

# Exterior 1200 Image Projector™



# Exterior 1200 Image Projector™



The Exterior 1200 Image Projector is a powerful 1200 W luminaire designed for projecting animated images and effects onto structures and landmark architecture

## FEATURES

- 1200 W metal halide lamp
- CMY colour mixing system
- Colour wheel with primary colours red, green and blue
- 0-100% intensity control
- High optical clarity and performance with uniform distribution of light and colour
- Choice of narrow, medium or wide lens beam options
- Motorized zoom for variable beam angles: 12°- 18° / 18°- 36° / 31°- 51°
- Motorized focus
- Four D-size gobo slots for projecting graphic images
- Gobo animation system for creating animated lighting effects
- Environmental weatherproof rating of IP65
- DMX, stand-alone, synchronized (master/slave) control options
- Display on-board address setting; no extra devices required

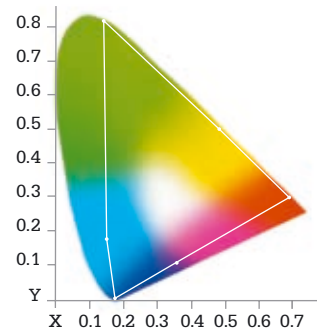


Fields Shopping Centre, Copenhagen, Denmark / Architect: CF Møller A/S / Designer: Collaborative



**LIMITLESS CHOICE OF COLOURS**

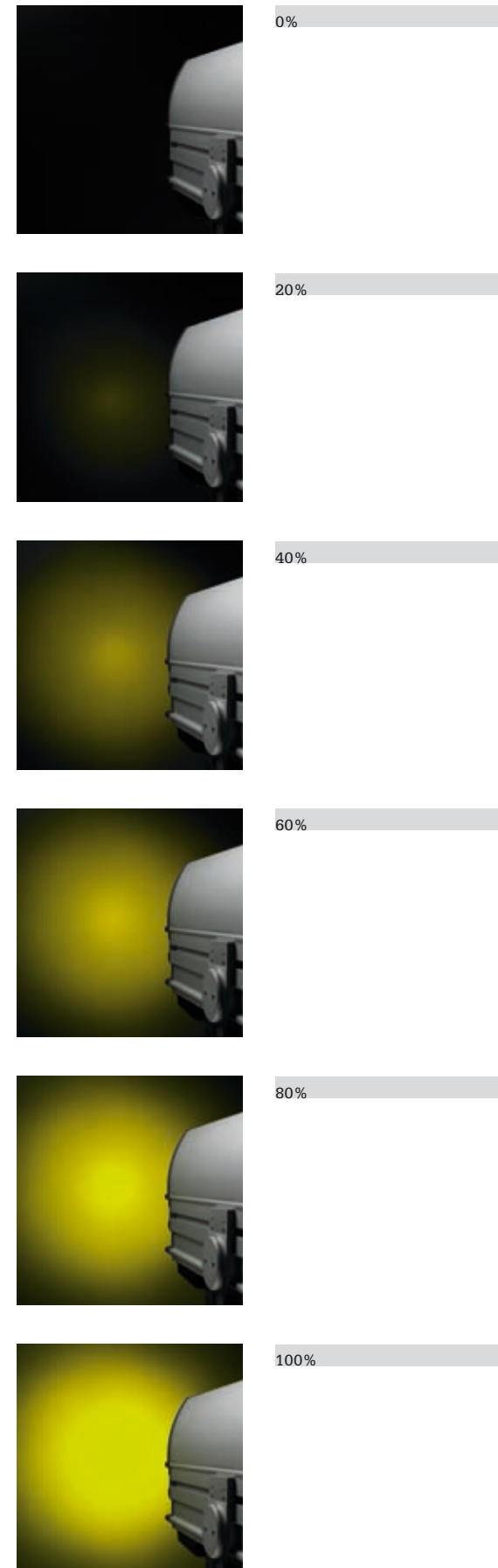
The Exterior 1200 Image Projector offers endless creative possibilities. With full colour mixing, the CMY system blends the primary colours Cyan, Magenta and Yellow to achieve a full spectrum of luminous colours. These colours, variable in hue and saturation, can be programmed to shift smoothly from shade to shade to create truly dynamic architecture. Further colour options are also provided on a four-colour wheel, with the primary colours red, green, and blue, and open (white).



With the CMY system, the Exterior 1200 Image Projector can create all the colours in the triangle above.

**0-100% INTENSITY CONTROL**

The ability to dim metal halide is appreciated by designers who want balance of brightness or the ability to allow structures and landscapes to respond intelligently to the availability of natural light. The mechanical dimmer/shutter ensures 0 - 100% variable dimming and instant open and blackout.



**DISPLAY AND CONTROL**

An on-board LCD display allows diagnosis of service factors, such as lamp life and other critical information. Manual control and addressing can also be performed through the display without the need for other peripheral devices. DMX controllable from an external controller or PC software, the Exterior 1200 Image Projector can also operate via a built-in program or master/slave relationship.



**WORLDWIDE VOLTAGES**

Step by step voltage settings. Through easy re-tapping the Exterior 1200 Image Projector is compatible with all voltages from 200/208/220/230/240/250/277 V, 50/60 Hz



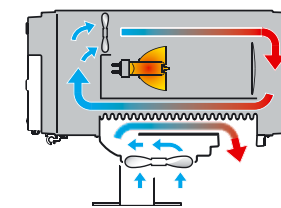
**EASY INSTALLATION & OPTICAL AIMING**

A fully adjustable bracket allows the luminaire to be mounted and aimed from any position. This is simply achieved by positioning the yoke anywhere along the casing, ensuring that whatever angle the projector is adjusted to, the head is in perfect balance. Four detachable eyebolts are included to aid with lifting and installation.



**HEAT EXCHANGER COOLING**

By applying the fundamental laws of heat exchange used in the automotive and other industries, the Exterior 1200 Image Projector operates in the hottest environments while remaining fully sealed with an ingress protection rating of 65 (IP65). Sealed air is circulated through a heat exchanger and cooled, ensuring safe operating temperatures while keeping dust and pollutants out.



**QUICK RE-LAMPING**

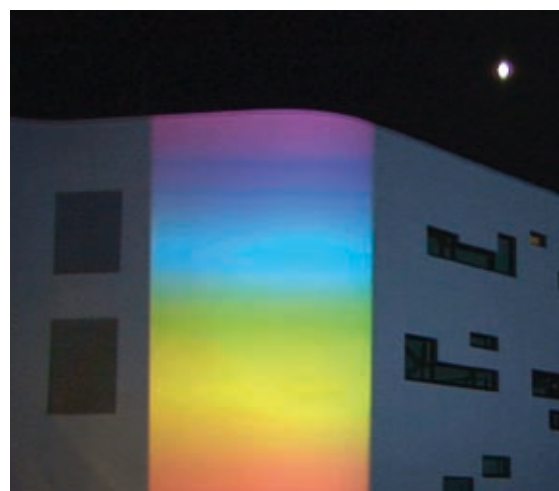
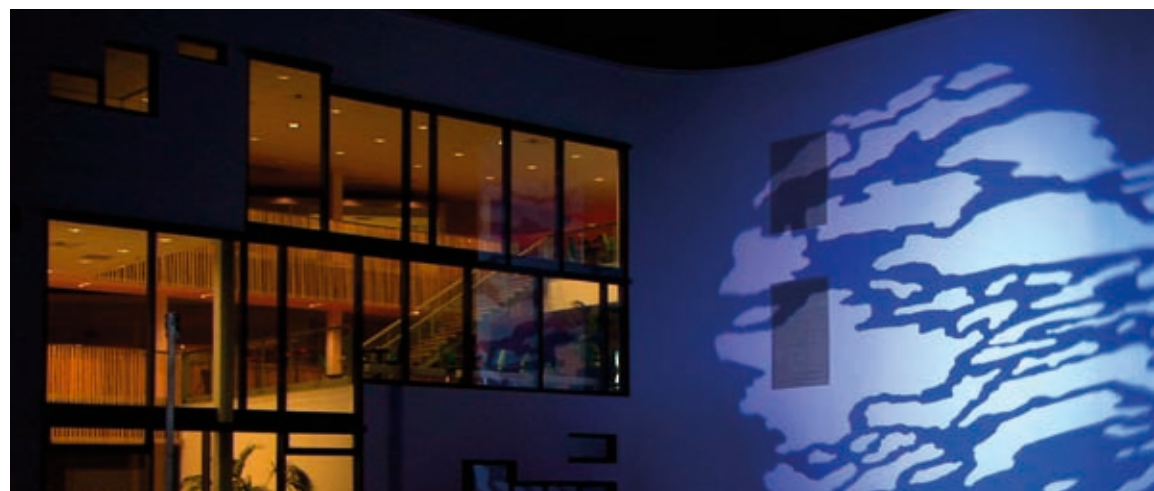
A convenient slide-out lamp assembly provides easy access for quick re-lamping.





IMAGE PROJECTION

Public spaces need night-time narratives to create environments with emotional impact. The Exterior 1200 Image Projector provides drama with illuminated textures and animated effects, such as reflected water, ripples, flames, clouds, rain and snow. The animation wheel provides flowing effects, and can be used together with the gobos and colours.



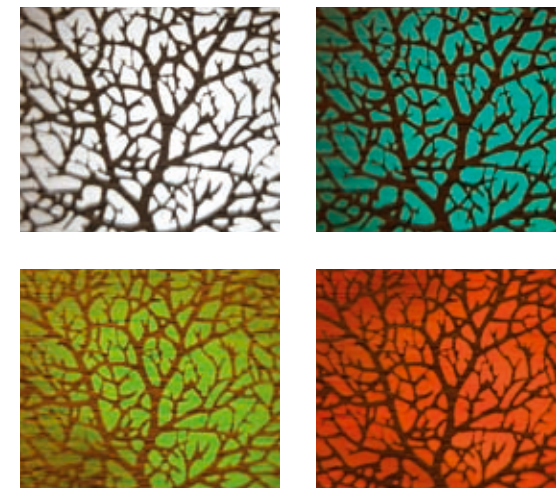
ADDING STRUCTURE TO WALLS

This pre-installed gobo adds structure to what otherwise would be a featureless surface.



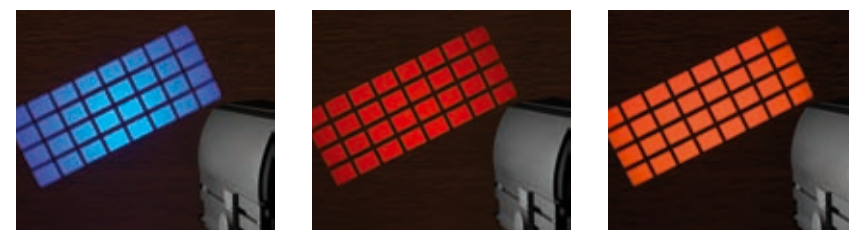
USES STANDARD D-SIZE GOBOS

The Exterior 1200 Image Projector comes with three gobos pre-installed plus open. This offers the designers the possibility of applying illuminated textures and images or even animated effects. The image here takes its inspiration from nature, and shows what is possible, using any standard D-size gobos.



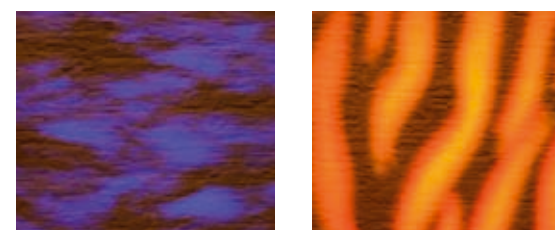
GEOMETRIC OR SHARPLY-FOCUSED IMAGES

Geometric shapes in sharp focus, such as from this pre-installed gobo, grab attention in public spaces, and illustrate well the possibilities for sharp logo projection, to promote your store or an activity, for example.



ORGANIC AND DEFOCUSED

One of the three pre-installed gobos for the Exterior 1200 Image Projector is shown here, for organic and defocused effects.



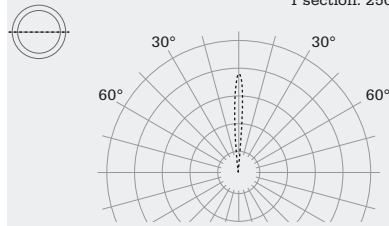
HIGH PERFORMANCE OPTICS

With high optical clarity and performance with uniform distribution of light and colour, a full range of optical systems from spot to flood allows for accurate and even illumination of large surfaces. Ellipsoidal beam shapers and other optical accessories, such as barn doors, provide optical control for pin-point illumination of columns, pylons and very tall structures.

NARROW LENS, ZOOM AT MINIMUM

12° beam angle

1 section: 250,000 cd



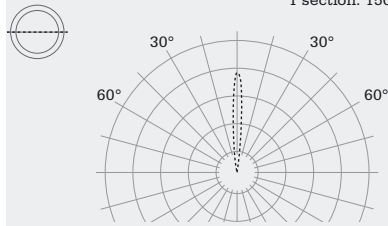
m	ft.	12°	E [lux]	E [fc]
5	16		50560	4938
10	33		12640	1161
20	66		3160	290
30	98		1404	132
50	164		506	47

Efficiency: 23%  
 Cutoff: 0.21 × distance (m, ft)  
 Illuminance: 1264000 / distance<sup>2</sup> (lux, fc)  
 Total Output: 21100 (lumens)

NARROW LENS, ZOOM AT MAXIMUM

18° beam angle

1 section: 150,000 cd



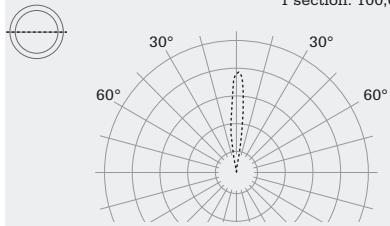
m	ft.	18°	E [lux]	E [fc]
5	16		24960	2438
10	33		6240	573
20	66		1560	143
30	98		693	65
50	164		250	23

Efficiency: 23%  
 Cutoff: 0.32 × distance (m, ft)  
 Illuminance: 624000 / distance<sup>2</sup> (lux, fc)  
 Total Output: 21000 (lumens)

MEDIUM LENS, ZOOM AT MINIMUM

18° beam angle

1 section: 100,000 cd



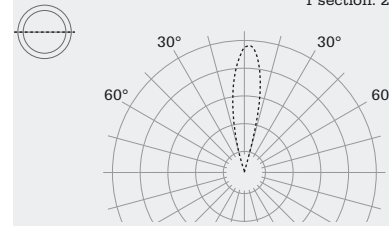
m	ft.	18°	E [lux]	E [fc]
5	16		19800	1934
10	33		4950	455
20	66		1238	114
30	98		550	52
50	164		198	18

Efficiency: 22%  
 Cutoff: 0.32 × distance (m, ft)  
 Illuminance: 495000 / distance<sup>2</sup> (lux, fc)  
 Total Output: 19900 (lumens)

MEDIUM LENS, ZOOM AT MAXIMUM

36° beam angle

1 section: 25,000 cd



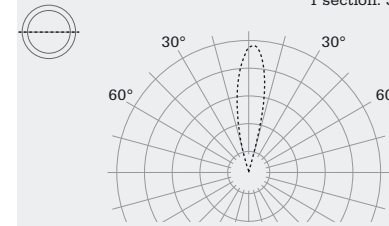
m	ft.	36°	E [lux]	E [fc]
5	16		5760	563
10	33		1440	132
20	66		360	33
30	98		160	15
50	164		58	5

Efficiency: 23%  
 Cutoff: 0.65 × distance (m, ft)  
 Illuminance: 144000 / distance<sup>2</sup> (lux, fc)  
 Total Output: 21200 (lumens)

WIDE LENS, ZOOM AT MINIMUM

31° beam angle

1 section: 30,000 cd



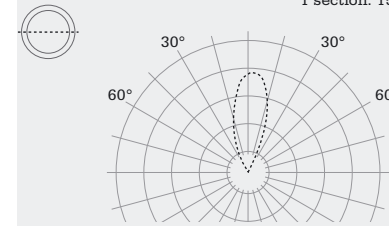
m	ft.	31°	E [lux]	E [fc]
5	16		7120	695
10	33		1780	163
20	66		445	41
30	98		198	19
50	164		71	7

Efficiency: 23%  
 Cutoff: 0.55 × distance (m, ft)  
 Illuminance: 178000 / distance<sup>2</sup> (lux, fc)  
 Total Output: 21400 (lumens)

WIDE LENS, ZOOM AT MAXIMUM

51° beam angle

1 section: 15,000 cd

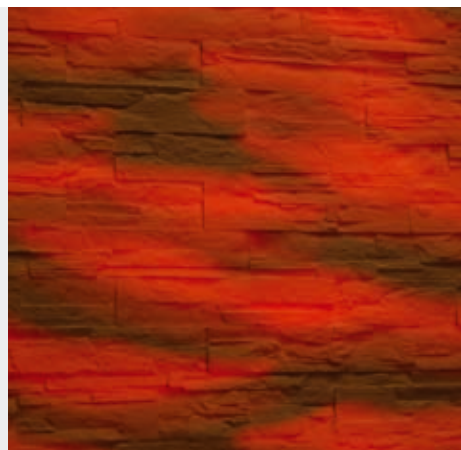


m	ft.	51°	E [lux]	E [fc]
5	16		2880	281
10	33		720	66
20	66		180	17
30	98		80	7
50	164		29	3

Efficiency: 24%  
 Cutoff: 0.95 × distance (m, ft)  
 Illuminance: 72000 / distance<sup>2</sup> (lux, fc)  
 Total Output: 22000 (lumens)

All photometric data is available electronically from [www.martin.com/service](http://www.martin.com/service)

DYNAMIC ZOOM



Three optional zoom kits provide designers with the possibility of varying beam angles (cut-off angles) from 12° to 18° (narrow), 18° to 36° (medium) or 31° to 51° (wide). The Exterior 1200 Image Projector has a motorized zoom and focus and offers the flexibility of re-focusing on-site in order to achieve a perfect distribution of light and color and optimize image projection.

WEATHERPROOFING



The IP65 design guarantees reliable operation in harsh, weather-beaten environments. An efficient cooling system ensures the luminaire is reliable in even the hottest climates. It is also suitable for marine and saline environments, such as cruise ships and bridges and has been wind-load tested; an important factor for tower installations.

# Exterior 1200 Image Projector™

## SPECIFICATION

### PHYSICAL

Length: 1006 mm (39.6 in.)  
 Width: 448 mm (17.6 in.)  
 Height: 620 mm (24.4 in.)  
 Weight: 90 kg (198.4 lbs.)  
 Effective Projected Area (EPA): 0.8 m<sup>2</sup>

### LAMP

Type: 1200 W metal halide  
 Fitted as standard: Philips MSD 1200  
 Socket: G22  
 Control: Automatic and/or remote on/off

### DYNAMIC EFFECTS

Colour mixing: CMY  
 Cyan: 0 - 100%  
 Magenta: 0 - 100%  
 Yellow: 0 - 100%  
 Colour wheel: 4 slots for interchangeable filters  
 Rotating gobo wheel: 4 interchangeable gobo positions (one required for open), gobo indexing, continuous gobo rotation  
 Gobo animation: Interchangeable animation wheel, indexing, continuous rotation with variable angle, speed and direction  
 Mechanical dimmer/shutter: 0 - 100% variable dimming, instant open and blackout  
 Focus: 3 m (9.8 ft.) to infinity  
 Zoom: Narrow 11° - 17°, Medium 17° - 34°, Wide 30° - 48°  
*Zoom limits stated as one tenth-peak angles*

### CONTROL AND PROGRAMMING

Control options: DMX, stand-alone, synchronized (master/slave)  
 DMX channels: 17  
 DMX address setting: MUM, onboard control panel  
 16-bit control: Mechanical dimmer, rotating gobo indexing/speed, focus, zoom  
 Stand-alone trigger options: Internal timer and/or ambient light level  
 Stand-alone memory: 20 scenes  
 Stand-alone programming: MUM, onboard control panel  
 Protocol: USITT DMX512-A  
 Receiver: RS-48

### CONSTRUCTION

Housing: Aluminium  
 Finish: Clear anodized  
 Front glass: 6 mm (0.2 in.) anti-reflection coated  
 Colour wheel filters: 1.2 mm (0.05 in.), dichroic, hexangular  
 Protection rating: UL wet location, main enclosure designed to IP65

### GOBOS

Material: Metal or glass  
 Size: D  
 Outside diameter: 53.3 mm (2.1 in.) +/- 0.3 mm (0.01 in.)  
 Maximum image diameter: 48 mm (1.9 in.)  
 Maximum thickness: 3 mm (0.1 in.)  
 Image orientation: True from lamp side

### INSTALLATION

Orientation: Any (air intake must face down)  
 Vertical aiming: +/- 90°

### ELECTRICAL

AC power: 200/208/220/230/240/250/277 V nominal, 50/60 Hz  
 Main fuse: 17.5 AT (slow blow)  
 Ballast: Magnetic

### THERMAL

Cooling: Forced air, integrated air/air heat exchanger, IP65 barrier  
 Maximum ambient temperature (Ta max.): 45° C (113° F)  
 Minimum ambient temperature (Ta min.): -20° C (-4° F), power must be maintained below 0° C (32° F)  
 Maximum surface temperature, steady state, Ta=45° C: 70° C (158° F)  
 Total heat dissipation (calculated, +/- 10%): 4950 BTU/hr.

### APPROVALS

US safety: UL 1598  
 Canadian safety: CSA C22.2 No. 250.0-04  
 EU safety: EN 60598-1, EN 61347-1  
 EU EMC: EN 55 015, EN 55 103-1, EN 61 000-3



### ACCESSORIES



**91610083**  
Narrow-angle lens kit



**91610084**  
Medium-angle lens kit



**91610085**  
Wide-angle lens kit



**91611273**  
Permanent 5500 - 4200 K CTC kit



**91611272**  
Permanent 5500 - 3400 K CTC kit



**91611264**  
Snoot/barndoor kit



**91611258**  
CTC filter, 5500 - 4200 K (installs in colour wheel)



8 dichroic colour filters (installs in colour wheel) are available: contact your Martin dealer for details



**41600103**  
Diffuser filter (installs in colour wheel)



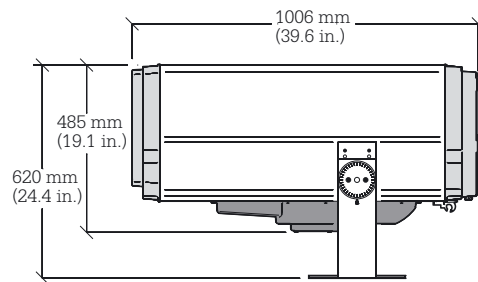
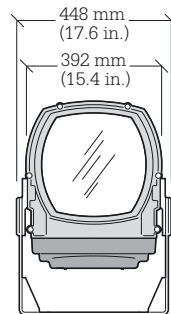
**91610082**  
Beamshaper lens



Custom gobos



**62329071**  
Gobo animation wheel



Exterior 1200 Image Projector / Specification

# Exterior 1200 Image Projector™

## ORDERING

### EXAMPLE SPECIFICATION

Exterior 1200 Image Projector, Surface Mounted, Projector, IP65, Metal Halide, 1200 W, CMY, Narrow, 12-18°

= Exterior 1200 Image Projector, Narrow

= 90504065

### VARIABLES

Exterior 1200 Image Projector	Narrow, 12-18°
	Medium, 18-36°
	Wide, 31-51°

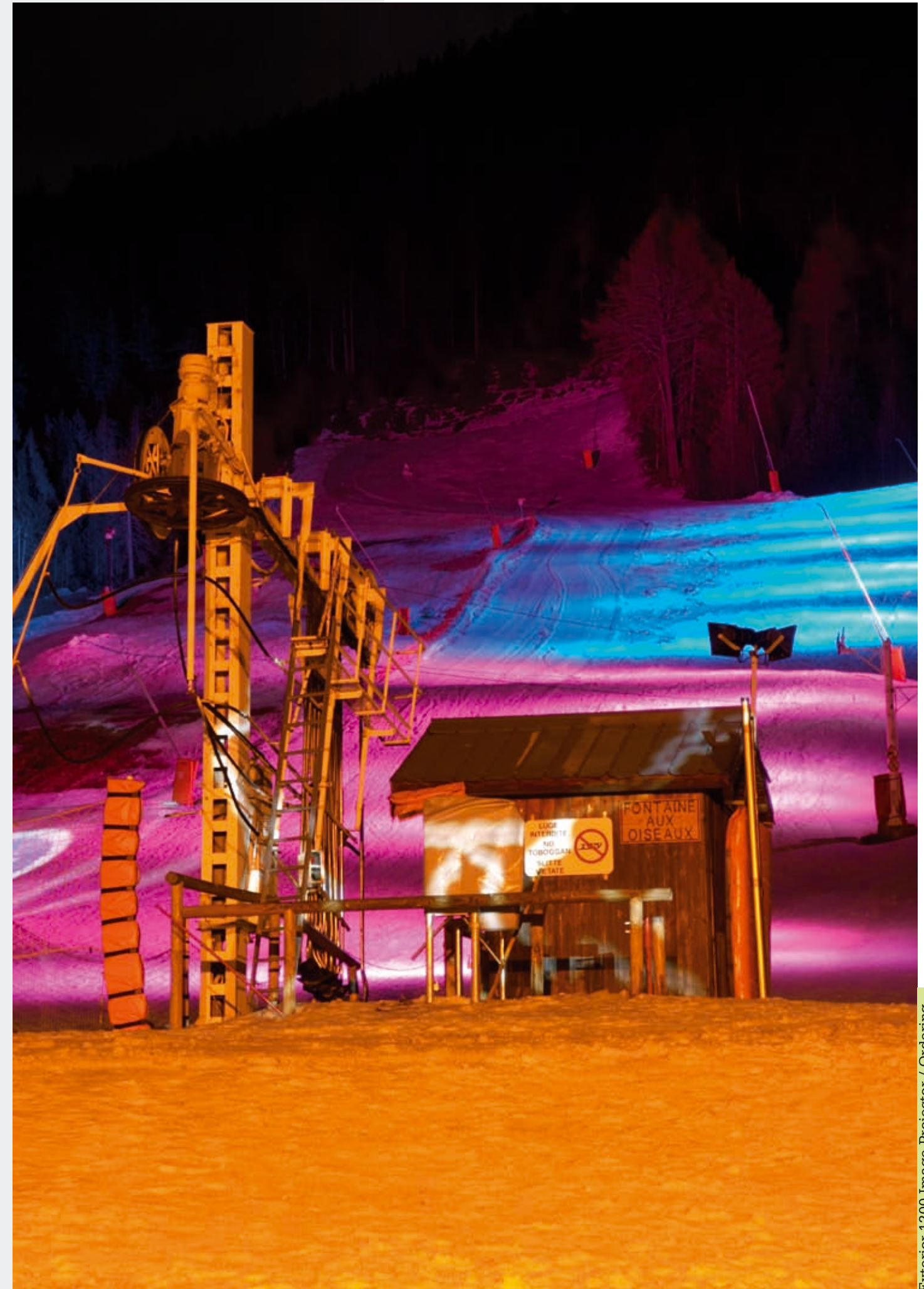


Exterior 1200 Image Projector

### SPECIFICATION

### CODE

Exterior 1200 Image Projector, Narrow	90504065
Exterior 1200 Image Projector, Medium	90504075
Exterior 1200 Image Projector, Wide	90504085



La Norma Ski Resort, France / Lighting Design: Martin Architectural France

Exterior 1200 Image Projector / Ordering

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China	Greece	Latvia	Paraguay	Sudan	Yemen

### ABOUT MARTIN

Martin is headquartered in Aarhus, Denmark and represented in almost 100 countries around the world. On our website, you will find probably the most impressive list of references in the industry. With 1250 employees worldwide, solid financials, and a strong environmental and ethical focus at our global manufacturing facilities in Denmark, the United Kingdom, and China, Martin is one of the world's leading manufacturers of lighting solutions.



The Happy Factory, Denmark



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