Installation

The Luxium™ ZR30 is a self-contained PAR-30 size LED lighting solution capable of DMX512 or stand-alone operation.

It has a wide input power supply, so will operate on any voltage that your likely to find on an E26/E27 “medium screw base” lamp socket.

The ZR30 has five operating modes that are selected via an 8-position DIP switch on the side of the lamp.

The ZR30 may be connected to a DMX512 controller via the RJ45 jack, also on the side of the lamp. Multiple ZR30s may be daisy-chained onto a single DMX512 cable.

If installed in a fixture please leave at least ½ inch (12mm) of clear space surrounding the ZR30 housing to facilitate air flow.

***WARNING**: The ZR30 is powered by a switching power supply and is not intended to be dimmed by a line-voltage dimmer. Socket should be wired directly to the power-line mains.*

Accidental connection of RJ45 jacks to non-DMX512 equipment (e.g., an Ethernet Hub at a patch bay) may result in damage to equipment.

Voltage: 90VAC … 250VAC, 50/60Hz
Power: 25W (at maximum output)
Environmental: 5C … 45C, 10-90%RH non-condensing.
Control Input: DMX512-A on RJ45 connector as described in ANSI E1.11-2008

Optional Diffuser Kit

The Luxium™ DK1 Optical Diffuser Kit is a set of 5 different filters that are used to adjust the beam angle of the ZR30.

This is an excellent option for creating a smooth and uniform beam with the ZR30 lamp. These filters are easy to install on the front of the lamp and are held in place by the bezel ring.

Useful for situations that require a more diffuse beam that spreads out over a wider angle than the standard narrow beam spot light.

Beam spread can be adjusted from 30 degrees to 60 degrees depending on the chosen insert.

Install diffuser film under tabs around lamp bezel. Use slight pressure to gently bend diffuser film and snap into place.

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ZR30

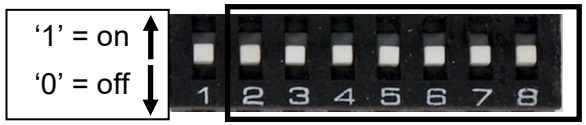
Adaptable-Color DMX Lamp

Luxium Lighting
Bring out your Colors!

www.luxium.co
Made in USA

DIP Switch Setting

Operating modes, sequences and DMX address for the ZR30 are set via an 8-position DIP switch on the side of the lamp.



Used to set DMX and modes

Orientation

Hold the ZR30 lamp with the lens up and the screw base down, the switch will be correctly oriented. A switch shown with the value of '1' is a switch that is in the up position (toward the lens) and a switch that is shown with a value of '0' is a switch that is in the down position.

Connecting DMX512

The ZR30 includes RJ-45 connectors to interface with a DMX console and other DMX lamps. A CAT5 cable or XLR is used for control. A wireless ZR30-AX1 receives DMX from a Wi-DMX transmitter. When pairing or switching to wired only mode the ZR30 must first be reset to factory conditions. See wireless transmitter instructions for details. DO NOT CONNECT ETHERNET OR PEO TO RJ-45 INPUT OR THE LAMP WILL BE DAMAGED!

Blended-Color Mode

Switches: 0uuu uuuu

A ZR30 occupies 4 slots on the DMX512 network. In this mode the ZR30 receives four DMX512 channels, assigned to Red, Green, Blue, and White, in that order. Output colors are expertly blended based on the color request implied by the DMX512 input levels.

uuu uuuu = Zero-based binary unit number. The address for the ZR30 is computed as: DMX512 Address = ((unit x 4) + 1). For example: 0000 0001 = DMX 5, 0000 0010 = DMX 9.

See operation guide for full list of DMX settings

MODE	SWITCHES	SETTINGS
Blended-Color, 4-ch DMX512	0uuu uuuu	uuu uuuu = binary unit number (0…127)
Color-Mixer, 6-ch DMX512	1010 uuuu	uuuu = zero-based unit number (1...15)
Selectable-White, Static CCTs	1000 cccc	cccc = CCT selector (0…15) from table
Selectable-Color, Static RGBW	1001 cccc	cccc = Color selector (0...15) from table
Ballyhoo Mode	1011 0bbb	bbb = Ballyhoo pattern selector (0...7)

Selectable-White Mode

Switches: 1000 cccc

Lamp displays calibrated white CCTs

0000	No output	1000	4000K
0001	2400K	1001	4500K
0010	2700K	1010	5000K
0011	2850K	1011	5600K
0100	3000K	1100	6500K
0101	3250K	1101	Half RED
0110	3500K	1110	Half BLUE
0111	3850K	1111	Max White

Ballyhoo Mode

Switches: 1011 0bbb

In this mode, the ZR30 will run one of 8 predefined color sequences.

0000	six-color, medium speed
0001	six-color, slow speed
0010	seven-color
0011	salsa
0100	traffic
0101	x-mas
0110	winter wonderland
0111	sunset

Color-Mixer Mode

Switches: 1010 uuuu

Each internal LED string assigned to a DMX channel so each color adjusted individually without using internal blending algorithms.

DMX address is computed as: Address= ((unit x 6) + 1)

Selectable-Color Mode

Switches: 1001 cccc

Lamp displays a single color at full intensity.

0000	No output
0001	Red
0010	Green
0011	Yellow
0100	Blue
0101	Magenta
0110	Cyan
0111	Blended White RGBY - 6500K
1000	B.A. Bastard Amber
1001	Special Lavender
1010	Steel Blue
1011	Violet
1100	Blue-Green
1101	Orange
1110	Tungsten
1111	All White, RGBW - 4000K