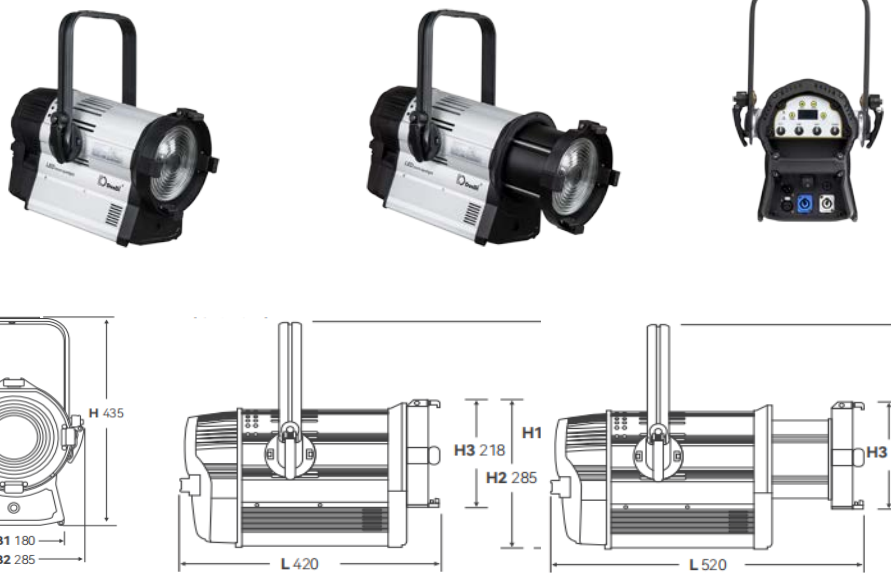
Full-Color LED Broadcast & Studio Fresnel Spotlight

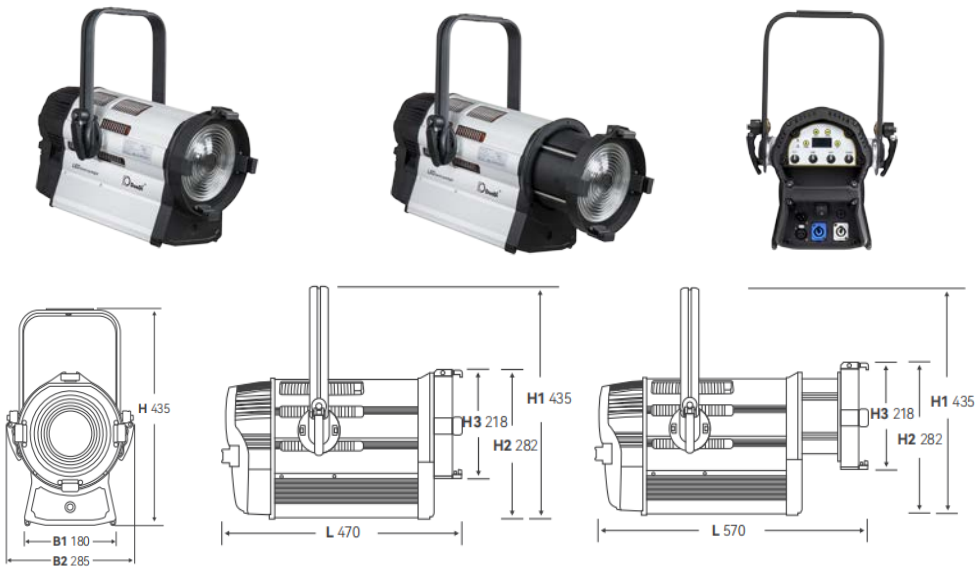
DD-SC200





DD-SC200N (Fanless)





Full-Color LED Broadcast & Studio Fresnel Spotlight

Light Source

1. LED source: 24 × multicolor 5050 LED packages, each with a nominal package rating of up to 24 W. Actual fixture power is electronically limited by the multi-channel drive system.
LED lifetime: 50,000–100,000 hours.

Power & Electrical

1. Input voltage: AC 100–240 V, 50/60 Hz
2. Maximum power consumption: 220W at 2700–10,000K white output; Red only: 55W; Green only: 110W; Blue only: 110W

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, DUV and zoom adjustment.
3. Control protocol: DMX512 with RDM support.
4. DMX modes: 6-channel, 14-channel and 15-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. 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: Available in fan-cooled and fanless versions. The fan-cooled version features intelligent variable-speed cooling, with fan speed automatically adjusted according to the fixture's output level. The fan stops when the dimming level is below 20%. At full output, fan noise measured at 1 m does not exceed 29 dB. The fanless version produces no fan noise.
9. Operating ambient temperature: −25 °C to +40 °C
10. 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%. 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 0.5%.
2. CRI (Ra): average ≥95
3. TLCI: average ≥95
4. TM-30: Rf: average ≥92, Rg: average ≥103
5. DUV (GM) Adjustment: Supports positive and negative adjustment over an approximate range of −0.020 to +0.018. During DUV adjustment, CCT deviation is ≤5%, average CRI deviation is ≤3%, and average TLCI deviation is ≤6%.
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:2700 K: 7100 lm,3200 K: 7400 lm,5600 K: 7500 lm,10,000 K: 6900 lm, Red: 480 lm, Green: 3200 lm, Blue: 760 lm.
8. Zoom: Motorized zoom from 16° 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 vs. Fanless Versions: Both versions share the same optical, color and control specifications. The fanless version is approximately 5 cm longer and 0.7 kg heavier than the fan-cooled version. Pricing varies by version.

Dimensions & Weight

Version	Fixture Size (cm)	Packing Size (cm)	N.W. (kg)	G.W. (kg)
Fan-Cooled	50X28.5X28.5	62X34X40	10.3 (Fixture 9.3 kg + Barn Doors 1.0 kg)	12
Fanless	55X28.5X28.5	62X34X40	11.2 (Fixture 10.2 kg + Barn Doors 1.0 kg)	13

Beam Diameter & Illuminance by Throw Distance

Throw Distance		2	3	4	5	6	7	8	9	10	11	12	13	14	15
16° Beam Dia. (m)		0.56	0.84	1.12	1.41	1.69	1.96	2.24	2.54	2.81	3.09	3.37	3.65	3.94	4.22
60° Beam Dia. (m)		2.3	3.46	4.62	5.77	6.93	8.08	9.23	10.39	11.55	12.7	13.86	15.01	16.16	17.32
2700K	16°Center(lx)	12827	5701	3206	2052	1425	1047	802	633	513	424	356	304	262	228
	60°Center(lx)	1929	857	482	309	214	157	121	95	77	64	54	46	39	34
3200K	16° Center (lx)	12871	5721	3218	2059	1430	1051	804	636	515	426	358	305	263	229
	60° Center (lx)	2023	899	506	324	225	165	126	100	81	67	56	48	41	36
5600K	16° Center (lx)	13368	5941	3342	2139	1485	1091	836	660	535	442	371	316	273	238
	60° Center (lx)	2013	895	503	322	224	165	126	99	81	67	56	48	41	36
Single red	16° Center (lx)	897	399	224	143	100	73	56	44	36	30	25	21	18	16
	60° Center (lx)	134	60	33	21	15	11	8	7	5	4	4	3	2	2
Single green	16° Center (lx)	5613	2495	1403	898	624	458	351	277	225	186	156	133	115	100
	60° Center (lx)	874	388	218	140	97	71	55	43	35	29	24	21	18	16
Single blue	16° Center (lx)	1307	581	327	209	145	107	82	65	52	43	36	31	27	23
	60° Center (lx)	209	93	52	33	23	17	13	10	8	7	6	5	4	3