# JVC

## PROFESSIONAL

D-ILA™ PROJECTOR
# DLA-M2000L

**2000** ANSI Lumens

# SXGA

# Versatile, heavy-duty projector with four optional lenses and stacking capability for brilliant, high-resolution SXGA image projection.

From boardrooms to auditoriums, the DLA-M2000L Projector's four optional lenses give you the flexibility you need to deliver bright, high-quality big-screen images wherever you need them. Combining true SXGA resolution with 2000 ANSI lumens of brightness, the DLA-M2000L delivers exceptional image reproduction quality in any setting. Flexible installation configurations and a simplified setup procedure make this new-style projector versatile enough to satisfy any professional requirements.

## "D-ILA™ Quality"— natural, smooth image with optimized contrast

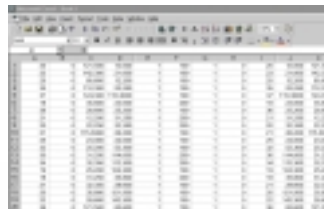**JVC's original D-ILA™ technology for unsurpassed image quality**
JVC's D-ILA™ (Direct Drive Image Light Amplifier) technology features a high-density, reflective liquid crystal structure that provides you with today's optimal combination of brightness, resolution, contrast and color for the big screen. Thanks to a 93% aperture ratio, it also provides the highest native resolution with the least visible pixels, making images as smooth and natural as film.

**1,365 x 1,024 native resolution for true SXGA resolution without compression plus UXGA compatibility**
With extra-high resolution of up to 1,365 x 1,024 pixels, the DLA-M2000L easily handles even the super-sharp clarity of an SXGA (1,280 x 1,024 pixels) image. It reproduces the picture without the scaling or loss of quality typically associated with projection of high-resolution computer graphics and CAD/CAM images. With video resolution of 1000 TV lines, small text, characters, icons and cursors are clearly legible even at the corners of the projected image. Moreover, the DLA-M2000L has input capability up to 105 kHz, making it compatible with resolutions as high as UXGA (1,600 x 1,200).
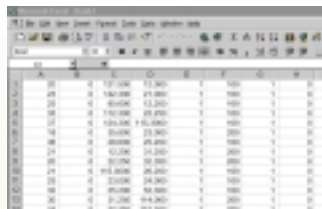
Ordinary resolution          SXGA resolution

**Technologies for enhanced image quality**
The powerful image reproduction performance of the DLA-M2000L is enhanced by an array of unique JVC imaging technologies that assure the best possible results with any image source.

- *High-brightness 2000 ANSI lumens and extra-high 350:1 contrast ratio*
  With a high brightness level of 2000 ANSI lumens and an extra-high contrast ratio of 350:1, the DLA-M2000L will never leave your audience in the dark. Even under bright lighting conditions, the DLA-M2000L delivers bright, clear images with sharp details, crisp edges, realistic color and true black reproduction.
- *550 W xenon lamp*
  The powerful 550 W xenon lamp accurately reproduces the image's original colors, assuring true color reproduction and natural-looking images.
- *Adaptive DPC (Digital Pixel Conversion) Technology*
  This optimizes image scaling to best match the D-ILA™'s pixels, eliminating the annoying jagged edges found with other digital technologies. As a result, you can obtain smooth and natural images regardless of the source resolution (up to 105 kHz).
- *Digital Gamma Correction*
  With accurate color reproduction capability, this circuitry provides superior color performance by ensuring accurate gray scale, from sheer black to shining white. That's critical for all your images, from subtle skin tones in home theater screenings to the complex coloration of workstation graphics.

  DLA-M2000L

  Typical LCD projector
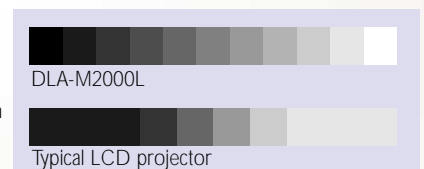
  Comparison of gradation characteristics

- *Color Enhancement Technology*
  This compensates for color contours to eliminate blur for crisper and sharper video images.

# Four optional lenses for flexible applications

With easy replacement of the lenses and power focus capability, this projector is versatile enough for a wide range of applications, ensuring high-resolution SXGA picture reproduction with minimized ghosting and flare under any conditions.

## GL-M2920ZG
### standard zoom lens
(2:1 — 3:1, 50% off axis)

With the 2:1 — 3:1 zoom lens, the DLA-M2000L can project clear, crisp images in large, bright venues such as auditoriums, corporate meeting rooms, and conference halls.

## GL-M2915SG
### short-focus fixed lens
(1.5:1, 30% — 55% manual shift)

The adjustable 1.5:1 (2% zoom) lens ensures you can obtain optimal projection images even when using two DLA-M2000Ls. As this lens has the same projection ratio as that used in many CRT projectors, a GL-M2915SG-equipped DLA-M2000L makes an ideal replacement for an existing CRTprojector.

## GL-M2930SZG
### long-focus zoom lens
(2.9:1 — 5.5:1, 30% — 55% manual shift)

Installing the long-focus 2.9:1 — 5.5:1 zoom lens allows you to use the DLA-M2000L in boardrooms, large conference halls, event hall, etc. By installing two DLA-M2000Ls in a stacked configuration, you can obtain an even higher level of brightness. Manual lens shift capability is also provided, so you won't have to reposition the projection screen.
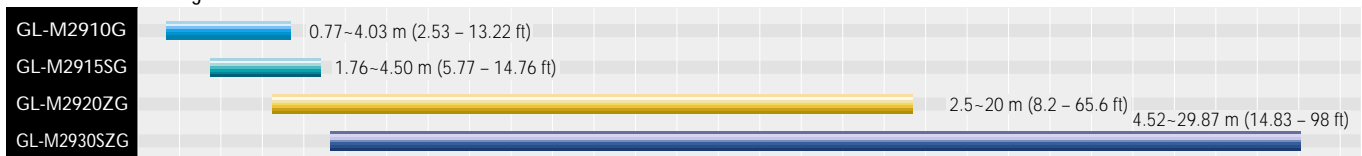
## GL-M2910G
### short-focus fixed lens for rear projection
(1:1, 0% on axis)

With this wide-angle 1:1 lens, you can use the DLA-M2000L as a rear projector. You'll get accurate projection images without picture distortion (0.2% TV distortion for a 70-inch screen). High-resolution graphics and CAD images created by PCs and workstations can be clearly displayed.

### Throw Distance range for each lens

| Lens | Range |
|---|---|
| GL-M2910G | 0.77~4.03 m (2.53 – 13.22 ft) |
| GL-M2915SG | 1.76~4.50 m (5.77 – 14.76 ft) |
| GL-M2920ZG | 2.5~20 m (8.2 – 65.6 ft) |
| GL-M2930SZG | 4.52~29.87 m (14.83 – 98 ft) |

### Throw Distance vs. Screen Size

| Screen Size (4:3 aspect ratio) | | | Throw Distance | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | GL-M2910G fixed (1:1) | GL-M2915SG fixed (1.5:1) | GL-M2920ZG zoom (2:1 - 3:1) | | GL-M2930SZG zoom (2.9:1 - 5.5:1) | |
| Diagonal | Width | Height | | | Wide | Tele | Wide | Tele |
| 40" | 0.81 m (2.66 ft) | 0.61 m (2.00 ft) | 0.77 m (2.53 ft) | – | – | – | – | 4.52 m (14.83 ft) |
| 60" | 1.22 m (4.00 ft) | 0.91 m (2.98 ft) | 1.17 m (3.84 ft) | 1.76 m (5.77 ft) | – | 3.55 m (11.64 ft) | – | 6.72 m (22.04 ft) |
| 80" | 1.63 m (5.35 ft) | 1.22 m (4.00 ft) | 1.58 m (5.18 ft) | 2.37 m (7.77 ft) | 3.15 m (10.33 ft) | 4.7 m (15.42 ft) | 4.74 m (15.55 ft) | 8.93 m (29.29 ft) |
| 150" | 3.05 m (10.00 ft) | 2.29 m (7.51 ft) | 3.01 m (9.87 ft) | 4.50 m (14.76 ft) | 5.82 m (19.09 ft) | 8.75 m (28.70 ft) | 8.80 m (28.86 ft) | 16.64 m (54.58 ft) |
| 200" | 4.06 m (13.32 ft) | 3.05 m (10.00 ft) | 4.03 m (13.22 ft) | – | 7.72 m (25.32 ft) | 11.63 m (38.15 ft) | 11.70 m (38.38 ft) | 22.15 m (72.65 ft) |
| 300" | 6.10 m (20.01 ft) | 4.57 m (14.99 ft) | – | – | 11.54 m (38.05 ft) | 17.40 m (57.07 ft) | 17.49 m (57.37 ft) | – |
| 400" | 8.13 m (26.64 ft) | 6.10 m (20.01 ft) | – | – | 15.35 m (50.35 ft) | – | 23.29 m (76.39 ft) | – |
| 500" | 10.16 m (33.32 ft) | 7.62 m (24.99 ft) | – | – | 19.17 m (62.88 ft) | – | 29.08 m (95.38 ft) | – |

# Versatile presentation support system

- **Digital keystone correction**
  Keystone correction of ±20˚ is possible, enabling easier and more versatile setup.

Before correction    After correction    Before correction
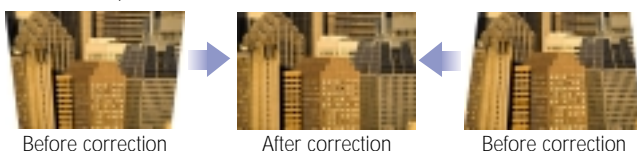
- **16x digital zoom function**
  The picture can be magnified up to 16x.

- **Freeze function**
  Lets you freeze the current image (still picture), so you can set up the next presentation.
- **User selectable color temperature**
  The optimum color temperature can be set for each media source (TV/film), making images smoother and more natural.
- **User channel presets**
  Up to 40 user channels (freq./phase/H Pos./V Pos./HV resolution/tone selection) can be preset, including 10 channels that can be linked with an external switcher. This assures flexibility and ease of use even with highly specialized applications.
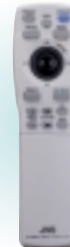
## Major Specifications

| | |
|---|---|
| **Image Device** | 3 D-ILA™ (0.9 inches diagonal) |
| **Projection Lens (optional)** | |
| GL-M2920ZG | 2:1 – 3:1 zoom, 50% off axis |
| GL-M2930SZG | 2.9 :1 – 5.5:1 zoom, 30% – 55%, manual shift |
| GL-M2915SG | 1.5:1 fixed, 30% – 55%, manual shift |
| GL-M2910G | 1:1 fixed, 0% on axis |
| **Brightness** | 2,000 ANSI lumens |
| **Native Resolution** | 1,365 x 1,024 pixels (full coverage of SXGA (1,280 x 1,024) graphics (SXGA, XGA, SVGA, VGA)) |
| **Source Resolution** | Up to 1,600 x 1,200 (compression of UXGA) (UXGA 60 Hz) |
| **Contrast Ratio** | More than 350 : 1 |
| **Color Reproduction** | 16.7 million colors (SXGA 60 Hz) |
| **Scan Frequency** | |
| Horizontal | 15 – 105 kHz |
| Vertical | 50 – 100 Hz |
| **Data Clock** | 160 MHz |
| **Screen Size** (m:width) (inch:diagonal, 4:3) | |
| 2:1 – 3:1 zoom | |
| Wide | 1.28 m – 10.59 m (63" – 521") |
| Tele | 0.85 m – 7.01 m (42" – 345") |
| 2.9:1 – 5.5:1 zoom: | |
| Wide | 1.63 m – 10.36 m (80" – 510") |
| Tele | 0.81 m – 5.49 m (40" – 270") |
| 1.5:1 | 1.22 m – 3.05 m (60" – 150") |
| 1:1 | 0.81 m – 4.06 m (40" – 200") |
| **Throw Distance:** | |
| 2:1 – 3:1 zoom | 2.5 m – 20 m (8.2 ft – 65.6 ft) |
| 2.9:1 – 5.5:1 zoom | 4.52 m – 29.87 m (14.83 ft – 98 ft) |
| 1.5:1 | 1.76 m – 4.50 m (5.77 ft – 14.76 ft) |
| 1:1 | 0.77 m – 4.03 m (2.53 ft – 13.22 ft) |
| **Lamp** | 550 watts, Xenon |
| **Speaker** | 1.0 W, monaural |
| **Inputs** | Analog RGB x 2 (D-sub (female) x 1, R, G,B, H, V x 1) Component x 1 (Y/R-Y/B-Y, Y/PB/PR) Y/C separated x 1 Composite x 1 |
| **Output** | PC monitor: D-sub (female) |
| **Power Requirements** | 200 V – 240 V (E TYPE), 100 V – 120 V (U TYPE), 50/60 Hz AC |
| **Power Consumption** | 850 W |
| **Dimensions** (WxHxD) | 505 x 265 x 393 mm (excluding lens and upper projections) (19.9" x 10.4" x 15.5") |
| **Weight** | 15.6 kg (34.32 lbs.) |

- *Wired remote control*
  The remote control unit can be wired for more reliable operation.
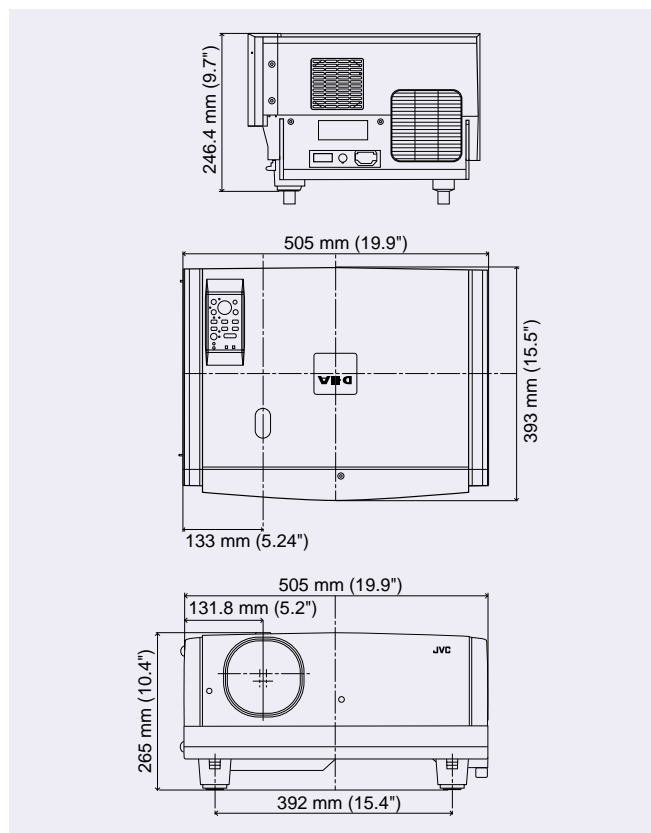- *RS-232C/mini-jack remote control*
  An RS-232C/mini-jack interface lets you control the projector from an external device, giving you a wider choice of system installation possibilities.

### Connectors

### Dimensions

246.4 mm (9.7")

505 mm (19.9")

393 mm (15.5")

133 mm (5.24")

505 mm (19.9")

131.8 mm (5.2")

265 mm (10.4")

392 mm (15.4")