

Montage LX33 • Specifications

Analog RGB Input

- Active stereo 3D input via 15-pin D-sub (VESA) standard connector
- High bandwidth buffered loop-through of active stereo 3D input via second 15-pin D-sub connector (e.g. to local monitor)
- Four different active stereo input formats: separate channels, above-and-below, line interleaved, frame or field sequential
- Input resolution from VGA 640 x 480 to SXGA 1280 x 1024
- Input horizontal frequency range: 15-130kHz
- Input vertical frequency range: 60-120Hz
- Scan format: progressive, interlaced (interlaced is handled as field sequential stereo signal)
- Input dot (pixel) clock rate 240MHz max.
- Sync input: separate H and V, composite, sync-on-green
- 3-pin mini-DIN stereo sync input connector

Projection Light Output

- Two 3300 ANSI lumen LCD projectors (total 6600 ANSI lumens without filters)

Resolution and LCD Panels

- 3 x 1.3" AM TFT p-Si LCD panels with XGA resolution (1024 x 768 pixels per panel)

Contrast Ratio

- 500:1 full field

Additional Projector Inputs

- Input #2: analog RGB with 5 BNC connectors for RGBHV, YPbPr, YUV formats
- Input #3: composite and S Video connections for all major video and HDTV standards

Other Features of LX33 Projectors

- Multi-language OSD menus for ease of set-up
- Motorized lens zoom, focus and shift
- Horizontal and vertical digital keystone
- Digital zoom and pan feature

Warranty

- Montage LX33 – 1 year parts and labor
- Lamp warranty – 120 days

Environment

- Montage LX33 operating temperature: 0° C to + 35° C
- Operating humidity (non-condensing): 20% to 80%
- Storage temperature: -20° C to +60° C
- Storage humidity (non-condensing): 0% to 90%

Total Montage Power Requirements

- Voltage range (auto-switching): 100 - 240 VAC +/-10%
- Line frequency: 50-60Hz nominal
- Power consumption: 780W maximum

Standard Accessories (Packaged with Montage LX33)

- One power transformer
- Three 110 VAC cord
- Three 220 VAC cord (European)

FEATURES



- *Adjustable stacker provides six degrees of freedom.*



- *Linear fan control for quiet operation - 35dB.*



- *Three different analog and digital inputs with resolution from VGA to SXGA.*

Analog RGB Outputs to LX33 Projectors

- Passive stereo outputs for left-eye and right-eye in analog RGB formats via two 15-pin D-sub connectors connected to analog RGB inputs on the LCD projectors
- Horizontal frequency range (projector input): 15-100kHz
- Vertical frequency range: any vertical frequency within the limits of pixel clock (projector input range 50-100Hz)
- Scan format: progressive
- Output dot (pixel) clock rate 120MHz (per channel) max.
- Sync output: separate H and V

Digital RGB Outputs

- Passive stereo outputs for left-eye and right-eye in digital RGB formats via two DVI-D connectors connected to DVI-D connectors on inputs 1 of the LCD projectors
- Compliant with DVI 1.0 (single link)
- Sync output: separate H and V

Control/Networking – AP Converter

- Easy-to-access AP Converter's built-in keypad
- Built-in RS232 communication port (RJ45)
- Built-in RJ45 link port to network multiple converters
- Projector 8-pin mini DIN control port input and the USB type B port

Other Features of AP Converter

- Intuitive on-screen display menus for ease of set-up
- Pixel tracking and phase adjustments
- 24-bit digital processing
- Auto set-up feature
- Upgradeable firmware
- Two built-in diagnostic LEDs
- Standby mode and factory setting mode

- Linear fan control system for quiet operation of 35dB
- Auto set-up feature
- Projector IR remote keypad with laser pointer

Lamp Specification

- 275W NSH user replaceable lamp

Polarization

- *Linear polarization is the standard polarization
- Circular polarization is optional

Operation

- The AP Converter and two LCD projectors are operated by their built-in keypads or by a PC or other control device using RS232

Size

- Montage body dimensions: 20" L x 17.9" W x 27.4" H (510mm L x 455mm W x 695mm H)

Weight

- Montage LX33 - 66 lbs (30.2 kg) (unpacked)

Safety and Regulatory

- Safety – CSA C22.2 No. 950, UL, 1950, EN609050 European Norm
- Complies with relevant worldwide EMC and safety standards
- The product complies with FCC Class A and EN55022 Class A requirements
- The product conforms to all relevant European directives, standards, safety, health and environmental concerns and bears the CE marking

Reliability

- Estimated MTBF (Mean Time Between Failure) – 30,000 hrs

- Three RGB computer cable (15-pin D-sub male/male)
- One serial RS232 cable, RJ45 to 9-pin D-sub female (AP Converter)
- One 3-pin mini DIN stereo sync cable (AP Converter)
- One pair left and right hand linear polarized acrylic filters (size 4" x 4", 45° orientation and transmission 38%)
- One filter stand
- Ten pairs linear polarized glasses
- User's manuals for the AP Converter, LX33 projectors and Montage stacker
- Warranty cards
- Two lens covers
- Two dust covers
- Two projector IR remote keypads with laser pointer and mouse control
- Two MAC/VGA adapters
- Two DVI cables

Optional Accessories and Lenses with Vertical Lens Offset (Sold Separately)

- Lamp module
- Transit case for the LX33 projector
- Medium throw: 1.3-1.8:1 zoom lens
- Standard throw: 1.8-2.1:1 zoom lens
- Long throw: 2.4-4.3:1 zoom lens
- ChristieNET™ networking connectivity for projector monitoring and control

*Note: Linear polarization is highly recommended for the applications where there is limited head tilting. Although providing an excellent separation between left and right eye information, the linear polarization is sensitive to the extensive head tilting when the resulting orientation of the passive polarization glasses does not match the orientation of the polarization filters mounted in front of the projectors. If there is a requirement for extensive head tilting and change of the viewing angle, then the circular polarization is recommended. To maintain good separation between left and right eye images, there is a need for tighter match between the circular polarizers in front of the projectors with the circular eyewear.

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Designed under ISO 9001

CHRISTIE
Project. Present. Perform.

Montage LX33

Affordable, Portable Passive 3D Stereo in One Compact Package

Christie's Montage LX33 is a compact passive stereo 3D solution that enables 3D imaging for large audiences, without the high cost.

All you need for a passive 3D display is neatly packaged in an affordable solution that is easy to set-up, low maintenance, and portable, which translate into greater value for your investment. High quality stereo projection is in reach with this flexible system that includes:

- Two LX33 LCD 3300 lumens projectors
- A unique 6-axis adjustable stacker
- Christie's Active to Passive 3D Converter
- A polarization stand with two linear polarizers
- Necessary cables
- A set of 10 passive glasses

APPLICATIONS

- | | |
|--|---|
| • Scientific visualization, research and development | • Entertainment, theme parks, amusement parks |
| • Computer-aided design | • Molecular modeling |
| • Education, training | • Oil and gas exploration |
| • Design and prototype modeling | • Architectural design |

Versatile for any application, the Montage LX33 can be used as front or rear projection and the adjustable stacker offers ultimate control over the most demanding environments.



Montage LX33

Affordable, Portable Passive 3D Stereo in One Compact Package

If you're looking for an entry-level 3D solution without compromising on image quality, price, performance or flexibility and ease of use, Christie's Montage LX33 is your answer. From the company that offered the world's first 3-chip DLPTM stereoscopic Mirage projectors, this fully integrated system allows you to utilize 3D active stereo content and project it as an affordable passive stereo solution. The AP Converter converts an incoming active stereo 3D signal to two passive stereo 3D output signals. The separated left-eye and right-eye information is routed to the stacked LX33s, and viewed through polarized 3D glasses for a quality stereoscopic display on a non-depolarizing screen.

This high brightness solution is compatible with all most-used source resolutions (from VGA to SXGA) and compatible with all major 3D formats providing further flexibility with virtually unlimited sources. With a 500:1 contrast ratio, the Montage LX33 offers excellent image quality and, this system is capable of passive stereo output in both analog and digital format – the DVI-D connectors provide high quality, noise-free images.

As versatile as your needs, the Montage LX33 can be used in front or rear projection and the adjustable stacker unit provides you with ultimate control over the most demanding environment challenges. The efficient stacker unit combines everything you need for passive stereo projection without capitalizing on space. And, that convenience makes this an excellent shared resource that's easy to move from facility to facility.

We make 3D passive stereo projection an affordable technology.

Recreate reality...with Christie.

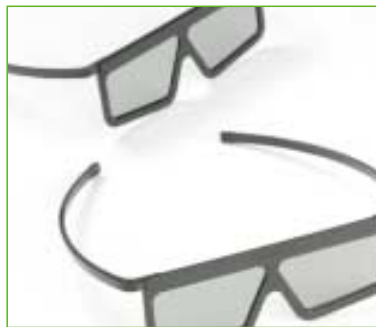
Motorized lens zoom, focus and shift plus horizontal and vertical keystone correction provide the ultimate control of your stereo 3D images.



Christie's AP Converter provides active stereo 3D input via a standard 15-pin VGA connector and passive stereo output in both analog and digital format.



A set of 10 linear polarized 3D glasses makes larger audience participation in your stereo 3D display a simple, cost-effective implementation.



FEATURES

- High light output and contrast ratio
- True XGA (1024 x 768) display resolution
- Motorized zoom, focus and lens shift
- Active stereo 3D input via standard 15-pin VGA connector
- Active stereo input resolution compatibility from VGA (640 x 480) up to SXGA (1280 x 1024) at 120Hz
- Supports a variety of active stereo formats (separate channels, above-and-below, line interleaved, frame or field sequential)
- Passive stereo output in both analog and digital format
- Auto set-up
- Small and compact package
- 24-bit digital processing
- Built-in link port for networking
- Easy OSD
- High input bandwidth: up to 240MHz
- Built-in test patterns
- High reliability