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.
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

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
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°
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 ........................... CS-M (very high corrosivity / marine, ISO 12944)
Impact resistance ............................... IK08 (with control panel display cover plate installed)
EPA (Effective Projected Area) ............. 0.28 m²
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 (1.18 in. ±0/-0.02 in.)
Maximum image diameter ..................... 26 mm (1.02 in.)
Gobo thickness, minimum ................. 1.1 mm ±0.1 mm (0.043 ±0.004 in.)
Gobo thickness, maximum ................. 3.0 mm ±0.3 mm (0.118 ±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, 2.6 A, PF 0.90
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%.
EXTERIOR PROJECTION 1000
POWERFUL, FULLY WEATHERIZED OUTDOOR LIGHTING FIXTURE

TECHNICAL SPECIFICATIONS

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,
........................................................................................................................................
........................................................................................................................................
........................................................................................................................................
........................................................................................................................................
........................................................................................................................................
........................................................................................................................................
........................................................................................................................................
........................................................................................................................................
........................................................................................................................................
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

Gobo 1: Grass Lines
Gobo 2: Organic Delights
Gobo 3: Brush It
Gobo 4: Light Lines
Gobo 5: Ripple Structure Glass
Gobo 6: Lined Effect Glass
Gobo 7: Sequence It

COLOR WHEEL AND CMY COLOR MIXING

Slot 1: Deep Red
Slot 2: Light Blue
Slot 3: Primary Green
Slot 4: CTO
Slot 5: Orange
Slot 6: CTB
Slot 7: Violet
# EXTERIOR PROJECTION 1000

POWERFUL, FULLY WEATHERIZED OUTDOOR LIGHTING FIXTURE

## PROJECTION DATA - GOBO WITH MAX. IMAGE SIZE

### NARROW ZOOM SETTING (10°)

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

### MEDIUM ZOOM SETTING (16°)

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

### WIDE ZOOM SETTING (44°)

<table>
<thead>
<tr>
<th>Distance to projection surface</th>
<th>10 m (33 ft.)</th>
<th>15 m (49 ft.)</th>
<th>20 m (66 ft.)</th>
<th>25 m (82 ft.)</th>
<th>30 m (98 ft.)</th>
<th>35m (115 ft.)</th>
<th>40 m (131 ft.)</th>
<th>45 m (148 ft.)</th>
<th>50 m (164 ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Projection diameter in meters</td>
<td>7.0 (23.0)</td>
<td>10.5 (34.5)</td>
<td>14.0 (46.0)</td>
<td>17.5 (57.4)</td>
<td>21.0 (68.9)</td>
<td>24.5 (80.4)</td>
<td>28.0 (91.9)</td>
<td>31.5 (103.4)</td>
<td>35.0 (114.9)</td>
</tr>
<tr>
<td>Center illuminance in lux</td>
<td>420</td>
<td>187</td>
<td>105</td>
<td>67</td>
<td>47</td>
<td>34</td>
<td>26</td>
<td>21</td>
<td>17</td>
</tr>
<tr>
<td>Center illuminance in candela</td>
<td>39</td>
<td>17</td>
<td>10</td>
<td>6</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>
**EXTERIOR PROJECTION 1000**

**POWERFUL, FULLY WEATHERIZED OUTDOOR LIGHTING FIXTURE**

**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*