



100 - 240V

Information subject to change without notice



OVERVIEW

ORDERING INFORMATION

FIXTURE OVERVIEW

SolaFrame 1000 fixture is the go-to workhorse automated framing fixture for lighting designers. With 20,000 lumen output, full framing shutters, rotating and fixed gobo wheels, a redesigned CMY and CTO color mixing system, replaceable color wheels, and animation effects. It has a feature set as varied as your lighting designs. The SolaFrame 1000 is a star performer in all professional production environments.

APPLICATIONS

- Arenas and stadiums
- Concert halls and performing arts centers
- Film and television broadcast studios
- Megachurches and houses of worship
- Nightclubs and special events

PRODUCT FEATURES

- White LED Engine
- 480W Ultra-Bright engine producing 20,000 field lumens or a High CRI Engine featuring incredibly accurate color rendering
- Full framing shutter system
- CMY / CTO - Linear color mixing system
- Six plus open position replaceable color wheel
- Iris and Light Frost
- Rotating Prism
- Sharp edge focus throughout 12° - 40° zoom range
- Eight position plus open interchangeable Gobo Wheel
- Seven position plus open Rotating Gobo Wheel
- Continuously rotating variable Animation Wheel
- TM-30 Filter boosts Ultra-Bright engine to 85+ CRI
- Patented Lens Defogger

SolaFrame 1000

| Model | Description |
|-------------|--|
| 2570A1200 | SolaFrame 1000 fixture, Ultra-Bright, black, with Road Case |
| 2570A1200-B | SolaFrame 1000 fixture, Ultra-Bright, black, with Molded Rubber Insert |
| 2570A1200-F | SolaFrame 1000 fixture, Ultra-Bright, black, with Styrofoam Packaging |
| 2570A1201 | SolaFrame 1000 fixture, High CRI, black, with Road Case |
| 2570A1201-B | SolaFrame 1000 fixture, High CRI, black, with Molded Rubber Insert |
| 2570A1201-F | SolaFrame 1000 fixture, High CRI, black, with Styrofoam Packaging |

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

Notes: Fixture includes two (2) Omega Brackets, one (1) fixture power cord, Bare Ends to powerCON TRUE1™ Input, Safety cable

Accessories

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



PRODUCT SPECIFICATIONS

Source

| | | |
|------------------------|---------------------------|-----------------------|
| Engine Options | Ultra-Bright white engine | High CRI white engine |
| LED Details | 480W | 480W |
| Max Lumens on the Wall | 20,000 Lumens | 16,000 Lumens |
| LPW | 42 Lumens per Watt | 34 Lumens per Watt |
| LED Life | 50,000 hours | 50,000 hours |
| Native CCT | 7000k | 6000k |

Color

| | |
|-------------------|---|
| Color Mixing | Cyan, Magenta, Yellow, CTO-Linear |
| Color Temperature | Variable down to 2800K |
| Color Wheel | Six (6) interchangeable dichroic chips plus open includes TM-30 Filter standard |
| Notes | See Page 5 for color rendering information |

Optical

| | |
|--------------------------|---|
| Beam angle range | 12° - 40° |
| Gate size | 25mm |
| Aperture size | 108mm |
| Pattern Projection | Rotating and indexable wheel with seven (7) patterns plus open Fixed wheel with eight (8) patterns plus open |
| Prism | Three-facet rotating and indexable prism Additional accessories available |
| Frost | Light frost Additional accessories available |
| Flicker control/Hz range | 2.4 kHz or 16 kHz |
| Animation | Rotating animation wheel LED Branch Animation |
| Iris | 16 Blade Iris |
| Notes | See page 3 for additional gobo information |

Control

| | |
|---------------------|--|
| Input method | DMX (5-pin) or Ethernet |
| Protocols | DMX via RS-485 Art-Net or sACN via Ethernet |
| Modes (Footprint) | One (49) |
| RDM functions | Yes |
| UI type | Full color graphical UI with 6 button navigational control |
| Local control | Yes |
| Dimming performance | 16-Bit, DMX Controlled |

Electrical

| | |
|---------------|---|
| Voltage range | 100-240V 50-60Hz |
| Input method | powerCON TRUE1 |
| Max Wattage | 900W |
| Max Current | 9.1A |
| Notes | See Page 6 for power factor information |

Thermal

| | |
|-------------------------------|--|
| Ambient operating temp | -10° to 45° C (14° to 113° F) |
| Fan | Three Modes: Standard, Studio, and Continuous |
| Stationary dBA/Full intensity | Standard - 42.8 dBA Background noise measured at 39.5 dBA |

Physical

| | |
|----------------------|---|
| Pan and Tilt Range | 540° Pan, 265° Tilt |
| Max Pan/Tilt Speed | 2.64 sec for 540°, 1.5 sec for 265° |
| Materials | Steel and aluminum frame with molded plastic covers |
| Color options | Black, White by request |
| Mounting options | Any orientation |
| IP rating | IP20 |
| Weight | 69.9lb / 31.3kg |
| Included accessories | powerCON TRUE1 to bare end fixture tail Two (2) clamp brackets Safety cable |
| Notes | See page 6 for dimensions |

Warranty

| | |
|------------------|---|
| Fixture Warranty | Five (5) years for light engine Two (2) years for complete fixture |
| Warranty Details | https://www.highend.com/warranty/ |

Regulatory & Compliance

| | |
|---|---|
| Approved Regulatory Standards | Listed to UL 1573 Certified to CSA STD. C22.2 No: 166 CE |
| CE Compliance declared to the following standards | Safety: EN 60598-1, EN 60598-2-17 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 = 2.0m Minimum distance from fixture head to combustible materials = 0.1m |
|--------|--|

Notes about LED luminaires

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.



OPTICAL INFORMATION







Fixed Gobo Dimensions

| | |
|------------------|----------------|
| Outside Diameter | 30mm (1.18 in) |
| Image Diameter | 24mm (0.95 in) |
| Materials | 0.5mm Aluminum |








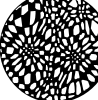
Rotating Gobo Dimensions

| | |
|------------------|---|
| Outside Diameter | 30mm (1.18 in) |
| Image Diameter | 24mm (0.95 in) |
| Materials | 0.5mm Aluminum or 1.1mm Glass Borofloat |






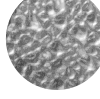
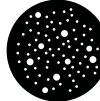
Interchangeable Color Wheel

-  1 - Red
-  2 - Blue
-  3 - Green
-  4 - TM-30
-  5 - Orange
-  6 - Dark Blue

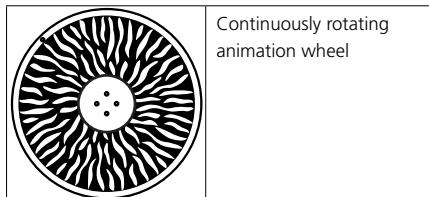
Fixed Gobo Wheel

-  1 - Tunnel
-  2 - Triangles
-  3 - Organic
-  4 - Shatter
-  5 - Abstract
-  6 - Cobble
-  7 - Endgrain
-  8 - Warped

Rotating Gobo Wheel

-  1 - Bar
-  2 - Stripe Strips
-  3 - Fracked
-  4 - Starvolver
-  5 - Pinwheel Dots
(Magnetically indexed adaptor)
-  6 - Ice
-  7 - Shower

Animation Wheel



PHOTOMETRIC INFORMATION

SolaFrame 1000 - Ultra-Bright

| Mode | Degree | Candela | Field Lumens | Power Consumption | Lumens Per Watt |
|---------------|--------|---------|--------------|-------------------|-----------------|
| Narrow | 12 | 607,900 | 18,000 | 480 W | 37 |
| Medium | 30 | 417,300 | 20,000 | 480 W | 41 |
| Wide | 40 | 78,600 | 20,000 | 480 W | 41 |
| Wide w/ Frost | 42 | 62,880 | 16,000 | 480 W | 33 |

SolaFrame 1000 - High CRI

| Mode | Degree | Candela | Field Lumens | Power Consumption | Lumens Per Watt |
|---------------|--------|---------|--------------|-------------------|-----------------|
| Narrow | 12 | 405,300 | 14,500 | 480 W | 25 |
| Medium | 30 | 277,900 | 16,000 | 480 W | 31 |
| Wide | 40 | 52,100 | 16,000 | 480 W | 31 |
| Wide w/ Frost | 42 | 41,680 | 13,000 | 480 W | 25 |

Narrow Zoom - 12 Degrees

| Throw Distance (d) | 10ft | 15ft | 20ft | 25ft | 188.7ft |
|--------------------|--------|--------|--------|--------|---------|
| | 3.0m | 4.6m | 6.1m | 7.6m | 57.5m |
| Field Diameter | 2.1ft | 3.1ft | 4.2ft | 5.3ft | 39.6ft |
| | 0.65m | 0.97m | 1.29m | 1.61m | 12.1m |
| Illuminance (fc) | 6,079 | 2,733 | 1,537 | 984 | 18 |
| Illuminance (lux) | 65,400 | 29,400 | 16,538 | 10,584 | 186 |

Narrow Zoom - 12 Degrees

| Throw Distance (d) | 10ft | 15ft | 20ft | 25ft | 188.7ft |
|--------------------|--------|--------|--------|-------|---------|
| | 3.0m | 4.6m | 6.1m | 7.6m | 57.5m |
| Field Diameter | 2.1ft | 3.1ft | 4.2ft | 5.3ft | 39.6ft |
| | 0.65m | 0.97m | 1.29m | 1.61m | 12.1m |
| Illuminance (fc) | 4,053 | 1,801 | 1,014 | 649 | 12 |
| Illuminance (lux) | 43,600 | 19,378 | 10,900 | 6,976 | 123 |

Medium Zoom - 30 Degrees

| Throw Distance (d) | 10ft | 15ft | 20ft | 25ft | 188.7ft |
|--------------------|--------|--------|--------|--------|---------|
| | 3.0m | 4.6m | 6.1m | 7.6m | 57.5m |
| Field Diameter | 5.3ft | 8.0ft | 10.7ft | 13.4ft | 101.1ft |
| | 1.64m | 2.46m | 3.27m | 4.09m | 30.83m |
| Illuminance (fc) | 4,173 | 1,855 | 1,044 | 668 | 12 |
| Illuminance (lux) | 44,900 | 19,956 | 11,225 | 7,184 | 126 |

Medium Zoom - 30 Degrees

| Throw Distance (d) | 10ft | 15ft | 20ft | 25ft | 188.7ft |
|--------------------|--------|--------|--------|--------|---------|
| | 3.0m | 4.6m | 6.1m | 7.6m | 57.5m |
| Field Diameter | 5.3ft | 8.0ft | 10.7ft | 13.4ft | 101.1ft |
| | 1.64m | 2.46m | 3.27m | 4.09m | 30.83m |
| Illuminance (fc) | 2,779 | 1,236 | 695 | 445 | 8 |
| Illuminance (lux) | 29,900 | 13,289 | 7,475 | 4,784 | 84 |

Wide Zoom - 40 Degrees

| Throw Distance (d) | 10ft | 15ft | 20ft | 25ft | 188.7ft |
|--------------------|-------|--------|--------|--------|---------|
| | 3.0m | 4.6m | 6.1m | 7.6m | 57.5m |
| Field Diameter | 7.3ft | 11.0ft | 14.6ft | 18.2ft | 137.3ft |
| | 2.22m | 3.33m | 4.44m | 5.55m | 41.87m |
| Illuminance (fc) | 786 | 350 | 197 | 126 | 3 |
| Illuminance (lux) | 8,450 | 3,756 | 2,112 | 1,352 | 24 |

Wide Zoom - 40 Degrees

| Throw Distance (d) | 10ft | 15ft | 20ft | 25ft | 188.7ft |
|--------------------|-------|--------|--------|--------|---------|
| | 3.0m | 4.6m | 6.1m | 7.6m | 57.5m |
| Field Diameter | 7.3ft | 11.0ft | 14.6ft | 18.2ft | 137.3ft |
| | 2.22m | 3.33m | 4.44m | 5.55m | 41.87m |
| Illuminance (fc) | 521 | 232 | 131 | 84 | 2 |
| Illuminance (lux) | 5,600 | 2,489 | 1,400 | 896 | 16 |

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

For field diameter at any distance, multiply distance by 0.491

For beam diameter at any distance, multiply by 0.274

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

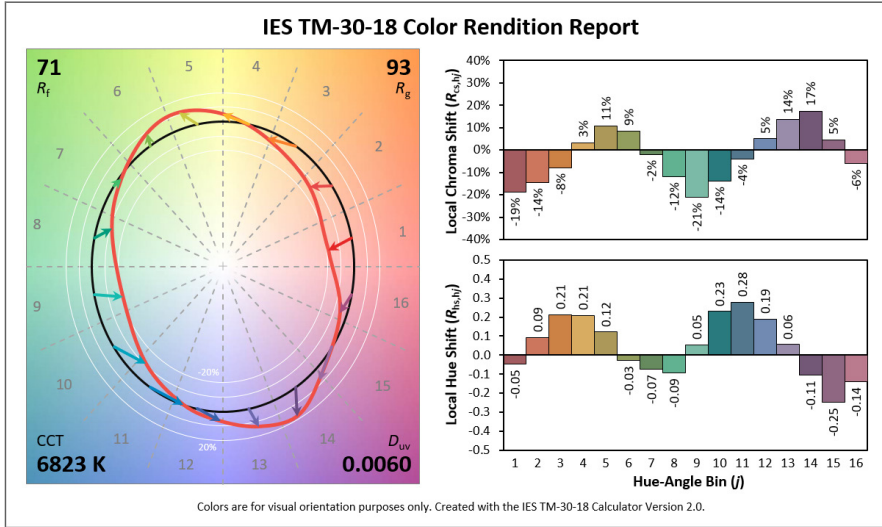
For field diameter at any distance, multiply distance by 0.491

For beam diameter at any distance, multiply by 0.274



COLOR METRIC INFORMATION

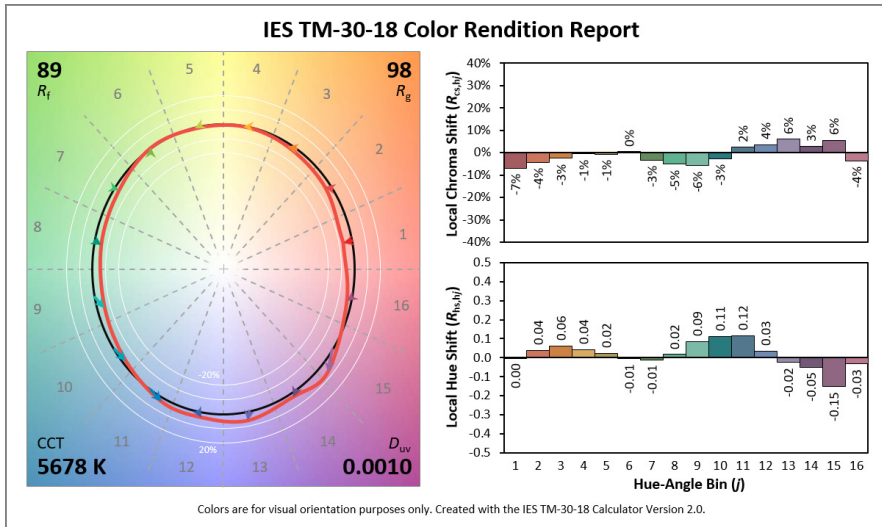
Ultra-Bright Engine



Additional Color Metrics

| | |
|---|------------|
| SolaFrame 1000 Ultra-Bright Engine | |
| CRI R _a (R ₉) | 70 (-39.5) |
| TLCI | 47 |

High CRI Engine



Additional Color Metrics

| | |
|---------------------------------------|-----------|
| SolaFrame 1000 High CRI Engine | |
| CRI R _a (R ₉) | 90 (52.6) |
| TLCI | 89 |

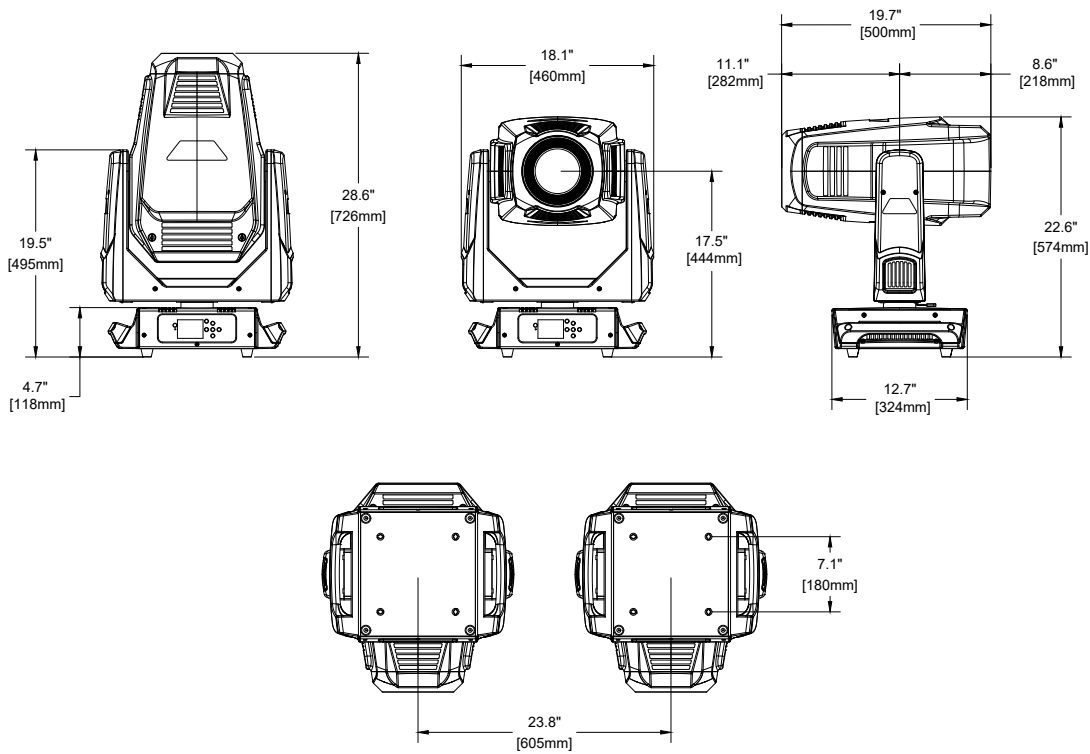


PHYSICAL INFORMATION

SolaFrame 1000 Dimensions

| MODEL | HEIGHT | | WIDTH | | DEPTH | | WEIGHT | |
|--------------------------------------|--------|-----|-------|-----|-------|-----|--------|------|
| | in | mm | in | mm | in | mm | lb | kg |
| SolaFrame 1000* | 28.6 | 726 | 18.1 | 460 | 12.7 | 324 | 69.9 | 31.3 |
| SolaFrame 1000 in Box | 31.3 | 795 | 25.2 | 640 | 23.6 | 600 | 84.2 | 38.2 |
| SolaFrame 1000 in Molded Case Insert | 28.1 | 715 | 23.6 | 600 | 22 | 560 | 105.2 | 47.7 |
| SolaFrame 1000 in Roadcase | 36.6 | 929 | 22.3 | 565 | 23.6 | 600 | 185.9 | 84.3 |

*Does not include mounting hardware



SolaFrame 1000 Power Table

| VAC | Amps | Hz | Watts | VA | PF |
|-----|------|----|-------|-----|------|
| 100 | 9.0 | 50 | 900 | 925 | 0.99 |
| 120 | 7.5 | 60 | 900 | 907 | 0.99 |
| 200 | 4.6 | 50 | 896 | 926 | 0.96 |
| 208 | 4.3 | 60 | 869 | 896 | 0.97 |
| 220 | 4.0 | 50 | 834 | 869 | 0.95 |
| 240 | 3.7 | 60 | 837 | 875 | 0.95 |

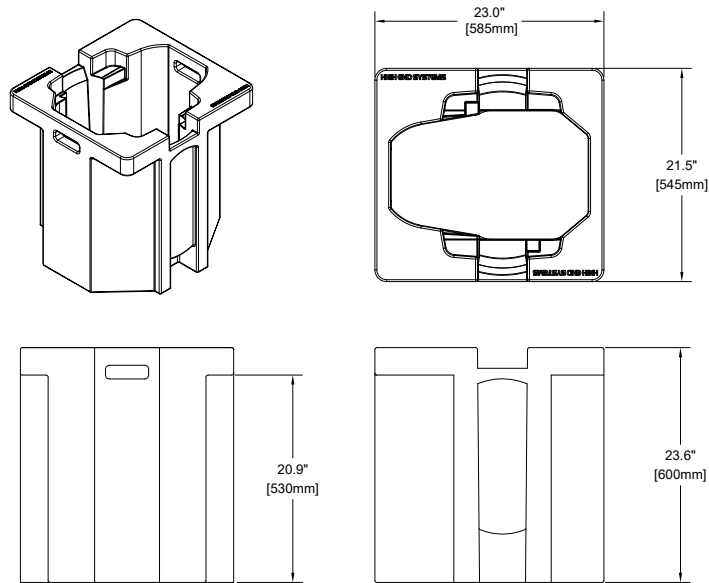


ADDITIONAL ORDERING INFORMATION

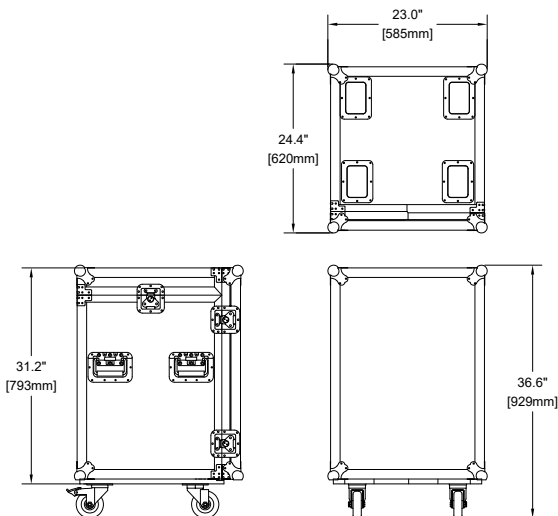
Additional Accessories

| MODEL | DESCRIPTION |
|----------|---------------------------------------|
| H7500001 | Extra Omega Brackets |
| H7300105 | Galvanized Safety Cable w/Spring Snap |

Molded Case Insert Dimensions



Roadcase Dimensions (Single Mode)



(Dual Mode)

