

*MARQUEE® 8520 Ultra*

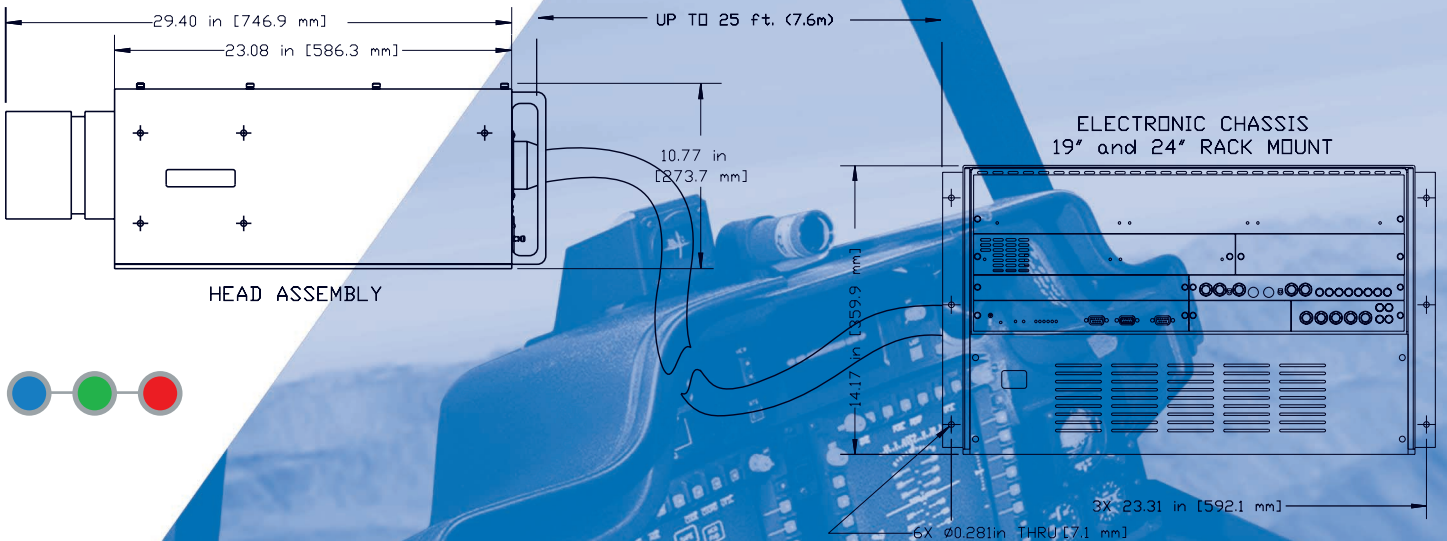


Features include:

- > Rugged construction
- > Cable length up to 25'
- > Separated electronics chassis is rack mountable

Applications include:

- > Ideal for motion-based platforms



# MARQUEE® 8520 Ultra Specifications

## Optics

- > High definition Fl. 1 hybrid lens
- > 10 line pairs per mm resolution
- > Marquee 8520LC Ultra HD117-12 liquid coupled optical system, or
- > Marquee 8520LC Ultra HD117-24 liquid coupled optical system
- > Marquee 8520 Ultra w/ HD8 air coupled optical system
- > Scheimpflug adjustment for top, bottom and side-to-side focus

## Resolution

- > Marquee 8520LC Ultra: 2048 x 1536 pixels

## Brightness

- > Marquee 8520 Ultra: 225 ANSI lumens
- > 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

- > 0.5 to 1.0 volts p-p, 75  $\Omega$   $\pm$ 1 % terminated
- > Circuitry for improved video performance and gray-scale tracking Marquee Ultra
- > Series: 150 MHz bandwidth (-3dB); (accommodates 3 nanosecond pixels and digital clock rates over 300 MHz),
- > Keyed clamp, better than 1 % accuracy

## Sync and Deflection Circuits

- > Input level: 0.3 to 5.0 volts pp., 75 ohms terminated

## Geometry

- > Rectilinear accuracy: 1.0 % maximum of picture height
- > Horizontal Linearity: 2.0 % maximum
- > Vertical Linearity: 1.0% maximum
- > Top and bottom keystone control
- > Vertical and horizontal skew control
- > Vertical and horizontal bow control
- > Special Extended Geometry Distortion Option available

## Power Requirements

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

## Control Features

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

## Scope of Supply

- > Optics head: 3 CRTs and lenses
- > 10' electronic cable (or longer) with connectors
- > Electronics base unit
- > 2 full function programmable remote IR keypads.
- > Users manual
- > 10' AC line cord
- > Tool Kit

## Display

- > Electronic geometry circuits separately correct top, bottom and sides for flat, curved or rear screen applications from 60" to 25' (1.7m to 7.6m) diagonal, depending on lens options
- > Keystone circuitry to correct pictures for angles up to  $\pm$ 15° degrees vertically from screen axis
- > Color temperature adjustment for precise set-up
- > S&C vertical and horizontal linearity
- > Top, bottom, and side blacking

- > Scheimpflug adjustment for top, bottom and side to side focus
- > Marquee Ultra projectors have 3D image capability with optional P43 short persistence phosphor
- > Marquee Ultra has 9 zone electronic astigmatism correction and 8 zone contrast modulation control
- > ACON II Automatic Convergence, an optional accessory, 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
- > Automatically switches to separate Sync, composite sync or sync on green. Separate Sync and composite sync is automatically accepted in either polarity. (Sync on green limited to 180 kHz
- > Smartlock(tm) processing circuitry for quick lock-in and ultra steady images

## Vertical Deflection

- > Frequency range: 39.5 Hz to 185 Hz. Size automatically regulated over frequency range and electronically adjustable over a 115 % range. Retrace time: less than 300 microseconds

## Horizontal Deflection

- > Frequency range: Marquee Ultra Series: 15 kHz to 152 kHz
- > Size automatically regulated over frequency range. Retrace time compatible with signals having horizontal blanking times down to 1.5 microseconds

## Inputs/Outputs

- > 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
- > Stereo audio outputs with volume control

## Contrast Modulation

- > This feature adjusts the brightness in single or multiple zones for improved color and brightness uniformity. Standard on all Marquee Ultra models

## Maximum Operating

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

## Weight

- > Marquee 8520LC Ultra 80 kg / 176 lbs. (shipped) 104 kg / 229 lbs.

## Optional Accessories Available

- > Interface Modules
- > Marquee Case/Power Supply
- > Interconnecting cable
- > Synchronization cable
- > Marquee Signal Switcher
- > Wired keypad
- > Network cable
- > Video Decoder
- > Image shifter

## Regulatory Approvals

- > Meets FCC Class A, DHHS and HWC plus CSA / UL / EN 60 950 requirements
- > EN55022 Class B and EU directives 73/23/EEC, 89/336/EEC (CE marked)

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

Due to constant research, product specs are subject to change without notice

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