Full-Color LED Broadcast & Studio Fresnel Spotlight

USER MANUAL

Models: DD-SC200 / DD-SC200N



Package Contents

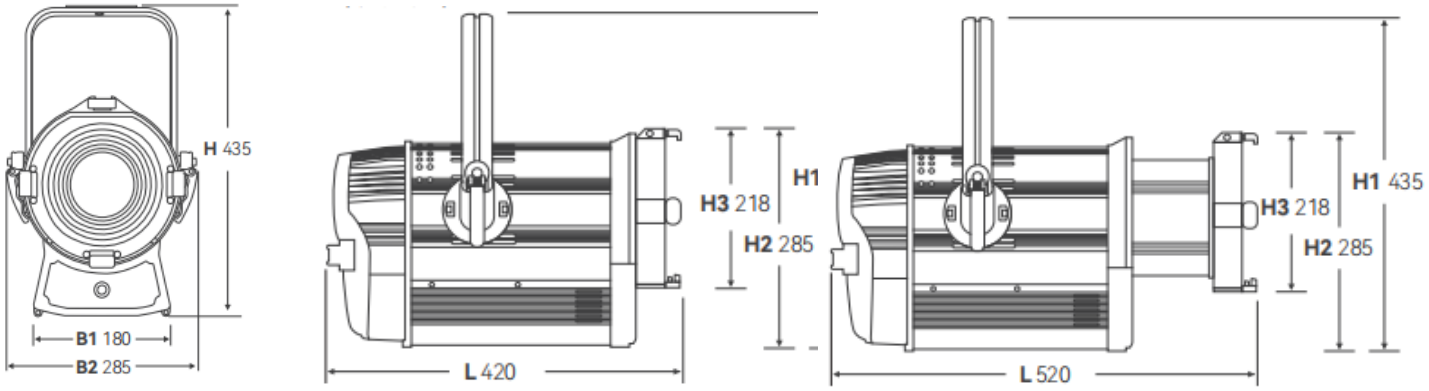
- 1 × Full-Color LED Broadcast & Studio Fresnel Spotlight
- 1 × set of barn doors
- 1 × pair of power input/output connectors
- 1 × pair of 3-pin DMX input/output connectors

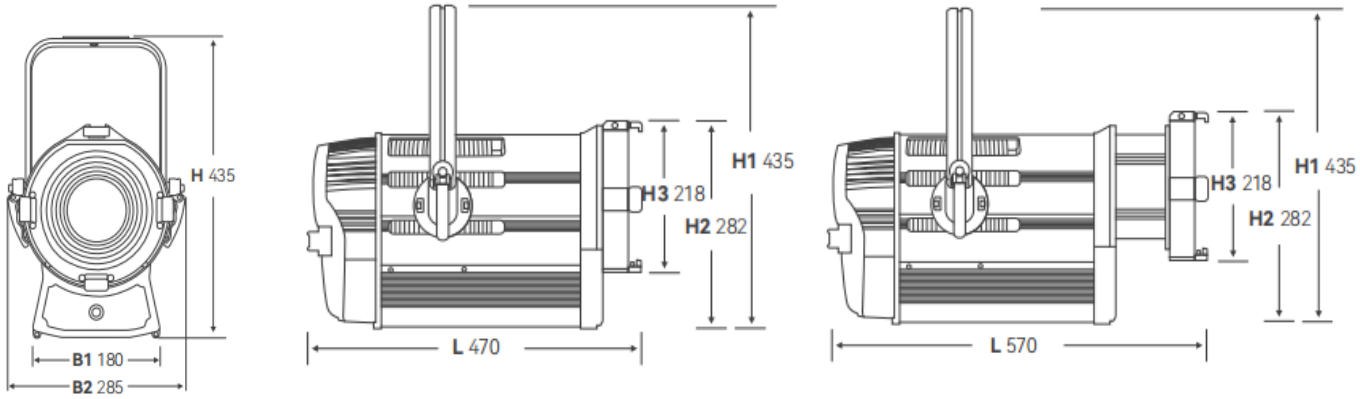
1. Product Overview

- **Input Voltage:** AC 100–240 V, 50/60 Hz
- **Rated Power:** 230 W
- **CCT:** 2700–10,000 K adjustable
- **Dimming:** 16-bit or higher smooth and linear flicker-free dimming
- **Dimming Modes:** 7 selectable dimming modes
- **Control:** DMX512 control and local control via buttons and rotary encoder for dimming, CCT, DUV(GM) and zoom adjustment.
- **Main Functions:** Positive/negative DUV(GM) adjustment, 360° hue adjustment, saturation adjustment, RDM support, and strobe function
- **Zoom:** Motorized zoom
- **Beam Angle:** Adjustable from 16° to 60°
- **Dimensions:** 50 × 28.5 × 28.5 cm
- **Net Weight:** 10.3 kg (fixture 9.3 kg + barn doors 1.0 kg)

IMPORTANT: When linking multiple fixtures through power input/output connections, connect no more than 8 fixtures per power-link group. Use a grounded 3 × 2.5 mm² power cable.

2. Fixture Dimensions





3. DMX Channel Functions

The fixture supports 6-channel, 14-channel, and 15-channel DMX modes.

6-Channel Mode

CH	Function / Description
1	Master Dimmer
2	CCT: 2700–10,000 K adjustable. Each CCT range corresponds to a defined DMX value.
3	DUV Adjustment: positive/negative DUV adjustment.
4	Motorized Zoom: DMX value 000 = maximum beam angle; 255 = minimum beam angle.
5	Motor Reset: values 000–244 = inactive. Set to 245–255 and hold for more than 5 seconds to start motor reset. After reset is complete, return the channel value to 000.
6	Strobe

14-Channel Mode

CH	Function / Description
1	Master Dimmer
2	CCT: 2700–10,000 K adjustable. Each CCT range corresponds to a defined DMX value.
3	DUV Adjustment: values 0–5 = no adjustment; 6–255 = negative-to-positive DUV adjustment. Value 6 = maximum negative DUV; value 255 = maximum positive DUV. Values 110–150 cover the region around DUV 0.
4	Function Switch: values 128–255 activate the switch function. When active, CH 2 and CH 3 are disabled.
5	Red Dimmer
6	Green Dimmer
7	Blue Dimmer
8	Warm White Dimmer
9	Hue: values 000–004 = inactive; 005–255 = 360° hue adjustment. When active, CH 2, 3, 5, 6, 7, 8 and 11 are disabled.
10	Saturation Adjustment
11	Color Presets: 72 built-in color presets, each assigned to a DMX value range. When active, CH 2, 3, 5, 6, 7, 8 and 10 are disabled.
12	Motorized Zoom: DMX value 000 = maximum beam angle; 255 = minimum beam angle.
13	Motor Reset: values 000–244 = inactive. Set to 245–255 and hold for more than 5 seconds to start motor reset. After reset is complete, return the channel value to 000.
14	Strobe

15-Channel Mode

CH	Function / Description
1	Master Dimmer
2	16-bit Dimmer Fine
3	CCT: 2700–10,000 K adjustable. Each CCT range corresponds to a defined DMX value.
4	DUV Adjustment: values 0–5 = no adjustment; 6–255 = negative-to-positive DUV adjustment. Value 6 = maximum negative DUV; value 255 = maximum positive DUV. Values 110–150 cover the region around DUV 0.
5	Function Switch: values 128–255 activate the switch function. When active, CH 3 and CH 4 are disabled.
6	Red Dimmer
7	Green Dimmer
8	Blue Dimmer
9	Warm White Dimmer

CH	Function / Description
10	Hue: values 000–004 = inactive; 005–255 = 360° hue adjustment. When active, CH 3, 4, 6, 7, 8 and 9 are disabled.
11	Saturation Adjustment: values 0–255; value 255 = maximum saturation.
12	Color Presets: 72 built-in color presets, each assigned to a DMX value range. When active, CH 3, 4, 6, 7, 8, 9 and 11 are disabled.
13	Motorized Zoom: DMX value 000 = maximum beam angle; 255 = minimum beam angle.
14	Motor Reset: values 000–244 = inactive. Set to 245–255 and hold for more than 5 seconds to start motor reset. After reset is complete, return the channel value to 000.
15	Strobe

4. Master/Slave Operation

Set the DMX address of all fixtures to 001 and disconnect the DMX signal. On any one fixture, set the Master option in the menu to ON. Select the required function on the master fixture using the function controls. All connected fixtures will then operate in synchronization.

5. CCT & Color Preset DMX Value Reference

CCT DMX Value Reference

DMX Value	CCT	DMX Value	CCT
0–2	2700 K	111–113	6400 K
3–5	2800 K	114–116	6500 K
6–8	2900 K	117–119	6600 K
9–11	3000 K	120–122	6700 K
12–14	3100 K	123–125	6800 K
15–17	3200 K	126–128	6900 K
18–20	3300 K	129–131	7000 K
21–23	3400 K	132–134	7100 K
24–26	3500 K	135–137	7200 K
27–29	3600 K	138–140	7300 K
30–32	3700 K	141–143	7400 K
33–35	3800 K	144–146	7500 K
36–38	3900 K	147–149	7600 K
39–41	4000 K	150–152	7700 K
42–44	4100 K	153–155	7800 K
45–47	4200 K	156–158	7900 K
48–50	4300 K	159–161	8000 K
51–53	4400 K	162–164	8100 K
54–56	4500 K	165–167	8200 K
57–59	4600 K	168–170	8300 K
60–62	4700 K	171–173	8400 K
63–65	4800 K	174–176	8500 K
66–68	4900 K	177–179	8600 K
69–71	5000 K	180–182	8700 K
72–74	5100 K	183–185	8800 K
75–77	5200 K	186–188	8900 K
78–80	5300 K	189–191	9000 K
81–83	5400 K	192–194	9100 K
84–86	5500 K	195–197	9200 K
87–89	5600 K	198–200	9300 K
90–92	5700 K	201–203	9400 K
93–95	5800 K	204–206	9500 K
96–98	5900 K	207–209	9600 K
99–101	6000 K	210–212	9700 K
102–104	6100 K	213–215	9800 K
105–107	6200 K	216–218	9900 K
108–110	6300 K	219–255	10000 K

Color Preset DMX Value Reference

DMX Value	Color Preset	DMX Value	Color Preset
5–7	L024	113–115	L088
8–10	L025	116–118	L089
11–13	L026	119–121	L090
14–16	L027	122–124	L115
17–19	L029	125–127	L116
20–22	L035	128–130	L117
23–25	L036	131–133	L118
26–28	L046	134–136	L119
29–31	L048	137–139	L120
32–34	L049	140–142	L121
35–37	L105	143–145	L122
38–40	L106	146–148	L123
41–43	L004	149–151	L061
44–46	L008	152–154	L063
47–49	L009	155–157	L068
50–52	L010	158–160	L071
53–55	L013	161–163	L075
56–58	L015	164–166	L079
59–61	L017	167–169	L085
62–64	L019	170–172	L124
65–67	L020	173–175	L125
68–70	L021	176–178	L126
71–73	L022	179–181	L127
74–76	L102	182–184	L128
77–79	L100	185–187	L052
80–82	L101	188–190	L053
83–85	L103	191–193	L058
86–88	L104	194–196	L129
89–91	L107	197–199	L130
92–94	L108	200–202	L131
95–97	L109	203–205	L132
98–100	L110	206–208	L133
101–103	L111	209–211	L134
104–106	L112	212–214	L135
107–109	L113	215–217	L136
110–112	L114	218–255	L137