Beyond The Next Level:
Welcome To The Future Of Image Projection

JVC PROFESSIONAL

DLA-M5000SC/M5000L

D-ILA® PROJECTOR

SXGA
5000
ANSI Lumens
D-ILA™ — A Breakthrough In Projection Technology

The core of D-ILA™ (Direct Drive Image Light Amplifier) projector device is a high-density reflective type LCD able to project high-resolution images. With a homeotropic structure in which the LCD elements are aligned vertically, the D-ILA™ device produces extra-bright, high-contrast images ideal for big-screen projection applications.

The key to more affordable home and general presentation projectors, the new 0.7" S-XGA+ (1,400 x 1,050) device is able to take advantage of higher yield, allowing it to lower cost while offering a higher resolution.

Also coming soon is the industry leading Q-XGA (2,048 x 1,536) device. Offering full HDTV (1080i) compatibility without compression, as well as D-ILA™'s hallmark crystal clear picture quality, Q-XGA is destined to become the premier display technology for digital cinema and other high-end applications.
**D-ILA™ technology — the secrets of superior quality**

- **Higher brightness and resolution**

  LCD panels are composed of a dense array of pixels which are illuminated individually to produce patterns and images. In conventional “transmissive” LCD panels, the driving transistor which activates the pixels is mounted on the same surface as the pixels, so limiting the inherent degree of brightness and resolution. With JVC’s D-ILA™ device, on the other hand, the driving IC substrate is located behind the liquid crystal layer, so making it possible to achieve much higher levels of brightness and resolution than conventional devices.

**Large-screen projection with compact design**

The D-ILA™'s high light efficiency maximizes the light output power for large screen projection without requiring a large, bulky projection unit. In combination with an advanced system that makes it possible to write the input signal directly on the D-ILA™ device in the form of an electric signal, this super-efficient technology has enabled us to simplify the projector's design and incorporate small 0.9” devices. The result is outstanding projection power in a remarkably compact, lightweight unit.

**Sharp, noiseless image**

By minimizing the space between pixels, the D-ILA™'s high-density structure and extra-high aperture ratio of 93% effectively eliminate stripe noise and producing crisp, clear images from edge to edge with well-defined details and vivid, true-to-life color.

**Higher contrast**

Another advantage of the D-ILA™ device is the vertical alignment (“homeotropic” structure) of the liquid crystal layer. This ensures that projected images have extra high contrast and makes it possible to accurately reproduce even very subtle gradation differences between the lighter and darker parts of the projected image.
True S-XGA Resolution
When projected onto a large-size screen, the DLA-M5000SC/L's high-density LCD panels provide true S-XGA resolution without scaling or loss of quality. With a total of 4,193,280 image dots, even the small characters and icons typical of computer displays can be reproduced clearly. This makes the DLA-M5000SC/L the perfect choice for projection of high-resolution 3D graphics or detailed CAD images.

Resizing Function with Adaptive DPC Circuitry
You may not always want or need to project S-XGA images. To ensure that the DLA-M5000SC/L is versatile enough to meet your projection requirements, we have also included our innovative Adaptive DPC (Digital Pixel Conversion) circuitry. This enables the D-ILA™ projector to project XGA (1024 x 768 pixels), S-VGA (800 x 600 pixels), and VGA (640 x 480 pixels), as well as true S-XGA (1365 x 1024 pixels). Optimum pixel conversion is performed by the Adaptive DPC according to the characteristics of the source signal to ensure a clear, undistorted image.

1000:1 Super Contrast Ratio (DLA-M5000SC)
Contrast is what brings out the details and when it comes to contrast, nothing compares to JVC's DLA-M5000SC. Boasting a super high contrast ratio of 1000:1, this one-of-a-kind projector brings to life even the tiny details that would normally be lost in the darker portions of the picture. The result is unprecedented depth that produces images so realistic they literally jump off the screen.

Xenon Lamp for Natural Color Reproduction
The powerful 1.6kW Xenon lamp incorporated in the DLA-M5000SC/L assures true color reproduction and natural images — with quality comparable to those seen in movie theaters. Unlike the metal halide lamps used in conventional projectors, which tend to produce colors with a bluish tinge, the Xenon lamp accurately reproduces the original image colors, assuring natural, unmediated color reproduction.

10-Bit Digital Gamma Correction
For more accurate gray scale reproduction, the DLA-M5000SC/L features newly developed 10-Bit Digital Gamma Correction circuitry able to precisely reproduce even minor tone differences. In combination with the natural emission spectrum of the Xenon lamp, this further enhances the natural characteristics of the projected color.

High-Brightness 5000 ANSI Lumens
The D-ILA™'s high light efficiency is supported by a powerful 1.6kW Xenon lamp enabling the DLA-M5000SC/L to generate an amazing 5000 ANSI lumens of brightness. This powerful light output makes it possible to project clear, bright, highly visible images even in a bright room. Exclusive light condensing technology is also incorporated which increases the ratio of peripheral light to 80%, ensuring uniform brightness in all areas of the screen.

Powerful next-generation projection performance and multi-application versatility

D-ILA™ device | Window projection | Resized projection
--- | --- | ---
1365 | 1024 | 1346
1024 | 800 | 11010
600 | Ex.: S-VGA image projection

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When the number of pixels used in the image data being projected differs from the built-in device, you can use either the “Window projection” or “Resizing projection” method.
### 600-inch Large-Screen Projection

Thanks to its super-high brightness and advanced D-ILA™ device, the DLA-M5000SC/L can project bright, high-contrast images onto full-size theater-scale screens. At the 4:3 aspect ratio, possible screen sizes (diagonal) range from 60” – 300” (recommended), all the way up to 600” (max.).

#### Versatile Multi-Sync Signal Input Capability

To assure compatibility with the widest range of multimedia applications and signal formats, the DLA-M5000SC/L sync frequency covers 15 to 82kHz (horizontal) and 50 to 78Hz (vertical). Two PC inputs are provided so you can simultaneously input signals from two different computers and switch between them as required.

#### Easy Handling & Setup

Thanks to its simple, uncomplicated design and small-scale 0.9” projection device, the DLA-M5000SC/L is surprisingly compact and lightweight for a machine of this class. At 157lbs (71kg), these projectors also come with a host of user-friendly functions for hassle-free operation, including a quick alignment function for automatic adjustment of tracking, phase and position, remote-operated power zoom and power focus for adjustment of screen size, and a handy multi-function remote control.

#### Other Features

- Up-down/invert
- Selectable color temperature (High/Mid/Low)
- Selectable background color (when no signal is input)
- Lamp life warning indicator
- Warning indicator
- On-Screen Menu

#### Stackable Design For Enhanced Projection Power

For maximum versatility, the DLA-M5000SC/L has been designed for easy integration into a stacked configuration. By mounting one projector on top of another projector, you can project a combined image onto a single screen, allowing you to achieve even higher levels of brightness than is possible with a single projector. This makes the DLA-M5000SC/L suitable for use even in very large rooms with bright ambient light such as event halls.

#### Digital TV Ready

The DLA-M5000SC/L is compliant with various digital TV formats including 480i, 480p, 720p and 1080i.

#### Lens Shift Function

The DLA-M5000SC/L features a convenient Lens Shift function that is ideal for use in stacked configurations or off-center installations. This allows you to easily align the lenses of two projectors by moving the lens up or down and left or right. Up/down shift is ±50% (motorized) and left/right shift is ±32% (manual). As a result, you can install the projector virtually anywhere in a room and still produce a clear, undistorted picture on the screen.

#### Relationship between screen width and throw distance

The graph shows the relationship between the screen width and throw distance for different lens shift settings. The shift percentage estimates are based on the screen height which is regarded as 100%.

- **Up/Down shift (view from the side)**
- **Left/Right shift (view from the top)**

#### Table: Performance

<table>
<thead>
<tr>
<th>Screen size (inches)</th>
<th>40</th>
<th>100</th>
<th>100</th>
<th>150</th>
<th>200</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Throw distance</strong></td>
<td>1.16</td>
<td>1.75</td>
<td>2.04</td>
<td>2.76</td>
<td>4.06</td>
</tr>
<tr>
<td><strong>Lamp life</strong></td>
<td>5000</td>
<td>5000</td>
<td>5000</td>
<td>5000</td>
<td>5000</td>
</tr>
</tbody>
</table>

### 300” Full-Screen Projection

**With GL-M4010 1:1 Fixed lens**

- Recommended screen size 35” – 150” (±3 aspect ratio)

<table>
<thead>
<tr>
<th>Screen size (inches)</th>
<th>40</th>
<th>100</th>
<th>100</th>
<th>150</th>
<th>200</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Throw distance</strong></td>
<td>1.15</td>
<td>1.45</td>
<td>2.00</td>
<td>4.00</td>
<td>10.00</td>
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<tr>
<td><strong>Lamp life</strong></td>
<td>5000</td>
<td>5000</td>
<td>5000</td>
<td>5000</td>
<td>5000</td>
</tr>
</tbody>
</table>

**With GL-M4015S 1.5:1 Fixed lens**

- Recommended screen size 70” – 200” (±3 aspect ratio)

<table>
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<tr>
<th>Screen size (inches)</th>
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<th>100</th>
<th>100</th>
<th>150</th>
<th>200</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Throw distance</strong></td>
<td>1.66</td>
<td>2.18</td>
<td>2.60</td>
<td>4.00</td>
<td>10.00</td>
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<tr>
<td><strong>Lamp life</strong></td>
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<td>5000</td>
<td>5000</td>
<td>5000</td>
</tr>
</tbody>
</table>

**With GL-M6025SZ 2.5:1 Zoom lens**

- Recommended screen size 60” – 300” (±3 aspect ratio)

<table>
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<th>Screen size (inches)</th>
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<th>100</th>
<th>150</th>
<th>200</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Throw distance</strong></td>
<td>2.47</td>
<td>3.17</td>
<td>3.87</td>
<td>6.00</td>
<td>15.00</td>
</tr>
<tr>
<td><strong>Lamp life</strong></td>
<td>5000</td>
<td>5000</td>
<td>5000</td>
<td>5000</td>
<td>5000</td>
</tr>
</tbody>
</table>
Systems flexibility makes this unit of professional applications

Conference/Lecture

Clear, easy-to-see image makes sure your audience gets your message.

When you want to provide information to a large audience (for example, in a lecture hall at a university), you'll find the DLA-M5000SC/L's big, bright image makes it ideal for the task. The sharp, detailed image is bright and clear in all areas of the big screen and is easy to view even from a distance. Since there's no need to turn the lights down, images can be projected as needed without interrupting the flow or structure of the lecture.

Events/Shows

Attract a crowd with high-quality, big-screen demonstrations.

Draw the crowds to your booth at large-scale events and exhibitions with the dazzling, big-screen images of the DLA-M5000SC/L. Its stackable design makes it possible for you to use more than one unit to display images on larger screens even in really big, bright spaces, while its flexible design and superior operability ensure quick, easy setup and trouble-free operation.
High-impact image reproduction makes your presentation more persuasive.

Since its image has none of the fuzziness or washed-out look common to conventional video projectors, the DLA-M5000SC/L high-resolution projector is ideal for displaying small characters, detailed images, and high-resolution graphics. Images from PCs, or workstations retain all the quality of the original, ensuring that nothing is lost in the transition to the big screen and making your presentation even more impressive.

High-precision display monitors the situation in detail.

Ideal for monitoring and security management in large facilities or traffic control centers where detailed monitoring is critical, the DLA-M5000SC/L's high-precision multi-source projection capability and systems flexibility makes it an excellent choice for a centralized monitoring system.
**Specifications**

**Image Device**
3 D-ILA devices (0.9 inches diagonal)

**Projection Lens**
Optional (see below)

**Lamp**
1.6KW, Xenon lamp

**Brightness**
5,000 ANSI lumens

**Resolution**
1,365 x 1,024 pixels, full coverage of S-XGA(1,280 x 1,024) Graphics (S-XGA, XGA, S-VGA, VGA)

**Contrast Ratio**
DLA-M5000SC: 1000:1
DLA-M5000L: More than 350:1

**Uniformity**
More than 80%

**Screen Size**
(3:1 - 7:1 zoom): 60” - 600” (1,219 mm - 12,192 mm)
(1.5:1): 65” - 250” (1,321 mm - 5,080 mm)
(1:1): 80” - 200” (2,048 mm - 4,064 mm)

**Throw Distance**
(3:1 - 7:1 zoom): 16.6 - 140 ft (5.1 m - 42.7m)
(1.5:1): 6.5 - 25.7 ft (2.0 m - 7.8 m)
(1:1): 5.1 - 13.2 ft (1.6 m - 4.0 m)

**Sync Frequency**
Horizontal: 15kHz – 82kHz
Vertical: 50Hz – 78Hz

**Input**
PC (Mini D-sub 15-pin) x 1
Composite x 1
RGBHV (BNC) x 1
Y, Pb/B-Y, Pr/R-Y (BNC) x 1

**Output**
PC (Mini D-sub 15-pin) x 1

**Power Requirement**
AC 200V — 240V, 50/60 Hz

**Power Consumption**
2,200 W

**Dimensions (W x H x D)**
29.4” x 14.5” x 31.2” (747 x 368 x 793 mm) (without protrusion)

**Weight**
157 lbs (71 kg) (without lens)

**Optional Accessories**

- **GL-M4023SZ**
  2.3x (3:1–7:1) Zoom Lens

- **GL-M4013S**
  1.5:1 Fixed Lens

- **GL-M4010**
  1:1 Fixed Lens

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