Ilumipod Inground Tri-12 IP

Quick Reference Guide

ILUMIN**ARC**®

What is Included	· One Ilumipod Inground Tri-12 IP · One Warranty Card · Concrete installation sleeve · One Quick Reference Guide

About this Guide

The Ilumipod Inground Tri-12 IP Quick Reference Guide (QRG) only contains the product's connection and mounting information as well as the menu options and the DMX values. This QRG does not replace the product's user manual. You must download the user manual from the ILUMINARC® Web site (www.iluminarc.com) to learn about the disclaimers, safety notes, programming modes and technical information.

Product at a Glance

Use on Dimmer	✖	Auto Programs	✖
Outdoor Use	P	Auto-ranging power supply	P
Sound Activated	✖	Replaceable Fuse	✖
DMX	P	User Serviceable	✖
Master/Slave	✖	Duty Cycle	✖

Features

· Remote addressable DMX-512 LED inground wash light
· Operating modes:
  - 1-channel: Dimmer
  - 3-channel: RGB control
  - 4-channel: RGB, dimmer
  - 6-channel: RGB per module
  - 7-channel: RGB, dimmer, macro, strobe, dimming speed
· Blackout/static/dimmer/strobe/pulse
· IP67 ingress protection
· High power 3 W (1,050 mA) tri-color LEDs
· IP67 stainless steel gland nuts for cable entry
· Adjustable module angle
· Cast aluminum and stainless steel housing
· Impact resistant glass lens cover (drive-over rated)
· Polished stainless steel mounting ring

Options

· Ilumicode compatible
· ILUMICON compatible
· Installed (non-changeable) optical system:
 - 15° lenses   P/N: 11012001

Installation Notes

The Ilumipod Inground Tri-12 IP consists of two parts, the fixture housing and the concrete installation sleeve. The fixture housing is IP67 rated, but the sleeve is not. Please pay close attention to the installation instructions for the concrete installation sleeve regarding leveling and drainage.

You will have to run the AC power and signal cables into the concrete installation sleeve and the fixture's housing. Do not use the fixture's junction box to extend the power or signal cables to other units because it may compromise the IP rating of the junction box. Instead, use individual cables from the fixture to the corresponding distribution boxes.

Always keep the power cables away from the signal cables by running them in different conduits and using separated distribution boxes.

Installation Sleeve Orientation

Orient the installation sleeve to allow the signal cable to enter the sleeve using one of the four cable inlets and the power cable to use the opposite inlet, as seen in the figure. This will reduce the stress to the signal and power cables when installing the fixture, while keeping them separated.
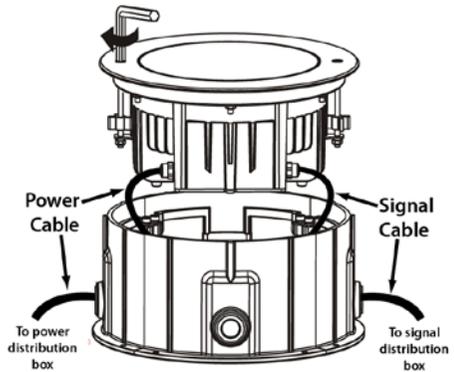
Installation Sleeve Setup

When setting up the installation sleeve, make sure that any water that may have entered it can drain out of the sleeve on its own. Locate the installation sleeve above the normal drainage level so the fixture does not become submerged in more than 1 m of water (IP67) during heavy rain.

In addition, make sure that the installation sleeve allows the stainless steel collar to be leveled and flushed with the ground surface to distribute the load uniformly over the fixture's surface.

Installation Sleeve Drainage
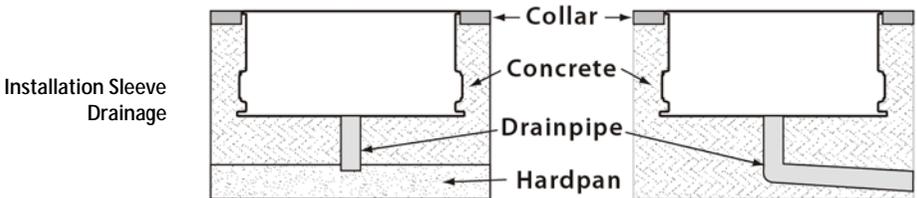
The Ilumipod Inground Tri-12 IP can support a distributed load of up to 3,000 kg (6,614 lbs) when properly installed.

Beam Angle Adjustment

The Ilumipod Inground Tri-12 IP has two LED modules. You can adjust the angle of each of these modules to spread or narrow the fixture's beam. To do so, follow these steps:

· Loosen the ¼ turn Allen bolts on the stainless steel collar.
· Lift the fixture from the installation sleeve, making sure not to stretch the power and signal cables.
· Loosen the six nuts that hold the collar to the housing, except two adjacent ones.
· Wait a few seconds for the seal to expand. This lowers the possibility of damaging the seal.
· Complete the removal of the two remaining nuts.
· Remove the stainless steel collar.
· Carefully, lift and remove the protective glass and seal. Make sure not to reverse the glass.
· Using only your hands, push on the sides of each module to adjust its angle, as shown in the figure below.
· Replace the glass and seal.
· Replace the stainless steel collar, making sure to allow the Allen screws to show and that the glass is flushed with the collar.
· Replace all six nuts and adjust them manually until they touch the housing.
· Tighten the nuts uniformly by alternating between opposite nuts.
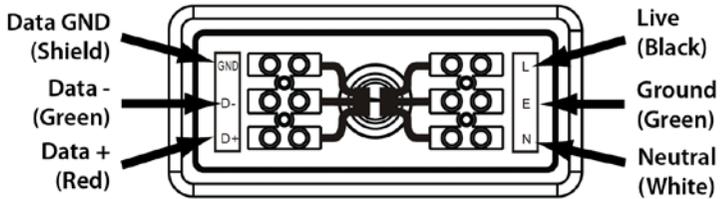· Reattach the fixture to the installation sleeve.
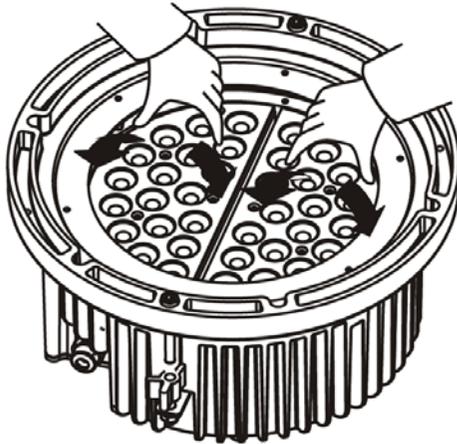
AC Power This product has an auto-ranging power supply that can work with an input voltage range of 100~240 VAC, 50/60 Hz.

Junction Box This fixture has an IP67 rated junction box where the power and signal cables come into the unit. The cables access the junction box through individual (signal and power) IP67 rated stainless steel gland nuts.

Make sure that the junction seal is clean before placing the cover back on. In addition, tighten the gland nuts and the junction cover to prevent water from entering the junction box and cause a short.

The figure below shows the connections in the junction box.

Power Wiring To provide AC power to this fixture, you must run a single STJW rated, 3-conductor cable (AWG18/3, 6~8 mm external diameter) from the power distribution box into the installation sleeve and the fixture's junction box.

Make sure to strip the end of the AC power cable that will connect to the junction box as indicated in the figure on the right.
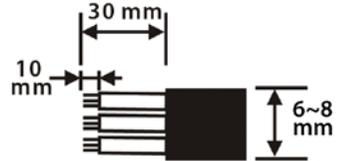
Power Cable Table

| Connection	Wire (US)	Wire (Europe)
AC Live	Black	Brown
AC Neutral	White	Blue
AC Ground	Green/Yellow	Green/Yellow

Signal Wiring To provide signal to this fixture, you must run a single, IP67 rated DMX signal cable (shielded, 2-conductor, AWG24/2, 6.5 mm external diameter) from the signal distribution box into the installation sleeve and the fixture's junction box. The signal cable must match or exceed the electrical characteristics of the Belden® 9841 cable for EIA RS-485 applications.

VERY IMPORTANT

Make sure to use power and signal cables with the indicated outer diameters to ensure that the corresponding gland nut makes full contact with the cable's external insulation. This is required to ensure watertightness once fully adjusted.

Power Distribution

You must connect the bare-ended power cable from the fixture to a power distribution box. If you choose to bury the power distribution boxes, make sure that they are IP67 rated.
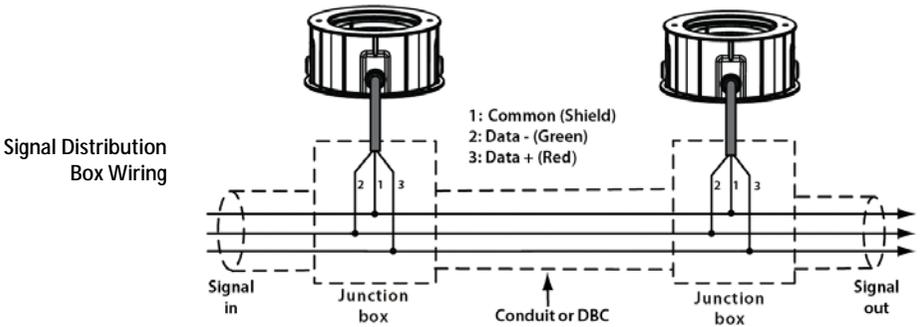
Power Distribution Box Wiring
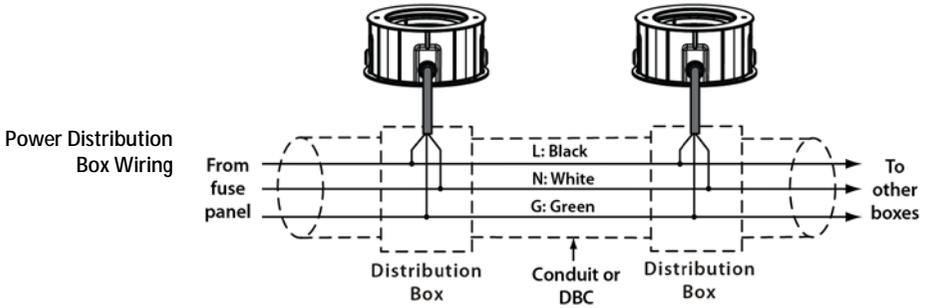

Signal Distribution

You must connect the bare-ended signal cable from the fixture to a signal distribution box. If you choose to bury the signal distribution boxes, make sure that they are IP67 rated.

Signal Distribution Box Wiring

DMX Controller

The Ilumipod Inground Tri-12 IP can work with a standard DMX controller. The channel assignments will depend on the chosen personality (see *Menu Options*) and the DMX address assigned to each fixture (see *Settings*).

The figure below illustrates how to connect the DMX controller to the Ilumipod Inground Tri-12 IP fixture(s).

DMX Controller
Connection
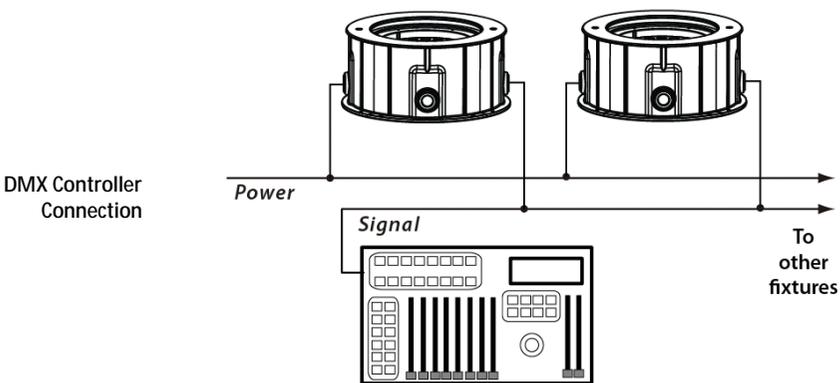
ILUMICON

The Ilumipod Inground Tri-12 IP can also work with the ILUMICON controller instead of a standard DMX controller. Please refer to the ILUMICON user manual to learn how to use it with this fixture.
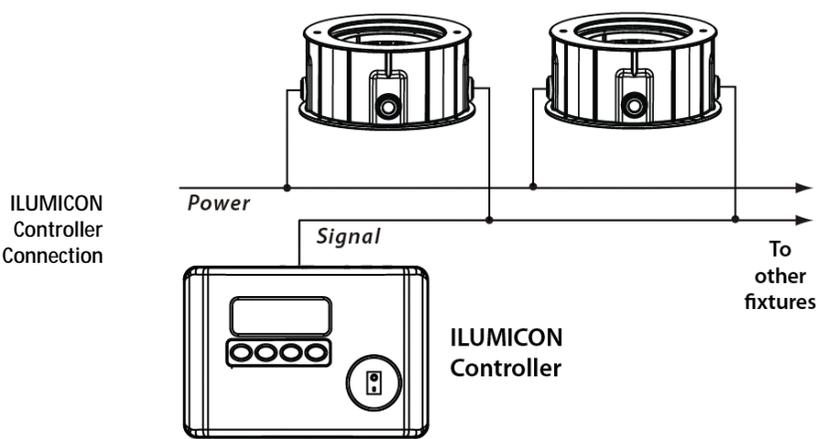
The figure below illustrates how to connect the ILUMICON controller to the Ilumipod Inground Tri-12 IP fixture(s).

ILUMICON
Controller
Connection

Settings   The Ilumipod Inground Tri-12 IP uses the Ilumicode unit for configuration purposes.

Ilumicode   The diagram below shows how to connect the Ilumicode to this product.
Connection   Note that this connection will control multiple fixtures at the same time, all having the same DMX address. To assign individual DMX addresses to each fixture, you must connect the Ilumicode unit to each fixture, individually.

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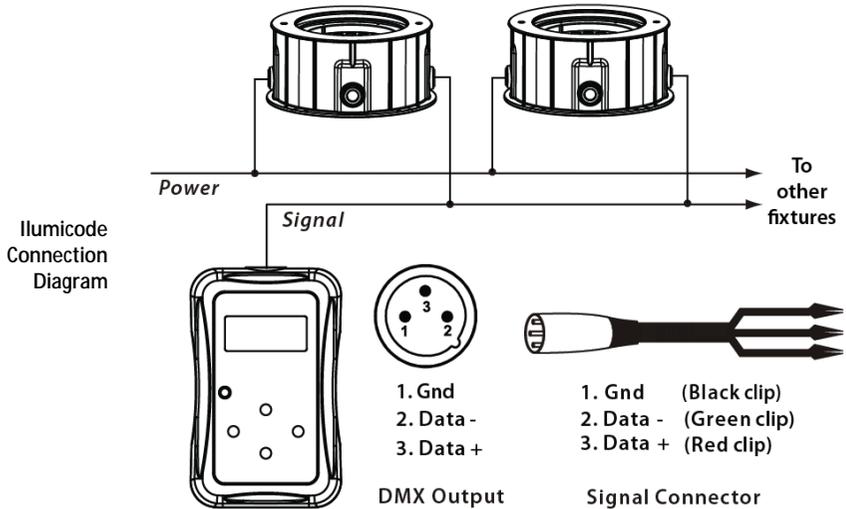
ILUMINARC® suggests you to connect no more than 20 fixtures in this mode and to keep the total distance to less than 60 m (197 ft). Otherwise, you might need to use an optically isolated signal amplifier.

Ilumicode
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

Menu Options	1ST Level	2nd Level	3rd Level	Instructions
	DMX	**001~512**	N/A	Sets the DMX starting address
	PERSON	**ARC 1**	N/A	3-channel: RGB control
		ARC 1 + D		4-channel: RGB + dimmer (D)
		ARC FULL		7-channel: RGB, D, macro, strobe, speed
		REMOTE		The fixture operates with ILUMICON
		SOLID		1-channel: D
		SPECIAL 1		6-channel: RGB per module
	CALIB	*WHITE 1~11*	*RED*	000~255 — Defines the White color temperature used in Macros
			GREEN	
		RGBTOW (1)	*BLUE*	Defines the white color used in **RGBTOW (2)**
	DIMMER	**OFF**	N/A	The dimmer works in linear mode
		DIM 1~4		The dimmer works in non-linear mode, from fast (DIM1) to slow (DIM4).
	STATIC	*RED*	000~255	Combines RGB values to form a static color
		GREEN		
		BLUE		
		STRB	00~20	Sets the strobe frequency (0~20 Hz)
	SETTINGS	*COLOR*	**OFF**	When RGB = 255, output is maximum
			RGBTOW (2)	When RGB = 255, output is the one defined in **RGBTOW (1)**
			UC	When RGB = 255, output matches older models of the same fixture
		RESET	**NO**	
			YES	

DMX Values

ARC FULL

Channel	Function	Value	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 Macro + White Balance**	000 ⚬ 010 011 ⚬ 030 031 ⚬ 050 051 ⚬ 070 071 ⚬ 090 091 ⚬ 110 111 ⚬ 130 131 ⚬ 150 151 ⚬ 170 171 ⚬ 200 201 ⚬ 205 206 ⚬ 210 211 ⚬ 215 216 ⚬ 220 221 ⚬ 225 226 ⚬ 230 231 ⚬ 235 236 ⚬ 240 241 ⚬ 245 246 ⚬ 250 251 ⚬ 255	No Function Red 100% - Green Up - Blue 0% Red Down - Green 100% - Blue 0% Red 0% - Green 100% - Blue Up Red 0% - Green Down - Blue 100% Red Up - Green 0% - Blue 100% Red 100% - Green 0% - Blue Down Red 100% - Green Up - Blue Up Red Down - Green Down - Blue 100% Red 100% - Green 100% - Blue 100% - White 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 White 10: 8,500 K White 12: 10,000 K
6	**Strobe**	000 ⚬ 004 005 ⚬ 255	No Function 0~20 Hz
7	**Dimming Speed**	000 ⚬ 009 010 ⚬ 029 030 ⚬ 069 070 ⚬ 129 130 ⚬ 189 190 ⚬ 255	Dimmer is set by Ilumicode OFF (Dimmer is linear) DIM1 (Fastest dimmer curve) DIM2 DIM3 DIM4 (Slowest dimmer curve)

SPECIAL 1

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

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 1 + 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%

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