GraphXMASTER C50

## C.R.D.S.

#### DISPLAY Imaging Panel ▶ DMD<sup>™</sup>, Single Chip Contrast Contrast ratio 300:1 Resolution Grey Scale ▶ 1024 x 768 ► Grey Scale Resolution 8 Bit A/D (10 Bits after dithering) Viewing Angle ▶ Horizontal 160 degrees p-p nominal; <sup>1</sup>/<sub>2</sub> gain : ± 38° ▶ Vertical 60 degrees p-p nominal; <sup>1</sup>/<sub>2</sub> gain : ± 10° Brightness ► >500 cd/m<sup>2</sup> (nit) typical Uniformity ▶ Up to 90% after electronic edge enhancements

## INPUT COMPATIBILITY

**RGB** Analog

- Horizontal frequency range 46 50 kHz
   Vertical frequency range 59 61 Hz
- Sync ▶ Impedance 1K ohms / 75 ohms ► Type (Positive or negative) Separate H and V

- Control Ports ▶ RS-232C bi-directional D-Sub 9 pin (male)
- ▶ RS-422A In (multi-projector networking) D-Sub 9 pin (female)
- RS-422A Out (multi-projector networking) D-Sub 9 pin (female)
- Contact Switching D-Sub 9 pin (female)
- ▶ Wired Remote Input F3.5 Jack (mono 1/8" mini)
- ► Infrared Remote IR receiver

Source Selection ► 1 RGBHV (analog) ▶ 1 LVDS 24 bit (digital)

Power Requirements ▶ Input (auto switching) 100 VAC to 240 VAC, 50 - 60 Hz

Lamp Specifications Power UHP/100W

Power 220W

▶ 8,000 hours typical life

## ENVIRONMENT

**Operating Environment** 

- Humidity 20% to 90% non condensing
   Altitude 0 to 3000 meters (0 to 10,000 ft)
   Noise Level less than 50 dB

### Storage ► Temperature -20°C to +50°C ► Humidity 0% - 95% non condensing

## **REGULATORY & WARRANTY**

Regulatory ▶ Safety Approvals CSA / UL / CE / FCC Class A

## Warranty

Parts and labor One year ► Lamp: 6,000 hours or one year, whichever comes first

# PHYSICAL SPECIFICATIONS Size ▶ 1016 mm (W) x 592 mm (D) x 1016 mm (H) 40" (W) x 23.3" (D) x 40" (H) Weight ▶ 88Kg (193 lb)

Due to constant research, specifications are subject to change without notice

## CHRISTIE

Christie Digital Systems Inc ImagePoint 58 Suttons Park Avenue, Reading, Berkshire, RG6 1AZ. United Kingdom Tel: +44 (0) 118 926 6300 Fax: +44(0) 118 926 6322

Christie Digital Systems Inc Hohenzollernstraße 124-126 41061 Mönchengladbach Germany Tel: +49 (0) 2161 664540 Fax: +49 (0) 2161 664546

Christie Digital Systems Inc 809 Wellington Street North, Kitchener, Ontario. Canada, N2G 4Y7 Tel: +1(519) 744-8005 1-800-265-2171 Fax: +1(519) 749-3136

Christie Digital Systems USA Inc 2037 Pointe Avenue, Ontario, CA 91761 USA Tel: +1(909) 923-3070 1-800-333-3816 Fax: +1(909) 923-0703

Christie Digital Systems Inc 37 Tannery Lane, #03-05 Tannery House, Singapore 347790. Tel: +65-749 5525 Fax: +65-744 2900

80 8001-1884







## **Complete Control 24/7**



Eircell - Eire



Maryland - USA



Wapa - USA



The GraphXMASTER one-chip DLP solution projects vivid video imagery (the hallmark of DLP technology) and finely detailed data with greater than 500 cd/m<sup>2</sup> brightness and XGA resolution. The GraphXMASTER redefines the standard of display images with both brilliance and unsurpassed image sharpness, making it one of the most easily viewed and compelling display systems available.

Christie has installed hundreds of display wall solutions world-wide. In that time Christie has become increasingly aware of the need to design effective and yet simple solutions. Solutions which ensure that the display wall can be installed to specification with the minimum of interruption and which will continue to operate with the minimum of maintenance. The GraphXMASTER is that solution, its one-chip DLP configuration requires no convergence and has a typical lamp life of 8,000 hours.

The GraphXMASTER represents a valuable addition to the range of products and services Christie provides as part of its 'Complete Solution' approach to such Network Management Centers and Control Rooms.

## Digital Smoothing Graduation Circuitry

Special digital smoothing gradation circuitry automatically conditions brightness across the display in 4x4 pixel segments to provide ultimate uniformity smoothing and matching across multiple screens. Additionally, 12 zone brightness graduation adjustment provides further RGB and white level control and enhancement.

## 10 bit Gamma Circuitry and 3 Dimensional Dithering

10 bit digital gamma circuitry incorporated into the GraphXMASTER provides high resolution gradation rendering of both bright and dark image areas to create exceptionally realistic half-tone expression. Also, advanced 3 dimensional dither processing provides 10 bit control for truly natural color reproduction.

## Digital Color Space Control

Digital Color Space Control (CSC) provides an ultimate solution in color rendering control enabling excellent color blending from screen to screen – which is critical, and usually a problem in multi-screen applications.







Telia - Sweden

#### **Ultra-Short Optical Focusing System**

With 0.73:1 throw distance, the 50" screen size fits in less than 24" depth. The new optical focusing system and rigid body construction of the main body ensure unmatched reliability and longer service life.

## Low Cost of Ownership

With the 8,000 hour typical life of the 100 Watt UHP lamp, and the 220 watt typical power consumption, the GraphXMASTER RPM provides for extremely low operating costs throughout the life of the display wall.

## Unique High Contrast Screen

With its TruView high contrast screen, the GraphXMASTER C50 provides unmatched blacks as well as extremely uniform images.

#### Seamless Images

Zero edge screen technology combined with the built in 6 axis adjuster allows for perfect geometric matching of tiled cubes. This results in virtually seamless images.

## **DLP** Technology

Through the advanced technology of the DLP <sup>™</sup> Digital Micromirror Device, it reflects incoming light onto a screen through projection lenses. One mirror corresponds to one picture element (1 pixel) enabling the reproduction of sharp images from all corners of the screen. Excellent continuity between pixels provides the reproduction of natural-looking images.





Digital Smoothing Graduation Circuitry





10 bit Gamma Circuitry

DLP and Digital Micromirror Device are trademarks of Texas Instruments Incorporated.



Digital Color Space Control

► >500 cd/m<sup>2</sup> brightness (typical)

- ▶ TruView 3-element high contrast seamless screen
- Easily replaceable 100W UHP lamp (8,000 hours typical)
- ► 50" diagonal image size
- Standard RGBHV analog input with BNC connectors
- Simple text-based menus accessible via infrared or wired keypads
- Built-in RS-232 interface with multi-projector network control
- Independent 6-axis adjuster for accurate geometry control

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