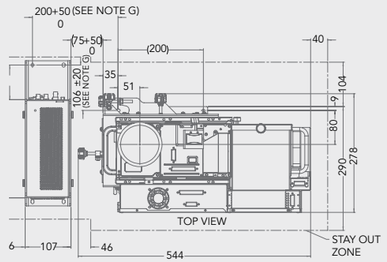
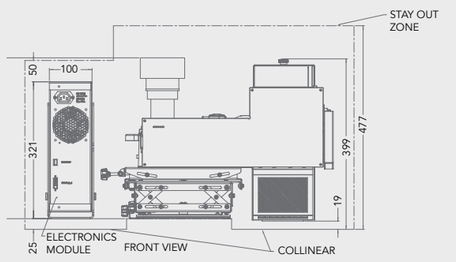
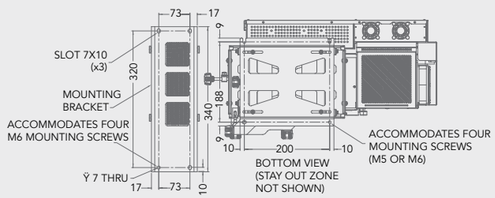
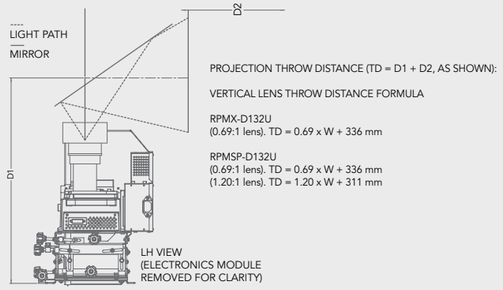
## Vertical lens configuration



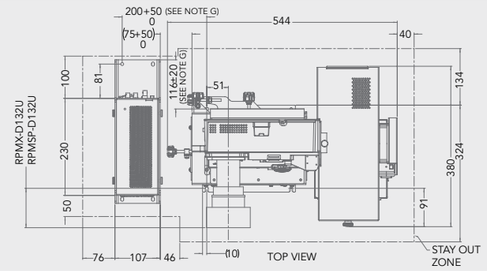

PROJECTION THROW DISTANCE (TD = D1 + D2, AS SHOWN):

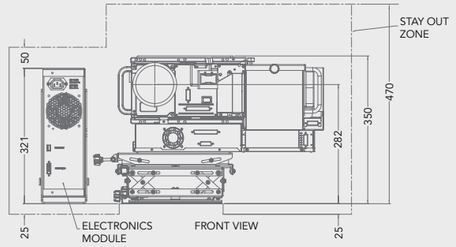
VERTICAL LENS THROW DISTANCE FORMULA

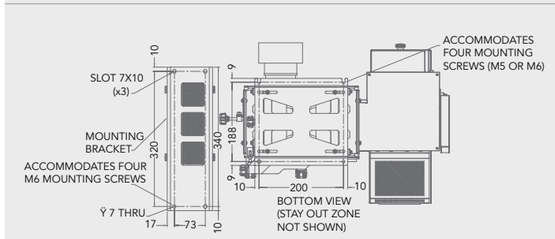
RPMX-D132U
(0.69:1 lens). TD = 0.69 x W + 336 mm

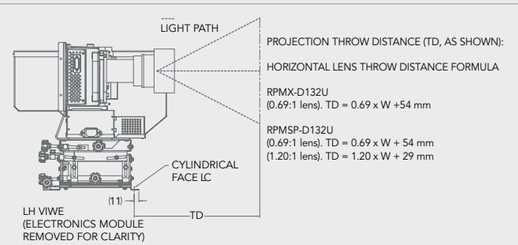
RPMSP-D132U
(0.69:1 lens). TD = 0.69 x W + 336 mm
(1.20:1 lens). TD = 1.20 x W + 311 mm

## Horizontal lens configuration




PROJECTION THROW DISTANCE (TD, AS SHOWN):

HORIZONTAL LENS THROW DISTANCE FORMULA

RPMX-D132U
(0.69:1 lens). TD = 0.69 x W +54 mm

RPMSP-D132U
(0.69:1 lens). TD = 0.69 x W + 54 mm
(1.20:1 lens). TD = 1.20 x W + 29 mm

Notes: A. Dimensions in brackets are for reference only B. Dimensions are millimeters C. Adjuster is in neutral position D. Stay out zone required for air flow, adjuster range, cable routing and service E. Projection distance tolerance ± 1.5% F. The electronics module is shown in nominal position relative to projector's body it can be relocated to the left up to 50, and ± 20mm back and forth from nominal position.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CHRISTIE®

# XGA and SXGA+ dual lamp rear screen video wall display projectors

RPMX-D132U | RPMSP-D132U

◀ Christie RPMSP-D132U

## Your partner for high-performance video wall displays

You expect quality. You need an effective solution that works reliably 24/7, no questions asked. For more than 30 years, Christie® has been manufacturing high performance rear projection video wall engines and display systems that allow you to maximize your efficiency and response time when monitoring or managing critical real-time information and situations.

Christie's rear-screen video wall display projectors are the engines that drive high performance video walls. Our projectors are designed for new video wall systems, such as cubes or structures, and for upgrading existing video wall systems, without having to replace the entire system. Christie's video wall projectors are purpose built for 24/7 data-monitoring environments and come in a wide range of resolutions and display sizes.

CHRISTIE®

▲ Madrid Airport

◀ Massachusetts Bay Transit Authority

# Benefits of Christie rear projection technology

| Purpose built for high performance | |
|---|---|
| Image | Ultra high contrast, viewability and display performance |
| | DLP® technology for best data and video imaging |
| | Comprehensive color adjustment features for exact color matching between projectors |
| | Integrated 6 axis adjustment system for precise geometry alignment |
| Flexibility | Numerous configuration options depending on resolution and brightness requirements |
| | Multiple lens types to support various screen technologies, including large screen sizes |
| | Hot swappable automatic lamp changer to minimize interruption upon a lamp failure |
| | Specialty color and brightness management features for best matching across multiple displays |
| | Built-in edge blending for seamless tiling applications |
| | Accommodating display screen sizes ranging from 50" to 120" |
| | Extensive and easy-to-use projector control capabilities |
| | Constant diagnostic monitoring |
| **Purpose built for overall low cost of ownership** | |
| Extremely long life lamps and a lamp redundancy feature save time and money | |
| Extremely high system reliability (MTBF) | |
| Modular design for minimal downtime if a repair is required | |
| Designed for long-term use and performance – no need to replace in a few years | |
| The best pro-rated lamp warranties – not only for the original lamps supplied, but also for replacement lamps | |
| **Purpose built for reliability** | |
| Utilizing the best technologies to ensure high reliability and long useful life | |
| MTBF of over 63,000 hours (based on actual field results of earlier lower brightness version) | |
| 1-chip DLP technology offers superior images and long life stability | |
| Dust free sealed optics protect key optical components from even the smallest particles | |

| | Operating mode | Brightness (ANSI lumens) | Lamp power | Lamp life[1] | White boost | Color matching performance | Color wheel[2] | Contrast ratio[3] |
|---|---|---|---|---|---|---|---|---|
| **RPMX-D132U (XGA)** | max bright | • 1100 max., 995 typ. | • 132W | • 6000 hrs | • On | • Reduced | • 4 segment (RGBW) | • 2700:1 FF 550:1 ANSI |
| | eco | • 585 max., 510 typ. | • 120W | • 10,000 hrs | • Off | • Best | | |
| **RPMSP-D132U (SXGA+)** | max bright | • 1350 max., 1175 typ. | • 132W | • 6000 hrs | • On | • Reduced | • 4 segment (RGBW) | • Up to 2500:1 FF up to 630:1 ANSI |
| | eco | • 645 max., 560 typ. | • 120W | • 10,000 hrs | • Off | • Best | | |

[1] For UHP (Mercury) lamps, expected lamp life is based on lamp manufacturer's rating. Typical expectation is that greater than 50% of lamps will reach lamp life rating when operated as specified.
[2] The RPMX-D132U and RPMSP-D132U use a standard 4 segment color wheel with a white segment to enable higher brightness. The white segment may be disabled from display use which enables best color matching ability. [3] Maximum contrast ratios are shown. The contrast ratio specified is the "natural" contrast ratio measured by both full field and ANSI methods. Such values are critical for proper contrast performance assessment – especially for video walls and walls. These values are not based on using "dynamic" enhancements, which are primarily designed for individual video displays and can affect brightness. Contrast ratios and brightness specifications shown are based on the 0.69:1 lens. Small variances may exist with other lens types.



# Technical specifications

| | | RPMX-D132U | RPMSP-D132U |
|---|---|---|---|
| **Recommended application** | | • Rear projection video walls with screen sizes from 50-70" diagonal, each at XGA resolution | • Rear projection video walls with screen sizes from 50-70" diagonal, each at SXGA+ resolution |
| **Technology** | imaging | • 1-chip DLP, Dark Chip | |
| | native resolution | • XGA (1024 x 768) | • SXGA+ (1400 x 1050) |
| | illumination | • Dual (redundant) UHP (120/132W) | |
| **Inputs** | standard | • 5-BNC: RGBHV/YPbPr • DVI-I (digital/analog, RGB/YPbPr, HDCP) • Composite video, S-video | |
| | scan rates | • Horizontal: 15-120kHz • Vertical: 23.97-150Hz • Pixel clock: 210 MHz | |
| | expansion | • One expansion slot for adding input modules | |
| | optional modules | • RGB 400 Active Loop-through input module • Dual SD/HD-SDI input module • DVI input module | |
| | compatibility | • All Christie video wall controllers • Compatible with VGA to QXGA<br>• Separate, composite sync and sync-on-green compatible, accepts composite video, S-video (Y/C), component video (YUV) and HDTV (YPbPr)<br>• Accepts and displays all currently known HDTV formats (1080i, 720p, 576i/p, 480i/p) | |
| **Output display** | compatibility | • SXGA+ models can also operate in native SXGA mode | |
| **Color** | temperature range | • 3200-9600K | |
| | processing | • True 10-bit digital color processing • 13-bit color correction | |
| | adjustment and control | • Comprehensive Color Adjustment (CCA™) for true color matching | |
| **Optical** | lens types[1] | • 0.69:1 low distortion, zero offset | • 0.69:1 and 1.2:1 low distortion, zero offset |
| | screen size range | • 50-100" diagonal | |
| | brightness uniformity | • 90% • Brightness uniformity control provides up to 100% uniformity capability for critical applications | |
| **Control/ networking** | ports/controls | • 2 RS-232 ports and 1 RS-422 port • Field upgradable software via RS-232 network or Ethernet<br>• IR remote control • GPIO port • On-board ChristieNET™ connectivity (RJ45) | |
| **Upgradability** | software | • Christie KoRE™ 10-bit librarian communication software for field upgrade of firmware | |
| **Compatibility** | cubes and video walls | • All models compatible with standard Christie CC50-2301 (50") cubes and CC67-3001 (67") cubes<br>• SXGA+ models compatible with Christie CK Series 70", 80", 84" and 100" video wall systems | |
| **Optional Accessories** | inputs | • See optional input modules above | |
| | other | • Wired remote control • Service manual • Warping module for SXGA+ models | |
| | retrofit kits | • Retrofit kits available for upgrading existing video walls with newer light engines | |
| **Physical characteristics** | dimensions | • See included line drawings | |
| | weight (approx.) | • 52lbs (23.6kg) | |
| | shipping weight (approx.) | • 60lbs (27.2kg) | |
| **Environment** | operating temperature[2] | • 40-95°F (5-35°C) | |
| | non-operating temperature | • -4-122°F (-20-50°C) | |
| | humidity | • 20-80% non-condensing | |
| | altitude | • 0-3000m (0-10,000ft) | |
| **Power ratings** | voltage | • 100-240 VAC ±10% 50/60Hz | |
| | current | • Rating: 2.4A @ 100V, 1A @ 240V | |
| | consumption | • 240W | |
| | dissipation (maximum) | • 820 BTU/hr | |
| **Reliability and serviceability** | MTBF | • Projector: 63,000 hrs – excluding lamp (calculated based on actual field data of original D120U model using same projection platform)<br>• Color wheel: air bearing type – 50,000 hrs | |
| | MTTR | • <15 minutes with modular design • <5 minutes for lamp | |
| **Regulatory (projection engine)** | | Directives: (EC) 2002/95/EC (RoHS) • 2002/96/EC (WEEE) • Regulation (EC) No. 1907/2006 (REACH) • CAN/CSA C22.2 No. 60950-1<br>• UL 60950-1 • IEC 60950-1 • FCC, Part 15, Subpart B, Class A • EN55022/CISPR22 Class A • EN55024/CISPR24<br>• Certifications marks (check with Christie for latest update): • cULus (Canada & US) • CE (EU) • CCC (China) • GoST-R (Russia)<br>• KC (Korea) • PSE (Japan) • C-Tick (Australia & New Zealand) | |
| **Calibration** | | • All units are factory calibrated for best color performance • Auto-calibration of lamp occurs upon lamp replacement | |
| **Limited warranty** | | • Two years parts and labor (excluding lamp) • Lamp – pro-rated for original lamps and all service replacement lamps | |
| **Additional features** | | • Integrated 6-axis adjustment system for precise geometry alignment • Full-function remote keypad with easy-to-use menu system<br>• Multiple set-up memories to manage multiple input sources • Picture-in-Picture capability • Control and status monitoring over IP<br>• Adjustable lamp power • Extensive scaling capability • Built-in edge blending capability on SXGA+ models • Optional image warping capability | |

[1] Nominal lens throw ratio shown. Actual throw distance may be within 5% of nominal value. Contact your Christie representative for details.
[2] For best long-term performance and reliability, Christie recommends that all electronic equipment, such as projection systems, are regularly operated at temperatures below 77°F (25°C).