

## DESCRIPTION

Building on more than 30 years of Chroma-Q innovation, the next generation Color Force 3™ delivers stunning output with a spectacular, richer color palette. The Color Force 3 produces the rich primaries, delicate pastels, and pure whites that you love. Every cue benefits from 20-bit internal dimming for flawless low-intensity fades and instant snaps.

Color Force 3 introduces SparQle™ pixels, a creative layer of bright white LEDs unlocking eye-catching effects from subtle twinkles to punchy micro-strobes. All wrapped in a rugged IP65 chassis.

The innovative flex-optics system allows for fast lens and accessory changes from the face of the fixture eliminating the need to re-focus fixtures.

Color Force 3 delivers flawless colour, seamless fades, and rock-solid reliability show after show.

## KEY FEATURES

### ColorSure 3™

Designed for applications where powerful and precise lighting is essential, including cyc, flood and wall washing. Color Force 3 delivers more than twice the output of Color Force II and a richer colour palette.

ColorSure 3 takes Chroma-Q's amazing colour calibration to the next level with deeper calibration and smoother control ensuring superior fixture to fixture consistency with a colour range that will continue to inspire creative lighting designers.

With multi-point CCT control from 2000K to 7100K

Color Force 3 incorporates precise green/magenta control for film and broadcast applications.

### SilkMotion

20-bit internal dimming

- Over a million steps internal resolution - minute-long fades stay glass-smooth with no stepping or shimmer.
- 24 kHz PWM @20-bit + adaptive smoothing algorithm - silent, camera-safe operation that still fires for near zero-latency strobe hits.

### SparQle

Get creative, with punchy 7000K sparkle LEDs above and below each cell. The pin-point beams can deliver high-impact eye-candy or subtle shimmers. Pixel mappable, SparQle™ unlocks a creative second layer for soft textures or intense eye-candy effects.

### FlexOptics™

With an innovative quick-change lens system, lenses and accessories can be quickly changed from the face of the fixture eliminating the need to re-focus fixtures when changing lenses. Enhanced on and off axis lens visibility ensures an extra-wide viewing angle.

## OTHER FEATURES

- IP65 Neutrik XLR 5pin and etherCON connectors with Art-Net / sACN / RDM connectivity
- Dual NFC points for fast and reliable iOS or Android fixture configuration
- Touchscreen interface and e-Ink display with fixture and networks settings instantly visible
- Trunnions with tilt degree markings and sliding omega brackets for precision positioning
- Optional LumenRadio TimoTwo for robust, reliable wireless DMX connectivity

## OPTICS

|                                       |                                                                                     |
|---------------------------------------|-------------------------------------------------------------------------------------|
| Hot lumen output (combined)           | CF3 12: 7,000 lm<br>CF3 48: 28,000 lm<br>CF3 72: 42,000 lm                          |
| Optics                                | Fully homogenised lenses                                                            |
| Beam angle                            | 18° (approx.)                                                                       |
| Beam angle with optional cyc optic    | 80 x 35° (approx.)                                                                  |
| Beam angle with optional border optic | 43° (approx.)                                                                       |
| Colour engine                         | Advanced RGBA ColorSure 3 calibrated engine using latest CQ3 colour science control |
| CCT                                   | Adjustable 2000K - 7100K<br>Extended 1000K - 10000K                                 |
| Tint control                          | +2/-2 Green                                                                         |
| CRI                                   | >90                                                                                 |
| TM-30 Rf, Rg                          | RF>90, RG >100                                                                      |
| SparQle hot lumen output (combined)   | CF3 12: 1,000 lm<br>CF3 48: 4,000 lm<br>CF3 72: 6,000 lm                            |
| SparQle beam angle                    | 15° (approx.)                                                                       |
| LED lifetime (hours)                  | L70 at 50,000 hours*<br>*Measured under manufacturer's test conditions              |

## CONNECTIONS

|                         |                                                                                                                          |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Power connectors in/out | Neutrik powerCON TRUE1 in and out                                                                                        |
| Data connectors in/out  | XLR 5-pin in and out<br>Ethernet in and out                                                                              |
| Wireless connections    | Optional LumenRadio module                                                                                               |
| NFC reader              | CF3 12: one on the display side<br>CF3 48 and CF3 72: one on the display side and one on the back under the serial label |

## ELECTRICAL

|                         |                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Power supply            | Built-in, multi-voltage                                                                                                       |
| Power input rating      | 100-240V AC 50-60Hz<br>CF3 12: 180VA<br>CF3 48: 700VA<br>CF3 72: 1100VA                                                       |
| Power factor            | 0.97 @ 120V AC<br>0.92 @ 230V AC                                                                                              |
| Power consumption       | CF3 12: 180W @ 120V AC, 180W @ 230V AC<br>CF3 48: 700W @ 120V AC, 700W @ 230V AC<br>CF3 72: 1100W @ 120V AC, 1100W @ 230V AC  |
| Idle power consumption  | CF3 12: 27W @ 120V AC, 30W @ 230V AC<br>CF3 48: 27W @ 120V AC, 30W @ 230V AC<br>CF3 72: 27W @ 120V AC, 30W @ 230V AC          |
| Earth leakage           | 0.18mA                                                                                                                        |
| Inrush current          | Up to 80A @120 VAC                                                                                                            |
| Max fixtures in series  | CF3 12: 5 @ 120V, 10 @ 230V<br>CF3 48: 2 @ 120V, 4 @ 230V<br>CF3 72: 1 @ 120V, 2 @ 230V                                       |
| Typical power & current | Measurements done with all LEDs at maximum intensity. Measurements made at nominal voltage. Allow for a deviations of +/- 10% |

## CONTROL

|                                        |                                                                                                                       |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Control protocol                       | ANSI E1.11 USITT DMX 512-A, Artnet / sACN / RDM                                                                       |
| Control modes                          | Main Cells: RGB, RGBA, RGB Compact, RGBA Compact, RGB Extended, RGBA Extended, all modes available in 8 bit or 16 bit |
| Number of controllable mixed source(s) | CF3 12: 4 RGBA, 8 SparQle<br>CF3 48: 16 RGBA, 32 SparQle<br>CF3 72: 24 RGBA, 48 SparQle                               |
| Dimming curve                          | Linear, Soft Rise, Fast Rise, S-Curve                                                                                 |
| Display                                | 4" graphic touch display and 1" e-ink                                                                                 |
| PWM frequency                          | Native ultra high speed PWM selectable from 24,000Hz at full 20bit to 96,000khz at 18bit                              |

## APPROVALS

|            |                                                                                                                                                                                                                                                                                                                                                                        |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals: | Certified/compliant to applicable UL, CSA, FCC, ICES, CE, IP65, photobiological safety, and RCM requirements, including UL 1573, UL 8750, CSA C22.2 No. 166, CSA C22.2 No. 250.13, FCC Part 15 Class A, ICES-005 Class A, EN 60598-2-17, EN 62031, IEC 60529 IP65, IEC 62471, EN 55015, EN 61547, EN IEC 61547, EN 55011, EN 55016, EN 61000-3, and EN 61000-4 series. |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## PHYSICAL

|                                              |                                                                          |
|----------------------------------------------|--------------------------------------------------------------------------|
| Cooling system                               | Combined convection & forced air                                         |
| Maximum surface temperature                  | Ta=26°C: (68°C, 154°F)                                                   |
| Operating temperature:                       | 0°C to 40°C (32°F to 104°F)                                              |
| Total heat dissipation (calculated, +/- 10%) | CF3 12: 615 BTU/hr<br>CF3 48: 2730 BTU/hr<br>CF3 72: 3755 BTU/hr         |
| Construction                                 | Powder coated aluminium extrusion                                        |
| Built-in hardware                            | Tilt-Lock, 2 accessory slots, safety bracket(s), quarter turn receptacle |
| IP rating                                    | IP65                                                                     |
| Mounting points                              | 2 Omega Bracket with adjustable mounting point included with fixture     |
| Idle sound level                             | Background noise + 2db                                                   |
| Max sound level                              | 32db at quiet mode                                                       |

### Color Force 3 12

|                           |                                              |
|---------------------------|----------------------------------------------|
| Dimensions (l x h x w)    | 325mm x 180mm x 215mm<br>12.8" x 7.1" x 8.5" |
| Weight                    | 6.9kg / 15.2lb                               |
| Shipping dimensions       | 432mm x 292mm x 400mm<br>17" x 11.5" x 15.7" |
| Shipping weight           | 9kg / 19.8lb                                 |
| Distance centre-to-centre | 325mm / 12.8"                                |

### Color Force 3 48

|                           |                                                |
|---------------------------|------------------------------------------------|
| Dimensions (l x h x w)    | 1,200mm x 180mm x 215mm<br>47.2" x 7.1" x 8.5" |
| Weight                    | 23.5kg / 51.8lb                                |
| Shipping dimensions       | 1,295mm x 292mm x 400mm<br>51" x 11.5" x 15.7" |
| Shipping weight           | 26.5kg / 58.4lb                                |
| Distance centre-to-centre | 1,200mm / 47.2"                                |

### Color Force 3 72

|                           |                                                |
|---------------------------|------------------------------------------------|
| Dimensions (l x h x w)    | 1,785mm x 180mm x 215mm<br>70.3" x 7.1" x 8.5" |
| Weight                    | 35kg / 77.2lb                                  |
| Shipping dimensions       | 1,880mm x 292mm x 400mm<br>74" x 11.5" x 15.7" |
| Shipping weight           | 38.5kg / 84.9lb                                |
| Distance centre-to-centre | 1,785mm / 70.3"                                |

## ORDERING INFORMATION

|             |                            |
|-------------|----------------------------|
| CQ1530-1200 | Color Force 3 12, black    |
| CQ1530-1201 | Color Force 3 12, white    |
| CQ1530-1205 | Color Force 3 12 RF, black |
| CQ1530-1206 | Color Force 3 12 RF, white |
| CQ1530-4800 | Color Force 3 48, black    |
| CQ1530-4801 | Color Force 3 48, white    |
| CQ1530-4805 | Color Force 3 48 RF, black |
| CQ1530-4806 | Color Force 3 48 RF, white |
| CQ1530-7200 | Color Force 3 72, black    |
| CQ1530-7201 | Color Force 3 72, white    |
| CQ1530-7205 | Color Force 3 72 RF, black |
| CQ1530-7206 | Color Force 3 72 RF, white |

## ACCESSORIES

### Color Force 3 12

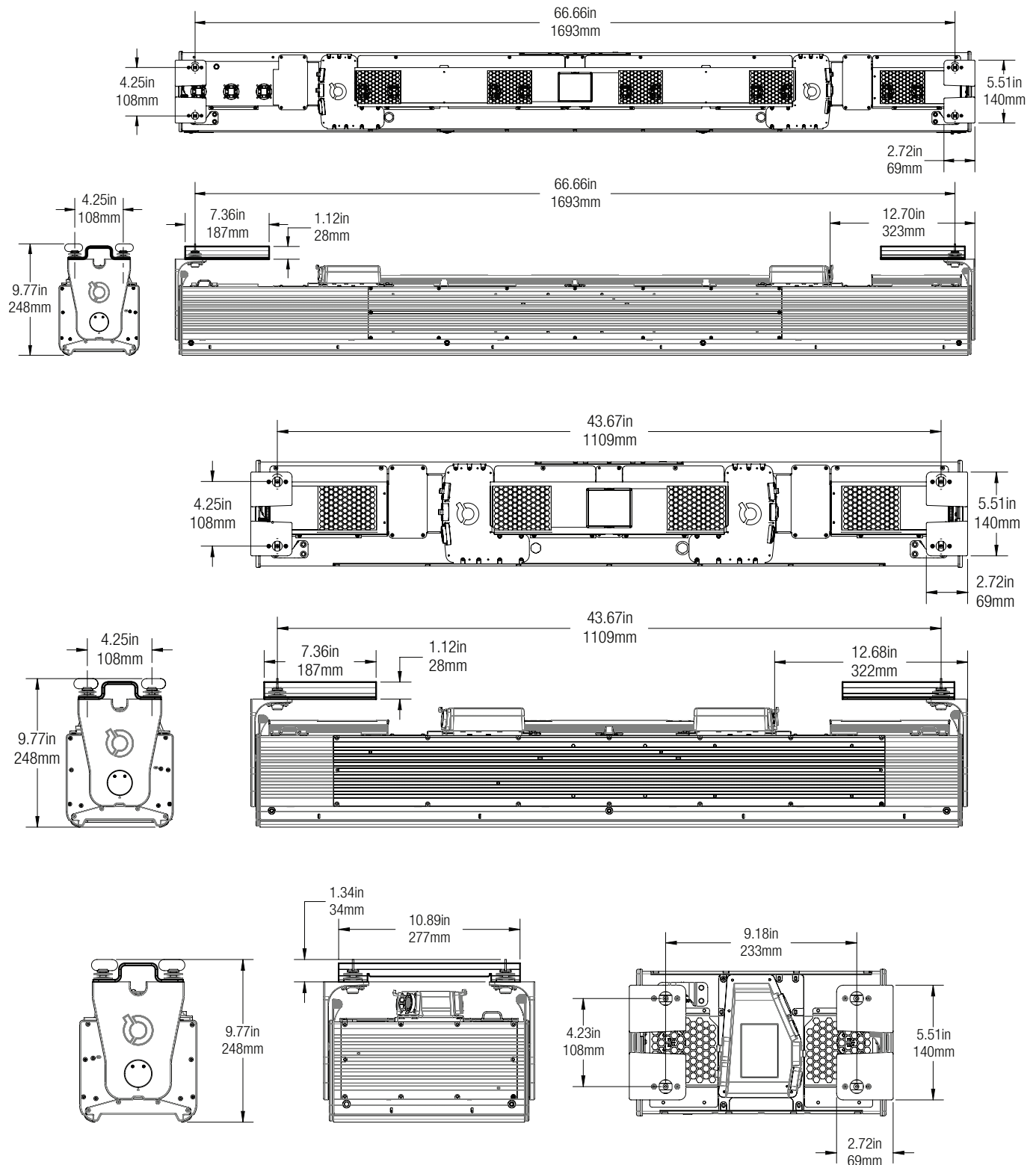
|             |                                        |
|-------------|----------------------------------------|
| CHCFBD12    | Barndoor, black                        |
| CHCFBD12W   | Barndoor, white                        |
| CHCFECL12   | Egg crate louvre, black                |
| CHCFTH12    | Top hat, black                         |
| CHCFH12     | Half top hat, black                    |
| CHCFZH12    | Zip hood                               |
| CHCFDBX     | Diffuser box, black                    |
| CHCFDBXW    | Diffuser box, white                    |
| CQ1530-9011 | CFL to CF3 12 accessory adapter, black |
| CQ1530-9012 | CFL to CF3 12 accessory adapter, white |

### All Models

|             |                                 |
|-------------|---------------------------------|
| CQ1530-9030 | CF3 12 border diffusion         |
| CQ1530-9040 | CF3 48 border diffusion         |
| CQ1530-9050 | CF3 72 border diffusion         |
| CQ1530-9031 | CF3 12 linear diffusion         |
| CQ1530-9041 | CF3 48 linear diffusion         |
| CQ1530-9051 | CF3 72 linear diffusion         |
| CQ1530-9032 | CF3 12 clear protector          |
| CQ1530-9042 | CF3 48 clear protector          |
| CQ1530-9052 | CF3 72 clear protector          |
| CQ1530-9033 | CF3 12 stealth ND 0.4 diffusion |
| CQ1530-9043 | CF3 48 stealth ND 0.4 diffusion |
| CQ1530-9053 | CF3 72 stealth ND 0.4 diffusion |
| CQ1530-9034 | CF3 12 lightshield              |
| CQ1530-9044 | CF3 48 lightshield              |
| CQ1530-9054 | CF3 72 lightshield              |
| CQ1530-9020 | RF LumenRadio kit option        |

PowerCON TRUE1 power cable included for North America only  
2 x ¼ turn brackets

## TECHNICAL DRAWINGS



Please contact:

