

# Specifications – Claypaky Axcor Profile 400 Luminaire

## GENERAL

### A.) Overview

- 1.) The unit shall be a LED-sourced moving head profile luminaire using a 300-Watt white LED engine with a CRI of 70 or higher, an output of 16,000 lumens in white light, and a native color temperature of 6500K.
- 2.) The unit's head, yoke and enclosure housings shall be constructed of a combination of formed plastics, steel, and aluminum alloys for light weight, strength, and durability.
- 3.) The unit shall be black in color.
- 4.) The unit shall be cETLus listed 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) 2009/125/EC - EcoDesign requirements for Energy-related Products (ErP)
- 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 AUTOTEST 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 have a 7:1 zoom optics system adjusts the projected field angle over a range of 6° to 42°.
- 9.) The unit shall have a 120 mm diameter front lens that has a variable beam focus to soften the edges of gobos or spots and to provide gobo morphing. The unit's projected image shall remain in focus throughout the entire zoom range.
- 10.) 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 via an Ethernet RJ45 connector
- 11.) All control and power input connectors shall be located on the same panel of the unit's enclosure. The unit shall have an ON/OFF power switch and user-replaceable 6.3 Amp fuse for over-current protection.

### B.) Physical

- 1.) The unit's head, yoke and enclosure housings shall be constructed of a combination of formed plastics, steel, and aluminum alloys for light weight, strength, and durability.
- 2.) The unit's head covers shall use captive screws for easy removal and access to the luminaire's gobos, colors, etc. for cleaning and removal.

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- 3.) The unit shall be no more than 647 millimeters or 25.5 inches long and 376 millimeters or 14.8 inches wide at its greatest dimensions (not including accessories).
- 4.) The unit shall hang on 550 millimeter or 21,6 inch centers.
- 5.) The unit shall weigh no more than 27 kilograms or 60 pounds (not including accessories).
- 6.) The unit's enclosure shall accept two fast-lock omega clamp brackets to accept suitable hooks (or clamps, by others) for hanging and the unit shall operate in any working position. The unit shall be supplied with 2 fast-lock omega clamp brackets as standard accessories.
- 7.) The unit's enclosure shall have a label (on the same side of the hanging points) stating, "Front" to indicate the direction of hang for the unit.
- 8.) The unit's enclosure shall be equipped with two (2) handles specifically designed to support the weight of the unit when being carried.
- 9.) The unit's enclosure shall have a dedicated safety cable (safety bond) anchor point other than the luminaire's handles.
- 10.) The unit shall be at least IP20 rated.

## *C.) Mechanical*

- 1.) The unit shall have variable speed cooling fans. The user shall be able to select the fan cooling modes of standard (STD), automatic (AUTO), or silent (SLN). The modes can be set via the user at the LCD menu system or via DMX control.
- 2.) The unit shall contain two independent three-phase stepper motors to provide accurate movement of the head through 540° in the horizontal plane (pan) and 270° in the vertical plane (tilt). The pan and tilt mechanisms shall be belt-driven.
- 3.) The unit shall have a mechanical iris that provides continuous beam size control for rapid and smooth, timed beam angle changes or random effects.
- 4.) The unit shall have a 4-frame shutter system whereas the blades can move independently. The shutter system shall offer 90° rotation of the entire system in unison at variable speeds.
- 5.) The unit shall have independent locking mechanisms for pan and tilt to prevent movement for traveling or servicing the fixture.

## *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 120VAC to 240VAC (single phase, 50/60 Hertz) and not draw more than 500VA at 230VAC at 50 Hz.
- 2.) The unit shall be supplied with a 3-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.

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- 3.) The unit's enclosure shall have an accessible from the input panel a user-replaceable fuse that protects the unit from over current.
- 4.) The unit's light source shall be a single, 300-Watt LED module that produces white light. The user can control the LED engine's refresh frequency rate from 600Hz to 25000Hz.

## *E.) Environmental*

- 1.) Maximum operating ambient temperature shall not exceed 40 degrees Celsius or 104 degrees Fahrenheit.
- 2.) The unit shall have a variable speed cooling system to maintain the optimal operating temperature of the luminaire. The user shall be able to select the fan cooling modes of standard (STD), automatic (AUTO), or silent (SLN). The modes can be set via the user at the LCD menu system or via DMX control.
- 3.) The unit shall comply with all RoHS requirements and be mercury free.
- 4.) The unit shall be able to illuminate objects 3 meters or 9.83 feet or further safely.

## *F.) Operation*

- 1.) 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 via an Ethernet RJ45 connector
- 2.) The unit shall have thirty-six (36) channels of DMX-512A control as follows:
  1. Cyan Color
  2. Magenta Color
  3. Yellow Color
  4. CTO (Color Temperature)
  5. Color Wheel
  6. Strobe
  7. Dimmer
  8. Dimmer Fine
  9. Iris
  10. Rotating Gobo Selection / Wheel Rotation/Gobo Effects
  11. Gobo Rotation / Indexing
  12. Gobo Rotation / Indexing Fine
  13. Prism Insertion
  14. Prism Rotation
  15. Animation Disc Insertion
  16. Animation Disc Rotation
  17. Frost
  18. Focus
  19. Zoom
  20. Shutter Mechanism Blade 1 Movement
  21. Shutter Mechanism Blade 1 Rotation
  22. Shutter Mechanism Blade 2 Movement
  23. Shutter Mechanism Blade 2 Rotation
  24. Shutter Mechanism Blade 3 Movement

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25. Shutter Mechanism Blade 3 Rotation
26. Shutter Mechanism Blade 4 Movement
27. Shutter Mechanism Blade 4 Rotation
28. Shutter Mechanism Frame Rotation
29. Shutter Mechanism Frame Macros
30. Shutter Mechanism Frame Macro Speed
31. Pan
32. Pan Fine
33. Tilt
34. Tilt Fine
35. Reset
36. Function

- 3.) 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. DMX Address
2. Ethernet Interface

b) Option

1. Pan / Tilt
2. Color
3. CMY Speed
4. Dimmer Curve
5. Display
6. Fan Mode
7. Setting

c) Information

1. System Errors
2. Fixture Errors
3. LED Hours
4. System Version
5. DMX Monitor
6. Fans Monitor
7. Network Parameters
8. UID

d) Manual Control

1. Reset
2. Channel

e) Test

1. Pan/Tilt
2. Color
3. Beam
4. Gobo
5. Shutter
6. All

f) Advanced (*password protected*)

1. Upload Firmware
2. Calibration
3. Menu Locking

- 4.) The unit shall include the following effects mechanisms:

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- a) One (1) rotating gobo wheel with seven (7) rotating and indexable gobos. The rotating gobos are easily interchangeable to allow customization of the unit. The unit shall be equipped with a standard set of gobos that have an image size of 17.5 mm diameter and the gobo shall not be larger than 22.9 mm in total diameter.
- b) A mechanical iris provides continuous beam size control for rapid and smooth timed beam angle changes or random effects.
- c) An electronic 16-bit dimmer that provides full field dimming and has four (4) user-selectable dimming curves. The unit's dimmer must allow for smooth timed fades and fast blackouts.
- d) A 4-frame shutter system whereas the blades can move independently. The shutter system shall offer 90° rotation of the entire system in unison at variable speeds.
- e) An electronic strobe that operates in a linear fashion from 1 to 25 flashes per second or 3 levels of random effects.
- f) A variable frost that operates linearly from 0 to 100%.
- g) A rotating 4-facet prism that is indexable 540° and can spin clockwise, counter-clockwise at user-controlled variable speeds.
- h) An animation disc that can spin clockwise, counter-clockwise at user-controlled variable speeds.

## *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) each 3-meter AC input cable that includes a Neutrik powerCON TRUE1® power input connector and the other end prepped by the supplier to accept an approved and suitable connector (by others) as required to connect to power source.
  - b) Two (2) each fast-lock 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 -**