



# **CHRISTIE** CP Series

*Making Exhibition Easy*

## Uses

Cinema/exhibition

Post-production

On-screen advertising

Digital film mastering

Multi-media theatrical productions

Large entertainment venues

Christie's CP Series projectors are the world's most comprehensive Digital Cinema solutions.

Designed for exhibitors, the Christie CP Series delivers high-performance projection for a variety of screen sizes utilizing the most advanced technologies available today.

Christie's CP Series projectors set a new level of performance for Digital Cinema technology. Choices in brightness levels and power levels offer flexibility for a variety of screen sizes in existing theatre infrastructure.

Christie's digital solutions speak directly to exhibitors' requirements – easy to use, easy to install and easy to own.

# CP Series

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



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

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 theatre environment and be operational in an hour.

## **Easy to use.**

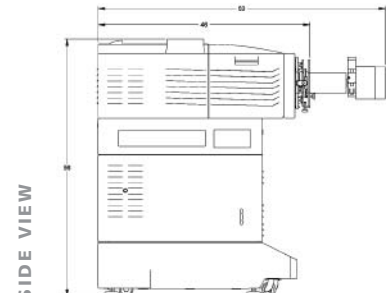
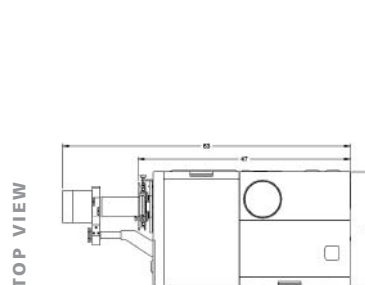
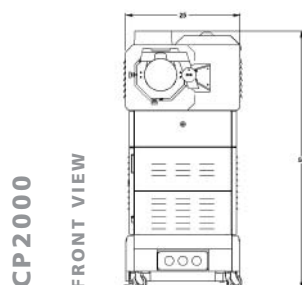
The CP Series interfaces to Digital Cinema servers and third party peripherals through

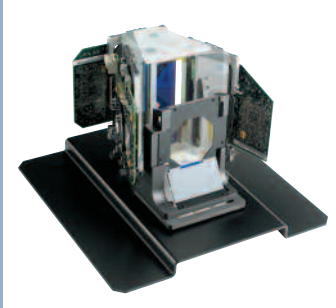
Ethernet connectivity. No special tools or interfaces are required. Christie's LampLOC™ lets you align the lamp at the touch of a button, maximizing brightness in seconds. Christie's proprietary dust sealing technology, LAD, prevents dust contamination of critical system components and eliminates the 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-arc 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.

## TECHNICAL SPECIFICATIONS





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.

## 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 theatre 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

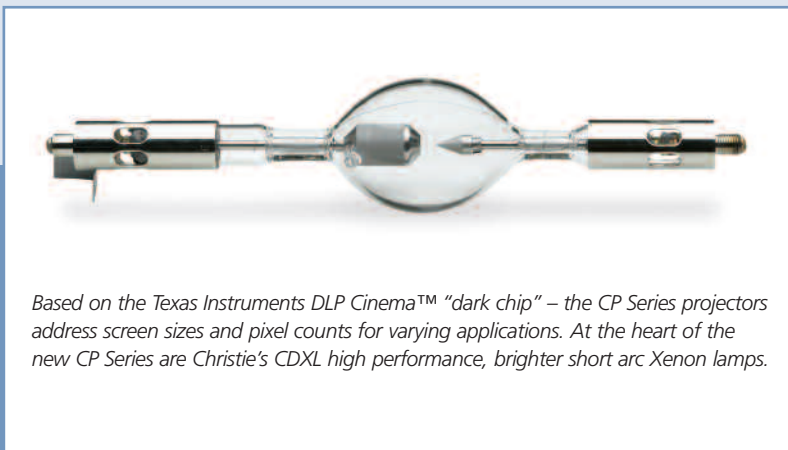
### Control

- PC set-up via Ethernet (1) and RS-232 serial connection

### Management

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

	Christie CP2000H	Christie CP2000i
<b>DMD™ Resolution</b>	<b>HD 2048 x 1080</b>	<b>HD 2048 x 1080</b>
<b>DMD Size &amp; Type</b>	<b>1.2", 12°</b>	<b>1.2", 12°</b>
<b>Lamp Type</b>	<b>CDXL 4.5/6.0kW</b>	<b>CDXL 2.0/3.0kW</b>
<b>Contrast Ratio (ANSI)</b>	<b>+500:1</b>	<b>+500:1</b>
<b>Contrast Ratio (Full Field)</b>	<b>+2000:1</b>	<b>+2000:1</b>
<b>Screen Size</b>	<b>Up to 75 ft/23m</b>	<b>Up to 50 ft/15m</b>
<b>Ballast</b>	<b>7kW Thyristor</b>	<b>4kW Thyristor</b>
<b>Color Resolution</b>	<b>15-bit RGB</b>	<b>15-bit RGB</b>



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.

# Christie 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 14fL (film 16fL open gate) for screens 23m (up to 75ft width)

### CONTRAST RATIO

- >2000:1 (full field)
- >500:1 (ANSI)

### BRIGHTNESS UNIFORMITY

- >90% when displaying full white screen

### TI DLP CINEMA™ TECHNOLOGY

- CineBlack™ Contrast Management
- CineCanvas™ Image Management
- CineLink™ Security Management
- CinePalette™ Color Management

### DIGITAL MICROMIRROR DEVICE™

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

### INPUT LINE VOLTAGE

- 208 VAC/60 Hz, 3-phase
- 400 VAC/50 Hz, 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 to 35° C (32 to 95° F)

### REGULATORY APPROVALS

- The CP2000 has been tested for CE compliance and also conforms to UL/IEC 60950 regulatory specification



*The Christie CP Series integrates with the Christie Cine-IPM 2K image processor for a completely digital solution for Digital Cinema and alternative content.*

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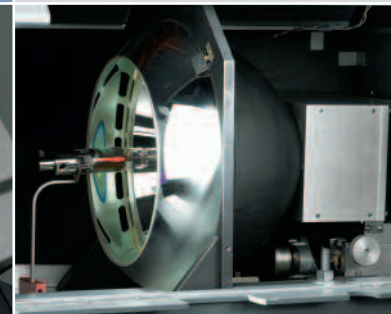
For the most current specification information, please visit [www.christiedigital.com](http://www.christiedigital.com)



*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.*

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

DIGITAL PICTURE BY

