CCT Tunable LED Zoom Profile Spotlight (DUNDI)

Standard Version

DD–PT1020A（10°-20°/300W）
DD–PT1530A（15°-30°/300W）
DD–PT2550A（25°-50°/300W）
DD–PT1020B（10°-20°/200W）
DD–PT1530B（15°-30°/200W）
DD–PT2550B（25°-50°/200W）

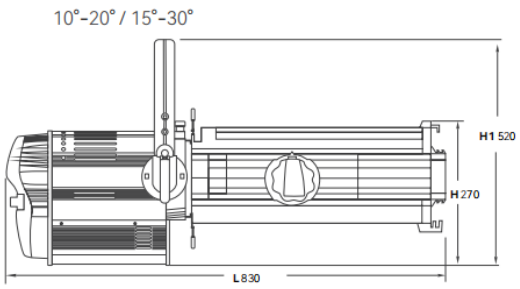


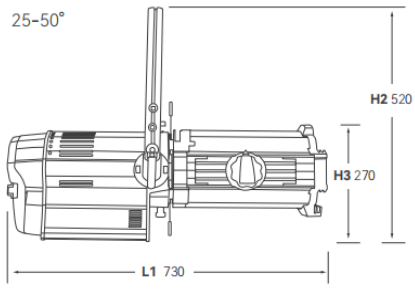
10° -20° /15° -30

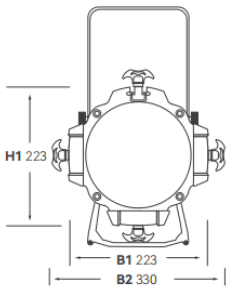


25° -50°









Fanless Version

DD–PT1020N（10°-20° fanless）
DD–PT1530N（15°-30° fanless）
DD–PT2550N（25°-50° fanless）

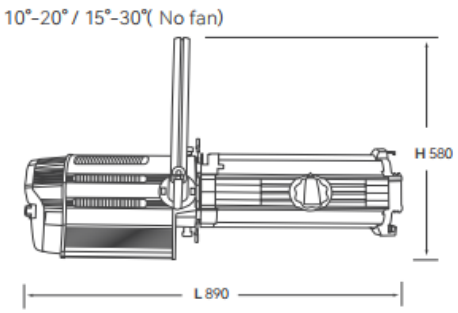


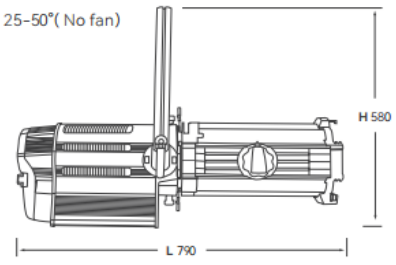
10° -20° /15° -30°

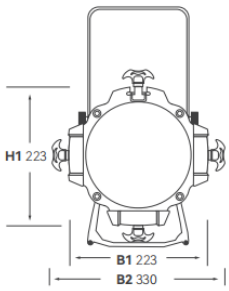


25° -50°









CCT Tunable LED Zoom Profile Spotlight(DUNDI)

Features & Specifications

Light source

1. LED source:
300 W: 88 × bi-color LEDs, including 44 warm-white and 44 cool-white LEDs, 8 W rated power per LED
200 W: 88 × bi-color LEDs, including 44 warm-white and 44 cool-white LEDs, 5 W rated power per LED
2. LED lifetime: 50,000–100,000 hours.

Power & Electrical

1. Input voltage: AC 100–240 V, 50/60 Hz
2. Maximum power consumption: 320 W or 230 W,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 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. Zoom: Manual adjustment. Focus: Manual focus adjustment.
8. Cooling & Noise: Intelligent variable-speed fan cooling; 200 W fanless version available. Fan speed automatically adjusts with fixture output, and the fan stops below 20% output. 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: Continuously adjustable from 2700 K to 6500 K with smooth, linear adjustment via DMX or local rotary control. The corresponding CCT value is shown on the display. Adjustment is available in 100 K increments, CCT accuracy ≤3%, power variation ≤5%, Average CCT deviation between narrow and wide beam angles is ≤3%. Beam CCT uniformity: Average CCT deviation between the beam center and surrounding area, Average CCT deviation between the beam center and the outermost edge of the projected beam: ≤6%.. CCT remains adjustable at output levels down to 0.03%.
2. CRI (Ra): average ≥95
3. TLCI: average ≥95
4. TM30(Rf): average ≥92, TM30(Rg): average ≥97
5. Luminous flux: 300W: 2700K: 8200 lm; 6500K: 10400 lm， 200W: 2700K: 6600 lm; 6500K: 8300 lm
6. Zoom ranges: 10°–20°, 15°–30°, 25°–50°
7. Optical system: The light passes through a multi-element optical system incorporating seven optical elements, producing a clean and highly uniform projected beam with no yellow or blue fringing no chromatic dispersion, no visible dark patterns, minimal chromatic dispersion, excellent color mixing and no ghosting or double-image effect.

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: Optical diffusion plate, 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. Iris & gobo holder: Optional iris and gobo holder available upon request.

Fan-Cooled vs. Fanless Versions: Fanless versions are available only for the 200 W model.. Performance specifications are the same as the fan-cooled version, except that the fanless version is 6 cm longer, 1.1 kg heavier, and differently priced.

Dimensions & Weight

Model / Zoom Range	Inner size /cm （cm）	Packing size/cm	NW/kg	GW/kg
10°–20°(Fan-Cooled)	87X29X29	94X31.5X33	14.8	16.8
15°–30°(Fan-Cooled)	87X29X29	94X31.5X33	15.1	17.1
25°–50°(Fan-Cooled)	77X29X29	85X31.5X33	14.5	16.3
10°–20°(Fanless)	93X29X29	99X31.5X33	16	18
15°–30°(Fanless)	93X29X29	99X31.5X33	16.3	18.3
25°–50°(Fanless)	83X29X29	94X31.5X33	15.7	17.5

Beam Diameter & Illuminance at Various Throw Distances

10°–20° CCT Tunable LED Zoom Profile Spotlight

Throw Distance (m)		3	6	8	10	12	14	16	18	20	22	24	26	28	30
10° Beam Diameter (m)		0.53	1.05	1.4	1.75	2.1	2.45	2.8	3.15	3.5	3.85	4.2	4.55	4.9	5.25
20° Beam Diameter (m)		1.03	2.12	2.83	3.53	4.23	4.94	5.64	6.35	7.05	7.76	8.46	9.7	9.87	10.58
300W 2700K	10° Center (lx)	16875	4219	2373	1518	1055	775	593	469	379	314	264	225	194	169
	20° Center (lx)	6650	1662	935	598	415	305	233	184	149	123	104	88	76	66
300W 6500K	10° Center (lx)	20956	5239	2947	1886	1310	962	737	582	472	389	327	279	241	210
	20° Center (lx)	8626	2156	1213	777	539	396	303	240	194	161	135	114	100	87
200W 2700K	10° Center (lx)	13502	3376	1899	1215	843	620	475	375	303	251	211	179	156	135
	20° Center (lx)	5513	1378	775	496	345	253	193	153	124	103	86	73	64	55
200W 6500K	10° Center (lx)	16515	4128	2323	1486	1032	758	581	458	372	307	259	219	190	165
	20° Center (lx)	6862	1716	965	618	428	315	241	191	155	128	107	92	78	69

15°–30° CCT Tunable LED Zoom Profile Spotlight

Throw Distance (m)		3	4	5	6	7	8	9	10	12.5	15	17.5	20
15° Beam Diameter (m)		0.79	1.05	1.32	1.58	1.84	2.11	2.37	2.63	3.16	3.95	4.61	5.27
30° Beam Diameter (m)		1.61	2.14	2.68	3.22	3.75	4.29	4.82	5.36	6.7	8.04	9.38	10.72
300W 2700K	15° Center (lx)	12045	6775	4336	3011	2212	1694	1338	1084	694	482	354	271
	30° Center (lx)	3605	2028	1298	901	662	507	401	324	208	144	106	81
300W 6500K	15° Center (lx)	15837	8908	5701	3959	2908	2227	1760	1425	958	634	465	356
	30° Center (lx)	4770	2683	1717	1183	876	671	530	429	275	191	140	107
200W 2700K	15° Center (lx)	9490	5338	3416	2372	1743	1335	1054	854	547	380	279	214
	30° Center (lx)	3124	1757	1125	781	574	439	347	281	180	125	92	70
200W 6500K	15° Center (lx)	12323	6931	4436	3081	2263	1733	1369	1109	710	493	362	277
	30° Center (lx)	4058	2283	1461	1015	745	571	451	365	234	162	119	91

25°–50° CCT Tunable LED Zoom Profile Spotlight

Throw Distance (m)		3	4	5	6	7	8	9	10	11	12	13	14	15
25° Beam Diameter (m)		1.33	1.77	2.22	2.66	3.1	3.55	3.99	4.43	4.88	5.32	5.76	6.21	6.65
50° Beam Diameter (m)		2.8	3.73	4.66	5.6	6.52	7.46	8.39	9.32	10.3	1.21	12.12	13.05	14
300W 2700K	25° Center (lx)	3141	1766	1130	785	577	442	349	283	234	196	167	145	126
	50° Center (lx)	904	508	325	226	166	127	100	81	67	56	48	42	36
300W 6500K	25° Center (lx)	4310	2424	1551	1077	792	606	479	388	320	270	230	197	172
	50° Center (lx)	1357	763	488	339	249	191	151	122	101	84	72	63	54
200W 2700K	25° Center (lx)	2582	1453	930	646	474	364	287	232	192	161	138	119	103
	50° Center (lx)	789	444	284	198	145	111	88	71	59	49	42	37	32
200W 6500K	25° Center (lx)	3323	1869	1196	831	610	467	369	299	247	208	177	153	133
	50° Center (lx)	1058	595	381	265	194	149	118	95	79	66	56	49	42