

Profile 650

Last update:
09/10/2025



Profile 650

Introducing

● The Profile 650 is a high-performance white LED fixture and a versatile zoom range from 6° to 56°. It features smooth electronic dimming, a 7-color wheel with CRI boosting filter, and dual rotating gobo wheels for creative pattern projection. The fixture includes an infinite rotatable framing system and dual prisms for sharp, dynamic light effects. Designed for quiet operation with intelligent fan modes, it supports DMX, RDM, sACN, and optional wireless control. Compact, durable, and reliable, the Profile 650 is ideal for professional theater, broadcast, and installation lighting with superior power and precision.

Key Features



● CMY color mixing



● CRI ≥ 70 or ≥ 90



● CTO all whites from 3.200 K \rightarrow 6.200 K



● High lumen flux and flat field



● Motorized zoom from 6° to 56°



● Motorized framing system, adjustable over 90°



● Black body, custom color on request (optional)

General

● LED Source	650 W White LED module
● CCT Range	● ● ● ● ● 3.200 K → 6.200 K
● Color Rendition Average	CRI ≥70 or ≥90
● Dimming	Electronic dimming with 4 dimming curve options and 4 dimming speed options
● Framing System	Four blade motorized framing system, each shutter blade is adjustable for radial position and angle 90° rotation of the entire system
● Available Optics	Motorized zoom from 6° to 56° (HD optical lens with anti-reflection coating)
● Strobe	Synchronized, random or pulse electronic strobe
● Color Wheel	7 color filters plus open (included a CRI boost filter), can be bidirectional scrolling, can create effects of rainbow, stepping, sliding fade and random color mode
● Rotating Gobo Wheel	7 gobos, the gobos can be indexing and bi-directional rotating, can be self-rotation, create effects of flowing water and shaking, the gobo wheel can be accurately controlled at 16 bit
● Fixed Gobo Wheel	8 gobos + 1 open, the gobo wheel can create bidirectional flowing effect
● Prisms	2 prisms, one is 4-facet linear and one is 6-facet circle, can be independent and overlapping combined, can be bidirectional rotating, can be auto-focus. Two atomized frosts with high-bright output
● Iris	Fast motorized iris 5-100% linear adjustment, with macro function and multi-effects changeable
● Calibrated Cob	Yes
● L80 Rating (hours to 80% output)	50.000 Hours

Electrical

● Voltage Input	100-240 V, 50/60 Hz
● Power Consumption	800 W Maximum - $\cos\phi$ 0.98
● Power Connection	In PowerCON
● Data Connection	In and Out DMX 3 or 5 pin locking XLR connectors, RJ45 (optional)

Thermal

● Ambient Operating Temperature	-20°C to 40°C (-4°F to 104°F)
● Fan (controllable)	Fan settings with 4 different options (Quiet, Theater, High and Auto, ideal for broadcast and theatre installation)

Control

● Protocols	DMX-512, RDM (Remote Device Management), Wireless
● RDM configuration	Yes
● DMX Channels	60 / 35 / 32
● Display	Graphic LCD display

Physical

● Movement	540° (Pan), 270° (Tilt), 16 bit movement Mechanical Pan lock for safe transportation and maintenance
● Weight	34 kg / 74.96 lbs
● Length	417 mm / 16.42 in
● Height (head straight up)	767 mm / 30.19 in
● Width	417 mm / 16.42 in
● IP Rating	IP20
● Color options	Black

60 Channels

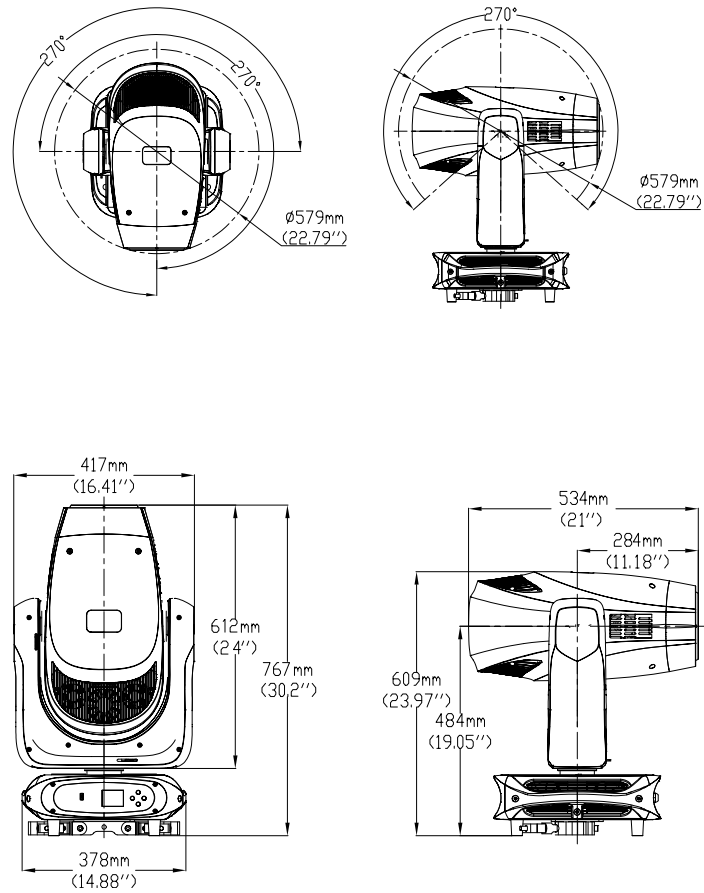
01 → x axis, base movement (pan) coarse
 02 → x axis, base movement (pan) fine
 03 → y axis, base movement (tilt) coarse
 04 → y axes, base movement (tilt) fine
 05 → Strobe
 06 → Master Dimmer
 07 → Dimmer Fine
 08 → Focus
 09 → Fous Fine
 10 → Zoom
 11 → Zoom Fine
 12 → Cyan
 13 → Cyan Fine
 14 → Magenta
 15 → Magenta Fine
 16 → Yellow
 17 → Yellow Fine
 18 → CTO
 19 → CTO Fine
 20 → Color Wheel
 21 → Color Wheel Fine
 22 → Gobo 1
 23 → Gobo 1 Rotate
 24 → Gobo 1 Rotate Fine
 25 → Iris
 26 → Iris Fine
 27 → Fixed Gobo
 28 → Fixed Gobo Fine
 29 → Prism 1
 30 → Prism 1 Fine
 31 → Framing Blade 1A
 32 → Framing Blade 1A Fine
 33 → Framing Blade 1B
 34 → Framing Blade 1B Fine
 35 → Framing Blade 2A
 36 → Framing Blade 2A Fine
 37 → Framing Blade 2B
 38 → Framing Blade 2B Fine
 39 → Framing Blade 3A
 40 → Framing Blade 3A Fine
 41 → Framing Blade 3B
 42 → Framing Blade 3B Fine
 43 → Framing Blade 4A
 44 → Framing Blade 4A Fine
 45 → Framing Blade 4B
 46 → Framing Blade 4B Fine
 47 → Framing Blade Rotate
 48 → Framing Blade Rotate Fine
 49 → Prism 2
 50 → Prism Rotate
 51 → Frost
 52 → Fixture Control
 53 → Pan/Tilt Speed
 54 → Color Speed
 55 → Focus/Zoom Speed
 56 → Gobo Speed
 57 → Reserved
 58 → Reserved
 59 → Reserved
 60 → Reserved

35 Channels

01 → x axis, base movement (pan) coarse
 02 → Master Dimmer
 03 → Dimmer Fine
 04 → Cyan
 05 → Magenta
 06 → Yellow
 07 → CTO
 08 → Color Wheel
 09 → Gobo 1
 10 → Gobo 1 Rotate
 11 → Gobo 1 Rotate Fine
 12 → Fixed Gobo
 13 → Prism 1
 14 → Framing Blade 1A
 15 → Framing Blade 1B
 16 → Framing Blade 2A
 17 → Framing Blade 2B
 18 → Framing Blade 3A
 19 → Framing Blade 3B
 20 → Framing Blade 4A
 21 → Framing Blade 4B
 22 → Framing Blade Rotate
 23 → Frost
 24 → Prism 2
 25 → Prism Rotate
 26 → Iris
 27 → Zoom
 28 → Zoom Fine
 29 → Focus
 30 → Focus Fine
 31 → x axis, base movement (pan) coarse
 32 → x axis, base movement (pan) fine
 33 → y axis, base movement (tilt) coarse
 34 → y axes, base movement (tilt) fine
 35 → Fixture Control

32 Channels

01 → x axis, base movement (pan) coarse
 02 → x axis, base movement (pan) fine
 03 → y axis, base movement (tilt) coarse
 04 → y axes, base movement (tilt) fine
 05 → Strobe
 06 → Master Dimmer
 07 → Dimmer Fine
 08 → Focus
 09 → Zoom
 10 → Cyan
 11 →Magenta
 12 → Yellow
 13 → CTO
 14 → Color Wheel
 15 → Gobo 1
 16 → Gobo 1 Rotate
 17 → Iris
 18 → Fixed Gobo
 19 → Prism 1
 20 → Framing Blade 1A
 21 → Framing Blade 1B
 22 → Framing Blade 2A
 23 → Framing Blade 2B
 24 → Framing Blade 3A
 25 → Framing Blade 3B
 26 → Framing Blade 4A
 27 → Framing Blade 4B
 28 → Framing Blade Rotate
 29 → Prism 2
 30 → Prism Rotate
 31 → Frost
 32 → Fixture Control



Gobos and filters

Color Wheel



Rotating Gobos



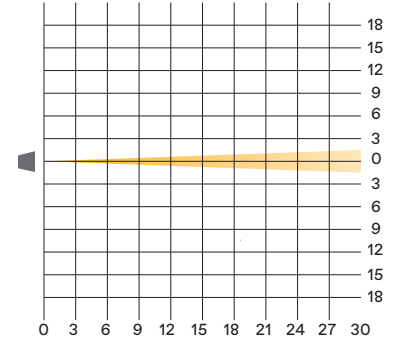
Static Gobos



PHOTOMETRIC DATA - CRI > 90

Zoom min.

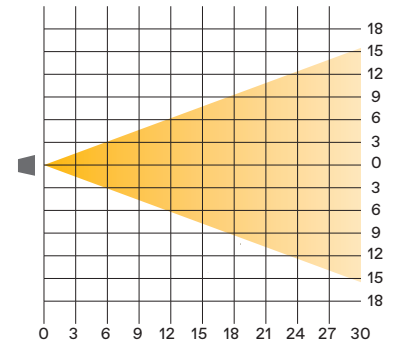
Distance (m)	3	6	9	12	15	18	21	24	27	30
lux	115619	28905	12847	7226	4625	3112	2360	1807	1427	1156
Diameter Ø (m)	0.31	0.63	0.94	1.26	1.57	1.89	2.20	2.52	2.83	3.14



Beam angle: 6°

Zoom max.

Distance (m)	3	6	9	12	15	18	21	24	27	30
lux	1858	465	206	116	74	52	38	29	23	19
Diameter Ø (m)	3.19	6.38	9.57	12.76	15.95	19.14	22.33	25.52	28.71	31.90

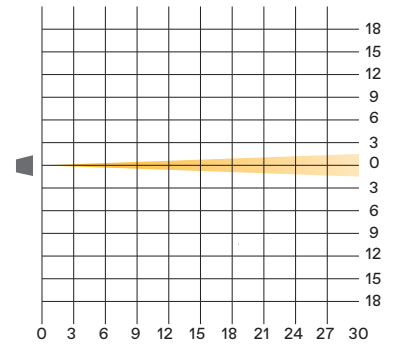


Beam angle: 56°

PHOTOMETRIC DATA - CRI > 70

Zoom min.

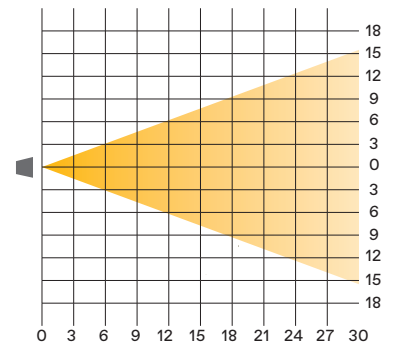
Distance (m)	3	6	9	12	15	18	21	24	27	30
lux	181111	45278	20123	11319	7244	5031	3696	2830	2236	1811
Diameter Ø (m)	0.31	0.63	0.94	1.26	1.57	1.89	2.20	2.52	2.83	3.14



Beam angle: 6°

Zoom max.

Distance (m)	3	6	9	12	15	18	21	24	27	30
lux	3028	757	336	189	121	84	62	47	37	30
Diameter Ø (m)	3.19	6.38	9.57	12.76	15.95	19.14	22.33	25.52	28.71	31.90



Beam angle: 56°

● Coemar Lighting S.r.l.

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