

CP Series



Making Exhibition Easy

Christie's CP Series projectors are the world's most comprehensive digital cinema solutions. Designed for exhibitors, the CP Series delivers high performance projection for a variety of screen sizes with a flexible design to accommodate future upgrades and reduce the cost of ownership.

Utilizing the most advanced technologies available in the market today, Christie's CP Series projectors set a new level of perf-ormance for digital cinema technology. Choices in brightness levels and power levels offer flexibility for a variety of screen sizes in existing theatre infrastructure and protect today's investments for tomorrow's development.

Christie's digital solutions speak directly to exhibitors' requirements – a high quality, high-performance solution that is easy to integrate into the theaters of today, reliable, and a lower cost of ownership. Simply put, Christie's CP Series projectors are easy to install, easy to use and easy to own.

APPLICATIONS

- Cinema/exhibition
- Post-production
- On-screen advertising
- Digital film mastering
- Multi-media theatrical productions
- Large entertainment venues



Christie's digital cinema projectors light up screens around the world with the latest digital releases from major studios.

CP Series

Easy to install. Easy to use. Easy to own.

Coupled with a highly efficient Illumination Optical System (IOS™), the CP Series delivers brightness performance exceeding standard high definition quality. High efficiency compound glass reflectors with improved focal point, reduced thermal signature and higher light output create stunning images with greater than high-definition resolution. Christie's proprietary design ensures the highest quality color reproduction.

Easy to install.
The flexible design of the CP Series allows upgrades to future versions, and the modular two-piece design of projector and pedestal requires no optical alignment, minimizing valuable time required for installation and set-up. The CP Series projectors can integrate into any standard theater environment and be operational in an hour.

Easy to use.
The CP Series interfaces to digital cinema servers and third party peripherals through Ethernet connectivity. No special tools or interfaces are required. Christie's LampLOC™ lets you align the lamp at the touch of a button, maximizing brightness in seconds. Christie's proprietary dust sealing technology, LAD, prevents dust contamination of critical system components and eliminates the need for cleaning. LiteLOC™ ensures constant brightness on the screen over time. The System Supervisor Module (SSM™) provides remote system diagnostics as well as monitoring via the Touch Panel Controller (TPC™).

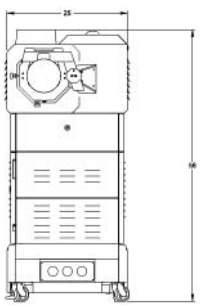
Easy to own.
The CP Series provides a dramatic overall reduction in system operating costs when compared to 35mm projection. With the improved performance of CDXL short-art xenon lamps, purpose-built for digital cinema applications, the power consumption of the CP Series projectors is lower than traditional 35mm projectors for the equivalent brightness performance. Less maintenance and less service points are required. And 35mm film projectionists can perform system operation and set-up.

If it's cinema, it's got to be Christie.

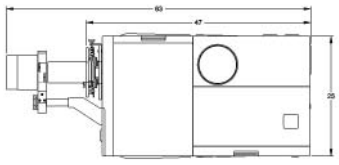
TECHNICAL SPECIFICATIONS

CP2000

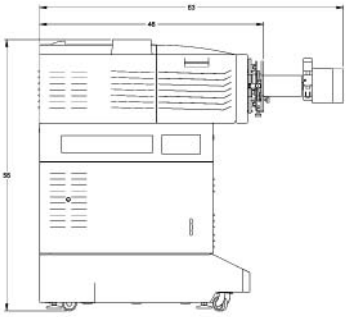
FRONT VIEW

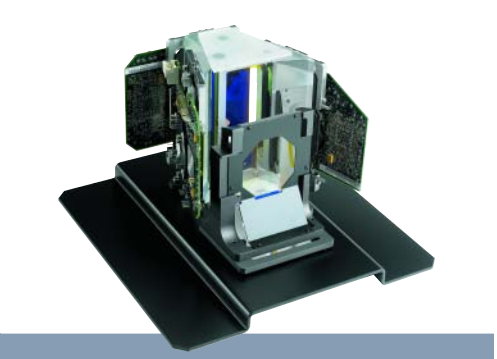


TOP VIEW



SIDE VIEW





A 6-element prism with Christie's proprietary IOS™ ensures the highest quality color reproduction.



Christie's Touch Panel Controller (TPC™) provides system set-up and control of the projector via Ethernet.

	Christie CP2000H	Christie CP2000i
DMD™ Resolution	HD 2048 x 1080	HD 2048 x 1080
DMD Size & Type	1.2", 12°	1.2", 12°
Lamp Type	CDXL 4.5/6.0kW	CDXL 2.0/3.0kW
Contrast Ratio (ANSI)	+500:1	+500:1
Contrast Ratio (Full Field)	+1700:1	+1600:1
Screen Size	Up to 75 ft/23m	Up to 50 ft/15m
Ballast	7kW Thyristor	4kW Thyristor
Color Resolution	15bit RGB	15bit RGB

Additional Features

CP2000 Series (H/i)

- CP2000H is designed for large screen exhibition applications
- CP2000i is ideally suited for small screen exhibition and post-production applications
- Both H and i systems can be installed in parallel with existing film projectors
- Both H and i systems provide interfaces to all theater automation equipment used in exhibition today
- Incorporates a two-piece projector + pedestal design with secure access

CP2000 Series Options

- ChristieNET™ networking for monitoring and control
- Anamorphic lens (1.26:1) for scope format

CP Series Touch Panel Controller

- 5.7" QVGA Touch Screen Display Panel with user definable preset buttons and real-time display of critical projection system information, lamp status, DMD temperature, interlocks, ballast condition, event and error log
- Touch Panel Controller buttons for optimized lamp position (LampLOC™) and constant brightness over time (LiteLOC™)
- 7.7" W x 5.8" H x 1.6" D (195mm W x 148mm H x 40mm D)
- Ethernet port (10 base-T)
- Power input 24VDC, 0.5A maximum
- EMI FCC Class B certified
- CE certified
- BSMI certified

Control

- PC set-up via Ethernet (1) and RS232 serial connection

Management

- Christie CP Series Librarian communication software allows projector setup, calibration, masking, cropping and image resizing



Based on the Texas Instruments DLP Cinema™ "dark chip" - the CP Series projectors address screen sizes and pixel counts for varying applications. At the heart of the new CP Series are Christie's CDXL high performance, brighter short arc Xenon lamps.

CP Series • Specifications

Cinema/exhibition, post-production houses, on-screen advertising, digital intermediate film mastering, multi-media theatrical productions, other large entertainment venues

Brightness (measured at screen center)
- Light output meets SMPTE standard 12fL (film 16fL open gate) for screens 23m (up to 75ft width)

Contrast Ratio
- >1700:1
- >500:1

Brightness Uniformity
- >90 when displaying full white screen

TI DLP Cinema™ Technology
- CineBlack™
- CineCanvas™
- CineLink™
- CinePalette™

Digital Micromirror Device™
- 2K 3-chip DMD DLP Cinema™
- 2048 x 1080 pixels

Input Line Voltage
- 208 VAC/60Hz, 3 phase
- 400 VAC/50Hz, 3 phase

Color Processing (bit depth)
- 45 bit (3 x 15-bit resolution)

Number of Colors
- 35 trillion

Digital Video Input
- Two (2) SMPTE 292M; selectable dual or single

HD Video Formats
- 1920 x 1080 @ 24P or 24psf

Zoom Lenses
- 1.8-2.2:1, 2.2-3.0:1, 1.25-1.45:1, 1.45-1.8:1, 1.8-2.4:1, 2.2-3.0:1, 3.0-4.3:1, 5.5-8.5:1

Anamorphic Lenses (optional)
- 1.26:1 (for scope format)

Reflector
- F/1.5 High Performance Compound Glass Reflector

Security Locks
- Operator's side door, projector front top cover

Safety Interlocks
- (3) Lamp Access Door, rear intake vent, extraction port

Internal Rack Space
- 8RU rack space

Douser
- Electronic douser

3-Axis (X, Y + Z) Automatic Lamp Alignment
- Christie LampLOC™

Ambient Temperature
- 0-35˚C (32-95˚F)

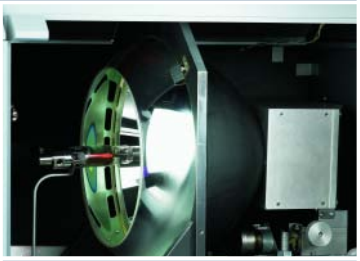
FEATURES



- *The CP2000 is the system of choice for post-houses such as ILM, Technicolor Digital Intermediate and Walt Disney Studios who require the need for a high quality reference level Digital Cinema projector.*



- *The CP2000's slim integrated system design and optional DLP Cinema™ approved lenses allows the projector to be placed in virtually any theatrical or post production environment.*



- *Christie's patented, cooled reflector maximizes bulb life and ensures ultra cool operation.*

	CP2000H	CP2000i
Available Illumination	4.5kW/6.0kW Xenon arc lamp depending on screen size	2.0kW/3.0kW Xenon arc lamp depending on screen size
Overall System Weight with Pedestal	670 lbs/305 kg	630 lbs/286 kg
Xenon Lamp Type	CDXL – 4.5kW, 6.0kW	CDXL – 2.0kW, 3.0kW
Thyristor Ballast	7kW	4kW

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Performance specifications are typical. Due to constant research, specifications are subject to change without notice.

ISO 9001:2000 Certificate #3011

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