

# Otello 6 HD FullSpectrum +

Last update:  
17/02/2023



Otello 6 HD + with 8 leaf barndoor

#### Introducing

● Developed to offer the best solution in the stage lighting field focussing on **theatre and TV studios applications**, Otello Led Fresnel incorporates all traditional characteristics of a Fresnel light such as the **distinctive soft-edged** and **very wide beam** and the **smooth and homogeneous light field**.

The improved **HD electronic** with an advanced.

LED controller guarantees a smooth 20 bit dimming and a superlative color mixing. LED controller guarantees a smooth 20 bit dimming and a superlative **color mixing**.

Next to the traditional manual or P.O. option, Otello offers an optional motorized zoom, which together with a modern design and Oled display with on-board selector for quick setting represents the state of the art in terms of LED Fresnel range. The family consists of 2 fixtures with lenses of 150 mm (5,9 inch) and 200 mm (7,87 inch). All variants include COB, VariWhite, Studio and FullSpectrum 6 LEDs in 3 power steps.

● **FullSpectrum** : 2.700 – 20.000 K (CRI average> 95); Red, Green, Blue, Cyan, Lime, Amber color mixing with Green-Magenta adjustment

● **VariWhite | Tungsten | Daylight**: white engines with the Tungsten and Daylight COB LED calibrated respectively at 3.000 K and 5.600 K CCT and a tunable white source ranging from 2.800 to 6.500 K (CRI > 94) for the VariWhite version

#### Key Features



- Red, Green, Blue, Cyan, Lime, Amber light source, 20 bit color mixing
- Green-Magenta adjustment
- Color mixing with hue and saturation control



- High CRI 97 @ 3.200 K, CRI 96 @ 5.600 K



- CCT 2.700K → 20.000 K



- Fresnel lens (diameter: 150 mm / 5.9 in)
- Zoom range from 7° to 50° half peak angle
- Available with Manual or Motorized Zoom



- Extruded aluminum, flame-retardant technopolymer reinforced with fiberglass



- Custom color on request (optional)



- Manual (standard) or Pole Operated Pan-Tilt (Optional)

|                                       |                                                                                                                                                                                        |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General                               |                                                                                                                                                                                        |
| ● LED Source                          | RGBCLA COB LED (Red, Green, Blue, Cyan, Lime, Amber) - Color mixing with hue and saturation control                                                                                    |
| ● CCT Range                           | ● ● ● ● CCT from 2.700 K to 10.000 K (through DMX) or up to 20.000 K (through Display)                                                                                                 |
| ● Color Rendition Average             | CRI 97 @ 3.200 K, CRI 96 @ 5.600 K                                                                                                                                                     |
| ● Dimming                             | 8 or 16 bit, 5 selectable curves: Exponential, Logarithmic, Linear, Halo and Standard                                                                                                  |
| ● Strobe                              | Electronic strobe, synchronized, random, pulse effect                                                                                                                                  |
| ● Lens                                | Glass Fresnel lens (diameter: 150 mm / 5.9 in)                                                                                                                                         |
| ● Optical                             | Zoom range from 7° to 50° half peak angle (motorized, manual or PO zoom available)                                                                                                     |
| ● Green-Magenta adjustment            | Continuously adjustable (Full Minusgreen to Full Plusgreen)                                                                                                                            |
| ● Color saturation function           | Generated colors fades to White tone selected with the CCT channel                                                                                                                     |
| ● Dim to Warm function                | Halogen lamp dimmer simulation                                                                                                                                                         |
| ● Camera flicker control/Hz range     | Yes: 20.000 Hz                                                                                                                                                                         |
| ● Calibrated Cob                      | Yes                                                                                                                                                                                    |
| ● L80 Rating<br>(hours to 80% output) | 50.000 Hours                                                                                                                                                                           |
| Electrical                            |                                                                                                                                                                                        |
| ● Voltage Input                       | 80-264V, 50-60 Hz, Auto-sensing                                                                                                                                                        |
| ● Power Consumption                   | 190 W Maximum - 0.84 A at 230V, 1.68 A at 115V - $\cos\phi$ : 0.98 (manual / P.O. zoom)<br>200 W Maximum - 0.88 A at 230V, 1.77 A at 115V - $\cos\phi$ : 0.98 (motorized zoom)         |
| ● Power Connection                    | In and Out PowerCON TRUE1 Top connectors to feed up to 8 (at 230V) or 4 (at 115V) fixtures                                                                                             |
| ● Data Connection                     | In and Out DMX 5 pin locking XLR connectors                                                                                                                                            |
| Thermal                               |                                                                                                                                                                                        |
| ● Ambient Operating Temperature       | 0°C - +40°C (32°F - 104°F)                                                                                                                                                             |
| ● Fan (controllable)                  | Yes, 4 different settings: Silent, Studio, Auto, DMX Regulated                                                                                                                         |
| Control Options                       |                                                                                                                                                                                        |
| ● Protocols                           | DMX512A, RDM (Remote Device Management), Wireless (Optional By LumenRadio)                                                                                                             |
| ● RDM configuration                   | Yes                                                                                                                                                                                    |
| ● DMX Channels                        | Manual / PO zoom version: 16 / 7 / 1 / Studio mode / RGB mode / fine RGB mode / Sunrise mode<br>Motorized zoom version: 17 / 8 / Studio mode / RGB mode / fine RGB mode / Sunrise mode |
| ● Display                             | Graphic OLED with on-board selector for quick setting                                                                                                                                  |
| ● Firmware upgrade                    | Through DMX with RDM Upgrade USB interface ( code AC10011A001)                                                                                                                         |
| Physical                              |                                                                                                                                                                                        |
| ● Yoke                                | Manual (standard) or Pole Operated Pan-Tilt (Optional)                                                                                                                                 |
| ● Materials                           | Extruded aluminum, flame-retardant technopolymer reinforced with fiberglass                                                                                                            |
| ● Weight                              | 9.5 Kg / 20.94 lbs (with Manual Yoke), 11 Kg / 24.25 lbs (with Pole Operated Yoke)                                                                                                     |
| ● Length                              | 425.6 mm / 16.76 in                                                                                                                                                                    |
| ● Width                               | 277.7 mm / 10.93 in (with Manual Yoke), 370 mm / 14.56 in (with Pole Operated Yoke)                                                                                                    |
| ● Height without yoke                 | 267.3 mm / 10.52 in                                                                                                                                                                    |
| ● Height with yoke                    | 384.2 mm / 15.13 in (with Manual Yoke), 558 mm / 21.96 in (with Pole Operated Yoke)                                                                                                    |
| ● IP Rating                           | IP20                                                                                                                                                                                   |
| ● Color options                       | Black (standard), custom color on request (optional)                                                                                                                                   |
| Included accessories                  |                                                                                                                                                                                        |
| BC10044A001                           | 8-Leaf Barndoor                                                                                                                                                                        |
| GKIT17 (USA) / GKIT16 (EU)            | 1.5 m power cable with PowerCON TRUE1 Top and bare ends                                                                                                                                |
| BC10044A005                           | Color frame holder                                                                                                                                                                     |



Otello 6 HD+ (manual zoom)  
Rear Panel with the new OLED display



Otello 6 HD+ with  
Pole Operated Yoke and Pole Operated Zoom

Otello 6 HD+ PO version / Rear Panel

DMX Charts - Manual version

#### 16 Channels

01 → Master Dimmer  
02 → Red  
03 → Green  
04 → Blue  
05 → Cyan  
06 → Lime  
07 → Amber  
08 → Strobe Effect  
09 → Dimmer Fine  
10 → Special Function  
11 → Red Tone  
12 → Green Tone  
13 → Blue Tone  
14 → White Tone  
15 → Green Saturation  
16 → Saturation

#### 7 Channels

01 → Master Dimmer  
02 → Red  
03 → Green  
04 → Blue  
05 → Cyan  
06 → Lime  
07 → Amber

#### Studio Mode

01 → Master Dimmer  
02 → White Tone  
03 → Green Saturation  
04 → Saturation  
05 → Hue  
06 → Dimmer Fine  
07 → Special Function

#### 1 Channel

01 → Master Dimmer - Color  
Temperature Settable by Display

#### RGB Mode

01 → Master Dimmer  
02 → Dimmer Fine  
03 → Red  
04 → Green  
05 → Blue  
06 → White Tone  
07 → Saturation  
08 → Strobe Effect  
09 → Special Function

#### Fine RGB Mode

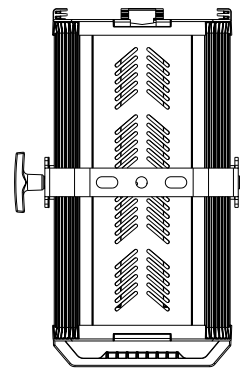
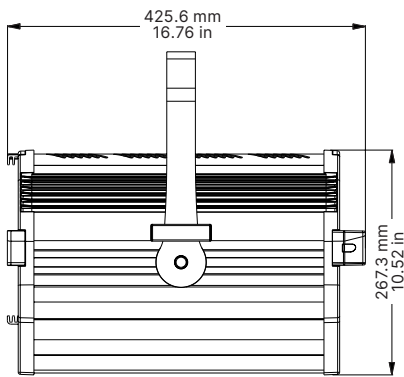
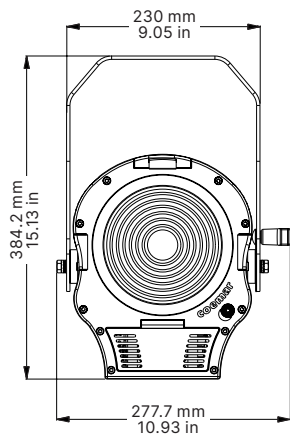
01 → Master Dimmer  
02 → Dimmer Fine  
03 → Red  
04 → Red Fine  
05 → Green  
06 → Green Fine  
07 → Blue  
08 → Blue Fine  
09 → White Tone  
10 → Saturation  
11 → Strobe  
12 → Special Function

#### Sunrise Mode

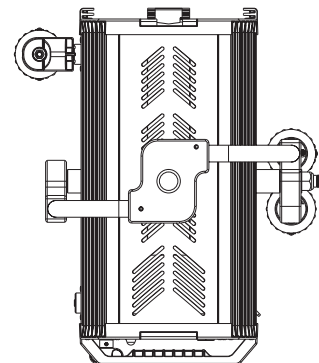
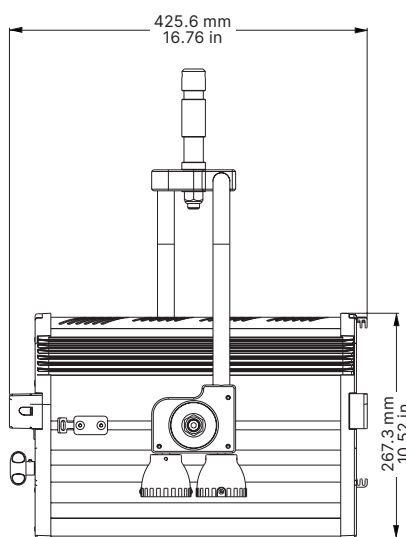
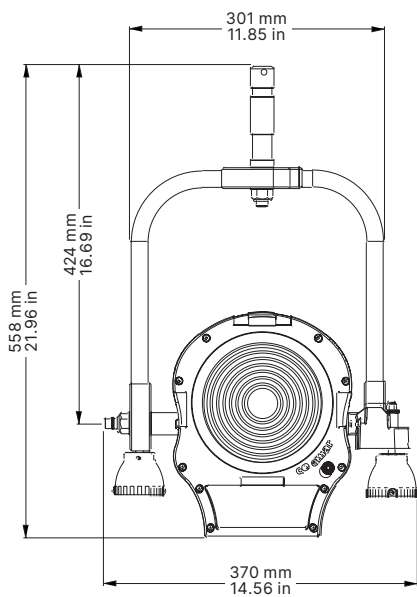
01 → Master Dimmer  
02 → Dimmer Fine  
03 → Proportional CCT  
04 → Step CCT  
05 → Green Saturation  
06 → Special Function

|                       |                       |                       |                       |
|-----------------------|-----------------------|-----------------------|-----------------------|
| <b>17 Channels</b>    | <b>8 Channels</b>     | <b>RGB Mode</b>       | <b>Fine RGB Mode</b>  |
| 01 → Master Dimmer    | 01 → Master Dimmer    | 01 → Master Dimmer    | 01 → Master Dimmer    |
| 02 → Red              | 02 → Red              | 02 → Dimmer Fine      | 02 → Dimmer Fine      |
| 03 → Green            | 03 → Green            | 03 → Red              | 03 → Red              |
| 04 → Blue             | 04 → Blue             | 04 → Green            | 04 → Red Fine         |
| 05 → Cyan             | 05 → Cyan             | 05 → Blue             | 05 → Green            |
| 06 → Lime             | 06 → Lime             | 06 → White Tone       | 06 → Green Fine       |
| 07 → Amber            | 07 → Amber            | 07 → Saturation       | 07 → Blue             |
| 08 → Strobe Effect    | 08 → Zoom             | 08 → Strobe Effect    | 08 → Blue Fine        |
| 09 → Dimmer Fine      |                       | 09 → Special Function | 09 → White Tone       |
| 10 → Special Function | <b>Studio Mode</b>    | 10 → Zoom             | 10 → Saturation       |
| 11 → Red Tone         | 01 → Master Dimmer    |                       | 11 → Strobe           |
| 12 → Green Tone       | 02 → White Tone       |                       | 12 → Special Function |
| 13 → Blue Tone        | 03 → Green Saturation |                       | 13 → Zoom             |
| 14 → White Tone       | 04 → Saturation       |                       |                       |
| 15 → Green Saturation | 05 → Hue              |                       | <b>Sunrise Mode</b>   |
| 16 → Saturation       | 06 → Dimmer Fine      |                       | 01 → Master Dimmer    |
| 17 → Zoom             | 07 → Special Function |                       | 02 → Dimmer Fine      |
|                       | 08 → Zoom             |                       | 03 → Proportional CCT |
|                       |                       |                       | 04 → Step CCT         |
|                       |                       |                       | 05 → Green Saturation |
|                       |                       |                       | 06 → Special Function |
|                       |                       |                       | 07 → Zoom             |

# Drawing Size - Manual Yoke Version



# Drawing Size - Pole operated Yoke Version



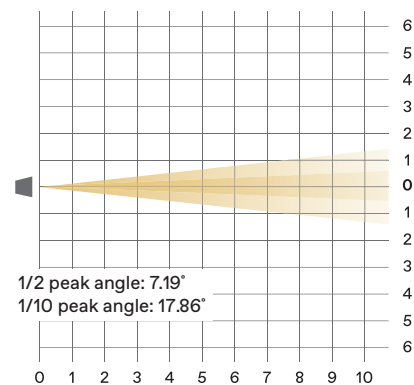
## Models

| Product                                                | Code      |
|--------------------------------------------------------|-----------|
| Otello 6 HD FullSpectrum + Manual Yoke, Manual Zoom    | F144Q090M |
| Otello 6 HD FullSpectrum + Manual Yoke, Motorized Zoom | F144Q000M |
| Otello 6 HD FullSpectrum + Pole Operated               | F144Q010M |

## Otello 6 HD FullSpectrum +

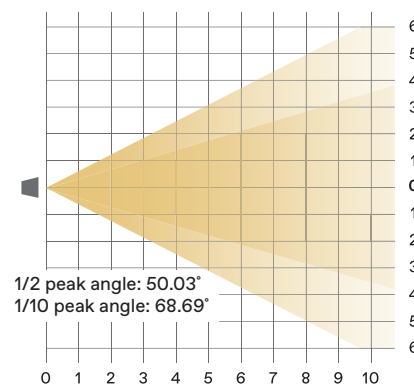
## Optic: Spot Zoom

| Distance(m)     | 1      | 2       | 3       | 4      | 5     | 6     | 7     | 8     | 9     | 10    |       |
|-----------------|--------|---------|---------|--------|-------|-------|-------|-------|-------|-------|-------|
| lux             | 3.200K | 128.625 | 32.156  | 14.292 | 8.039 | 5.145 | 3.573 | 2.625 | 2.010 | 1.588 | 1.286 |
|                 | 5.600K | 137.200 | 34.300  | 15.244 | 8.575 | 5.488 | 3.811 | 2.800 | 2.144 | 1.694 | 1.372 |
|                 |        |         |         |        |       |       |       |       |       |       |       |
| 1/2 P.A. Ø (m)  | 0,13   | 0,25    | 0,38    | 0,50   | 0,63  | 0,75  | 0,88  | 1,01  | 1,13  | 1,26  |       |
| 1/10 P.A. Ø (m) | 0,31   | 0,63    | 0,94    | 1,26   | 1,57  | 1,89  | 2,20  | 2,51  | 2,83  | 3,14  |       |
| lux             | 3.200K | CRI 95  | TLCI 96 |        |       |       |       |       |       |       |       |
|                 | 5.000K | CRI 96  | TLCI 96 |        |       |       |       |       |       |       |       |



## Optic: Flood Zoom

| Distance(m)     | 1      | 2      | 3       | 4     | 5    | 6    | 7    | 8     | 9     | 10    |     |
|-----------------|--------|--------|---------|-------|------|------|------|-------|-------|-------|-----|
| lux             | 3.000K | 12.690 | 3.173   | 1.410 | 793  | 508  | 353  | 259   | 198   | 157   | 127 |
|                 | 5.600K | 13.410 | 3.353   | 1.490 | 838  | 536  | 373  | 274   | 210   | 166   | 134 |
|                 |        |        |         |       |      |      |      |       |       |       |     |
| 1/2 P.A. Ø (m)  | 0,93   | 1,87   | 2,80    | 3,73  | 4,67 | 5,60 | 6,53 | 7,47  | 8,40  | 9,33  |     |
| 1/10 P.A. Ø (m) | 1,37   | 2,73   | 4,10    | 5,47  | 6,83 | 8,20 | 9,57 | 10,93 | 12,30 | 13,67 |     |
| lux             | 3.000K | CRI 97 | TLCI 95 |       |      |      |      |       |       |       |     |
|                 | 5.000K | CRI 95 | TLCI 96 |       |      |      |      |       |       |       |     |



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