

Specifications – Claypaky Volero Wave Luminaire

GENERAL

A.) Overview

- 1.) The unit shall be a LED-sourced strip luminaire using eight (8) 40-Watt RGBW (red/green/blue/white) LEDs with a CRI of 70 or higher, fitted with independent tilt movement for each source, with an output of 292 lumens in white light for single pixels module and a color temperature range of 2500K to 8000K.
- 2.) The unit and yoke shall be constructed of a combination of formed plastics, steel, and aluminum alloys for light weight, strength, and durability.
- 3.) The unit shall have an independent Tilt movement of 220° for each LED's source
- 4.) The unit shall be cMETus listed and marked that conforms to UL1573, CSA C22.2 No. 166 and CE-marked. The unit shall conform to the following European Directives:
 - a) 2014/35/EU - Safety of electrical equipment supplied at low voltage (LVD)
 - b) 2014/30/EU - Electromagnetic Compatibility (EMC)
 - c) 2011/65/EU - Restriction of the use of certain hazardous substances (RoHS)
 - d) UL 1573, Fourth Edition – Stage and Studio Luminaires and Connectors Strips (MET)
- 5.) The unit shall conform to USITT DMX-512A (RDM), Art-Net, Claypaky WebServer protocol standards.
- 6.) The unit shall have a backlit LCD monochrome display for manual control and settings of the fixture. The unit shall have testing functionality to read and store fixture error messages that can be displayed on the LCD display.
- 7.) The unit shall have a long life, self-charging battery that allows basic information of the luminaire to viewed on the LCD display without connecting the unit to an AC power source.
- 8.) The unit shall be black in color.
- 9.) The unit shall have dedicated control connections for:
 - a) DMX512 with input and throughput via 5-Pin DMX XLR connectors
 - b) RDM with input and throughput via 5-Pin DMX XLR connectors
 - c) DMX512 with input and throughput via an Ethernet RJ45 connector
- 10.) Display, power input and signal connectors shall be located on one side of the unit.

B.) Physical

- 1.) The unit shall be no more than 1000 millimeters or 39.4 inches long, 182 millimeters or 7.16 inches wide, and 329 millimeters or 15.4 inches high at its greatest dimensions, each single front lens shall be no more than 86 mm or 3,3 inches wide and 114 mm or 4,4 inches high (not including accessories).
- 2.) The unit shall weigh no more than 20.8 kilograms or 45,8 pounds (not including accessories).
- 3.) The unit shall have a base structure that includes one (2) universal fast-lock mounting bar which will accept a variety of hanging clamps and side structure that include one (19 universal fast-lock mounting bar which will accept a variety of hanging clamps for align the fixture. The unit shall also be supplied with two (2) dedicated floor brackets for floor mounting as desired.

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- 4.) The unit shall be at least IP20 rated.

C.) Mechanical

- 1.) The unit shall be constructed of a combination of formed plastics, steel, and aluminum alloys for light weight, strength, and durability.
- 2.) The unit shall have 8 (eight) DMX controllable Tilt motorized front lense with fixed a projected angle of fixed 2.9°
- 3.) The unit shall have eight (8) front lenses each measuring 86 Wide and 114 millimeters high in diameter.
- 4.) The unit shall have a Tilt of 220° for each front lenses.

D.) Electrical

- 1.) The unit will be equipped for to accept a Neutrik PowerCON TRUE1® connector for power input and shall operate between the voltages of 100VAC to 240VAC (single phase, 50/60 Hertz) and not draw more than 400VA.
- 2.) The unit's enclosure shall have a user-replaceable fuse that protects the unit from overcurrent.
- 3.) The unit shall be supplied with a 1.5-meter AC input cable with a Neutrik PowerCON TRUE1® connector on one end and the other end prepped by the supplier to accept an approved and suitable connector (by others) as required to connect to power source.
- 4.) The unit's enclosure shall have an a Neutrik PowerCON TRUE1® AC output connect capable of passing power up to two (2) additional Volero Wave luminaires at 100 to 120VAC or up to four (4) Volero Wave luminaires at 200 to 240VAC.

E.) Environmental

- 1.) Maximum operating ambient temperature shall not exceed 40 degrees Celsius or 113 degrees Fahrenheit.
- 2.) The unit shall be at least IP20 rated.
- 3.) The unit shall comply with all RoHS requirements and be mercury free.

F.) Operation

- 1.) The unit shall be constructed so whether multiple units are mounted side-by-side vertically or horizontally (directly next to each other), the distance between luminaires' lenses shall be the same.
- 2.) The unit shall offer two (2) user-selectable (via the unit's DMX Function channel) speeds for tilt operation of either Normal or Fast.

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- 3.) The unit shall have dedicated control connections for:
- DMX512 with input and throughput via 5-Pin DMX XLR connectors
 - RDM with input and throughput via 5-Pin DMX XLR connectors
 - DMX512 with input via an Ethernet RJ45 connector
- 4.) The unit shall offer two (2) user selectable Basic Engine DMX modes of Standard RGBW 16-bit (23 channels), Shape RGBW 16-bit (29 channels) . The DMX modes of DMX-512A control as follows:

DMX Channel	Standard	Shape
1	RED	RED
2	RED FINE	RED FINE
3	GREEN	GREEN
4	GREEN FINE	GREEN FINE
5	BLUE	BLUE
6	BLUE FINE	BLUE FINE
7	WHITE	WHITE
8	WHITE FINE	WHITE FINE
9	CTO	CTO
10	MACRO COLOUR	MACRO COLOUR
11	SHUTTER	SHUTTER
12	DIMMER	DIMMER
13	DIMMER FINE	DIMMER FINE
14	TILT1	TILT1
15	TILT2	TILT2
16	TILT3	TILT3
17	TILT4	TILT4
18	TILT5	TILT5
19	TILT6	TILT6
20	TILT7	TILT7
21	TILT8	TILT8
22	FUNCTION	FUNCTION
23	RESET	RESET
24	-	PIXEL MACRO
25	-	PIXEL SPEED
26	-	PIXEL OFFSET
27	-	MIRROR MACRO
28	-	MIRROR SPEED
29	-	MIRROR OFFSET

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- 5.) The unit shall offer two (2) user selectable Pixels Engine DMX modes of RGB (24 channels) and RGBW (32 channels) accessed via the Function control channel. The DMX modes of DMX-512A control as follows:

DMX Channel	Pixels RGB Mode	DMX Channel	Pixels RGBW Mode
1	Red 1	1	Red 1
2	Green 1	2	Green 1
3	Blue 1	3	Blue 1
4	Red 2	4	White 1
5	Green 2	5	Red 2
6	Blue 2	6	Green 2
7	Red 3	7	Blue 2
8	Green 3	8	White 2
9	Blue 3	9	Red 3
10	Red 4	10	Green 3
11	Green 4	11	Blue 3
12	Blue 4	12	White 3
13	Red 5	13	Red 4
14	Green 5	14	Green 4
15	Blue 5	15	Blue 4
16	Red 6	16	White 4
17	Green 6	17	Red 5
18	Blue 6	18	Green 5
19	Red 7	19	Blue 5
20	Green 7	20	White 5
21	Blue 7	21	Red 6
22	Red 8	22	Green 6
23	Green 8	23	Blue 6
24	Blue 8	24	White 6
-	-	25	Red 7
-	-	26	Green 7
-	-	27	Blue 7
-	-	28	White 7
-	-	29	Red 8
-	-	30	Green 8
-	-	31	Blue 8
-	-	32	White 8

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6.) The unit shall include an LCD menu system that will allow users to set fixture operating parameters and display fixture errors as follows:

a) Setup

1. Basic Engine
2. Pixels Engine
3. Repeat on DMX
4. Ethernet Interface
5. Fixture ID
6. Master RDM

b) Option

1. Invert Tilt
2. Tilt Smoothness Mode
3. Led Swap
4. Dimmer Curve
5. CTO mode
6. Display
7. Setting

c) Information

1. System Errors
2. Fixture Hours
3. LED Hours
4. System Version
5. Driver Diagnostic
6. DMX Monitor
7. RDM Unique ID
8. Network Parameters
9. sACN Information
10. Serial Number

d) Manual Control

1. Reset
2. Channel

e) Advanced (*password protected*)

1. Upload Firmware
2. Calibration

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H.) Warranty

- 1.) The manufacturer of the luminaire shall offer a two-year limited warranty on the luminaire in its entirety.
- 2.) Manufacturers not offering a minimum of a two-year warranty shall not be accepted.

I.) Accessories

- 1.) The unit shall include the following accessories for each unit purchased:
 - a) One (1) Neutrik powerCON TRUE1® power input connector.
 - b) Two (2) each and dedicated fast look omega clamp brackets
 - c) Product safety documentation.
- 2.) The following accessories shall be made available for each unit:
 - a) A preformed road case shell insert.

- End of Specification -