DML-1200
Creativity at your fingertips

Key Benefits

- All the benefits of a conventional moving light
- DLP video projection capabilities
- Exceptional brightness in both video and light modes
- Digital image content – optional built in media player
- Rental & staging design

Barco's DML-1200 is a digital moving luminaire with all the benefits of a conventional moving light controlled from the lighting console. Moreover, the DML-1200 can also be used as a high quality DLP video projector.

With its brightness, unlimited image selection and the ability to seamlessly switch between video projection and light mode, cue by cue, the DML-1200 provides designers pure creativity at their fingertips delivering a truly unique show for every event, client and purpose.

The DML-1200's low maintenance needs, unique lens design and overall versatility make it a real rental & staging product.
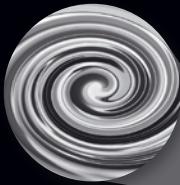
BARCO
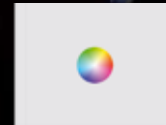
DML-1200

Turning the designer's dream into reality

Video mode
(no mask)
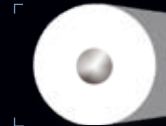
Light mode
(no CMY filtering)

Light mode
(with Y + M filter)

Video mode:
10,000 lumens
full color images

Video mode
with circular mask:
6,000 lumens
full color images

Light mode:
(doubled light output)
12,000 lumens
monochrome images

Why digital?

The DML-1200 is a digital device, which enables you to utilize digital gobo's and modify them instantly — with **far more speed and creativity** than can be accomplished with physical metal or glass gobos. You can create new logos within seconds instead of weeks. In lighting mode, you can have monochrome images in any color you could dream of.

Digital image generation
instead of an analog GOBO

Exceptional brightness

With the DML-1200, Barco has designed a digital light so bright that it can easily be used in combination with the existing analog lights. Furthermore, the DML-1200 features an internal color wheel that allows instant switching between light and DLP video projection mode.

In **video mode**, the DML-1200 offers a light output of **10,000 lumens**.

In **light mode**, the DML-1200 produces a perfectly circular light beam with a light output of 12,000 lumens, perceived to be the equivalent of a 1200W hard edged moving light due to the high brightness uniformity   (> 90%).

video black

*without iris*

with iris

real black

zoom-in mask
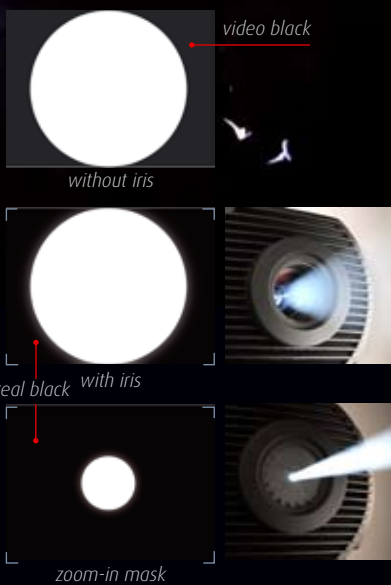
Unique lens design

Barco's DML-1200 operates with one standard lens for all applications. With a beam angle from **11 to 40 degrees**, you no longer have to switch lenses before every show. This means you only need to invest in one kind of lens to play all venues.

The lens features an internal **integrated iris** which ensures true black in stead of video black around the circular spot.

Additionally, the **zoom, focus** and **iris** control are all **belt driven** to give you more speed and accuracy during the show.
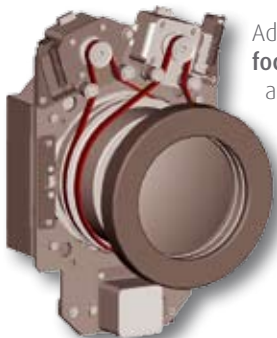
Wide range of inputs

The luminaire comes standard with an extensive range of inputs, which can easily be controlled via DMX (or Artnet) and Ethernet.

· RGBHV / HDSDI / DVI
· Horizontal & vertical keystone
· Integrated warping module

Mediaplayer (optional)

The DML-1200 can be delivered with an optional integrated mediaplayer, based on the Hippotizer V3 technology of Green Hippo. It provides instant clip access, layering and manipulating capabilities, all controlled from the lighting console. Next to the standard Barco mode, you can launch the mediaplayer in Hippotizer Express mode to increase the creative possibilities.

The genlock feature enables synchronisation of the mediaserver output with the other video sources.

Setup and control

Each DML-1200 configuration can be set up and controlled via Barco's Mediawing or via Barco's control software on a regular PC.
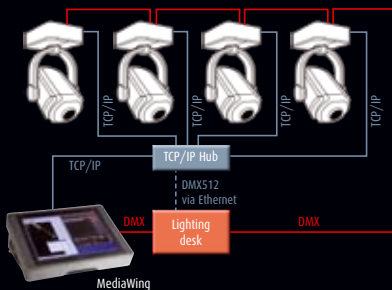
Setup and file management handled by MediaWing,
Control by lighting desk (DMX)
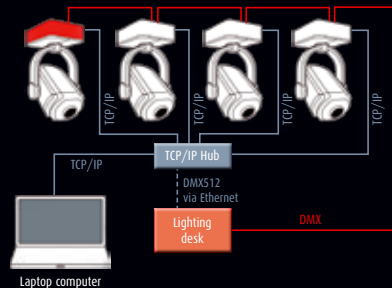
Setup and file management handled by PC,
Control by lighting desk (DMX)

Mediawing

The Mediawing allows you to control and configure up to 100 DML-1200s. It features complete media management, emulation, remote preview and a Toolset for "Setup & Diagnose".

• The **media management** feature makes it possible to import any kind of media to the repository, organize and create media maps and distribute the media to the different DML-1200s using the fast broadcast feature.

Control software

By using the control software on a regular PC, you can control and configure up to 6 DML-1200s. The control software comes with only the media management feature and Toolset.

• The **media management** feature makes it possible to import any kind of media to the repository, organize and create media maps on a remote DML and distribute the media to the other DML-1200s.

• By using the **emulation feature**, you can check what the result will be if parameters change on a remote media server. When you hook up your lighting desk to the Media Wing, you can even start programming your show.

• The **remote preview** function enables a preview of the output of an individual DML-1200.

• Setup and Diagnose the complete DML-1200 configuration easily with the **Toolset**. In addition, this feature allows you to create warping files.

• Setup and Diagnose the complete DML-1200 configuration easily with the **Toolset**. In addition, it allows you to create warping files. The Toolset can also be used to control a wide variety of other Barco equipment.

Built for rental & staging

Recognized as the industry leader for over ten years in the rental & staging market, Barco understands, like no other, the needs of this demanding industry. During the design of the DML-1200, Barco has given priority to features ensuring readiness for life on the road.

Sealed optics

• Barco's DML-1200 features fully sealed optics that offer protection against smoke and dust to ensure consistent optical performance over time
• All incoming air goes through High Efficiency Air Filters to avoid time consuming cleaning

Multi-purpose lamps

• All lamps can be controlled individually
• No alignment required during replacement (click & play)
• Possibility to choose between 4, 2 or 1 lamp mode to reduce noise levels or to save lamp hours
• By using multiple lamps, the show can continue without interruption in case one lamp fails
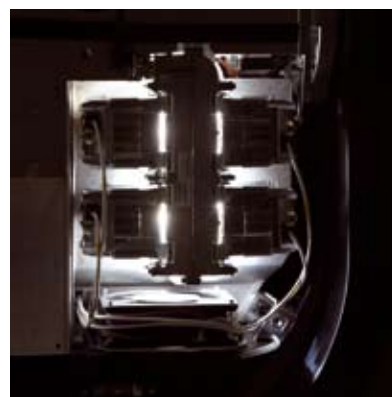
Easy to transport

The DML-1200 comes standard in a rugged flight case, certified for the toughest jobs. The case can easily be tipped over to ease floor or ceiling mounting.

Rugged design

• Cast aluminum chassis with plastic covers
• Flexible mounting of riggings points

DML-1200 in action

Massive Attack picture by United Visual Artists©

NatureOne © Amanda Holmes

© Amanda Holmes

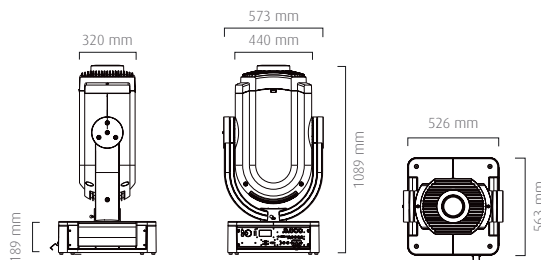

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DML-1200 Technical specifications

Light output	**Video mode:** 10,000 lumens - **Light mode:** 12,000 lumens
Contrast ratio	min. 1,200:1 - average 1,400:1
Lamp type	4 x 300 W (High Pressure Mercury Lamps)
Lamp warranty	750 actual running hours (proportional refund)
Rated lamp life	1,500 hours
Lamp replacement	click-in, no alignment needed
Color system	substractive color mix (cyan, magenta, yellow) with dichroic filters
Color temperature	native 6200°K - 3000°K with dichroic filters
Color change time	0.3 second, or as timed by control console
Motion range	**Pan:** 540° - **Tilt:** 270°
Motion speed	68° per second
Zoom range	defocused: 11°-40° - focused: 12°-38°
Position accuracy and repeatability	0.375° on encoders (error correction); <0.1° in normal movement
Image generation	Single-chip DLP with 3x speed RGBW color wheel
Operation mode selection	**Video mode:** Native (rectangular) or circular - **Light mode:** Circular
Intensity control	Visually linear and full field operation (0-100%) combined digital mechanical
Weight (fixture only)	75 kg
Noise level	49 dB(A) (at +25°)
Max operating temperature	40°
Power consumption	max. 1832 W
AC power	200 - 240 V, 10 A, 50-60 Hz, input via 2m cable without connector
INPUT	
Inputs	RGBHV -Component - HDSDI/SDI - DVI
VIDEO PROCESSING	
Native image resolution	SXGA+ (1,400 x 1,050 pixels)
Blanking	horizontal & vertical, controlled over DMX
Scenergics	horizontal & vertical edge blending, controlled over DMX
Output image manipulation	H & V keystone, rotation (±15%), pincushion/barrel distortion, extensive freeform warping (max. 825 points)
CONTROL	
Protocols	DMX512 / Artnet
Connections	5-pin XLR (in, through), 2x RJ-45 (1GB in, through), 2x USB and VGA out for media player control
MEDIA PLAYBACK SYSTEM (optional)	
Number of image layers	Matte layer, layer1, layer2 (both A+B mixing), mask layer, master layer
Optical effects	Effects per media layer, effects on the master layer
Media type	Any media type that is supported by the Hippotizer (media is converted to MPEG-2, I-frame only)
Playback system	Based on Hippotizer V3 technology - Developed by Green Hippo Ltd.
Video input synchronisation	genlock through additional BNC connector

320 mm

573 mm
440 mm

526 mm

1089 mm

563 mm

189 mm

August 2008

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However any individual item is subject to change without any notice.
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