2700-6500 K Tunable White LED Broadcast & Studio Fresnel Spotlight

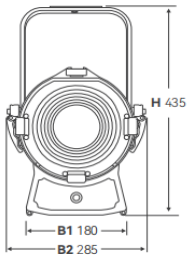


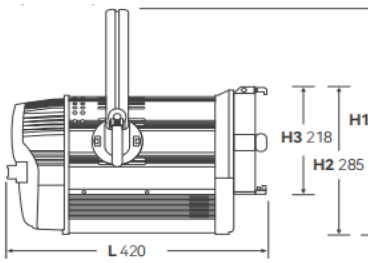


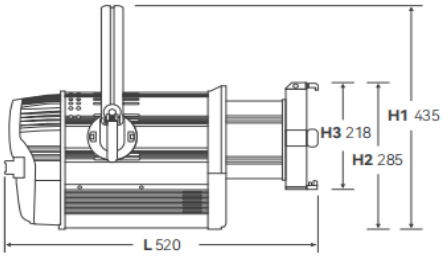




DD-SW300	DD-SW200







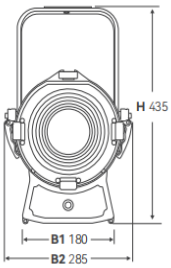


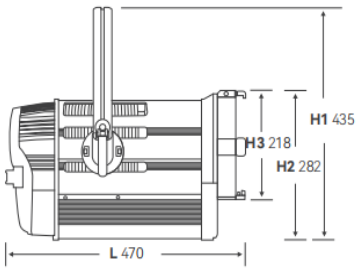


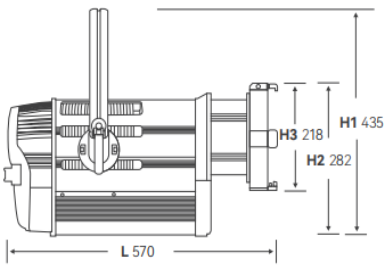




DD-SW200N Fanless







2700-6500 K Tunable White LED Broadcast & Studio Fresnel Spotlight

Light Source

1. LED source:
300 W version: 88 LEDs comprising 44 warm-white and 44 cool-white LEDs, each rated at 8 W.
200 W version: 88 LEDs comprising 44 warm-white and 44 cool-white LEDs, each rated at 5 W.
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-SW300/320W, DD-SW200/230W, DD-SW200N/230W.Continuous operating power remains stable without power reduction.

Control & Operation

1. Display: OLED display with Chinese and English menu interfaces; display size: 30 × 15 mm.
2. Control: DMX512 control and local control via buttons and rotary encoder for dimming, CCT and zoom adjustment.
3. Control protocol: DMX512 with RDM support.
4. DMX modes: 5-channel and 6-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. Zoom & position memory: Motorized zoom adjustable via DMX512 or the local rotary encoder. The fixture retains the last-used zoom position after power-off and resumes at that position when powered on; the zoom motor does not automatically reset.
8. Cooling & Noise: Intelligent variable-speed fan cooling; 200 W fanless version available. Fan speed automatically adjusts according to the fixture's output level. The fan stops when the dimming level is below 20%. Maximum fan noise at 1 m is ≤39 dBA for 300 W and ≤29 dBA for 200 W. The fanless version operates silently.
9. Operating ambient temperature: −25 °C to +40 °C
10. IP rating: IP20

Color Performance & Optical Specifications

1. **CCT:** Adjustable from 2700 K to 6500 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 ≤5%. Average CCT deviation between the narrowest and widest zoom settings is ≤3%. Average CCT deviation between the beam center and the position where illuminance falls to 50% of the peak value is ≤3%. CCT adjustment remains available at dimming levels down to 0.03%.
2. CRI (Ra): average ≥95
3. TLCI: average ≥95
4. TM30: Rf: average ≥92, Rg: average ≥97
5. Luminous flux:

300 W: 2700 K: 14500 lm;6500 K: 19100 lm
200 W: 2700 K: 11600 lm;6500 K: 14900 lm

6. Zoom: Motorized zoom from 12° to 60°.

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 signal input/output connectors.
   Additional accessories are available upon request and can be customized to meet specific customer requirements.
4. Barn doors: Detachable and replaceable; the barn-door assembly can rotate through 360°.

Fan-Cooled and Fanless Versions: The fanless version is available only for the 200 W model. Compared with the 200 W fan-cooled version, it has the same performance specifications but is 5 cm longer and 0.9 kg heavier. Pricing differs between versions.

Dimensions & Weight

Version	Fixture Size (cm)	Packing Size (cm)	N.W. (kg)	G.W. (kg)
Fan-Cooled	50×28.5×28.5	62×34×40	10.3 (Fixture 9.3 kg + Barn Doors 1.0 kg)	12
Fanless	55×28.5×28.5	62×34×40	11.2 (Fixture 10.2 kg + Barn Doors 1.0 kg)	13

Beam Diameter & Illuminance by Throw Distance

Throw Distance(m)		2	3	4	5	6	7	8	9	10	11	12	13	14	15
12° Beam Dia. (m)		0.42	0.62	0.84	1.05	1.26	1.47	1.68	1.89	2.1	2.31	2.52	2.73	2.94	3.2
60° Beam Dia. (m)		2.3	3.46	4.62	5.77	6.93	8.08	9.23	10.4	11.6	12.7	13.9	15	16.2	17.3
300W 2700K	12°Center(lx)	30882	13725	7720	4941	3431	2521	1930	1525	1235	1021	858	731	630	549
	60°Center(lx)	6492	2885	1623	1039	721	530	406	321	260	215	180	154	132	115
300W 6500K	12°Center(lx)	39934	17748	9983	6389	4437	3260	2496	1972	1597	1320	1109	945	815	710
	60°Center(lx)	8423	3743	2106	1348	936	688	526	416	337	278	234	199	172	150
200W 2700K	12°Center(lx)	25317	11252	6329	4051	2813	2067	1587	1250	1013	837	703	599	517	450
	60°Center(lx)	5027	2234	1257	804	559	410	314	248	201	166	140	119	103	89
200W 6500K	12°Center(lx)	31803	14134	7951	5088	3534	2596	1988	1571	1272	1051	883	753	649	565
	60°Center(lx)	6221	2765	1555	995	691	508	389	307	249	206	173	147	127	111