



Type(s)
Project
Date
Notes

OVERVIEW

Fixture Overview

A companion hybrid fixture to the High End Systems Sola Series 1000 family, the SolaHyBeam 1000 is lightweight and compact, yet offers punchy output and stunning effects for small to mid-sized venues. Utilizing a 440-watt Bright White LED source, the fixture outputs 20,000 lumens and features a unique beam/wash optical design.

SolaHyBeam 1000 excels in any environment where sheer quality of light, versatility and power are the key requirements. A fixed color wheel plus CMY/CTO system gives lighting designers precise color control, while the rotating gobo wheel, Iris, LED animation effects and dual wash/beam zoom modes produce the mind-blowing visuals High End Systems automated lighting pioneered. SolaHyBeam 1000 also features patented technologies such as Active Thermal Control and Lens Defog System.

Applications

- Concert lighting
- Theatres of all sizes
- Opera houses
- High school auditorium and theatre
- Community centers
- Film and television broadcast studios
- Churches and houses of worship

Product Features

- Bright white LED engine
- 440 W High CRI engine producing 20,000 lumens
- High quality optic system with patented Lens Defogger
- Versatile powerful 7°-50° zoom
- CMY/CTO-Linear color mixing system
- Seven position plus open replaceable Color Wheel
- 16-blade iris for extremely tight beam effects
- Dual diffusion system for smooth integrated light and heavy frosted looks
- Six position plus open Rotating Gobo Wheel
- LED Engine Animation effects
- Patented lens defogger

ORDERING INFORMATION

SolaHyBeam 1000

Model	Description
H7010029	SolaHyBeam 1000 in Road Case

Color Options: Fixtures ship standard in black. White available by request.

Included Accessories: Fixture includes two (2) Omega brackets, one (1) fixture power cord, bare ends to powerCON® TRUE1® input, and a safety cable.

Accessories

Model	Description
2560B7009	Fixture Power Cord upgrade, 5-15 Edison to powerCON TRUE1, 15 A
2560B7005	Fixture Power Cord upgrade, Stage Pin to powerCON TRUE1, 20 A
2560B7006	Fixture Power Cord upgrade, L6-20 to powerCON TRUE1, 20 A
2560B7007	Fixture Power Cord upgrade, L5-20 to powerCON TRUE1, 20 A
67040007	MegaClaw™
55040014	Cheeseborough 2" Alloy 1/2 Coupler Truss Clamp
67040010	Mini-Claw™



PRODUCT SPECIFICATIONS

Source

Engine	Ultra-Bright
LED Details	440 W
Integrating Sphere Lumens	20,000 lumens
LPW	45
LED Life	50,000 hours
Native CCT	6,500 K
Transferable Light Engine	Yes

Color

Color Mixing	Cyan, magenta, yellow, CTO-linear
Color Temperature	Down to 2,800K
Color Wheel	Seven (7) interchangeable dichroic chips plus open

Optical

Beam Angle Range	Beam - 7°–45° Wash - 10°–50°
Gate Size	28 mm
Pattern Projection	Rotating and indexable wheel with six (6) patterns plus open
Animation	LED Animation
Frost	Light and heavy diffusions
Iris	16 blade iris
Flicker Control/Hz Range	2.4 kHz

Control

Input Method	DMX (5-pin) or Ethernet
Protocols	DMX 512, ArtNet, sACN, or RDM
Ethernet Pass-Thru	Passive Ethernet in and thru with and without power
Data Conversion	Patented data conversion system for: DMX to Ethernet Ethernet to DMX
Modes (Footprint)	One (32)
RDM Functions	Yes
UI Type	Full color graphical UI with 6 button navigational control
Local Control	Yes
Dimming Performance	16-bit, DMX controlled

Notes: All LED sources experience some lessening of light output and some color shift over time. LED output will vary with thermal conditions. Thermal conditions can be affected by ambient temperatures and orientation.

Electrical

Voltage Range	100–240VAC, 50–60 Hz
Input Method	powerCON TRUE1
Wattage (Standard/+Defogger)	628 W / 670 W
Current (Max)	6.7 A @ 100 V

Thermal

Ambient Operating Temp	0°–45°C (32°–113°F)
Fan Mode	Three Modes: Standard, Continuous, Studio
Stationary Noise	38 dBA at full intensity (32 dBA background noise)
Lens Defogging	Patented Lens Defogger included

Physical

Pan and Tilt Range	540° pan, 265° tilt
Max Pan/Tilt Speed	360° in 2.11 s / 180° in 1.25 s
Materials	Steel and aluminum frame with molded plastic covers
Color Options	Black, white by request
Mounting Options	Any orientation
IP Rating	IP20
Weight	34 kg (75 lb)
Included Accessories	powerCON TRUE1 to bare end fixture tail Two (2) clamp brackets Safety cable

Warranty

Fixture Warranty	Two (2) year for complete fixture Five (5) year for light engine
Warranty Details	highend.com/warranty

Regulatory & Compliance

Regulatory Standards	Listed to UL 1573 Certified to CSA STD. C22.2 No: 166 EAC
CE compliance declared to these standards	Safety: EN 60598-1, EN 60598-2-17, EN 62031, EN 62471 EMC: EN 55015, EN 61547, EN 61000-3-2, EN 6100-3-3
Complies to the ROHS directive	Yes

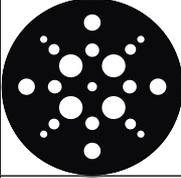
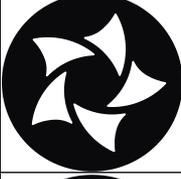
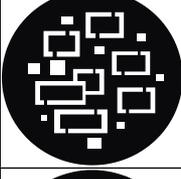
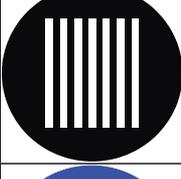
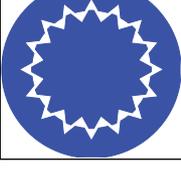
Safety

Safety	Minimum distance to illuminated surface = 0.5 m (1.64 ft) Minimum distance from fixture head to combustible materials = 0.5 m (1.64 ft)
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OPTICAL INFORMATION

Rotating Gobo Details

Outside Diameter	30 mm (1.18 in)
Image Diameter	25 mm (0.98 in)
Materials	0.5 mm aluminum 1.1 mm glass Borofloat®

	1 - Spokes
	2 - Dots
	3 - Perfora
	4 - Monovekto
	5 - Bars
	6 - Psych

Color Wheel Details

Shape	Interchangeable wedge
Materials	1.1 mm glass Borofloat

	1 - Red
	2 - Blue
	3 - Green
	4 - Yellow
	5 - Orange
	6 -Purple
	7- Dark Blue

PHOTOMETRIC INFORMATION

SolaHyBeam 1000 - Beam Mode

Mode	Degree	Candela	Field Lumens	Power Usage	Lumens Per Watt
Narrow Beam	7	795,400	14,600	440	34
Wide Beam	45	70,100	19,600	440	45
Narrow Wash	10	708,400	12,300	440	28
Wide Wash	50	58,300	17,000	440	39

Narrow - 7° Beam

Throw Distance	10 ft 3.0 m	20 ft 6.1 m	30 ft 9.1 m	50 ft 15.2 m	200 ft 61 m
Beam Diameter	1.2 ft 0.38 m	2.4 ft 0.75 m	3.7 ft 1.12 m	6.1 ft 1.87 m	24.5 ft 7.46 m
Illuminance (fc)	7,954	1,989	884	319	20
Illuminance (lux)	85,585	21,396	9,509	3,423	214

Wide - 45° Beam

Throw Distance	10 ft 3.0 m	20 ft 6.1 m	30 ft 9.1 m	50 ft 15.2 m	200 ft 61 m
Beam Diameter	8.3 ft 2.53 m	16.6 ft 5.06 m	24.9 ft 7.58 m	41.4 ft 12.63 m	165.7 ft 50.51 m
Illuminance (fc)	701	176	78	29	2
Illuminance (lux)	7,536	1,884	837	301	19

Narrow - 10° Wash

Throw Distance	10 ft 3.0 m	20 ft 6.1 m	30 ft 9.1 m	50 ft 15.2 m	200 ft 61 m
Field Diameter	1.7 ft 0.54 m	3.5 ft 1.07 m	5.2 ft 1.60 m	8.7 ft 2.67 m	35.0 ft 10.67 m
Illuminance (fc)	7,084	1,771	788	284	18
Illuminance (lux)	76,217	19,054	8,469	3,049	191

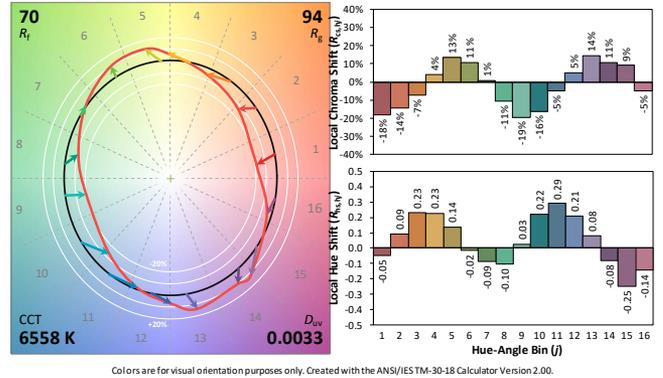
Wide - 50° Wash

Throw Distance	10 ft 3.0 m	20 ft 6.1 m	30 ft 9.1 m	50 ft 15.2 m	200 ft 61 m
Field Diameter	9.3 ft 2.85 m	18.7 ft 5.69 m	28.0 ft 8.53 m	46.6 ft 14.22 m	186.5 ft 56.86 m
Illuminance (fc)	583	146	65	24	2
Illuminance (lux)	6,273	1,568	697	251	16

To determine center beam illumination in footcandles at any throw distance, divide candela by the throw distance squared.

Metric conversions: For meters, multiply feet by 0.3048.
For lux, multiply footcandles by 10.76.

ANSI/IES TM-30-18 Color Rendition Report



Additional Color Metrics

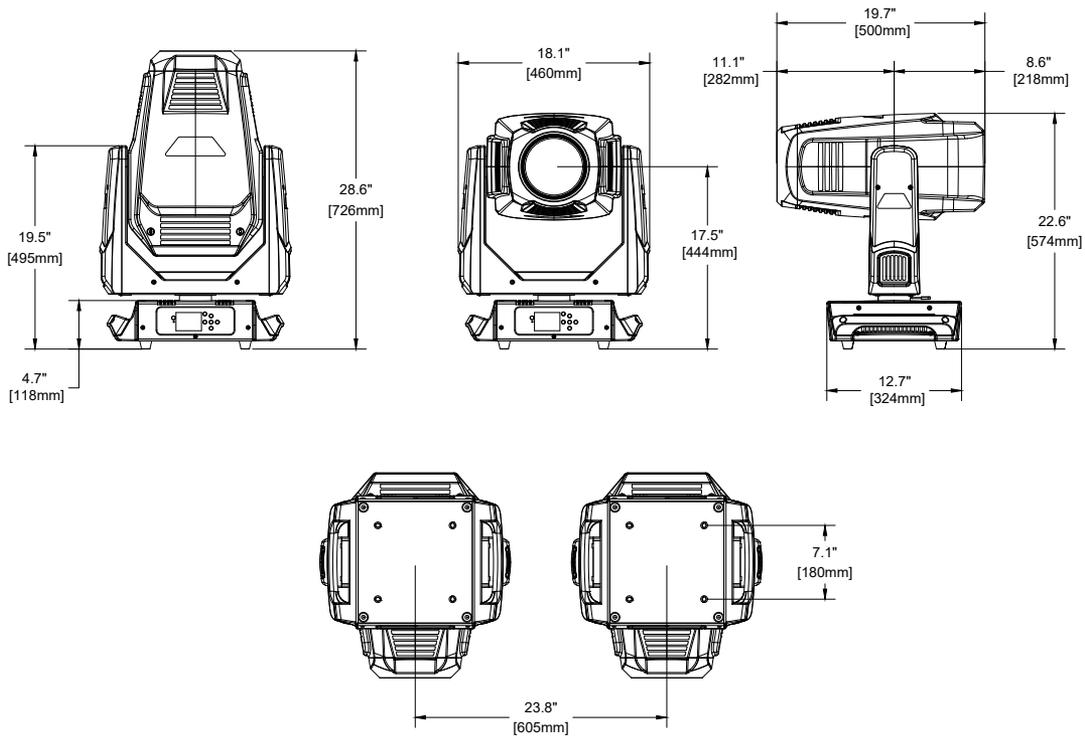
	SolaHyBeam 1000 Ultra-Bright Engine
CRI R_a (R_g)	70 (-34)
TLCI	45

PHYSICAL INFORMATION

SolaHyBeam 1000 Dimensions

Model	Height		Width		Depth		Weight	
	in	mm	in	mm	in	mm	lb	kg
SolaHyBeam 1000*	28.6	726	18.1	460	12.7	324	61	28
SolaHyBeam 1000 in Roadcase	23	584.2	24	609.6	37	939.8	150	68.04

*Does not include mounting hardware



SolaHyBeam 1000 Power Table

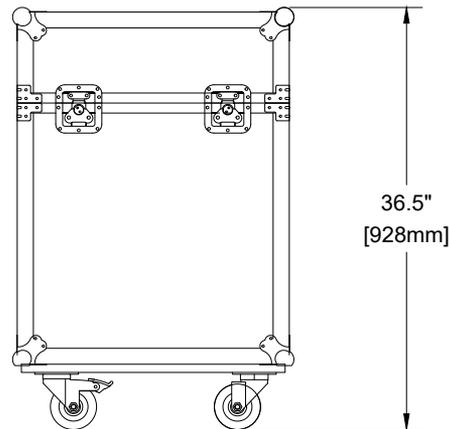
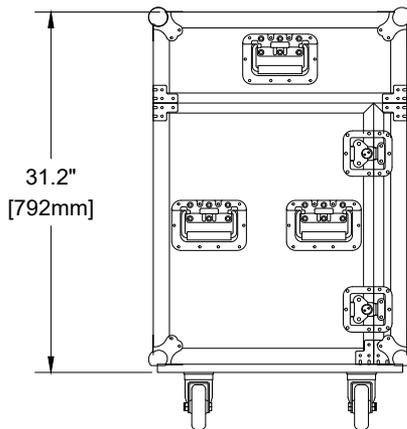
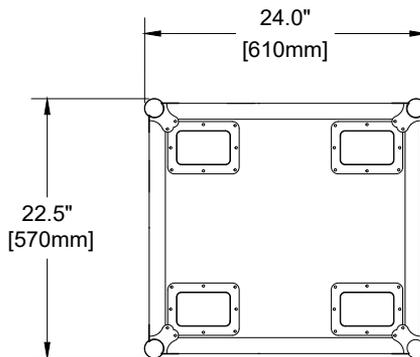
VAC	Amps	Hz	Watts	VA	PF
100	6.7	50	670	788	0.99
120	5.5	60	660	770	0.99
200	3.2	50	640	762	0.97
208	3.1	60	645	761	0.97
220	2.9	50	638	765	0.96
230	2.8	50	644	768	0.96
240	2.7	60	648	765	0.96

ADDITIONAL ORDERING INFORMATION

Additional Accessories

Model	Description
80560061	Optional TM-30 filter (not installed)
H7500001	Extra Omega clamp brackets
H7300105	Galvanized safety cable w/ spring snap

Roadcase Dimensions



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