT open this product unless instructed. It contains no user serviceable parts.
·   DO NOT look at the light source when this product is on.
·   DO NOT touch the product when it is operating because it may be hot.
·   DO NOT leave any flammable material within 50 cm from this product while operating or connected to the power outlet to minimize the risk of fire.
·   This product is for outdoor use and can be submerged (IP67). However, do not submerge deeper than 1 m for more than thirty (30) minutes.
·   DO NOT operate this product if you see damage on the housing, lenses, or cables. Have an authorized technician replace the damaged parts.
·   DO NOT connect this product to a dimmer or rheostat.
·   ONLY connect this product to a grounded and protected circuit.

What Is Included

·   One Ilumiline Inground Tri-12 IP Optic 25 RGB
·   One Power Input Cable (bare-ended)
·   One Data Input/Output Cable (bare-ended)
·   One Installation Sleeve
·   One Pour Kit Cover
·   One Warranty Card
·   One Quick Reference Guide

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

Features
- 1, 3, 4, 6, or 7 channel DMX-512 LED inground wash light
- Operating modes:
  - 1-channel: Dimmer
  - 3-channel: RGB control
  - 4-channel: Dimmer, RGB control
  - 6-channel: RGB control per module (two modules)
  - 7-channel: Dimmer, RGB control, color macros, strobe, dimmer speed
- Five distinct dimming curves
- IP67 stainless steel gland nuts for cable entry
- Remotely addressable with Ilumicode Addresser
- IP67 ingress protection
- Gore™ valve
- ADA compliant skid resistant, drive over rated glass lens cover
- High power 3 W (1,050 mA) Tri-color LEDs

Options
- Ilumicode addresser (required for product configuration)
- Ilumicon controller (for operation without DMX controller)

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

Power Cable Table

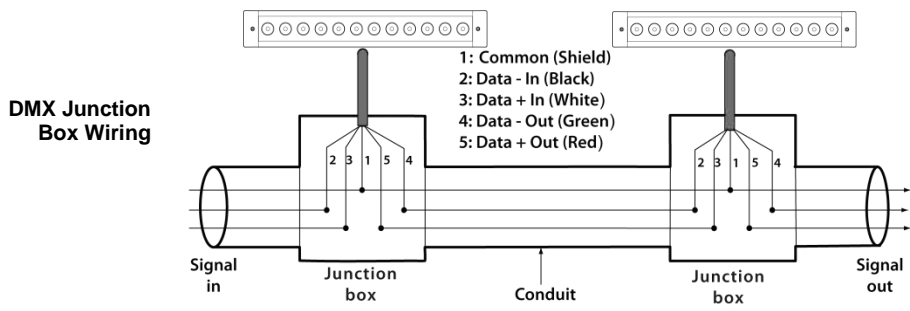| Connection	Wire (US)	Wire (Europe)	IP67 Pin
AC Live	Black	Brown	1
AC Neutral	White	Blue	2
AC Ground	Green/Yellow	Green/Yellow	3

AC Power Junction Box Wiring
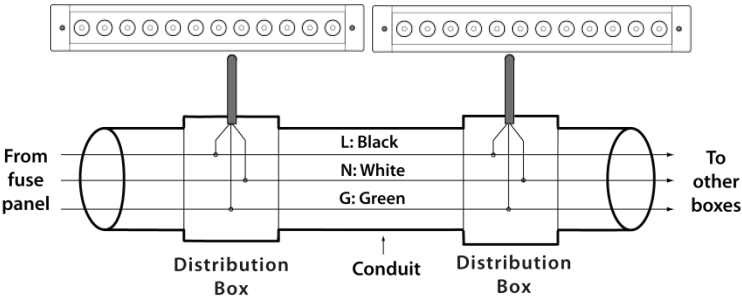
DMX Connection   You can connect the bare-ended IP67 rated signal cable from this product to two IP67 rated signal connectors (DMX in and DMX Out) or use an IP67 rated junction box. If using an IP67 rated junction box, make sure to use IP67 rated conduit.

Signal Wiring   To provide a signal for this product, you can connect the bare-ended IP67 rated signal cable from the product to two IP67 rated signal connectors (DMX in and DMX out) or use an IP67 rated junction box. If using an IP67 rated junction box, 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

1: Common (Shield)
2: Data - In (Black)
3: Data + In (White)
4: Data - Out (Green)
5: Data + Out (Red)

DMX Cable Table

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

| **Ilumicon and DMX Controllers**	The Ilumiline Inground Tri-12 IP Optic 25 RGB can operate with either an Ilumicon or a DMX controller. Use the standard DMX connection, as shown on page 4 (*DMX Junction Box Wiring*) to connect this product to any of those controllers. For more information, please refer to the *Ilumiline Inground Tri-12 IP Optic 25 RGB User Manual*.
Settings	To configure the Ilumiline Inground Tri-12 IP Optic 25 RGB, use the Ilumicode addresser
Ilumicode Connections	The diagram below shows how to connect the Ilumicode to this product. Note that this connection will control multiple products at the same time, all having the same DMX address. To assign individual DMX addresses to each product, you must connect the Ilumicode unit to each product, individually. You will also have to disconnect the DMX output of the product being configured if other products are connected to it.

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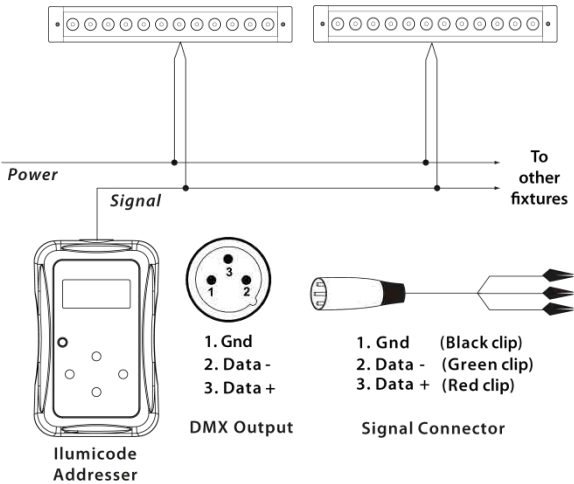
ILUMINARC® suggests connecting no more than 20 products in this mode, keeping the total distance to less than 60 m (197 ft). If not, you may need to use an optically isolated signal amplifier.

Installation

Before mounting this product, read the Safety Notes at the beginning of the *Ilumiline Inground Tri-12 IP Optic 25 RGB User Manual* and follow the mounting procedures.

Installation Diagram

Signal cable

Power cable

To signal distribution box.

To power distribution box.

Collar

Concrete

Drainpipe

Hardpan
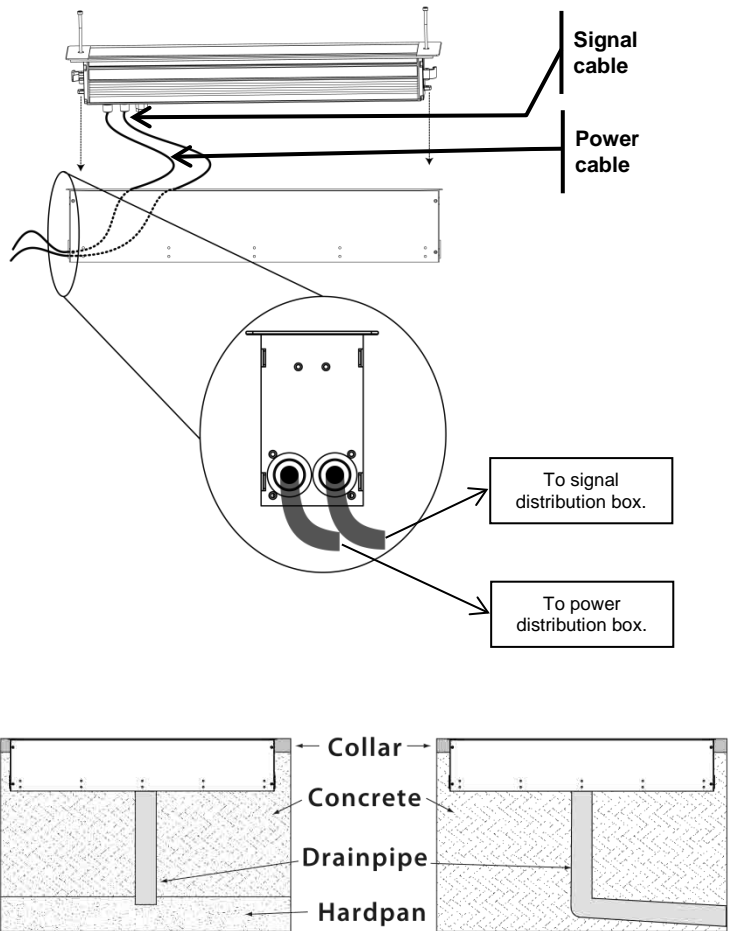
Ilumicode Control Panel Description

Button	Function
<POWER>	Turns the Ilumicode unit on.
<MENU>	Scrolls through the main level or exits from the current menu or function. **NOTE**: Press and hold 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
SOLID	512	ARC1+D	509	SPECIAL1	507
ARC1	510	ARC FULL	506		

Menu Options

Main Level	Programming Levels			Description
DMX	001~512	N/A		Sets the DMX starting address
PERSON	ARC1	N/A		3-channel: RGB control
	ARC1+D			4-channel: RGB control + dimmer
	ARC FULL			7-channel: RGB control + dimmer
	REMOTE			Allows using the ILUMICON unit
	SOLID			1-channel: dimmer
	SPECIAL1			6-channel RGB per module
CALIB	WHITE (1~11)	RED GREN BLUE	0~255	Determines the white balance for the color macros
	RGBTOW			Determines the white balance when RGBTOW is active
DIMMER	OFF	N/A		Dimmer work in linear mode
	DIM 1			Dimmer works in non-linear mode, from fast to slow.
	DIM 2			
	DIM 3			
	DIM 4			
STATIC	RED	0~255		Configures the static color and effect
	GREN			
	BLUE			
	STRB			
SETTINGS	COLOR	OFF		Maximum output, unbalanced white
		RGBTOW		White output is as per CALIB > RGB settings
		UC		Output matches that of product's previous versions
	RESET	NO/YES		

DMX Values

ARC FULL

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ↔ 255	0~100%
2	Red	000 ↔ 255	0~100% (Step Time if CUS 01~10 active)
3	Green	000 ↔ 255	0~100% (Fade Time if CUS 01~10 active)
4	Blue	000 ↔ 255	0~100%
5	Color Macros	000 ↔ 010 No function 011 ↔ 030 Red: 100% Green: 0~100% Blue: 0% 031 ↔ 050 Red: 100~0% Green: 100% Blue: 0% 051 ↔ 070 Red: 0% Green: 100% Blue: 0~100% 071 ↔ 090 Red: 0% Green: 100~0% Blue: 100% 091 ↔ 110 Red: 0~100% Green: 0% Blue: 100% 111 ↔ 130 Red: 100% Green: 0% Blue: 100~0% 131 ↔ 150 Red: 100% Green: 0~100% Blue: 0~100% 151 ↔ 170 Red: 100~0% Green: 100~0% Blue: 100% 171 ↔ 200 Red: 100% Green: 100% Blue: 100% 201 ↔ 205 White 1: 3,200 K 206 ↔ 210 White 2: 3,400 K 211 ↔ 215 White 3: 4,200 K 216 ↔ 220 White 4: 4,900 K 221 ↔ 225 White 5: 5,600 K 226 ↔ 230 White 6: 5,900 K 231 ↔ 235 White 7: 6,500 K 236 ↔ 240 White 8: 7,200 K 241 ↔ 245 White 9: 8,000 K 246 ↔ 250 White 8: 8,500 K 251 ↔ 255 White 9: 10,000 K	
6	Strobe	000 ↔ 009 No function 010 ↔ 255 0 ~ 20 Hz	
7	Dimming Speed	000 ↔ 009 Dimmer is set by Ilumicode 010 ↔ 029 OFF (Dimmer is linear) 030 ↔ 069 DIM1 (Fastest dimmer curve) 070 ↔ 129 DIM2 130 ↔ 189 DIM3 190 ↔ 255 DIM4 (Slowest dimmer curve)	

ARC 1

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

ARC + D

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%

SOLID

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

SPECIAL 1

Channel	Function	Value	Percent/Setting
1	Red Module 1	000 ⚫ 255	0~100%
2	Green Module 1	000 ⚫ 255	0~100%
3	Blue Module 1	000 ⚫ 255	0~100%
4	Red Module 2	000 ⚫ 255	0~100%
5	Green Module 2	000 ⚫ 255	0~100%
6	Blue Module 2	000 ⚫ 255	0~100%

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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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