

CHAUVET PROFESSIONAL SPECIFICATIONS SHEET
OVATION FD-165WW

Warm White LED (Light Emitting Diode) Fresnel-style product

GENERAL

- A. The product shall be an Ovation FD-165WW as manufactured by Chauvet & Sons, LLC or approved equal.
 - 1. The product shall be a high-intensity LED illuminator utilizing warm white (WW) LEDs and DMX control of intensity.
 - 2. Product must work on conventional dimmers or constant power with DMX.
 - 3. The product shall conform to CSA C22.2 No. 166-15 and UL 1573 stage and studio use as well as UL 8750 LED standards, tested via MET to conform to the aforementioned UL specifications, product shall hold MET and CE markings.
 - 4. The product shall comply with the USITT DMX-512A standard.
 - 5. All LED products shall be provided by a single manufacturer to ensure color consistency.

PHYSICAL

- A. The product shall be constructed of rugged aluminum and impact resistant engineering plastic, free of defects or imperfections.
 - 1. The front and rear of the product shall be constructed from high temperature and impact resistant engineering plastic moldings for strength, and lower weight.
 - 2. The body of the product shall be constructed of extruded and stamped aluminum.
- B. The following shall be provided:
 - 1. Product shall use an 8" Fresnel lens that will provide adjustable soft-edge and well-defined beam shaping.
 - 2. Sturdy high temperature and impact resistant engineering plastic gel frame holders with two accessory slots, and a quick release gel frame retainer mounted at 45° from the top.
 - 3. Rugged aluminum yoke allowing 360° rotation of the product within the yoke.
 - 4. Product shall have a single clutch yoke lock on the side of the product with ratcheting handle.
 - 5. Product shall contain a safety mounting point as an integral part of the casing.
 - 6. Product shall use a motorized zoom for beam shaping adjustments.

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- D. The housing shall have a rugged black powder coat finish.
- E. Power supply, cooling and electronics shall be integral to each product.
- F. The product shall ship with:
 - 1. Theatrical-style hanging yoke as standard
 - 2. Gel Frame
 - 3. 5' cable with Neutrik powerCON™ to Edison connector as standard

OPTICAL

- A. The product shall utilize a Fresnel lens that will provide adjustable soft-edge and well-defined beam shaping.
- B. The product shall provide:
 - 1. A field angle zoom range of 25° to 76°.
 - 2. An output no less than 6,400 field lumens in full flood setting.
- C. The LED shall be rated for an average of 70% output after 100,000 hours of use.
- D. Manufacturer of LED systems shall utilize an advanced production LED binning process to maintain color consistency.

ENVIRONMENTAL AND AGENCY COMPLIANCE

- A. The product shall conform to UL 1573, CSA C22.2 No. 166, and UL 8750 LED standards, tested via MET to conform to the aforementioned UL specifications, product shall hold MET and CE markings.
- B. The product shall be rated for IP-20 dry location use.

THERMAL

- A. Product heat management shall be achieved through active cooling via a low noise fan. Fan db rating shall not exceed 51 db at a distance of 12 inches.
 - 1. Products exceeding 51 db @ 12 in. shall not be allowed.
 - 2. Fan mode shall be selectable via an onboard menu.
- B. The product shall utilize advanced thermal management systems to maintain LED life to an average of 70% intensity after 100,000 hours of use.
- C. The product shall operate in an ambient temperature range of -20°C (-4°F) minimum, to 45° C (113°F) maximum ambient temperature.

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ELECTRICAL

- A. The product shall be equipped with a 120/230 VAC, 50/60 Hz (switchable) internal power supply.
- B. The product shall support power in and thru operation.
 - 1. Power in shall be via Neutrik powerCON™ input connector.
 - 2. Power through shall be via Neutrik powerCON™ output connector.
 - 3. Product power wiring and accessory power cables shall be rated to support linking of multiple products up to the capacity of a 15 A breaker.
- C. The product requires power from either a non-dim or dimmable source.
- D. Product shall automatically sense whether it is receiving power from a dimmable source or a conventional power source and respond appropriately.
- E. Products shall have thermal output compensation to prevent thermal shift of color or intensity.
- F. Product power input shall have current limiting fuse protection.
- G. Power supply shall have power factor correction.

LED EMITTERS

- A. The product shall contain a warm white LED color system to provide color characteristics as described in the Color section below.
- B. All LEDs used in the product shall be high brightness and proven quality from established and reputable LED manufacturers.
 - 1. Product shall utilize CREE LED emitters.
- C. Manufacturer of LED emitters shall utilize an advanced production LED binning process to maintain color consistency.
- D. LED emitters shall be rated for nominal 100,000-hour LED life at 70% intensity.
- E. All LED products (100% of each lot) shall undergo a minimum three-hour burn-in test during manufacturing.
- F. LED system shall comply with all relevant patents.

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COLOR

- A. The product shall utilize a minimum of 16 LED emitters.
 - 1. These emitters shall be composed of sixteen 10 Watt, warm white LEDs.
 - 2. The product shall have a color temperature of 3184 K.
 - 3. The product should have a CRI (color rendering index) of 90.

DIMMING

- A. The LED system shall use 16-bit nonlinear scaling techniques for high-resolution dimming.
- B. The product shall have a selectable dimming curve to simulate incandescent dimming curves.
- C. Dimming curve shall be optimized for smooth dimming over longer timed fades.
- D. The LED system shall be digitally driven using high-speed pulse width modulation (PWM).

CONTROL AND USER INTERFACE

- A. The product shall be USITT DMX 512A-compatible via in and through 5-pin XLR connectors and 3-pin XLR connectors.
- B. The product shall be equipped with an LED segment display.
- C. The product shall be equipped with a four-button user-interface.
- D. A variable-rate strobe channel shall be provided.
- E. The product shall offer stand-alone functionality, eliminating the need for a console.
 - 1. Product can be linked together with standard DMX cables and controlled from designated master product.
 - a. Up to 32 products may be linked.
 - 2. Product shall offer one-button access to intensity control, to eliminate the need for a lighting console during hang/focus. Exiting this mode shall restore the product to standard DMX control.

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