

# MARQUEE® SERIES

## A BREAKTHROUGH IN PERFORMANCE AND RELIABILITY

Outstanding brightness, resolution and source compatibility make the *Marquee* series of CRT projectors the ultimate high resolution large screen display. The *Marquee* series delivers unparalleled performance and a set of standard features unsurpassed in the industry.

## DESIGNED TO MEET THE HIGHEST CUSTOMER EXPECTATIONS

Whether it's a world-class boardroom, a premier training facility or a state-of-the-art control room, the *Marquee's* unique open architecture ensures that your investment will continue to retain its value over time.

## PERFORMANCE DATA AND SPECIFICATIONS

### Optics

- High definition F1.1 hybrid lens
- 10 line pairs per mm resolution
- *Marquee* 8110/8500: 8" electromagnetic focus CRTs
- *Marquee* 8500LC: 8" liquid coupled electromagnetic focus CRTs for better contrast
- *Marquee* 9500LC: 9" liquid coupled electromagnetic focus CRTs for better contrast
- Scheimpflug adjustment for top, bottom and side to side focus

### Resolution

- 2500 x 2000 addressability
- *Marquee* 8110/8500/8500LC: 1350 x 1100 ANSI pixels
- *Marquee* 9500LC: 1500 x 1200 ANSI pixels

### Brightness

- *Marquee* 8110: 210 ANSI lumens
- *Marquee* 8500: 225 ANSI lumens
- *Marquee* 8500LC: 235 ANSI lumens
- *Marquee* 9500LC: 260 ANSI lumens (240 with filter on green, 900-1300 peak lumens depending on model)

### Display

- Electronic geometry circuits separately correct top, bottom and sides for flat, curved or rear screen applications from 67" to 25" (1.7m to 7.6m) diagonal, depending on lens options
- Keystone circuitry to correct pictures for angles up to +/- 15 degrees vertically from screen axis
- Color temperature adjustment for precise set-up
- S&C vertical and horizontal linearity
- Top, bottom, and side blanking
- *Marquee* projectors have 3D image capability with optional P43 short persistence phosphor tube
- *Marquee* 8500/8500LC/9500LC have 9 zone electronic astigmatism correction and 8 zone contrast modulation control
- *ACON*® II Automatic Convergence, on the *Marquee* 8111/8501/8501LC/9501LC, aligns the three CRTs to a sharp image in less than three minutes with three keystrokes
- *ACON* II has the ability to automatically converge two stacked projectors

### ASR/ASI

The projector will automatically update all parameters, including convergence, contrast, brightness, keystone, phase, etc., when a new source is detected. The set-up is taken from a matching memory or interpolated from two adjacent memories.

### Video Circuits

#### Input

0.5 to 1.0 volts p-p, 75 ohms +/- 1% terminated.

#### Gamma Correction

Circuitry for improved video performance and gray-scale tracking.

#### Frequency Response

*Marquee* 8110/8500/8500LC-100 MHz bandwidth (-3dB). *Marquee* 8110/8500/8500LC accommodates 4 nanosecond pixels and digital clock rates over 250 MHz. *Marquee* 9500LC-120 MHz bandwidth (-3dB). *Marquee* 9500LC accommodates 3 nanosecond pixels and digital clock rates over 300 MHz.

#### D.C. Restoration

Keyed clamp, better than 1% accuracy.

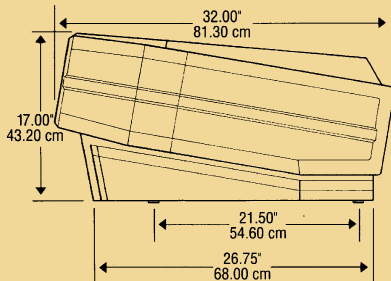
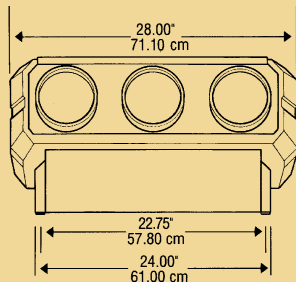


# MARQUEE®

- Highest image resolution
- Uncompromising reliability
- Accurate matching of images for large video wall applications
- Unique open architecture for future needs and growth
- The 8500, 8500LC and 9500LC are compatible with video sources, computers and graphics workstations up to 130kHz

## ELECTROHOME

Visionary Thinking™



**Sync and Deflection Circuits**

**Sync**

- Input level: 0.5 to 5.0 volts p-p, 75 ohms terminated
- Automatically switches to separate sync, composite sync or sync on green. Separate sync and composite sync are automatically accepted in either polarity
- *Smartlock™* processing circuitry for quick lock-in and ultra steady images

**Vertical Deflection**

Frequency Range: 38 Hz to 180 Hz autolock. Size automatically regulated over frequency range and electronically adjustable over a ±15% range. Retrace time: less than 300 microseconds.

**Horizontal Deflection**

- Frequency Range:
- *Marquee 8110* - 15 kHz to 110 kHz
  - *Marquee 8500* - 15 kHz to 130 kHz
  - *Marquee 8500LC* - 15 kHz to 130 kHz
  - *Marquee 9500LC* - 15 kHz to 130 kHz

Size automatically regulated over frequency range. Retrace time compatible with signals having horizontal blanking times down to 1.8 microseconds.

**Geometry**

- Rectilinear Accuracy: 1.0% maximum of picture height
- Horizontal Linearity: 2.0% maximum
- Vertical Linearity: 1.0% maximum

**High Voltage**

34.9 kV regulated to better than +/- 1%

**Power Requirements**

- 90 VAC to 264 VAC universal input
- Line frequency 50 to 60 Hz nominal
- Power 650 watts maximum
- Power factor corrected

**Inputs**

- Built-in RGB input, with stereo audio input. Optional input modules can install in interface slot
- Stereo audio inputs on all input modules, with audio-follow-video switching
- Built-in RS232 for computer control, with loop through for connection of multiple projectors
- HDTV compatible with optional interface module

**Outputs**

- Stereo audio outputs with volume control

**Contrast Modulation**

This feature adjusts the brightness in multiple zones for improved color and brightness uniformity. Standard on 8500, 8500LC and 9500LC models.

**Image Shifter**

This interface moves the image slowly on the CRT phosphor surface to reduce the harmful effects of a static image.

**Optional Source Expansion**

The *Marquee* Signal Switcher allows use of up to 9 additional input modules. Up to 9 switchers can be connected. Maximum number of inputs: 78

**Control Features**

- Multi-language software (user selectable)
- Built-in set-up tutorials
- 5 built-in test patterns
- Programmable Events and Real Time Clock
- Menu driven interface with on-screen help
- Auto power-up after power interruption
- Internal frequency generator

**Maximum Operating Range**

- Temperature: 0° to 35° C (32° to 95° F)
- Humidity: 0 to 90% non-condensing
- Altitude: 0 to 3000m (0-10,000 ft)
- Storage Temperature: -30° to 65° C (-22° to 149° F)
- Heat Dissipation: 2450 BTU/HR (approx.)

**Mounting**

Can be ceiling mounted on its optional ceiling mount or placed on a castered cart for portable applications.

**Weight**

- *Marquee 8110* 144 lbs/65 kg
- *Marquee 8500* 145 lbs/66 kg
- *Marquee 8500LC* 175 lbs/79 kg
- *Marquee 9500LC* 186 lbs/84 kg
- *Marquee 8110* (shipped) 194 lbs/88 kg
- *Marquee 8500* (shipped) 210 lbs/95 kg
- *Marquee 8500 LC* (shipped) 229 lbs/104 kg
- *Marquee 9500 LC* (shipped) 229 lbs/104 kg

**Accessories Included**

- 2 full function programmable remote IR keypads
- User's manual
- 10' line cord
- Tool kit

**Regulatory Approvals**

• Meets FCC Class A, DHHS and HWC plus CSA/UL/EN 60 950 requirements.

**Warranty**

- One year parts and labor WARRANTY
- Modular design provides ease of servicing
- *Marquee* Series Accessories

**Optional Accessories available**

- Interface Modules
- *Marquee* Signal Switcher
- Video Decoder
- *Marquee* Case/Power Supply
- Wired keypad
- Ceiling mount
- Retro III rear screen enclosure
- *Marquee* librarian
- *Marquee* encyclopedia
- Interconnecting cable
- Network cable
- Image shifter (standard on 9500LC)
- Synchronization cable
- Contrast modulation upgrade kit

**ELECTROHOME**

Visionary Thinking™

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www.electro.com



Certificate # 601

Specifications are for the *Marquee 8110*, *Marquee 8500*, *Marquee 8500LC*, and *Marquee 9500LC* series of projectors. Due to constant research, specifications are subject to change without notice.