Full-Color LED Broadcast & Studio Panel Light

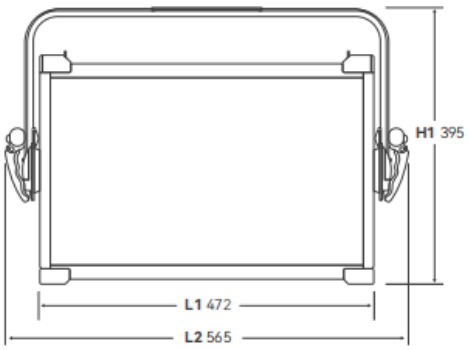
Models: DD-SPC300 / DD-SPC200

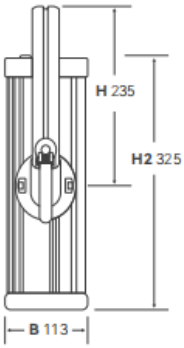
DunDi 敦帝灯光 DUNDI LIGHT











Full-Color LED Bro adcast & Studio Panel Light

Light Source

1. LED source: 1,200 × 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:

DD-SPC300 (300 W model): White output at 2700–10,000 K: 320 W; Red only: 70W; Green only: 130 W; Blue only: 130 W
DD-SPC200 (200 W model): White output at 2700–10,000 K: 210 W; Red only: 60 W; Green only: 110 W; Blue only: 110

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: The 300 W model uses intelligent variable-speed fan cooling. Fan speed automatically adjusts according to the fixture's output level. The fan stops when the dimming level is below 50%. At full output, fan noise measured at 1 m does not exceed 29 dBA. The 200 W model uses 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, TM30(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:
DD-SPC300/300W:2700K: 19,900lm; 3200K: 20,100lm; 5600K: 19,100lm; 10,000K: 18,100lm; Red: 2,600lm; Green: 7,200lm; Blue: 1,700lm
DD-SPC200/200W:2700K: 14,100lm; 3200K: 14,300lm; 5600K: 13,800lm; 10,000K: 13,100lm; Red: 2,300lm; Green: 6,700lm; Blue: 1,600lm
8. Light-emitting area: 435 × 255 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: Barn doors, power input/output connectors, and DMX signal input/output connectors. Additional accessories are available upon request and can be customized to meet specific customer requirements.
4. Diffusion panel: Removable and replaceable; alternative diffusion panels can be customized according to application requirements.
5. Barn doors: Removable and replaceable.
6. Anti-glare grid: Removable and replaceable; grids with different beam-control angles can be customized according to customer requirements.

Dimensions & Weight

1. Fixture dimensions: 57 × 15 × 39 cm with barn doors; 57 × 11.5 × 39 cm without barn doors.
2. Packing dimensions: 63 × 24 × 48 cm
3. Net weight: 11.1 kg (fixture: 9.5 kg; barn doors: 1.6 kg)
4. Gross weight: 12.8 kg

Illuminance at Various Throw Distances

DD-SPC300 / 300 W

Throw Distance (m)			1	2	3	4	5	6	7	8	9	10
300 W	2700 K	Center (lx)	9416	2354	1046	588	377	262	192	147	116	94
	3200 K	Center (lx)	9524	2381	1058	595	381	265	194	149	118	95
	5600 K	Center (lx)	8971	2243	997	561	359	249	183	140	111	90
	10,000 K	Center (lx)	8485	2121	943	530	339	235	173	132	105	85
	Red	Center (lx)	1360	340	151	85	54	38	28	21	17	14
	Green	Center (lx)	3564	891	396	223	143	99	73	56	44	36
	Blue	Center (lx)	885	221	98	55	35	25	18	14	11	9

DD-SPC200 / 200 W

Throw Distance (m)			1	2	3	4	5	6	7	8	9	10
200 W	2700 K	Center (lx)	6671	1668	741	417	267	185	136	104	82	67
	3200 K	Center (lx)	6777	1694	753	424	271	188	138	106	84	68
	5600 K	Center (lx)	6481	1620	720	405	259	180	132	101	80	65
	10,000 K	Center (lx)	6190	1547	688	387	248	172	126	97	76	62
	Red	Center (lx)	1111	278	123	69	44	31	23	17	14	11
	Green	Center (lx)	3336	834	371	208	133	93	68	52	41	33
	Blue	Center (lx)	828	207	92	52	33	23	17	13	10	8