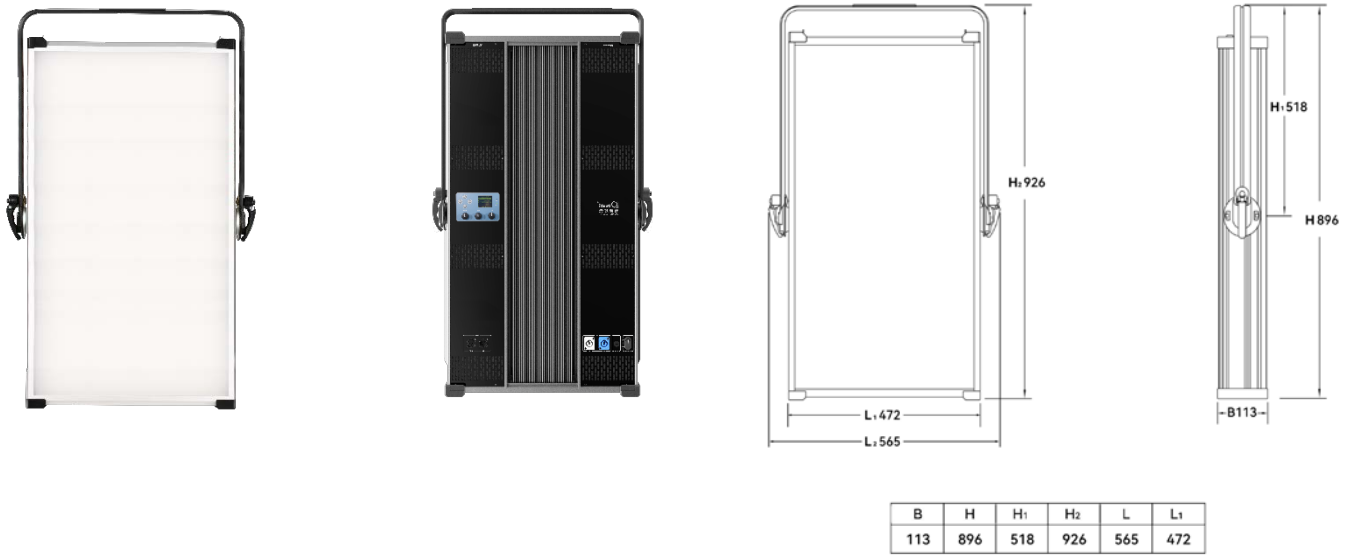
# 600 W Full-Color LED Broadcast & Studio Panel Light

## DD-SPC600




| B | H | H₁ | H₂ | L | L₁ |
|---|---|---|---|---|---|
| 113 | 896 | 518 | 926 | 565 | 472 |

## Full-Color LED Broadcast & Studio Panel Light

### Light Source

1. LED source: 3,600 × multicolor 2016 LED packages, nominal rating 0.6 W per package.
2. LED lifetime: 50,000–100,000 hours

### Power & Electrical

1. Input voltage: AC 100–240 V, 50/60 Hz
2. Maximum power consumption: 2700–10,000K white: 650W; Red only: 290W; Green only: 380W; Blue only: 380W.

### Control & Operation

1. Display: LCD display with Chinese and English menu interfaces; display size: 35 × 29 mm.
2. Control: DMX512 control and local control via buttons and rotary encoder for dimming, CCT and DUV adjustment.
3. Control protocol: DMX512 with RDM support.
4. DMX modes: 4-channel, 12-channel and 13-channel modes.
5. Dimming: 16-bit or higher smooth and linear flicker-free dimming with no perceptible delay; PWM frequency ≥28 kHz.
6. Dimming modes: 7 selectable dimming modes.
7. Cooling & Noise: Fanless cooling with no fan noise.
8. Operating ambient temperature: −25 °C to +40 °C
9. IP rating: IP20

### Color Performance & Optical Specifications

1. CCT: Adjustable from 2700 K to 10,000 K via DMX or the local rotary control, with smooth, linear transitions. DMX channel values correspond to specific CCT settings. During local adjustment, the selected CCT is shown on the display in 100 K increments. Brightness variation during CCT adjustment is ≤12%. CCT adjustment remains available at dimming levels down to 0.5%.
2. CRI (Ra): average ≥93
3. TLCI: average ≥93
4. TM-30: Rf: average ≥92, Rg: average ≥103
5. DUV(GM) adjustment: Positive and negative DUV adjustment from approximately +0.018 to −0.020. During DUV adjustment, CCT deviation is ≤5%, average CRI deviation is ≤10%, and average TLCI deviation is ≤10%.

6. Color control: 360° hue adjustment with independent saturation control. Includes 72 built-in preset colors and supports individual color-channel adjustment for custom color mixing. Multiple fixtures provide visually consistent color output with no obvious color difference.
7. Luminous flux:
2700K: 42,000lm; 3200K: 42,500lm; 5600K: 41,000lm; 10,000K: 29,000lm; Red: 6,700lm; Green: 19,000lm; Blue: 4,500lm.
8. Light-emitting area: 435 × 832 mm
9. Beam angle: 105° (FWHM, measured at 50% of center intensity).

## Construction & Standard Accessories

1. Housing material: Aluminum alloy.
2. Surface finish: Anodized or powder-coated finish; custom colors are available according to customer requirements.
3. Standard Accessories: Power input/output connectors and signal input/output connectors.
Optional Accessories: Diffusion panel, barn doors and anti-glare grid. Other accessories can be customized on request.

## Dimensions & Weight

1. Fixture dimensions: 57 × 15 × 98 cm.
2. Packing dimensions: Determined according to the customer's requirements
3. Net weight: 24.5 kg

## Illuminance at Various Throw Distances

| Throw Distance (m) | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 600W | 2700 K | Center (lx) | 13070 | 3952 | 1830 | 1106 | 756 | 561 | 435 | 355 | 292 | 243 | 199 | 169 | 144 | 126 |
| | 3200 K | Center (lx) | 13440 | 4061 | 1879 | 1136 | 777 | 577 | 448 | 366 | 302 | 250 | 205 | 175 | 149 | 129 |
| | 5600 K | Center (lx) | 14130 | 4275 | 1977 | 1193 | 811 | 599 | 469 | 382 | 315 | 262 | 215 | 184 | 157 | 136 |
| | 10,000 K | Center (lx) | 13540 | 4031 | 1898 | 1145 | 778 | 575 | 442 | 360 | 303 | 251 | 206 | 176 | 150 | 131 |
| | Red | Center (lx) | 1606 | 487 | 224 | 135 | 93 | 69 | 54 | 44 | 36 | 30 | 24 | 20 | 17 | 15 |
| | Green | Center (lx) | 8366 | 2516 | 1162 | 697 | 472 | 348 | 274 | 223 | 183 | 152 | 125 | 107 | 91 | 79 |
| | Blue | Center (lx) | 1607 | 467 | 211 | 133 | 89 | 69 | 50 | 40 | 33 | 27 | 22 | 18 | 17 | 15 |