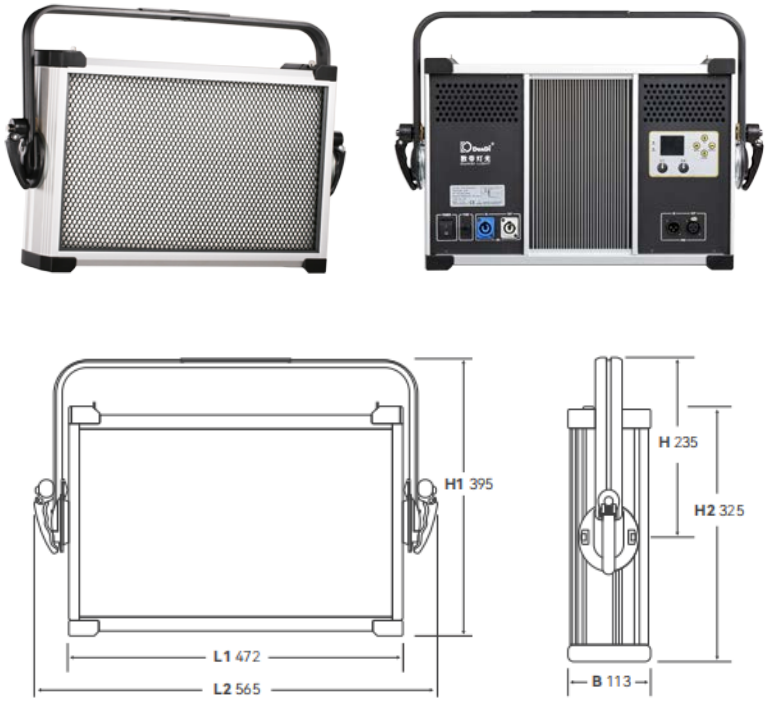
2700-6200 K Tunable White LED Broadcast & Studio Panel Light

Models: DD-SPW300 / DD-SPW200





2700-6200 K Tunable White LED Broadcast & Studio Panel Light

Light Source

1. LED source: 1,920 × 2835 LEDs, including 960 warm-white and 960 cool-white LEDs. Each LED is rated at 0.6 W and operated at only 0.2–0.35 W for high efficiency, low operating temperature and long service life.
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-SPW300 (300 W model): 310 W
DD-SPW200 (200 W model): 220 W
Continuous operating power remains stable without power reduction.

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 and CCT adjustment.
3. Control protocol: DMX512 with RDM support.
4. DMX modes: 3-channel and 4-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: 6 selectable dimming modes.

7. Cooling & Noise: The 300 W model uses intelligent variable-speed fan cooling, with fan speed automatically adjusted 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 6200 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. Deviation between the selected and measured CCT is ≤3%. Power variation during CCT adjustment is ≤4%, and brightness variation is ≤16%. CCT adjustment remains available at dimming levels down to 0.03%.
2. CRI (Ra): average ≥96
3. TLCI: average ≥96
4. TM-30: Rf: average ≥93, Rg: average ≥104
5. Luminous flux:
DD-SPW300 /300W: 6200K: 22,800 lm; 2700K: 20,100 lm
DD-SPW200 /200W: 6200K: 17,500 lm; 2700K: 16,100 lm
6. Light-emitting area: 435 × 255 mm
7. 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

Throw Distance (m)			1	2	3	4	5	6	7	8	9	10
300 W	2700 K	Center (lx)	9515	2379	1057	595	381	264	194	149	117	95
	6200 K	Center (lx)	11051	2763	1228	691	442	307	226	173	136	111
200 W	2700 K	Center (lx)	7416	1854	824	464	297	206	151	116	92	74
	6200 K	Center (lx)	8221	2055	913	514	329	228	168	128	102	82