

# Delta Display Solutions



## Optical Retrofit-Engine for Rear-Projection Cube

### VW-6350 BM CN / VW-8350 BM CP / VW-6350 BM CP

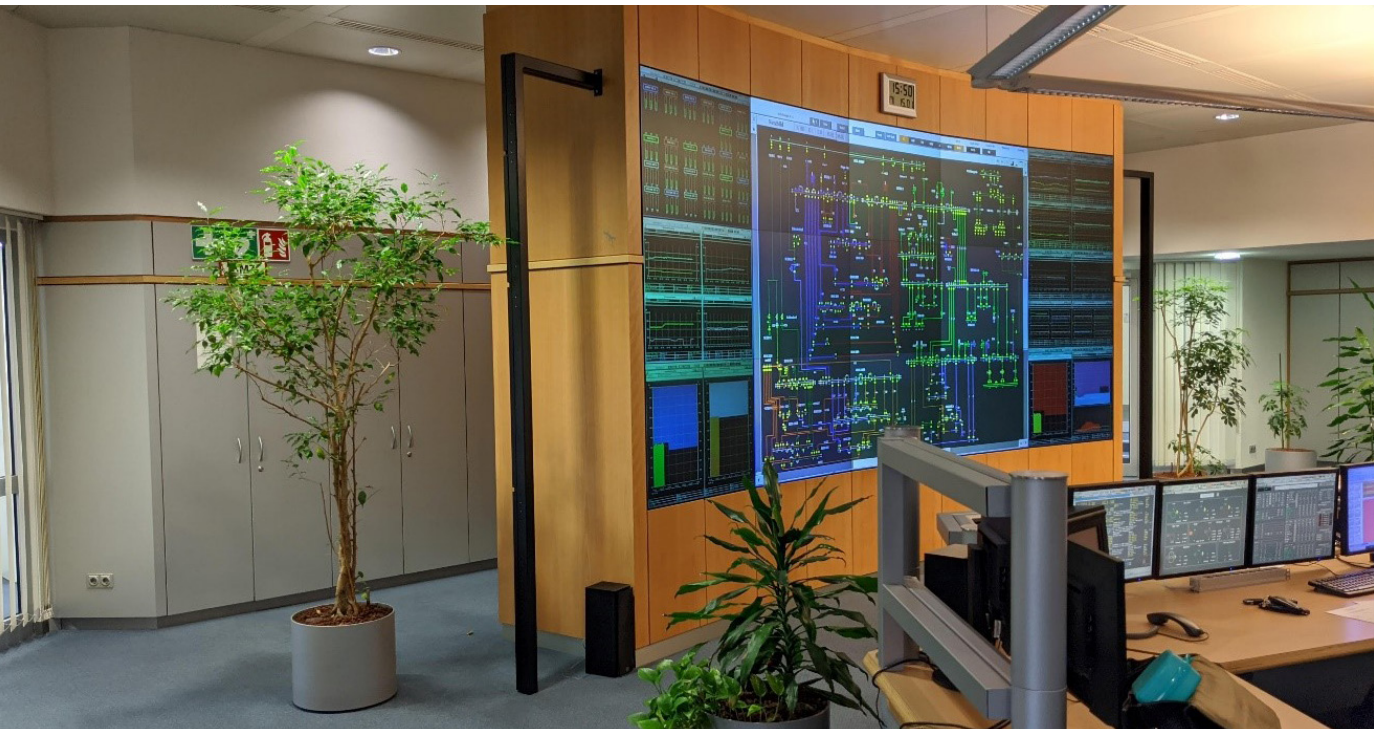
- Lifetime extension of Delta DLP Rear-Projection Video Walls
- Latest RGB Laser Light Source with up to 130.000 hours life time



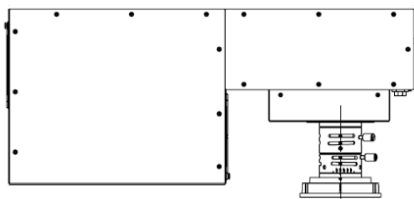
# Upgrade to a new Video Wall experience

With the Delta optical engines for rear-projection cubes, you can upgrade existing video walls with latest RGB (separate red, green blue laser diodes) light source. This will not only extend the lifetime of your video wall but also create a brand new image experience. Delta rear-projection engines are designed for mission critical applications and virtually maintenance free.

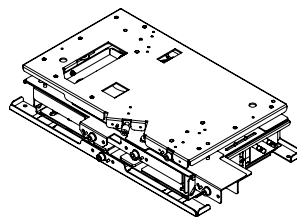
Delta's RGB laser light engine is equipped with a dust-proof design, which ensures consistent brightness over time. IP6X certified, it dramatically reduces the accumulation of dust particles inside the projection engine. Intelligent temperature management and heat pipe dissipation technology further support optimum performance and reliability needed for a 24x7 system. The modular engine concept allows also to upgrade other brand cubes.



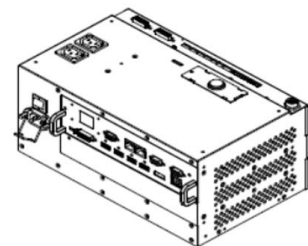
## Design



Optical Engines Design



6-Axis Adjuster Design



Control Module Design

# Specifications

| Item                          | Spec. Description  |   |                              |
|-------------------------------|--|---|------------------------------|
| <b>Optical</b>                |  |   |                              |
| Resolution                    | 1920 × 1200<br>VW-6350 BM CN   | 1920 × 1080<br>VW-8350 BM CP  | 1600 × 1200<br>VW-6350 BM CP |
| Laser Source                  | RGB Laser  |   |                              |
| Brightness                    | Typical<br>WUXGA/<br>1080p/<br>UXGA                                      | Bright mode: 1900 ANSI lm<br>Normal Mode: 1350 ANSI lm<br>ECO mode: 950 ANSI lm |                              |
|                               | Min.<br>WUXGA/<br>1080p/<br>UXGA   | Bright mode: 1750 ANSI lm<br>Normal mode: 1200 ANSI lm<br>ECO mode: 800 ANSI lm |                              |
| Brightness Uniformity         | 9 Point  | 94%   |                              |
|                               | 13 Point   | 90%   |                              |
| Contrast Ratio                | Typical  | 1800:1  |                              |
|                               | Min  | 1600:1  |                              |
| Focus Adjustment              | Manual   |   |                              |
| Throw Ratio (from lens pupil) | VW-6350 BM CN  | WUXGA   | 0.595:1                      |
|                               | VW-8350 BM CP  | 1080P   | 0.622:1                      |
|                               | VW-6350 BM CP  | UXGA  | 0.747:1                      |
| White color temperature       | 3200k, 7500k, 9300k  |   |                              |
| Color Coordinate: White       | X  | 0.295 ± 0.025   |                              |
|                               | Y  | 0.310 ± 0.025   |                              |
| Color Coordinate: Red         | X  | 0.715 ± 0.025   |                              |
|                               | Y  | 0.280 ± 0.025   |                              |
| Color Coordinate: Green       | X  | 0.114 ± 0.025   |                              |
|                               | Y  | 0.818 ± 0.025   |                              |
| Color Coordinate: Blue        | X  | 0.138 ± 0.025   |                              |
|                               | Y  | 0.040 ± 0.025   |                              |
| Color Sensor                  | Build-in color sensor to auto adjust light source to keep white balance. |   |                              |
| <b>Power</b>                  |  |   |                              |
| AC Power Input Range          | Auto-ranging: 100V ~ 240V ± 10%, 50-60Hz                                 |   |                              |
| Power Consumption             | Eco  | Operating ≤ 100 W   |                              |
|                               | Normal   | Operating ≤ 140 W   |                              |
|                               | High Brightness  | Operating ≤ 200 W   |                              |
|                               | Standby  | < 1W at 110VAC  |                              |
| Efficiency                    | >=85%  |   |                              |
| Inrush Current                | Cold Start: at 100Vac~240Vac shall not exceed 80A peak                   |   |                              |
| Power Module Type             | Single Power   |   |                              |
| <b>Mechanical</b>             |  |   |                              |
| Dimensions (WxLxH)            | 185mm x 541mm x 240mm  |   |                              |
| Net Weight                    | 14 Kg  |   |                              |

# Specifications

| User Controls and OSD       |  |
|-----------------------------|--|
| Power control               | AC power ON/OFF switch   |
| Wire control                | RS232C/ RS485 input  |
| System indicator            | System indicator (2 digits LED)  |
| IR remote                   | Optional, Delta standard remote  |
| Input select                | RGB 1 (VGA), DIGITAL 1 (DVI), DIGITAL 2 (HDMI 1), DIGITAL 3 (HDMI 2), DIGITAL 4 (DP)   |
| Picture & Image             | Brightness, Contrast, Clock, Phase, H-position, V-position, Auto-adjust, Saturation, Hue, Sharpness, color temperature, Reset, test pattern, Color Coordinate Adjust |
| Tiling                      | Set the Number of Row and Column.<br>Set projector location in Row and Column.<br>Max. tiling Row & Column is 6×6  |
| Lan/Web Remote              | User can control and monitor the video wall through Internet / Intranet / Web. By connecting the Lan/ Wan Ethernet connect to hub of Internet / Intranet.            |
| OSD Languages               | Chinese, English   |
| User Controls and OSD       |  |
| Operating Temperature       | 10°C to 40°C   |
| Storage Temperature         | -20°C to +60°C   |
| Operating Relative Humidity | 20% to 80% (no condense)   |
| Storage Relative Humidity   | 10% to 85%   |
| Vibration & Drop            | Follow Delta's testing standard  |
| Laser Lamp life             | ECO mode MTTF > 130000 hrs<br>Bright mode MTTF > 60000 hrs   |
| Component life - DMD Panel  | MTTF >100,000 Hrs  |
| Regulatory spec             |  |
| Safety                      | cTUV, CCC  |
| EMI                         | FCC-A, CE, CCC   |
| Noise (Bright)              | 44 db  |
| Noise (Normal/ECO)          | 37 db  |

# Specifications

| Input feature               |   |   |
|-----------------------------|---|---|
| Control BD Input terminal   | Input   | HDMI x 2<br>DP x 1<br>DVI-D x 1<br>VGA x 1<br>RS232C x 1<br>RS422 RJ45 x 1<br>Ethernet RJ45 x 1 |
|                             | Output  | RS232C x 1<br>RS422 RJ45 x 1<br>HDMI x 2  |
| DVI-D input frequency range | Fh : 30~90KHz<br>Fv : 50~85Hz<br>Max. pixel rate: 165MHz, 10bit width   |   |
| HDMI input frequency range  | Fh : 30~135KHz<br>Fv : 50~85Hz<br>Max. pixel rate: 594MHz, 10bit width  |   |
| DP Input frequency range    | Fh : 30~135KHz<br>Fv : 50~85Hz<br>Max. pixel rate: 594MHz, 10 bit width   |   |
| DVI-D timing Compatibility  | 720×400/70Hz, 85Hz<br>VGA/60Hz, 72Hz, 75Hz, 85Hz<br>SVGA/60Hz, 70Hz, 75Hz, 85Hz<br>XGA/60Hz, 70Hz, 75Hz, 85Hz<br>WXGA (1280×768)/60Hz<br>SXGA/60Hz, 75Hz<br>SXGA+/60Hz, 70Hz, 75Hz.<br>WSXGA+/60Hz<br>UXGA/60Hz<br>WUXGA/60Hz |   |
| HDMI timing Compatibility   | 720×400/70Hz, 85Hz<br>VGA/60Hz, 72Hz, 75Hz, 85Hz<br>SVGA/60Hz, 70Hz, 75Hz, 85Hz<br>XGA/60Hz, 70Hz, 75Hz, 85Hz<br>WXGA (1280×768)/60Hz<br>SXGA/60Hz, 75Hz<br>SXGA+/60Hz, 70Hz, 75Hz.<br>1080P/60Hz<br>UXGA/60Hz<br>UHD/60Hz    |   |
| DP timing Compatibility     | 720×400/70Hz, 85Hz<br>VGA/60Hz, 72Hz, 75Hz, 85Hz<br>SVGA/60Hz, 70Hz, 75Hz, 85Hz<br>XGA/60Hz, 70Hz, 75Hz, 85Hz<br>WXGA (1280×768)/60Hz<br>SXGA/60Hz, 75Hz<br>SXGA+/60Hz, 70Hz, 75Hz.<br>1080P/60Hz<br>UXGA/60Hz<br>UHD/60Hz    |   |

Specifications are subject to change without notice. Ver. 06/2023



More information

## Delta Display Solutions

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More information

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