3200-5600 K Tunable White LED Broadcast & Studio Panel Light

Models: DD-SP3256A / DD-SP3256B / DD-3256C





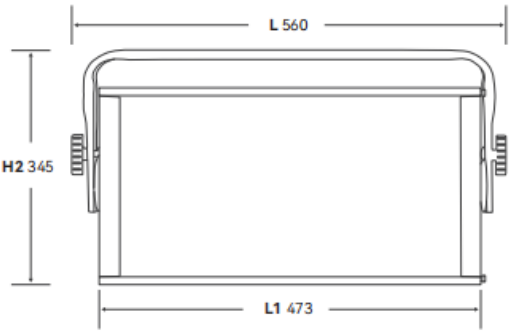


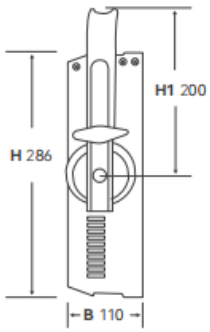


DD-SP3256A/300W	DD-SP3256B/200W	DD-SP3256C/150W









3200-5600K CCT tuneable 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: AC100-240V/50-60Hz.
2. Maximum power consumption:
DD-SP3256A /300W model: 310W
DD-SP3256A /200W model: 220W
DD-SP3256A /150W model: 160W
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 and 200 W models use 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 35 dBA for the 300 W model or 25 dBA for the 200 W model. The 150 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 3200 K to 5600 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 ≤8%. 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-SP3256A /300W: 5600K: 24,700 lm; 3200K: 22,800 lm
   DD-SP3256B /200W: 5600K: 18,100 lm; 3200K: 16,800 lm
   DD-SP3256C /150W: 5600K: 14,500 lm; 3200K: 13,200 lm
6. Light-emitting area: 420×260mm
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: 56 × 14.6 × 36 cm with barn doors; 56 × 11.5 × 34.5 cm without barn doors.
2. Packing dimensions: 62 × 23.5 × 42 cm
3. Net weight: 9.2 kg (fixture: 7.5 kg; barn doors: 1.7 kg)
4. Gross weight: 10.5 kg

Illuminance at Various Throw Distances

Throw Distance (m)			1	2	3	4	5	6	7	8	9	10
300 W	3200 K	Center (lx)	10877	2719	1209	680	435	302	222	170	134	109
	5600 K	Center (lx)	11726	2932	1303	733	469	326	239	183	145	117
200 W	3200 K	Center (lx)	8037	2009	893	502	321	223	164	126	99	80
	5600 K	Center (lx)	8366	2091	930	523	335	232	171	131	103	84
150 W	3200 K	Center (lx)	5926	1577	703	395	252	175	128	98	78	63
	5600 K	Center (lx)	6623	1656	736	414	265	184	135	103	82	66