

EXTERIOR PROJECTION 1000

POWERFUL, FULLY WEATHERIZED OUTDOOR LIGHTING FIXTURE

SPEC SHEET



HIGHLIGHTS

- Full CMY color mixing for maximum creativity
- Fully weatherized for trouble-free use with minimal maintenance in outdoor installations
- Flat-field, high-contrast image projection

OVERVIEW

The Martin Exterior™ Projection 1000 is an unparalleled, powerful tool for permanent outdoor installations to integrate textures, patterns and graphics for limitless creative exterior lighting designs. Sporting high impact and low maintenance, this advanced, IP66-rated LED projector offers sharp image quality, dynamic features and great reach over huge distances.

KEY MESSAGES

HIGH PRECISION OPTICAL SYSTEM

The wide zoom range from 10° - 44° allows for exact projection on desired surface.

CREATIVE TOOL BOX

Includes four effect layers - gobos, prisms, animation, variable frost, and a full CMY color mixing system, an additional color wheel as well as zoom and focus offer unlimited creativity.

LOW TOTAL COST OF OWNERSHIP

20,000 hours' lamp life equals 8 hours' daily use for 7 years. And even then, it will still produce 70% of its original output, which makes it highly superior to any traditional discharge image projector.

BUILT TO LAST

Operates at temperatures from -30°C to 45°C and its robust, vandalism-proof IK08 and IP66-rated aluminum housing is surface-treated to comply with the ISO12944/C5-M corrosion protection standard.

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FEATURES

- Flat field, high contrast image projection based on high power LED engine
- 0-100% electronic dimming
- Full CMY color mixing + additional color wheel with 7 interchangeable colors
- 7 gobo slots for projecting graphic images (gobos included)
- Animation system for creating animated lighting effects (horizontal and vertical)
- Zoom range from 10° - 44° for exact projection on desired surface
- Variable frost for creating morphing effects and hybrid function as wash light
- 2 rotating prisms for creating abstract multi patterns
- Intuitive setup, configuration and stand-alone programming via graphical OLED display
- RDM and DMX control
- Fully weatherized IP66 fixture for permanent outdoor installation
- Fully convection cooling using heat pipes technology

ORDERING INFORMATION

EU MODELS

- Exterior Projection 1000, EU, Aluminum: P/N 90512000
- Exterior Projection 1000, EU, White: P/N 90512015

US MODELS

- Exterior Projection 1000, US, Aluminum: P/N 90512005
- Exterior Projection 1000, US, White: P/N 90512010

ACCESSORIES

- Exterior Projection 1000 Glare Shield: P/N 91611768
- Exterior Projection 1000 Setup Gobo: P/N 91616075

SPARE PARTS

- Silica gel desiccant bag in sealed foil pack: P/N 37220000
- Goboholder for EP-1000 with magnet incl. washer & short spring: P/N 50482185
- Goboholder for EP-1000 with magnet incl. washer & long spring: P/N 50482186



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TECHNICAL SPECIFICATIONS

DYNAMIC EFFECTS

Color mixing	CMY, independently variable 0 - 100%
Color wheel	7 interchangeable colors + open
Gobo wheel	7 rotating gobos plus open, indexing, variable rotation
Gobo animation wheel	Indexing, continuous rotation with variable angle, speed and direction
Prism	Prism wheel with 2 interchangeable prisms, prism rotation and indexing
Frost (wash effect)	Motorized, variable
Zoom	10° - 44° (cut-off angles)
Focus	Motorized, variable 3 m (9.8 ft.) to infinity
Shutter	Electronic, strobe and pulse effects, instant open and blackout
Dimming	Electronic, constantly variable 0-100%, 16-bit control

CONTROL AND PROGRAMMING

Control options	DMX, RDM, standalone
DMX channels	20
Configuration, addressing and status	Onboard control panel with OLED display or via RDM
8-bit control	CMY, color selection, gobo selection, prism, frost, animation
16-bit control	Gobo indexing and rotation, zoom, focus and intensity
DMX compliance	USITT DMX512-A
RDM compliance	ANSI/ESTA E1.20

OPTICS

Light source	440 W white light LED engine
LED manufacturer	Appotronics
CRI (Color Rendering Index)	72
Color temperature	6500 K (±250 K)
LED lifetime	20 000 hours (to >70% luminous output)*

*Figure obtained under manufacturer's test conditions

PHOTOMETRIC DATA

Cut-off angle	10° - 44°
	Total output Center peak
At 10° zoom	11 500 lumens 731 000 cd
At 16° zoom	15 000 lumens 311 000 cd
At 40° zoom	16 800 lumens 42 000 cd

CONSTRUCTION

Housing	Cast aluminum
Finish	Hard anodized, white or metallic grey lacquered
Front glass	5 mm (0.2 in.) anti-reflection coated tempered glass

Ingress protection	IP66
Corrosion resistance	C5-M (very high corrosivity / marine, ISO 12944)
Impact resistance	IK08 (with control panel display cover plate installed)
EPA (Effective Projected Area)	0.28m ²
RoHS compliant	

GOBOS

Suitable material	Metal or borosilicate glass, coatings heat-resistant to 450°C (842° F)
Gobo diameter	30.0 mm +0/-0.3 mm (1.2 in. +0/-0.02 in.)
Maximum image diameter	26 mm (1.02 in.)
Gobo thickness, minimum	1.1 mm ±0.1 mm (0.045 ±0.004 in.)
Gobo thickness, maximum	3.0 mm ±0.3 mm (0.118 in. ± 0.012 in.)*

*Gobos thicker than 2.5 mm require a shorter spring in the goboholder

INSTALLATION

Orientation	Any (sides must be kept vertical)
Mounting	Adjustable yoke
Minimum distance to illuminated surfaces	0.5 m (20 in.)
Location	Suitable for wet locations. Do not immerse in water.

CONNECTIONS

Power cable entry	IP68 cable gland
Power connection	1.8 m (5.9 ft.) cable tail with bare ends
Power cable type	EU models: H07RN-F 450/700V, Ø10 mm US models: SJTW 14AWG, 300V, Ø9.3 mm
Data cable entry	IP68 cable gland
Data connection	1.8 m (5.9 ft.) combined input + output cable tail with bare ends

ELECTRICAL

AC power	100-120/200-277 V nominal, 50/60 Hz
Power supply	Auto-ranging electronic switch-mode
Typical half-cycle RMS inrush current	15.5 A
Surge protection	4 KV
Idle power (zero intensity, no effects applied)	75 W

TYPICAL POWER AND CURRENT

120 V, 60 Hz	645 W, 5.5 A, PF 0.98
230 V, 50 Hz	635 W, 2.9 A, PF 0.95
277 V, 60 Hz	635 W, 2.6 A, PF 0.90

Figures are typical, not maximum. Measurements made at nominal voltage with all LEDs at full intensity. Allow for a deviation of +/- 10%.

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THERMAL

Cooling Convection, internal forced air

Maximum ambient temperature
[Ta max.] 45° C (113° F) *

Minimum ambient temperature
[Ta min.] -30° C (-22° F)**

*Above this temperature, the fixture regulates output to protect from overheating.

**For instant wake-up with no warm-up mode, leave power applied constantly in ambient temperatures below 0° C (32° F)

APPROVALS

EU safety EN 60598-2-1, EN 60598-2-5
(EN 60598-1), EN 62471, EN 62493

EU EMC EN 55015, EN 55032, EN 55103-2,
EN 61000-3-2, EN 61000-3-3,
EN 61000-4-2, EN 61000-4-3,
EN 61000-4-4, EN 61547

US safety ANSI/UL 1598

US EMC CFR 47 Part 15 Class A

Canadian safety CSA C22.2 No 250.0

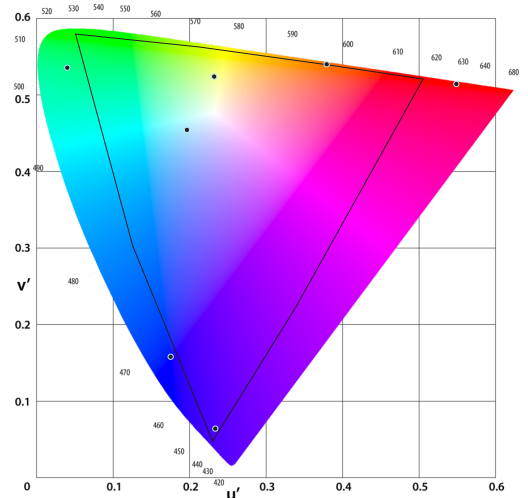
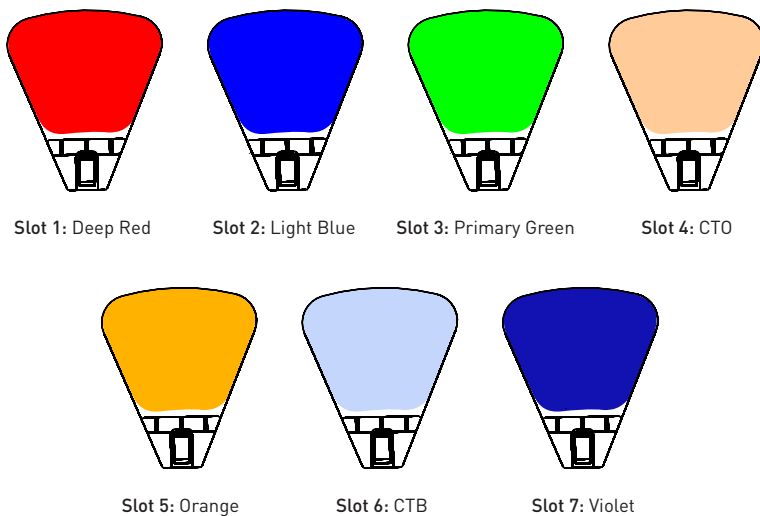
Australia/NZ RCM



GOBO WHEEL



COLOR WHEEL AND CMY COLOR MIXING



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PROJECTION DATA - GOBO WITH MAX. IMAGE SIZE

NARROW ZOOM SETTING (10°)

Distance to projection surface	10 m (33 ft.)	15 m (49 ft.)	20 m (66 ft.)	25 m (82 ft.)	30 m (98 ft.)	35m (115 ft.)	40 m (131 ft.)	45 m (148 ft.)	50 m (164 ft.)
Projection diameter in meters (ft.)	1.5 (5.0)	2.3 (7.5)	3.0 (10.0)	3.8 (12.4)	4.5 (14.9)	5.3 (17.4)	6.1 (19.9)	6.8 (22.4)	7.6 (24.9)
Center illuminance in lux	7310	3249	1828	1170	812	597	457	361	292
Center illuminance in candela	679	302	170	109	75	55	42	34	27

MEDIUM ZOOM SETTING (16°)

Distance to projection surface	10 m (33 ft.)	15 m (49 ft.)	20 m (66 ft.)	25 m (82 ft.)	30 m (98 ft.)	35m (115 ft.)	40 m (131 ft.)	45 m (148 ft.)	50 m (164 ft.)
Projection diameter in meters (ft.)	2.4 (8.0)	3.7 (12.0)	4.9 (16.0)	6.1 (20.0)	7.3 (24.0)	8.5 (28.0)	9.7 (32.0)	11.0 (36.0)	12.2 (40.0)
Center illuminance in lux	3110	1382	778	498	346	254	194	154	124
Center illuminance in candela	289	128	72	46	32	24	18	14	12

WIDE ZOOM SETTING (44°)

Distance to projection surface	10 m (33 ft.)	15 m (49 ft.)	20 m (66 ft.)	25 m (82 ft.)	30 m (98 ft.)	35m (115 ft.)	40 m (131 ft.)	45 m (148 ft.)	50 m (164 ft.)
Projection diameter in meters (ft.)	7.0 (23.0)	10.5 (34.5)	14.0 (46.0)	17.5 (57.4)	21.0 (68.9)	24.5 (80.4)	28.0 (91.9)	31.5 (103.4)	35.0 (114.9)
Center illuminance in lux	420	187	105	67	47	34	26	21	17
Center illuminance in candela	39	17	10	6	4	3	2	2	2

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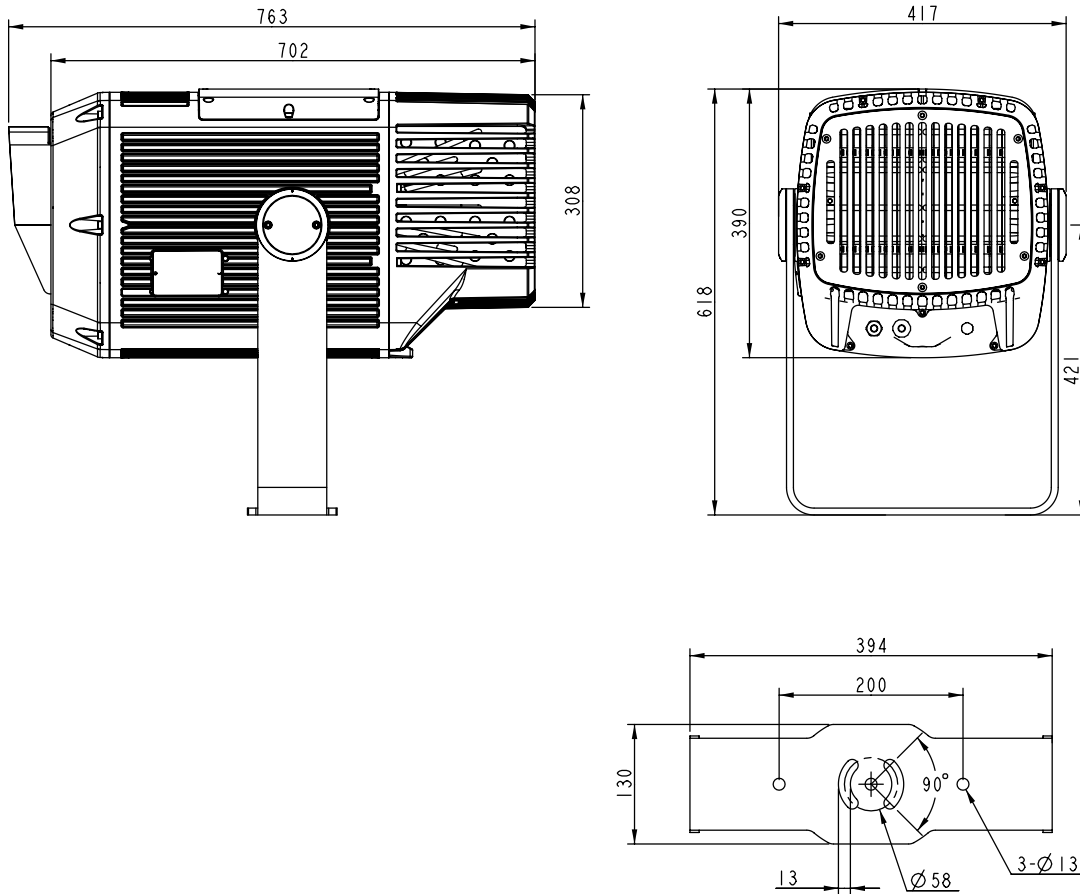
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DIMENSIONS

PHYSICAL

- Length..... 702 mm [27.7 in.]
- Width..... 417 mm [16.5 in.]
- Height..... 618 mm [24.4 in.]
- Weight..... 50 kg [110 lbs.]

All figures include mounting yoke



Dimension drawing includes optional glare shield