# LCD Video Wall

Super Narrow Bezel LCD
Unified Control Module
Auto Color Calibration
Web-based Control
IR Receiver Module
Multiple  Input / Outputs Management ( HDMI/ 3G- SDI)
Innovative Design for Safe & Efficient Operation
Sharp Images and Vibrant Colors with Full HD 1080P

www.deltadisplays.com

**ΔELTA**

Smarter.   Greener.   Together.

# Limitless As Your Imagination...

Delta's LCD video wall displays are an ideal solution for demanding space-constrained control rooms. LCD screens can be stacked together to achieve virtually any screen size, setting a new standard for large format, high-impact display solutions. Your message is as limitless as your imagination. Built with high quality industrial grade components for demanding 24x7 operating applications.

# Feel The

### Super Narrow Bezel LCD

Delta's LCD walls are designed to deliver even the largest images with stunning clarity with its super-slim bezel. Virtually Seamless bezel combined with LED light source bring you an excellent visual experience, in terms of resolution, brightness , contrast and viewing angles. The combination of rugged design and industrial-grade components can withstand the tough demands of industrial applications. Compared to conventional products, results show lower power consumption and long lifetime.

### High Resolution

Available in Full HD resolutions, Delta's high-resolution LCD walls are ideal for demanding control room environments where image quality and accuracy are of utmost importance.

### Wide Viewing Angle

Delta's LCD wall design is further engineered to provide a wide viewing angle of 178°, resulting in superior image quality and outstanding color uniformity.

# Difference....

## LED Light Source

Delta's LCD walls are Eco friendly, as LED contains no mercury or other harmful materials. LED backlights reduce burn-in and ensure long life of the product with lower power consumption.

## Diverse Inputs and Outputs

Delta's LCD walls are equipped with various connectivity ports to support various inputs/ outputs without requiring additional processors. DVI/ RGB/ Video/ HDMI ports available as standard while 3G- SDI, Display ports are available as optional. Multiple options like RS232 are / IR Remote/IP are available for control.

# Fostering Innovations In **LCD** **Technology**

## Inbuilt Color Correction Circuit

To balance for color and brightness inconsistencies between various panels in a LCD wall, Delta has an inbuilt color correction circuit using primary ( RED, GREEN , BLUE) & secondary ( CYAN, MANGENTA, YELLOW ) colors of each LCD to achieve perfect uniformity over the complete wall.

## Auto Color Calibration

To ensure the colors of individual cubes are perfectly matched and a perfectly uniform Image is displayed across the entire tiled LCD displays; Delta incorporates an auto-color calibration tool.  The calibration tool is positioned in front of the LCD wall and connects to the system through an USB and R232. This system automatically adjusts the color and brightness, ensuring that operators view a perfectly uniform image across the entire screen at all times.

## Unified Control Module

At the Core of each LCD display architecture lies a unified control box design that integrates and encapsulates the entire processing equipment and power module in one unit. This helps to make your LCD display highly fault tolerant offering low MTTR and high MTBF increasing the display system's overall reliability, ease of operation and maintenance.

## Web-based Control

Delta's LCD wall are accessible over the IP through browser / server architecture based software tool for Monitoring, controlling and diagnostic purpose. This software provides the operator with direct feedback on the status of the system with multiple levels of alarms.

## IR Receiver Module

IR Receiver module is an infrared control module for LCD Videowall. You can switch on / off the complete wall wirelessly with the press of a single button, without having to power on/off each LCD panel individually.

## Scalability

Delta's scalable and expandable LCD panels are designed for a variety of applications such as control centers, NOC rooms, airports, conference rooms, public signage, etc to name a few and can be mounted vertically or horizontally to form one large display of any size.

# Display Management

## Icon Pro Series Controller

The Delta Icon Pro Series Controller is a multi-screen graphics controller running on the Windows® Platform. The Icon Pro Series controller drives multiple cubes to form one large logical screen called a video wall or a data wall. The video wall displays graphics information from the controller workstation as well as information from various sources connected to the controller.

## Key Features

- Raid 0,1, 5 and 10 support
- KVM over LAN, serial over LAN, LAN alert
- Redundant and hot swappable components
- Remote management for hardware functions
- Xeon Quad Core with multiple processor support
- Displays resolutions up to 1920 x 1200 per channel
- Switch fabric chassis for high demanding applications
- CPU, fan, temperature and chassis intrusion detection and alarm
- SNMP trap, event log, remote power control, command line interface
- Runs on all standard Windows® operating systems and with Linux® Emulation
- Input capability (DVI -D, RGBHV, HD video, display over LAN, VNC, IP stream decoding)
- Supports decoding of multiple camera types, multiple formats, custom formats and resolutions from QCIF, D1 to HD

# Control System
## You're In Control

## Distributive Vision Control System

Delta's Distributive Vision Control System (DVCS) is one of the world's most advanced control systems designed specifically for control room visual display systems. Combining the latest advances in Digital Signal Processing (DSP) technology and with recent improvements in video compression rates, the Delta DVCS enables customers to capture, distribute, control and display high-resolution graphics/HD video signals over an IP network-
reliably and cost effectively.

## Key Features

- Hot-swappable
- Compact and silent
- Low power consumption
- Real-time monitoring of all windows
- Remote display wall control through network
- Supports Hi-Fi audio transmission over the network
- Supports up to 64 input signal sources in one display
- Supports 10 RGB/Video signal preview simultaneously
- Supports remote processor firmware upgrade over the network
- DVCS server can communicate to more than 10000 processors
- Supports multiple operators controlling a large scale display wall simultaneously
- Supports multicasting. One input signal can be displayed on an unlimited number of displays

# Product Technical Specifications

| Specifications | LW-5588 Series | LW-4688 Series |
|---|---|---|
| Resolution | 1920 x 1080 | 1920 x 1080 |
| Pixel Pitch | 0.63 mm | 0.53 mm |
| Light Source | LED | LED |
| Contrast Ratio | 4000:1 | 4000:1 |
| Color Capability | 1064 Million True Color | 1064 Million True Color |
| Response Time | 8 ms | 8 ms |
| Viewing Angle | H : 178°, V : 178° | H : 178°, V : 178° |
| Scan Rate | H: 30~75kHz, V: 50~85Hz | H: 30~75kHz, V: 50~85Hz |
| Video | NTSC, PAL, SECAM<br>480i, 480p, 720p, 1080i, 1080p, | NTSC, PAL, SECAM<br>480i, 480p, 720p, 1080i, 1080p, |
| Standard Inputs | HDTV 1920x1080@ 60Hz ; 1x Digital DVI-I ; 1x Digital DVI-D ; 1x CVBS BNC ; 1x Component Video BNC ; 1x 5BNC (RGBHV or YPbPr) | HDTV 1920x1080@ 60Hz ; 1x Digital DVI-I ; 1x Digital DVI-D ; 1x CVBS BNC ; 1x Component Video BNC ; 1x 5BNC (RGBHV or YPbPr) |
| Standard Outputs | 1x Digital DVI-D ; 1x CVBS BNC | 1x Digital DVI-D ; 1x CVBS BNC |
| Control | RS-232/RS-422/IR | RS-232/RS-422/IR |
| Input Voltage | AC 90~240V@50/60 Hz | AC 90~240V@50/60 Hz |
| Power Consumption | < 220W | < 160W |
| Standby Mode | < 2W at 110V | < 2W at 110V |
| Temperature | 0°C - 40°C (32°F - 104°F) | 0°C - 40°C (32°F - 104°F) |
| Humidity | 10% - 90%, non-condensing | 10% - 90%, non-condensing |
| Operating Life | > 50,000 hours | > 50,000 hours |
| Maintenance Feature | Quick Swap Modules | Quick Swap Modules |
| Combined Bezel (Typical) | 5.3 mm | 5.3 mm |
| Video Wall Tiling | 20 X 15 | 20 X 15 |
| Dimension (W x H x D) | 1215.3 X 686.1 X 126.2 mm<br>47.8 X 27.0 X 4.9" | 1024.1 X 578.6 X 128.1 mm<br>40.3 X 22.8 X 5.0" |

| | LW-5588 SR IA/LW-5588 SR CA | LW-5588 SR IB/LW-5588 SR CB | LW-4688 SR IA/LW-4688 SR CA | LW-4688 SR IB/LW-4688 SR CB |
|---|---|---|---|---|
| LCD Video wall Model No. |  |  |  |  |
| Panel Size | 55" Super Narrow Bezel | 55" Super Narrow Bezel | 46" Super Narrow Bezel | 46" Super Narrow Bezel |
| Brightness | 700 nits | 450 nits | 700 nits | 450 nits |

# Product Technical Specifications

| Specifications | LW-5580 Series | LW-4680 Series |
|---|---|---|
| Resolution | 1920 x 1080 | 1920 x 1080 |
| Pixel Pitch | 0.63 mm | 0.53 mm |
| Light Source | LED | LED |
| Contrast Ratio | 4000:1 | 4000:1 |
| Color Capability | 1064 Million True Color | 1064 Million True Color |
| Response Time | 8 ms | 8 ms |
| Viewing Angle | H : 178°, V : 178° | H : 178°, V : 178° |
| Scan Rate | H: 30~75kHz, V: 50~85Hz | H: 30~75kHz, V: 50~85Hz |
| Video | NTSC, PAL, SECAM<br>480i, 480p, 720p, 1080i, 1080p, | NTSC, PAL, SECAM<br>480i, 480p, 720p, 1080i, 1080p, |
| Standard Inputs | 1x Analog D-sub 15pin ; 1x Digital DVI ; 1x 5BNC (RGBHV or YPbPr or CVBS) ; 1 X HDMI | 1x Analog D-sub 15pin ; 1x Digital DVI ; 1x 5BNC (RGBHV or YPbPr or CVBS) ; 1 X HDMI |
| Option Inputs | 1x Digital DVI-D ; 1x 3G-SDI ; 1x Display port; 1x 3BNC (YPbPr) 1x CVBS | 1x Digital DVI-D ; 1x 3G-SDI ; 1x Display port; 1x 3BNC (YPbPr) 1x CVBS |
| Standard Outputs | 1x Digital DVI-D | 1x Digital DVI-D |
| Option Outputs | 1x CVBS BNC ; 1x 3G-SDI | 1x CVBS BNC ; 1x 3G-SDI |
| Control | RS-232/RS-422/IR/ IP ( Ethernet) | RS-232/RS-422/IR/ IP ( Ethernet) |
| Input Voltage | AC 90~240V@50/60 Hz | AC 90~240V@50/60 Hz |
| Power Consumption | < 220W | < 160W |
| Standby Mode | < 2W at 110V | < 2W at 110V |
| Temperature | 0°C - 40°C (32°F - 104°F) | 0°C - 40°C (32°F - 104°F) |
| Humidity | 10% - 90%, non-condensing | 10% - 90%, non-condensing |
| Operating Life | > 50,000 hours | > 50,000 hours |
| Maintenance Feature | Quick Swap Modules | Quick Swap Modules |
| Combined Bezel (Typical) | 5.3 mm | 5.3 mm |
| Video Wall Tiling | 20 X 15 | 20 X 15 |
| Dimension (W x H x D) | 1215.3 X 686.1 X 140.0 mm<br>47.8 X 27.0 X 5.5" | 1024.1 X 578.6 X 128.1 mm<br>40.3 X 22.8 X 5.0" |

| LCD Video wall Model No. | LW-5580 SR IA/LW-5580 SR CA | LW-5580 SR IB/LW-5580 SR CB | LW-4680 SR IA/LW-4680 SR CA | LW-4680 SR IB/LW-4680 SR CB |
|---|---|---|---|---|
| |  |  |  |  |
| Panel Size | 55" Super Narrow Bezel | 55" Super Narrow Bezel | 46" Super Narrow Bezel | 46" Super Narrow Bezel |
| Brightness | 700 nits | 450 nits | 700 nits | 450 nits |

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