sixteen5hundred	Project 21-12877-3 Date 6/25/2021 RGB/W | Saturated Color Submitted By 16500, INC	Catalog Number PDX10 SS 18LED RGB MVOLT FL FLC 34S RDM Notes	Type

HYDREL

PARADOX 10

RGB LED, DMX Color Changing
10" Architectural In-Grade

HIGHLIGHTS

- RDM capable for in-field fixture discovery
- Offered with 8° narrow distribution
- Adjustable LED module for in-field aiming up to 15° tilt and 360° rotation
- Integral junction box for wire splicing
- U.V. stabilized, impact and corrosion resistant housing
- Integral ELDOled driver
- Available in RGBW as custom

5 YEAR warranty

LED

IP67

WET LOCATION™

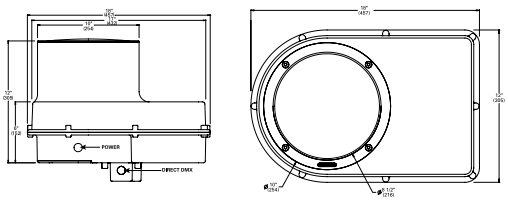
ARCHITAINMENT COLOR

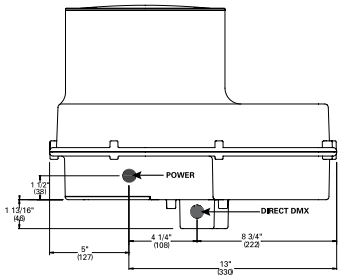
Buy American

Specifications

Lenght:	18"
	457 mm
Width:	12"
	305 mm
Height	12"
	305 mm
Weight:	13lbs

DIMENSIONS





LUMEN PACKAGES

	NSP	MFL	FL	WFL	HSP	HFL
Delivered Lumens	810	845	775	498	880	833
Watts	47	47	47	47	47	47
LPW	17	18	16	11	19	20

Note: Based on all colors full on

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ORDERING INFORMATION

EXAMPLE: PDX10 B 18LED RGB MVOLT NSP FLC 34S RDM

Model*	Door Material*	LED Type*	LED Color*	Voltage*	Light Distribution*	Lens*
PDX10	**SS** Stainless Steel **BSS** Brushed Stainless Steel **B** Bronze	**18LED** 18 Chip LED array	**RGB** Mixing *Note: Available in RGBW as custom*	**MVOLT** (120 - 277V)	**NSP** Narrow Spot **MFL** Medium Flood **FL** Flood **WFL** Wide Flood **HSP** Horizontal Spot **HFL** Horizontal Flood	**FLC** Flat Lens Clear **FLCAS** Flat Lens Clear, Anti-Slip **FLCSR** Flat Lens Frosted, Slip Resistant

Conduit Entries*	Control	Accessories	Listing
34S Two 3/4" NPT Side (Standard) **25S** Two 25mm Side	**RDM** Remote Device Management Field Discoverable and Field Programmable DMX	**Internal** **IHL** Internal Honeycomb Louver	**IEC** International Electrotechnical Commission *Note: Only for use with 50hz applications*

ELECTRICAL LOAD

			Current (A)			
Light Engines	**Drive Current (mA)**	**System Watts**	120	208	240	277
18 LED	750	47	0.39	0.23	0.20	0.17

SLIP RESISTANCE AND LOAD RATING

PDX4
MAXIMUM LOAD RATING
Peak compression force of 4,944 lbs.
LENS STATIC COEFFICIENT OF FRICTION
PDX10 Anti-Slip Lens (FLCAS): Dry = 0.76; Wet = 0.20
PDX10 Slip Resistant Lens (FLSR): Dry = 0.84; Wet = 0.65

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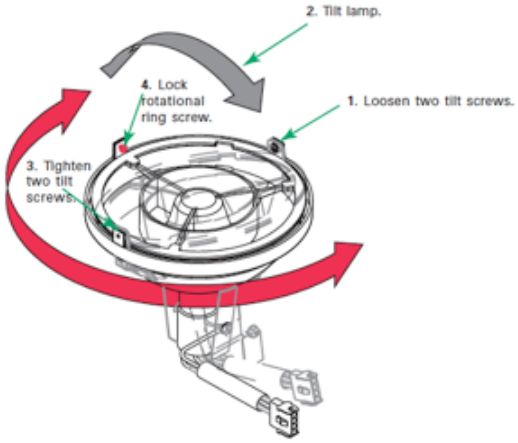
PERFORMANCE DATA

LUMEN OUTPUT

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here.

	Distribution	Nema Type	Beam Angle (50%) H x V	Field Angle (10%) H x V	Watts	LPW	Delivered Lumens
All Colors Full On	NSP	2 x 2	8 x 8	20 x 20	47	17	810
	MFL	3 x 3	21 x 21	39 x 39	47	18	845
	FL	5 x 5	73 x 47	94 x 79	47	16	775
	WFL	6 x 6	100 x 100	125 x 125	47	11	498
	HSP	3 x 2	26 x 10	40 x 23	47	19	880
	HFL	2 x 4	10 x 38	22 x 54	47	20	933

LAMP ADJUSTMENT DETAIL



CONTROLS

RECOMMENDED CONTROLLERS

Easyl DMX TOUCHSCREEN
http://www.acuitybrands.com/products/detail/210270/Fresco/Easyl/Easyl-DMX512A-Show-Controller

FRESCO
http://www.acuitybrands.com/products/detail/223381/Fresco/Fresco/Touchscreen-Lighting-Controllers

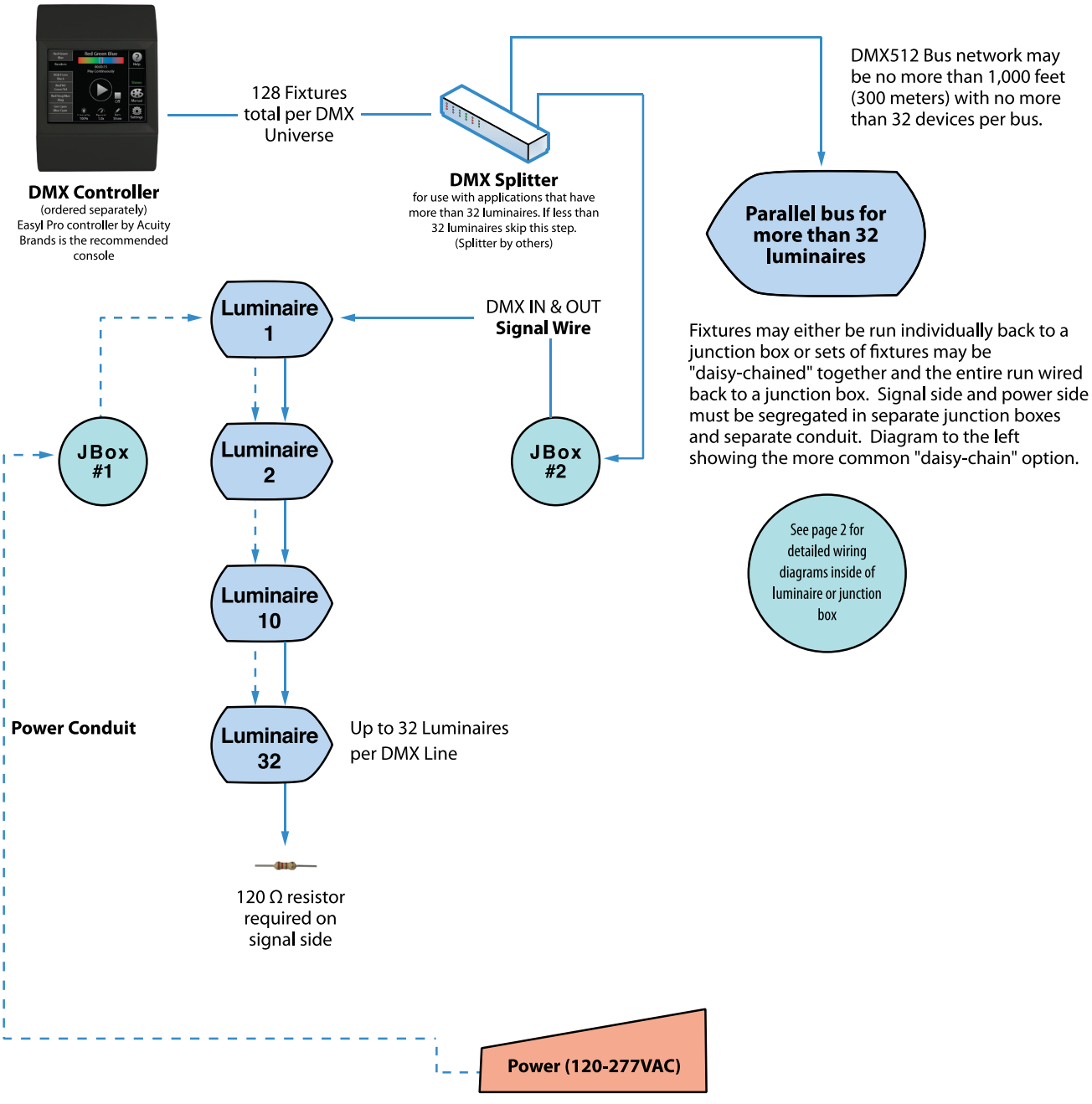
Easyl™ Solo is a standalone entry-level controller enabling show creation and playback directly at the LCD touchscreen.

Easyl™ Touch features an astronomic time clock for automating shows and expands the controller's features by accepting inputs from remote button stations, and button station contact closure inputs.

Easyl™ Pro is further enhanced by using Easyl Studio™ computer software to create multi-zone shows, and Easyl Pro features a 20 hour DMX512 capture from a theatrical console.

FCS Create and edit 36 lighting scenes including intensity, color, and color temperature Integral astronomic timeclock with battery backup for system scheduling Direct DMX control for 1 universe (512 slots)Internal Bluetooth® radio for wireless App control.

DMX SYSTEM WIRING - INGRADES

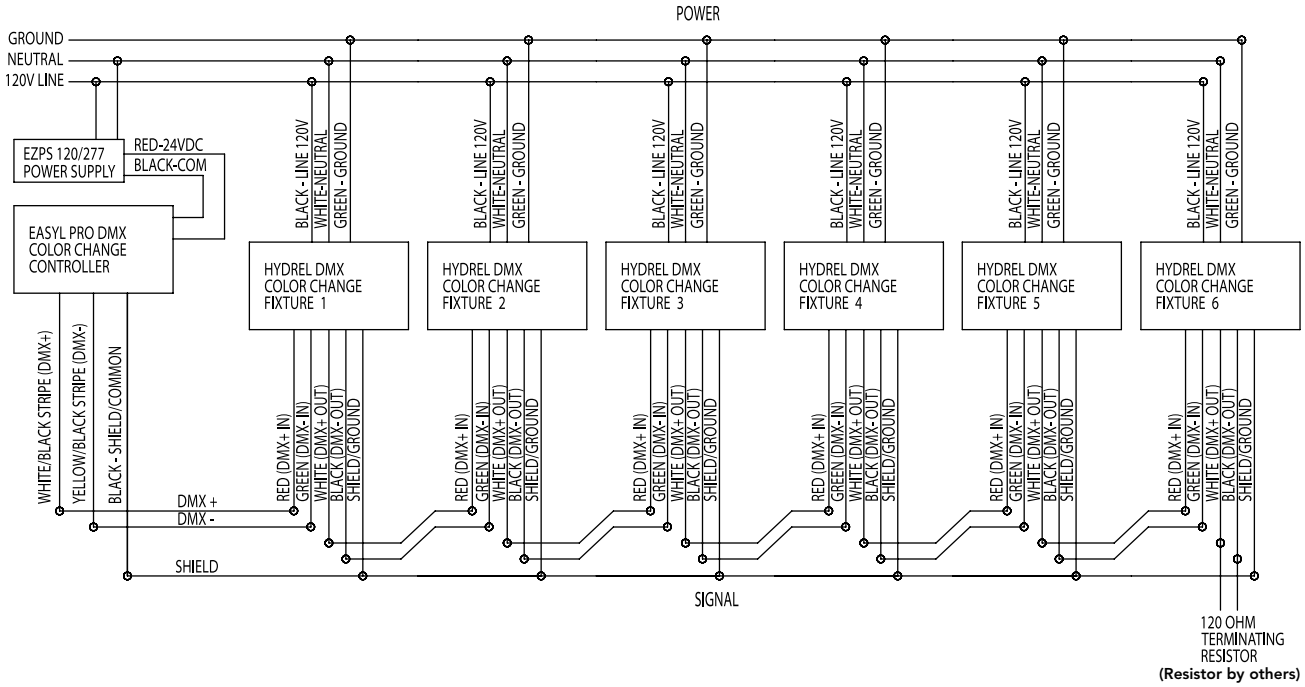


Fixtures may either be run individually back to a junction box or sets of fixtures may be "daisy-chained" together and the entire run wired back to a junction box. Signal side and power side must be segregated in separate junction boxes and separate conduit. Diagram to the left showing the more common "daisy-chain" option.

See page 2 for detailed wiring diagrams inside of luminaire or junction box

Notes:
1. DMX512 signal cable must be terminated by a 120 ohm resistor.
2. Signal cable by others, cable must be two-pair with a maximum capacitance of 12.8 pF/ft. and a impedance of 120 ohm.

DMX CONNECTION AND TERMINATION - WIRING DIAGRAM



All devices connecting to the network must be wired in a series (in and out) on the signal side.
T taps or branches in the network are not permitted.

SPECIFICATIONS AND FEATURES

DOOR MATERIAL: Die cast bronze or stainless steel.

HOUSING: Compression molded polyester with patent pending internal direct access junction box for through-branch wiring. Internal junction box provides 44in^3 volume to ensure proper seal during installation. The housing is U.V. stabilized, impact and corrosion resistant for use in all types of environments. The housing has a side-car configuration and houses the lamp and power module components as well as the lens/ door finishing section.

LED TYPE: 47 Watt RGB LED array. (LED Board included)

OPTICS: NEMA Flood (2x2 through 6x6), horizontal spot, horizontal flood. LED module has 15° of internal tilt and 360° of rotation.

ELECTRICAL: 47 watt Integral ELDO RGB power driver MVOLT (120-277) 50/60Hz LED power supply dims to zero. THD <20%, class 2 driver with 100% to 0% dimming.

CONTROL: DMX512. Color control is achieved through standard DMX512 hardware, at a maximum of 44 frames per second. All channels have logarithmic power for finer color and intensity control. Compatible with the Easyl and Fresco controllers from Acuity. Controllers must be ordered separately.

LENS/SEAL: Tempered clear flat borosilicate glass. The patent pending door/lens seal uses proprietary knife edge technology to secure the assembly to the housing. Four captive screws hold the assembly in place. The lens is notched to provide maximum aperture opening.

CONDUIT ENTRIES: Two molded 3/4" NPT side entries and two 3/4" NPT bottom entries are provided allowing and in and a out for both the power and DMX lines.

LISTING: cCSAus, suitable for wet locations, laboratory tests conducted by CSA to UL Standard UL-1598 and UL-8750.

BUY AMERICAN: This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/resources/buy-american for additional information.

WARRANTY: 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

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