



DISPLAY PRODUCTS

DISPLAY PRODUCTS



Any
Time
Where
Size
Shape
Format

ponsored by
eema
link to electricity

ERE

POWER

ELECRA
an international exhibition of elec



New Technology, to cross new frontiers

MIC began its journey in December, 1985 at Vijayawada, Andhra Pradesh. The 30 years that followed brought out the absolute best in the organization, and MIC extended its own realms of possibilities with every successful year.

Starting with Electronic display, MIC steadily ventured into the development and implementation of LED technology in display. The organization started focusing on exporting its products and services in 1994, which only went on to accentuate its fundamental strengths.

Today, MIC Electronics Limited is a global leader in the design, development & manufacturing of LED Video Displays. MIC's flagship products-LED Video Displays (indoor / outdoor / mobile), have become an integral part of Sports Stadiums, Transportation Hubs, Digital Theatres and Theme Parks, Advertisements and Public Information Displays.

Having become a frontrunner in the LED Display solutions, MIC made a foray in LED lighting. Incorporating this segment into MIC's setup corroborated with their attempt at making the world brighter with LED lighting solutions, which are more economical and eco-friendly. MIC's achievements are testimony of its expertise, profound market knowledge and zeal to innovate. These qualities form the pillars that support MIC's growth, and go a long way in brightening lives.

Vision

To be amongst top five Companies in True Color LED Video Displays and amongst Top Ten companies in LED Lighting, across the globe





| | | |
|--|-------------|---|
| | 2016 | Equity investment from LeyardOpto, China; Brand partnership with LG Innotek |
| | 2014 | 3D Holographic System |
| | 2012 | Receipt of major orders for LED Street Lights for Chennai Corporation & GVMC |
| | 2011 | Supply of Solar LED Lanterns to SHARP, SINGAPORE |
| | 2010 | Silver Jubilee Year IOCL-Agreement-Solar LED Lanterns; LED-3DTV ; Largest screen to GINC |
| | 2009 | MNRE Approval for Rural LED Lighting products |
| | 2008 | RDSO Approval for True Color PIS Displays; NDTV Profit Award ; Forbes Award ; |
| | 2007 | Listed at NSE & BSE; 120% premium to the Initial Offer Price |
| | 2006 | Entry into Global LED Display market - USA, Australia, Sri Lanka |
| | 2005 | Major export of Mobile LED Display to Durban, South Africa |
| | 2004 | Supply of True color LED Display System to Gujarat Science City, Gandhi Nagar |
| | 2003 | MIC's True Color LED Video Display System positioned in Indian Innovators' Forum |
| | 2002 | National Award for R&D efforts in Electronic Industry from DSIR |
| | 2000 | Multi-color LED Video display for e-Governance Applications to Government |
| | 1995 | Indigenous multi-lingual Software for Electoral Photo Identity Card system |
| | 1994 | FIRST Export of multi-color LED Display System to JEDDAH, Saudi Arabia |
| | 1993 | Supply of Multi-Colour Day & Night LED Display to L&T |
| | 1988 | Supply of Multi-lingual Multi-Color LED display to Indian Railways |
| | 1986 | Company Formation |



Content

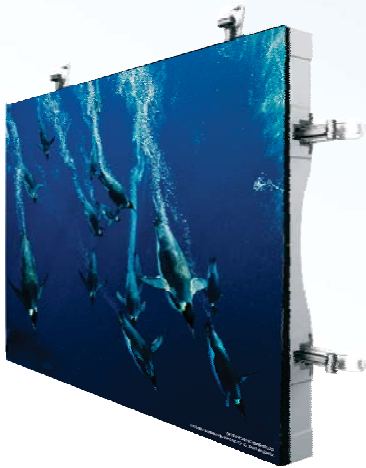
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MNVH Series



FEATURES

- Light weight, Thin and Slim, Easy to carry and Install and maintain.
- Natural heat dissipation for the whole LED Panel. The main structure is Constructed by aluminum which has high co-efficient of heat conductivity. No fan, air conditioning system is needed for cooling.
- The NVH Series features a slim, lightweight and modern LED cabinet design.
- The lightweight, minimalist form factor allows for excellent cooling, easy rear access to components and cabling, and features a thin profile that fits in more areas.
- The highly efficient NVH Series reduces total-cost-of-ownership and its weather-resistant design is ideal for a wide range of applications, providing reliable runtime and long life.



PSU with PFC Function

We adapt compact, high power efficiency and high power conversion efficiency power supply units to the NVH Series Products, so as to decrease the weight and power consumption for the LED Screen, and also make the LED panel looks more stylish.

Silent Design

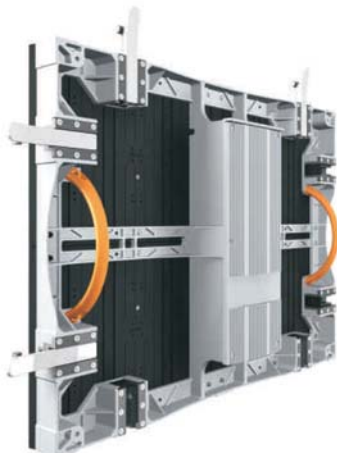
The LED Panel is equipped with PSU but no fans, so no noise occurred when running.

Wide Application

The LED module can be replaced easily; the screen can be for fixed Installation or for Rental. P4, P6, P8, P10 can be front maintenance. The LED Screen can be ideal for indoor. The Weight and thickness is much lower, convenient for transport and installation.

High Protection level

Integrated design for the cabinet, protection level can be IP 65 front and IP65 for back.



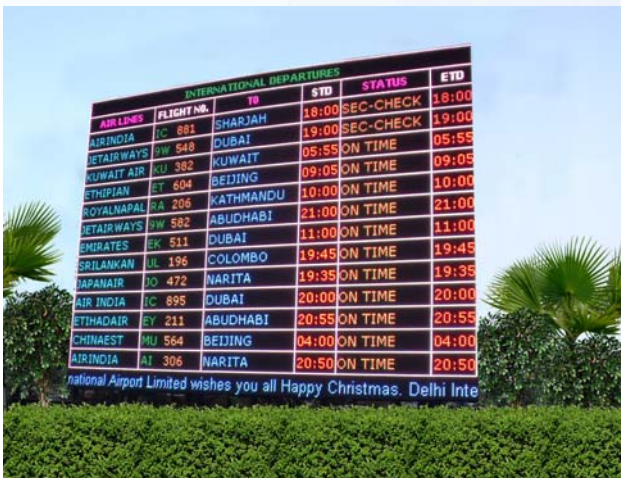
| | Parameter | MNVH6S | MNVH8S |
|--|---|---------------------------------|---------------|
| Modules | Pixel configuration | 3 in 1 SMD | 3 in 1 SMD |
| | Pixel Pitch (mm) | 6.15385 | 8 |
| | Dimension (WxHxD, mm) | 320x240x15 | |
| | Resolution(WxH) | 52x39 | 40x30 |
| | Module Weight(kg) | 0.75 | |
| | Max. power consumption per Module(W) | 21 | |
| Cabinet | Configuration (WxH) | 2x2 | |
| | Resolution(WxH) | 104x78 | 80x60 |
| | Dimension (WxHxD, mm) | 640x480x95 | |
| | Cabinet surface area (m2) | 0.3072 | |
| | Weight (kg/cabinet, kg/m2) | 12 , 39 | 12 , 39 |
| | Pixel density (pixels/m2) | 26,406 | 15,625 |
| | Surface flatness (mm) | ≤0.5 | ≤0.5 |
| Optical | Single LED brightness calibration | Yes | Yes |
| | Single LED color calibration | Yes | Yes |
| | Brightness before calibration(nits) | ≥1800 | |
| | White Balance Brightness (nits) | ≥1500(6500K, after calibration) | |
| | Color temperature(K) (adjustable) | 3,200~9,300 k | 3,200~9,300 k |
| | Horizontal viewing angle(°) | 160 | |
| | Vertical viewing angle(°) | 120 | |
| | Light centre distance deviation | <3% | <3% |
| | Brightness uniformity | ≥97% | ≥97% |
| | Color uniformity | Within ±0.003Cx,Cy | |
| Electrical | Max. contrast rate | 3000:01:00 | 3000:01:00 |
| | Max. power consumption (W/cabinet, W/m2) | 250 , 833 | 250 , 833 |
| | Average power consumption (W/cabinet, W/m2) | 83 , 277 | 83 , 277 |
| Processing | Power supply | AC 100~240 V (50-60Hz) | |
| | Current Driving mode | Constant current drive | |
| | Frame rate(Hz) | 50&60 | 50&60 |
| Operational | Refresh rate(Hz) | ≥1920 | ≥1920 |
| | Lifetime (half brightness) | 100,000Hrs | 100,000Hrs |
| | Operating temperature (°C) | 0 ~ 40 | 0 ~ 40 |
| | Storage temperature (°C) | -10-50 | -10-50 |
| | Operating humidity (RH, no condensation) | 10 ~ 80% | 10 ~ 80% |
| Storage humidity (RH, no condensation) | 10~ 85% | 10 ~ 85% | |

* power consumption may vary from difference in power supply and LED light

** This figure is not intended for power distribution design. Please contact our engineers for your power distribution design requirements

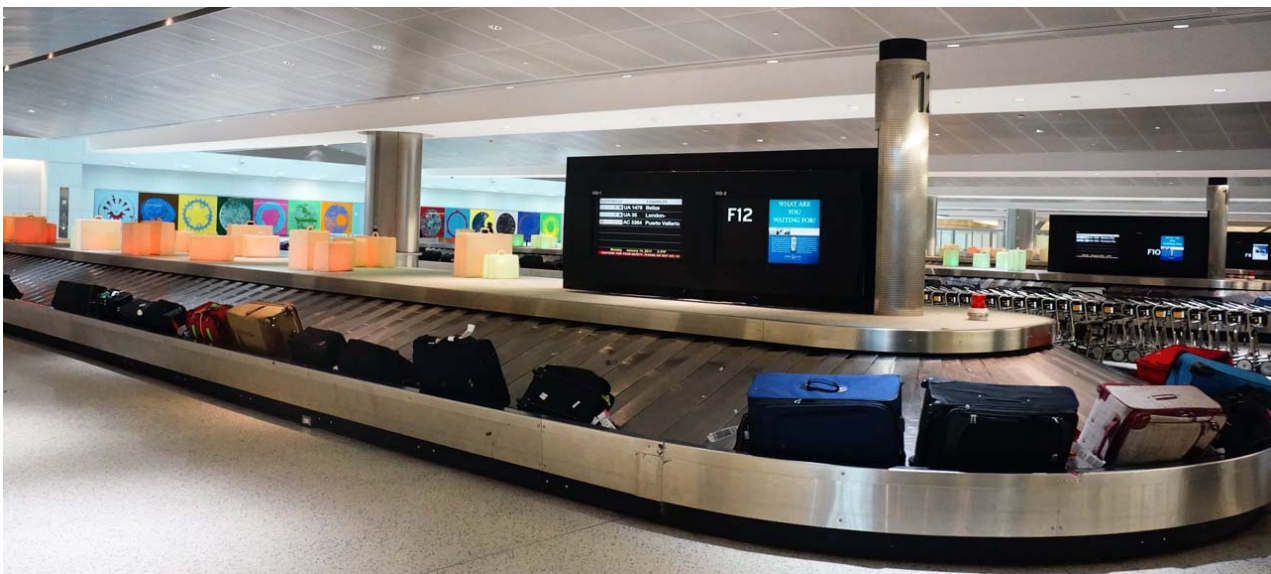
Notice: Due to continued development above parameters are subject to change without prior notice.

MCV Series - Flight Information Display Systems (FIDS)



FEATURES

- New Louver Design, no LED Light Reflections.
- Special LED Mask Design provide wider viewing angle.
- Durable and Reliable / Cost Effective Solution.



| | Parameter | MCV4S | MCV6S | MCV8S | MCV10S |
|-------------|--|-------------|-------------|--------------------------|--------------|
| Modules | Pixel Configuration | SMD 3- in 1 | SMD 3 in 1 | SMD 3 in 1 | SMD 3in1 |
| | Pixel Pitch(mm) | 4 | 6 | 8 | 10 |
| | Resolution(WXH) | 32x32 | 32x32 | 32 x 16 | 32x16 |
| | Dimension(mm) (WxHxD) | 128x128x11 | 192x192x16 | 256x128x14 | 320x160x19 |
| | Weight(kg) | 0.4 | 0.7 | 0.7 | 0.7 |
| | Max power consumption(w) | 12 | 25 | 32 | 30 |
| Cabinet | Configuration (WXH) | 5x4 | 4x3 | 4x6 | 4x6 |
| | Resolution(WXH) | 160x128 | 128x96 | 128x96 | 128x96 |
| | Dimension (mm) (WxHxD) | 640x512x131 | 768x768x136 | 1024x768x134 | 1280x960x139 |
| | Area(m ²) | 0.32768 | 0.58984 | 0.7864 | 1.2288 |
| | Weight (Kg/m ²) | 45 | 45 | 45 | 45 |
| | Pixel Density (dot/m ²) | 62500 | 27777 | 15625 | 10000 |
| | IP Protection (Front / Rear) | | | IP65/43 | |
| Optical | Flatness (mm) | | | ≤ 1 | |
| | Brightness & Colour Calibration | | | Yes | |
| | White Balance Brightness (nits) | | | ≥1500 | |
| | Colour Temperature (K) (adjustable) | | | 3200—9300K | |
| | Horizontal Viewing Angle (°) | | | 160 | |
| | Vertical Viewing Angle (°) | | | 160 | |
| | Light Centre Distance Deviation | | | ≤3 | |
| | Brightness Uniformity | | | ≥97 | |
| | Color Uniformity | | | ± 0.003 Cx,Cy | |
| | Contrast Ratio | | | 1000:01:00 | |
| Electrical | Max Power Consumption (w/m ²) | 950 | 800 | 500 | 600 |
| | Avg. Power Consumption (w/m ²) | 317 | 267 | 167 | 200 |
| Processing | Power Supply (V) | | | AC 110v /220V (50/60Hz) | |
| | Driving Mode | | | Constant Driving current | |
| | Frame Rate (Hz) | | | 50/60Hz | |
| | Refresh Rate (Hz) | | | ≥1920 | |
| Operational | Life Time(half brightness) Hrs | | | 100,000Hrs | |
| | Operation Temperature Range (°C) | | | 10—40 | |
| | Storage Temperature Range (°C) | | | -10—50 | |
| | Operating Humidity Range (RH) | | | 10—80% | |
| | Storage Humidity Range (RH) | | | 10—85% | |

* power consumption may vary from difference in power supply and LED light

** This figure is not intended for power distribution design. Please contact our engineers for your power distribution design requirements

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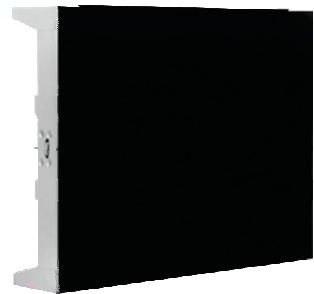
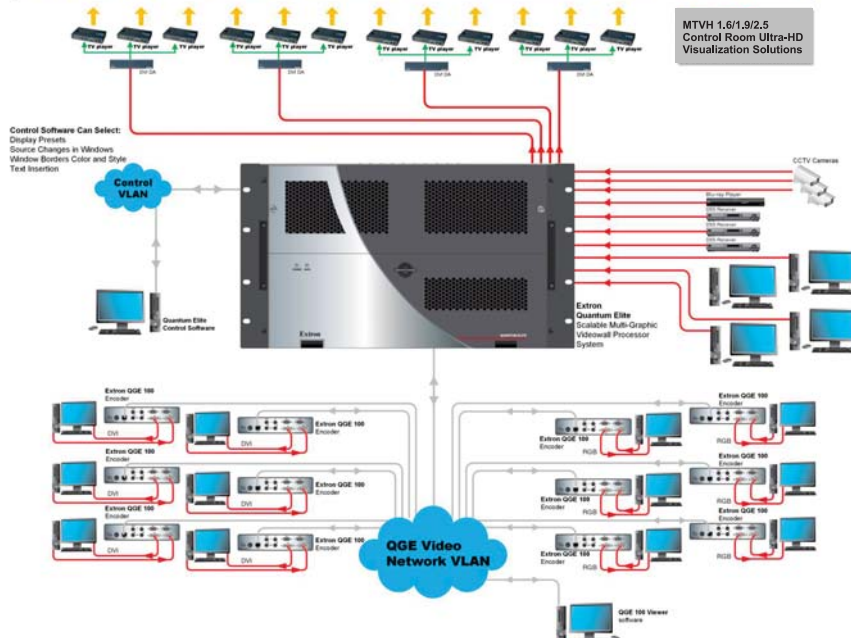
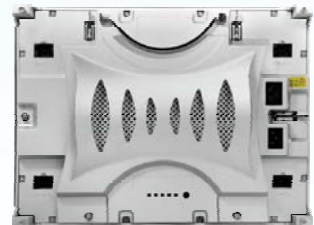
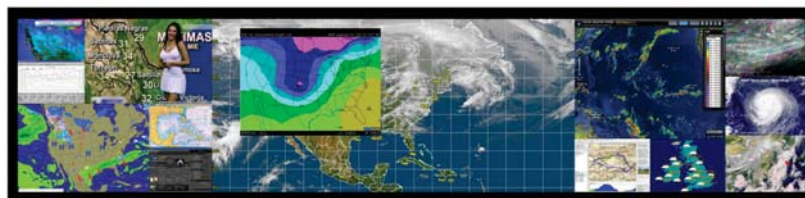
▶ MTVH Series - Control Room / Video Wall Solution



Control Room Video Wall Solution

The Screen is Low Heat, Quick in Heat Dissipation and Quiet

- Highly efficient power supply reduces the output power, the reducing the heat of the power supply.
- Modules are bolt-connected to the framework ensuring quick installation.
- Each unit has a newly designed aluminum-cast shell with the following features: light weight, high precision, fast heat dissipation, aesthetically pleasing and convenient to install
- **Standard Interface Design:** The product data is input through high-definition multimedia interfaces(HDMI) which are widely used in this industry, This allows the transmission of large data volumes and high-quality images, meeting the requirement for high quality of images based on high resolution (HR) and promoting the competence of the LED screen.



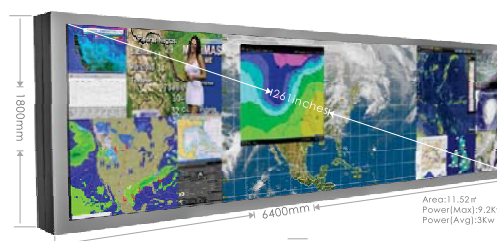
* Note: Images are suggestive in nature for actual model on request

| Modules | Parameter | MTVH1.6 | MTVH 1.9 | MTVH 2.5 | MTVH 3 | MTVH 4 | |
|---------------------------|--|--------------------------|-----------|-----------|-----------|----------------|-----------|
| | LED configuration | | SMD 3 in1 | SMD 3 in1 | SMD 3 in1 | SMD 3 in1 | SMD 3 in1 |
| Physical pixel pitch (mm) | | 1.667 | 1.923 | 2.5 | 3.125 | 4 | |
| Cabinet | Module resolution (W*H) | 120 x 90 | 104 x 78 | 80 x 60 | 64 x 48 | 50 x 75 | |
| | "Module dimension (W*H*D, mm)" | 200 x 150 x 13 | | | | 200 x 300 x 8 | |
| | Module weight (Kg) | 0.35 | | | | 0.7 | |
| | Module configuration (W*H) | 2 x 2 | 2 x 2 | 2 x 2 | 2 x 2 | 2 x 1 | |
| | Cabinet resolution (W*H) | 240 x 180 | 208 x 156 | 160 x 120 | 128 x 96 | 100 x 75 | |
| | "Cabinet dimension (W*H*D, mm)" | 400 x 300 x 93 | | | | 400 x 300 x 91 | |
| | Cabinet surface area(m2) | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | |
| | "Cabinet weight(kg/cabinet, kg/m2)" | 6 ; 50 | | | | 4.8 ; 40 | |
| | Physical pixel density (pixels/ m2) | 360,000 | 270,400 | 160000 | 102400 | 62500 | |
| | Surface flatness (mm) | ≤0.2mm | ≤0.2mm | ≤0.2mm | ≤0.2mm | ≤0.2mm | |
| Optical | Color calibration | Yes | | | | | |
| | Brightness calibration | Yes | | | | | |
| | Brightness (nits) | ≥800 (after calibration) | | | | ≥1200 | |
| | Color temperature | 3200K~9300K adjustable | | | | | |
| | Horizontal viewing angle(°) | 160° | 160° | 160° | 160° | 160° | |
| | Vertical viewing angle(°) | 140° | 140° | 140° | 140° | 120° | |
| | Light centre distance deviation | <3% | <3% | <3% | <3% | <3% | |
| | Brightness uniformity | ≥97% | ≥97% | ≥97% | ≥97% | ≥97% | |
| | Color uniformity | Within ±0.003Cx,Cy | | | | | |
| Electrical | Contrast rate | ≥ 3000;1 | | | | | |
| | Max power consumption (W/cabinet, W/ m2) | 100 ; 830 | 101 ; 830 | 102 ; 830 | 103 ; 830 | 120 ; 1000 | |
| | Av. power consumption (W/cabinet, W/ m2) | 30 ; 250 | 31 ; 250 | 32 ; 250 | 33 ; 250 | 40 ; 330 | |
| Processing | Power supply (50 -60 HZ) | AC 100~240V (50/60 Hz) | | | | AC 85 - 264 V | |
| | Driving mode | Constant current drive | | | | | |
| | Refresh Rate @60Hz | ≥ 2100Hz | ≥ 3000Hz | ≥ 6300Hz | ≥ 6300Hz | ≥ 2400Hz | |
| Operational | Frame Rate (Hz) | 50& 60Hz | 50&6 0Hz | 50& 60Hz | 50& 60Hz | 50& 60Hz | |
| | Life time(hrs @ half brightness) | 50,000H | 50,000H | 50,000H | 50,000H | 50,000H | |
| | Operating temperature (°C) | -10~40 | - 10 ~ 40 | - 10 ~ 40 | - 10 ~ 40 | - 10 ~ 40 | |
| | Storage temperature (°C) | -20~60 | - 20 ~ 60 | - 20 ~ 60 | - 20 ~ 60 | - 20 ~ 60 | |
| | Operating humidity(RH) | 10~80%RH | 10~80%RH | 10~80%RH | 10~80%RH | 10~80%RH | |
| Storage humidity(RH) | 10~85%RH | 10~85%RH | 10~85%RH | 10~85%RH | 10~85%RH | | |

Notice: Above parameters are subject to change without prior notice.

4K Control Room

| | TVH1.6 | TVH1.9 | TVH2.5 |
|-----------------|-----------|-----------|-----------|
| Resolutions | 3840x1080 | 3744x1092 | 3840x960 |
| Diagonal (inch) | 261 | 295 | 389 |
| Size(WxH)(mm) | 6400x1800 | 7200x2100 | 9600x2400 |
| Area (M2) | 11.52 | 15.12 | 23.04 |
| Power(Max)(kw) | 9.2 | 12 | 18.4 |
| Power(Avg)(kw) | 3 | 4 | 6.1 |



MVVM Series - Traffic Management Control Room Solution



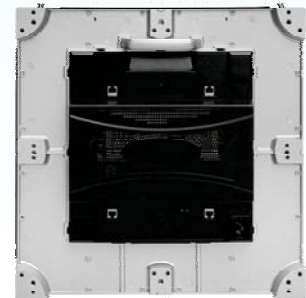
ADVANTAGES

- Light weight, Thin and slim, easy to carry and install and for rental application
- Frame for fix installation is easy for operation
- Cost-effective and suitable for the low-end market
- Natural heat dissipation for the whole LED panel. The main structure is constructed by die casting aluminum which has high coefficient of heat conductivity, No fans and air-conditioning system needed for cooling

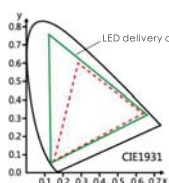


APPLICATIONS

- Meeting Rooms
- Stage
- Bank
- House of Worship
- Control Room
- Hotel



IMAGING OF LED DELIVERY CHROMATICITY CURVE

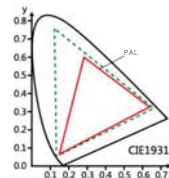


Blue reduction before



Skin color reduction before

PAL Chromaticity imaging



Blue reduction after



Skin color reduction after

* Note: Images are suggestive in nature for actual model on request

| | Parameter | MVVM1.579 | MVVM1.875 | MVVM2.5 | MVVM3 | MVVM4 |
|-------------|---|--------------------------|----------------|----------------|----------------|----------------|
| Modules | LED configuration | SMD 3 in1 | SMD 3 in1 | SMD 3 in1 | SMD 3 in1 | SMD 3 in1 |
| | Physical pixel pitch (mm) | 1.579 | 1.875 | 2.5 | 3 | 4 |
| | Module resolution (W*H) | 152 x 152 | 128 x 128 | 96 x 96 | 80 x 80 | 60 x 60 |
| | "Module dimension (W*H*D, mm)" | 240 x 240 x 16 | 240 x 240 x 16 | 240 x 240 x 16 | 240 x 240 x 16 | 240 x 240 x 16 |
| | Module weight (Kg) | 0.4 | | | | |
| Cabinet | Module configuration (W*H) | 2 x 2 | 2 x 2 | 2 x 2 | 2 x 2 | 2 x 2 |
| | Cabinet resolution (W*H) | 304 x 304 | 256 x 256 | 192 x 192 | 160 x 160 | 120 x 120 |
| | "Cabinet dimension (W*H*D, mm)" | 480 x 480 x 77 | | | | |
| | Cabinet surface area(m ²) | 0.2304 | | | | |
| | Cabinet weight (kg/ m ²) | 30 | 30 | 30 | 30 | 30 |
| | Physical pixel density (pixels/ m ²) | 4,01,111 | 2,84,444 | 1,60,000 | 1,11,111 | 62,500 |
| | Surface flatness (mm) | ≤ 0.5mm | ≤ 0.5mm | ≤ 0.5mm | ≤ 0.5mm | ≤ 0.5mm |
| Optical | Color calibration | Yes | Yes | Yes | Yes | Yes |
| | Brightness calibration | Yes | Yes | Yes | Yes | Yes |
| | Brightness (nits) | 600 - 800 | 600 - 800 | 600 - 800 | 600 - 800 | 600 - 800 |
| | Color temperature | 3200K~1000K (adjustable) | | | | |
| | Horizontal viewing angle(°) | 160° | 160° | 160° | 160° | 160° |
| | Vertical viewing angle(°) | 140° | 140° | 140° | 140° | 140° |
| | Light centre distance deviation | <3% | <3% | <3% | <3% | <3% |
| | Brightness uniformity | ≥97% | ≥97% | ≥97% | ≥97% | ≥97% |
| | Color uniformity | Within ±0.003Cx,Cy | | | | |
| | Contrast rate | 3000;1 | | | | |
| Electrical | Max power consumption (W/cabinet, W/ m ²) | 750 | 750 | 650 | 650 | 650 |
| | Av. power consumption (W/cabinet, W/ m ²) | 217 | 217 | 200 | 200 | 200 |
| | Power supply (50 -60 HZ) | AC 110~220V | | | | |
| Processing | Driving mode | Constant current drive | | | | |
| | Refresh Rate @60Hz | ≥1920Hz | | | | |
| | Frame Rate (Hz) | 50& 60Hz | | | | |
| Operational | Life time(hrs @ half brightness) | 50,000H | 50,000H | 50,000H | 50,000H | 50,000H |
| | Operating temperature (°C) | - 0 ~ 40 | - 0 ~ 40 | - 0 ~ 40 | - 0 ~ 40 | - 0 ~ 40 |
| | Storage temperature (°C) | - 20 ~ 60 | - 20 ~ 60 | - 20 ~ 60 | - 20 ~ 60 | - 20 ~ 60 |
| | Operating humidity(RH) | 10~80%RH | 10~80%RH | 10~80%RH | 10~80%RH | 10~80%RH |
| | Storage humidity(RH) | 10~85%RH | 10~85%RH | 10~85%RH | 10~85%RH | 10~85%RH |

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MTW Series - Broadcasting Solution

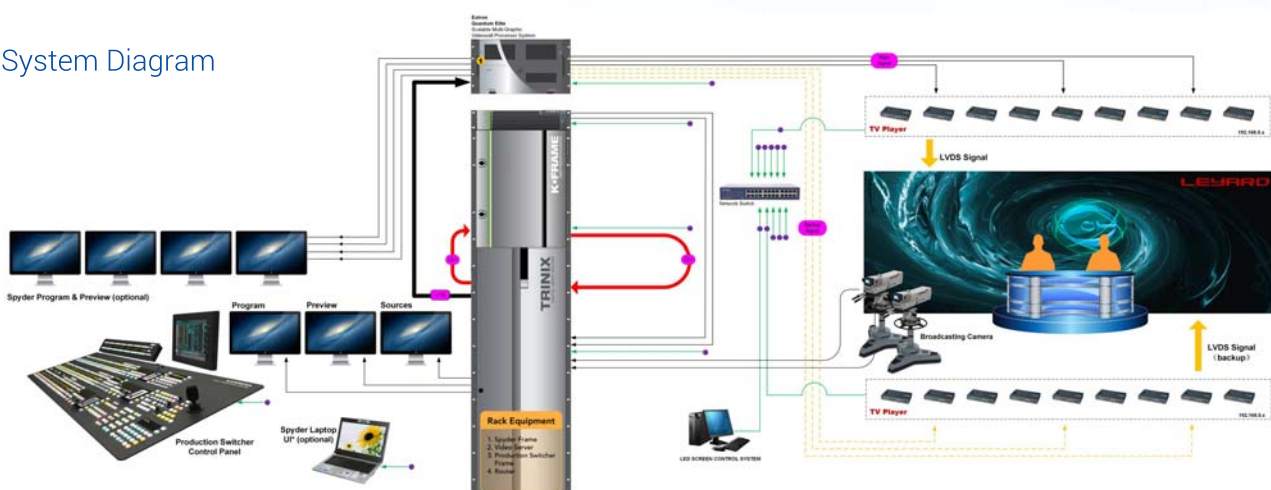


LED Video Wall Solutions for the Live TV Show

To respond to the unique problems facing the broadcast market in terms of live TV shows, MIC launched our small pitch LED video wall. Apart from broadcasting live programs, TV stations also undertake the recording of large events and variety shows. In this environment, a high-quality display device is irreplaceable in creating a brilliant atmosphere. This is what makes the quality display solution offered by the MIC TV Series video wall the ideal match for the live TV show solution.

1. Refresh rate is as high as over 3000hz, ensuring stable clear pictures and no scanning lines under camera shooting.
2. Arc structure is available to meet the requirements of stage.
3. Double system backup guarantees secure and reliable program recording without any break.
4. Product is light and thin, easy to install, disassemble and transport.
5. Visual angle can be up to 160 to ensure a great visual experience for the entire viewing audience
6. Unique black mask and pure black light guarantee no light reflection under lamplight and high contrast ratio.
7. Fan less product ensure noiseless environment in the live studios.

System Diagram



| | Parameter | MTW 0.9 | MTW 1.25 | MTW 1.875 | MTW 2.5 |
|-------------|---|------------------------|-----------------|-----------------|-----------------|
| Modules | LED configuration | SMD3in1LED | | | |
| | Physical pixel pitch (mm) | 0.9 | 1.25 | 1.875 | 2.5 |
| | Module resolution (W*H) | 128 x 180 | 192x135 | 128 x 90 | 96 x 135 |
| | "Module dimension (W*H*D, mm)" | 120 x 168.75 x 10 | 240 x168.75 x10 | 240 x168.75 x10 | 240 x337.5 x 10 |
| | Module weight (Kg) | 0.24 | 0.48 | 0.48 | 0.706 |
| Cabinet | Module configuration (W*H) | 10 x 4 | 5 x 4 | 5 x 4 | 5 x 2 |
| | Cabinet resolution | 1280 x 720 | 960x540 | 640 x 360 | 480 x 270 |
| | "Cabinet dimension(W*H*D, mm)" | 1,200 x 675 x 99 | | | |
| | Cabinet surface area(m2) | 0.81 | 0.81 | 0.81 | 0.81 |
| | "Cabinet weight(kg/cabinet, kg/m2)" | 27.4 ; 33.9 | 27.2 ; 33.6 | 27.1 ; 33.5 | 24.5 ; 30.3 |
| | Physical pixel density (pixels/ m2) | 11,37,777 | 6,40,000 | 2,84,444 | 1,60,000 |
| | Surface flatness (mm) | ≤0.2 | ≤0.2 | ≤0.2 | ≤0.2 |
| Optical | Color calibration | Yes | | | |
| | Brightness calibration | Yes | | | |
| | White balance (nits)(6500K after Calibration) | ≥6000 | | | |
| | Color temperature (adjustable) | 3,000–10,000K | | | |
| | Horizontal viewing angle(°) | 160 | 160 | 160 | 160 |
| | Vertical viewing angle(°) | 140 | 140 | 140 | 140 |
| | Light centre distance deviation | <3% | <3% | <3% | <3% |
| | Brightness uniformity | ≥97% | ≥97% | ≥97% | ≥97% |
| | Color uniformity | within±0.003Cx,Cy | | | |
| | Contrast rate | ≥ 6,000:1 | | | |
| Electrical | Max. power consumption (W/cabinet, W/ m2) | 410 ; 506 | 450 ; 555 | 470 ; 580 | 470 ; 580 |
| | Avg. power consumption (W/cabinet, W/ m2) | 140 ; 172 | 150 ; 185 | 160 ; 200 | 160 ; 200 |
| | Power supply (50 -60 HZ) | AC110~240V (50-60Hz) | | | |
| Operational | Driving mode | Constant Current Drive | | | |
| | Frame rate (Hz) | 50&60 | 50&60 | 50 & 60 | 50&60 |
| | Refresh rate | ≥1,920 | ≥ 3000 | ≥ 5100 | ≥ 5100 |
| | Life time(hrs @ half brightness) | 50,000 | 50,000 | 50,000 | 50,000 |
| | Operating temperature (°C) | -10–40 | -10–40 | -10–40 | -10–40 |
| | Storage temperature (°C) | -20–60 | -20–60 | -20–60 | -20–60 |
| | Operating humidity(RH) | 10-80% No Condensation | | | |
| | Storage humidity(RH) | 10-85% No Condensation | | | |

Notice: Due to continued development above parameters are subject to change without prior notice.

Real LED TV - 54 inches



PRODUCT OVERVIEW

The new-generation MIC LED TV, all using 54" LED panel unit, can be stitched as you wish with the seamless integration to achieve visual reform and innovation.

MIC LED TV

- LED light-emitting display technology
- LED nanosecond response and quick dynamics performance
- Oversize TV, integrated expression and non-stitching display
- LED red, green and blue polishing technology, higher color purity, authentic color and large color gamut
- HD TV/compatible with 2k (FHD 1920x1080) or 4k (UHD 3840x2160)



ADVANCED IMAGE PROCESSING TECHNOLOGY

- MIC main control chip is powerful in video processing and the calibration calculation, and can offer high-level video frame
- Single light color correction and brightness calibration technology of LED
- Higher brightness enables watching during daytime.
- Higher contrast: the black is darker and the image is with strong lays of graphics
- Broadcast-level image processing technology, 10bit gray processing and frame-by-frame scanning
- Noise reduction and acutance adjustment: color improving and adjustment technology
- Higher image resolution and point-to-point per-pixel information recovering
- 2400HZ high-speed refresh rate without image dithering



Real LED TV - 54 inches

Technical Specifications

INDOOR DISPLAY

| | Pixel Pitch | 1.25 mm | 1.875 mm | 1.25mm | 1.875mm | 1.875mm |
|--------------|-------------------------------|---|--|----------------------------------|---|-------------------------------------|
| Basic | Model Number | 54 | 54 | 108LS12CG | 108LS18CG | 162LS18CG |
| | Product Orientation | HD TV and LED Self luminous TV | | | | |
| | Viewable Diagonal Screen Size | 54" | 54" | 108" | 108" | 162" |
| | Aspect Ratio | 16:9 | 16:9 | 16:9 | 16:9 | 16:9 |
| | Optimal Watch Distance | ≥ 3mtrs | ≥ 3mtrs | ≥ 3mtrs | ≥ 3mtrs | ≥ 3mtrs |
| | Imaging Principle | LED Self-luminous | LED Self-luminous | LED Self-luminous | LED Self-luminous | LED Self-luminous |
| Image | Physical Resolution | 960 x 540 | 640 x 360 | 640 x 360 | 640 x 360 | 1920 x 1080 |
| | Maximum Brightness (NITS) | 600 | 600 | 600 | 600 | 600 |
| | Hor. viewing angle | 160 ° | 160 ° | 160 ° | 160 ° | 160 ° |
| | Vert. viewing angle | 160 ° | 160 ° | 160 ° | 160 ° | 160 ° |
| | Contrast Ratio | 3000 : 1 | 3000:1 | 3000:1 | 3000:1 | 3000:1 |
| | Refresh Rate (Hz) | 2400Hz | 2400Hz | 2400Hz | 2400Hz | 2400Hz |
| | Loud Speaker | 2.1 stereo | 2.1 stereo | 2.1 stereo | 2.1 stereo | 2.1 stereo |
| | Audio input | PC Audio | PC Audio | PC Audio | PC Audio | PC Audio |
| Tone Quality | | Earphone Input | | | | |
| | | Component/CVBS Audio | | | | |
| | | TV | | | | |
| | | Compatible with maximum storage channel 200CH | | | | |
| | | Support PAL/NTSC/SECAM | | | | |
| Video | Composite Video(AV) | Support PAL/NTSC/SECAM | | | | |
| | HDMI/Component Video(YPBPR) | Support 480i,576i,576p,720p, 1080i and 1080p | | | | |
| | Multimedia(USB) | Support video, audio and text document play | | | | |
| | Computer(PC-RGB) | Maximum Resolution 1920 x 1080@60Hz | | | | |
| | Power Requirements | 175 to 240VAC@50Hz | | | | |
| Other | Average Power Consumption | 150W | 150W | 600W | 600W | 1350W |
| | Appearance design | Silver Gray | Silver Gray | Silver Gray | Silver Gray | Silver Gray |
| | Panel Dimension(WXH) | 1200x675 (mm), (3.93'x2.21') | 1200x675 (mm), (3.93'x2.21') | 2400x1350 (mm), (7.87'x4.43') | 2400x1350 (mm), (7.87'x4.43') | 3600x2000 (mm), (11.81' x 6.56') |
| | | With base:2520mm x 2000mm x 700mm | | | | |
| | Body Weight | Without Base: 30Kgs / 66.13 lbs (approx.) | Without Base:120Kgs / 264.554 lbs (approx.) | | Without Base: 270Kgs / 595.248 lbs (approx.) | |
| | | | Without Base:180Kgs / 396.832 lbs (approx.) | | Without Base:330Kgs / 727.525 lbs (approx.) | |
| | | | | | | |
| | | | | | | |

Notice: Due to continued development above parameters are subject to change without prior notice.



C Mesh Series



ADVANTAGE

- Easy to install and front access for quick maintenance
- Unique intelligent design records the brightness and chrominance of each LED lamp, thus ensuring the uniformity and consistency of the overall display image.
- Adjust constant current source without compromising on the grayscale in optimal pictures under and kinds of brightness environment
- 16-bit color processing and high refresh rate provide stunning flicker-free broadcast video images
- True & natural color rendering
- High brightness for mesh products
- IP65 water proof

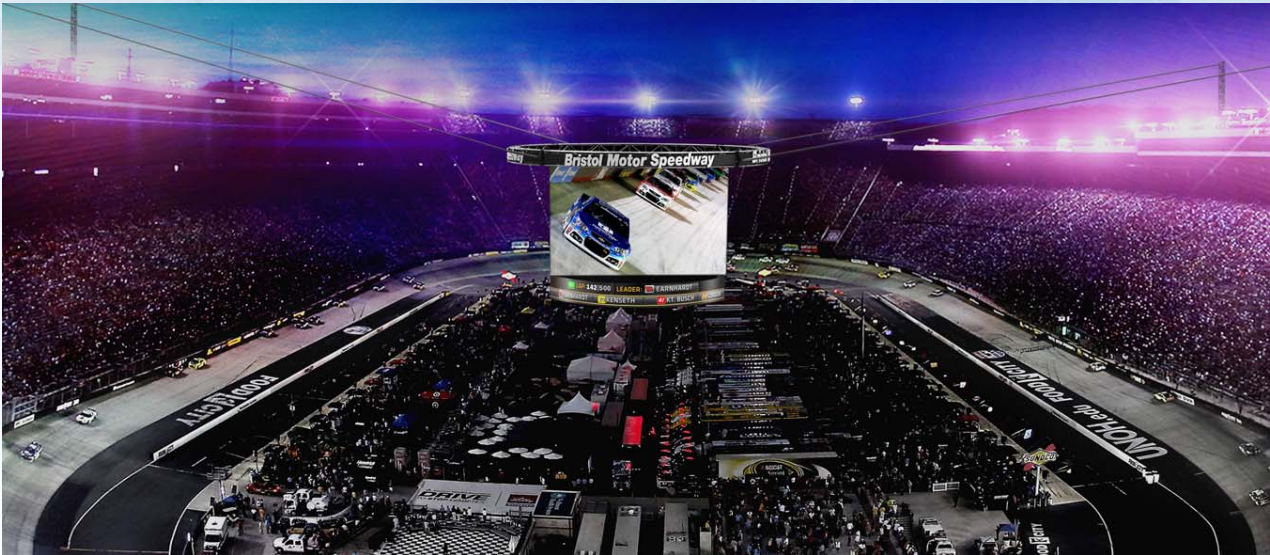


C Mesh Series

| | Parameter | 16 mm | 20 mm | 25 mm | 31.25 mm |
|-------------|--------------------------------------|------------------------|--------------------|--------------------|--------------------|
| Cabinet | Pixel Configuration | DIP 1G1R1B | DIP 1G1R1B | DIP 1G1R1B | DIP 2G2R2B |
| | Pitch(mm) | 16 | 20 | 25 | 31.25 |
| | Resolution(W×H) | 88×16 | 72×12 | 72×12 | 64×10 |
| | Size(mm) (W×H×D) | 1408×256×86.1 | 1440×240×86.5 | 1440×240×86.5(D) | 1500×250×81.5 |
| | Area(m ²) | 0.4 | 0.4 | 0.375 | 0.375 |
| | Weight (kg/m ²) | 20 | 20 | 20 | 18 |
| | Pixel density(pixel/m ²) | 3,906 | 2,500 | 2,500 | 1,024 |
| | Flatness(mm) | ≤1 | ≤1 | ≤1 | ≤1 |
| Optical | Brightness(nits) | ≥500 | ≥6500 | ≥6500 | ≥6500 |
| | Color temperature(K) (adjustable) | 3200–9300 | 3200–9300 | 3200–9300 | 3200–9300 |
| | Horizontal Viewing Angle(°) | 135 | 135 | 135 | 135 |
| | Vertical Viewing Angle(°) | 60 | 60 | 60 | 60 |
| | Light Centre Distance Deviation | <3% | <3% | <3% | <3% |
| | Brightness Uniformity | ≥97% | ≥97% | ≥97% | ≥97% |
| | Color Uniformity | Within ±0.003Cx,Cy | Within ±0.003Cx,Cy | Within ±0.003Cx,Cy | Within ±0.003Cx,Cy |
| | Max. Contrast Ratio | ≥1000:1 | ≥1000:1 | ≥1000:1 | ≥1000:1 |
| Electrical | Transparency | 50% | 50% | 50% | 50% |
| | Power (W/m ²) | Avg:140:max:420 | Avg:140 :max:420 | Avg:140:max:420 | Avg:150:max:450 |
| Processing | Power Supply (50/60Hz) | AC85~264V | AC85~264V | AC85~264V | AC85~264V |
| | Driving Mode | Constant current drive | | | |
| | Reframe Rate(Hz) | 50&60 | 50&60 | 50&60 | 50&60 |
| | Frame Rate(Hz) | 480 | 480 | 480 | 1920 |
| Operational | Lifetime(Half Brightness) | 100,000hrs | 100,000hrs | 100,000hrs | 100,000hrs |
| | Operating Temperature Range(°) | -20 – 40 | -20 – 40 | -20 – 40 | -20 – 40 |
| | Storage Temperature Range(°) | -30 – 60 | -30 – 60 | -30 – 60 | -30 – 60 |
| | Operating Humidity(RH) | 10 - 90%No drew | 10 - 90%No drew | 10 - 90%No drew | 10 - 90%No drew |
| | Storage Humidity(RH) | 10 - 95%No drew | 10 - 95%No drew | 10 - 95%No drew | 10 - 95%No drew |

Notice: Due to continued development above parameters are subject to change without prior notice.

MNVH Series



FEATURES

- Material for whole structure is Aluminum Alloy, around 2/3 lighter than traditional material
- Hollow Carved Design so as to lower the weight
- Light Weight, Thin and Slim, Easy to Carry and Install
- The PSU is attached to the back cover which is made of special material (equal to heat sink), can conduct the heat dissipated from the PSU.
- The whole modules is exposed to the air, thus conduct the heat to the air directly

PSU WITH PFC FUNCTION

We adopts compact, high power efficiency and high power conversion efficiency Power Supply Units to the NV series products, so as to decrease the weight and power consumption for the LED screen, and also make the LED Panel looks more stylish.

SILENT DESIGN

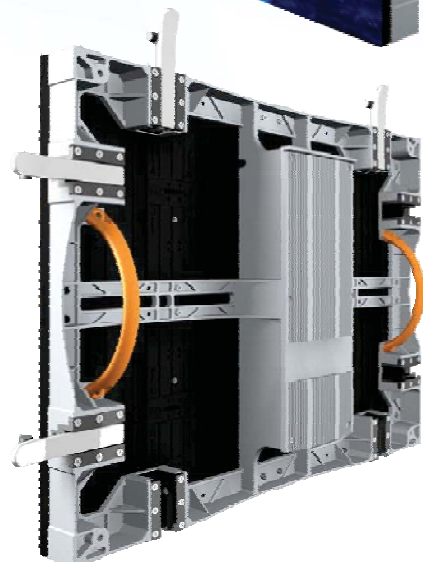
The LED panel is equipped with PSU but no fans, so no noise occurred when running

WIDE APPLICATION

The LED module can be replaced easily. The screen can be for fix installation or for rental. P10, P16 and P20 can be front maintenance. The LED screen can be used indoor and outdoor with weather resistance. The weight and thickness is much lower, convenient for transport and installation.

HIGH PROTECTION LEVEL

Integrated Design for the cabinet, protection level can be Ip65 front and Ip65



* Note: Images are suggestive in nature for actual model on request

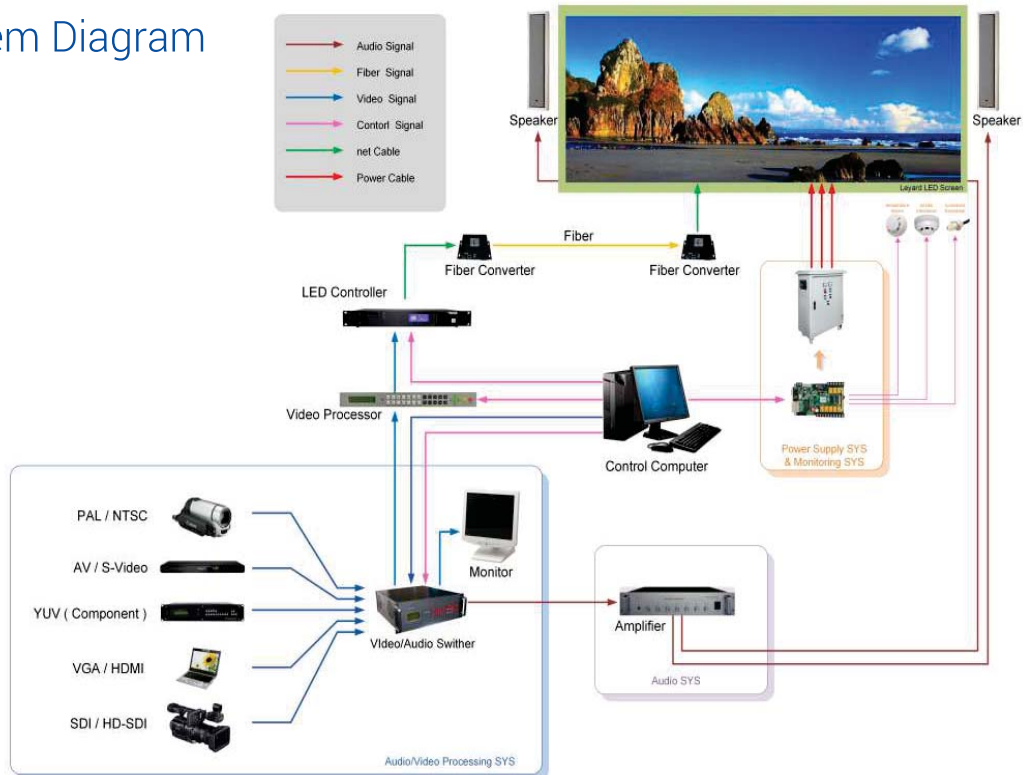
| | Parameter | MNVH 6S | MNVH 8S | MNVH 10S | MNVH 16S |
|-------------------------------------|--|--------------------------------|------------|----------------------|------------|
| Modules | Pixel Configuration | SMD 3 IN 1 | SMD 3 IN 1 | SMD 3 IN 1 | SMD 3 IN 1 |
| | Pitch (mm) | 6.15386 | 8 | 10 | 16 |
| Cabinet | Module configuration (W×H) | 2×2 | 2×2 | 2×2 | 2×2 |
| | Resolution (W×H) | 52 x 39 | 80×60 | 64×48 | 40×30 |
| | Size (mm) | 640(W)×480(H)×95(D) | | 640(W)×480(H)×108(D) | |
| | Cabinet Area (m2) | 0.3072 | 0.3072 | 0.3072 | 0.3072 |
| | Weight (kg/cabinet;kg/m ²) | 12 ; 39 | 12 ; 39 | 12 ; 39 | 13;42 |
| | Pixel density (pixel/m ²) | 26,406 | 15,625 | 10,000 | 3906 |
| | Flatness (mm) | ≤0.5 | ≤0.5 | ≤0.5 | ≤0.5 |
| | IP protection | Ip65 | Ip65 | Ip65 | Ip65 |
| | Optical | Pixel brightness calibration | Yes | Yes | Yes |
| Pixel color calibration | | Yes | Yes | Yes | Yes |
| Brightness before calibration(nits) | | ≥6500 | ≥6500 | ≥6500 | ≥6500 |
| White balance(nits) | | ≥5500(After 6500K Calibration) | | | |
| Color temperature (K) | | 3200–9300 adjustable | | | |
| Horizontal Viewing Angle (°) | | 160 | 160 | 160 | 120 |
| Vertical Viewing Angle (°) | | 120 | 120 | 120 | 120 |
| Light Centre Distance Deviation | | <3% | <3% | <3% | <3% |
| Brightness Uniformity | | ≥97% | ≥97% | ≥97% | ≥97% |
| Color Uniformity | | Within ±0.003Cx,Cy | | | |
| Electrical | Max Power Consumption (W/Cabinet;W/m2) | 250, 833 | 250, 833 | 250, 833 | 250, 833 |
| | Average Power Consumption (W/Cabinet;W/m2) | 83 , 277 | 83 , 277 | 83 , 277 | 83 , 277 |
| | Power Supply | AC100~240V(50Hz/60Hz) | | | |
| Processing | Driving Mode | Constant current drive | | | |
| | Reframe Rate (Hz) | 50&60 | 50&60 | 50&60 | 50&60 |
| | Frame Rate (Hz) | ≥1920 | ≥1920 | ≥3840 | ≥3840 |
| Operational | Lifetime (Half Brightness) | 100000 hrs | 100000 hrs | 100000 hrs | 100000 hrs |
| | Operating Temperature Range (°C) | -20 – 40 | -20 – 40 | -20 – 40 | -20 ~ 40 |
| | Storage Temperature Range (°C) | -35 – 60 | -35 – 60 | -35 – 60 | -35 ~ 60 |
| | Operating Humidity(RH) | 10 - 90% No drew | | | |
| | Storage Humidity(RH) | 10 - 95% No drew | | | |

Notice: Due to continued development above parameters are subject to change without prior notice.

MCV Series - Outdoor Sport Stadium Segment



System Diagram



| | Item | DIP LED1R,1G,1B | | SMD 3 IN 1LED | | | |
|---------------|--|-------------------------|--------------|-----------------|-----------------|---------------|---------------|
| | | MCV 10A2 | MCV 12A (2S) | MCV 6S - G | MCV8S-G (2S) | MCV10S-G | MCV12S - G |
| Module | Pixel Configuration | 1R,1G,1B | 1R,1G,1B | SMD 3 in 1 3535 | SMD 3 in 1 3535 | SMD 3in1 3535 | SMD 3in1 3535 |
| | Pixel Pitch(mm) | 10 | 12 | 6 | 8 | 10 | 12 |
| | Resolution(WXH) | 32x32 | 16x16 | 32x32 | 32 x 16 | 24 x 24 | 20 x 20 |
| | Dimension(mm) (WxHxD) | 320x320x26 | 192x192x32 | 192x192x18 | 256x128x23 | 240x240x25 | 240x240x25 |
| | Weight(kg) | 1.5 | 0.64 | 0.6 | 0.5 | 0.7 | 0.7 |
| | Max power consumption(w) | 58 | 25 | 25 | 32 | 30 | 30 |
| Cabinet | Configuration (WXH) | 4x3 | 4x4 | 4x4 | 4x6 | 4x4 | 4x4 |
| | Resolution(WXH) | 128x96 | 64x64 | 128x128 | 128x96 | 96x96 | 96x96 |
| | Dimension (mm) (WxHxD) | 1280x960x150 | 768x768x152 | 768x768x138 | 1024x768x143 | 960x960x145 | 960x960x146 |
| | Area(?) | 1.2288 | 0.589824 | 0.59 | 0.7864 | 0.9216 | 0.9216 |
| | Weight (Kg/m ²) | 60 | 65 | 51 | 51 | 51 | 50 |
| | Pixel Density (dot/m ²) | 10000 | 6944 | 27777 | 15625 | 10000 | 6944 |
| | IP Protection (Front / Rear) | IP65/ IP43 | | | | | |
| Flatness (mm) | ≤1 | | | | | | |
| Optical | Brightness & Colour Calibration | Yes | | | | | |
| | White Balance Brightness (nits) | 5500-6500 | 5500-7000 | 5000-6500 | 5500-7500 | 5000-6500 | ≥ 5500 |
| | Colour Temperature (K) (adjustable) | 3200-9300 | | | | | |
| | Horizontal Viewing Angle (°) | 135 | | 140 | | | |
| | Vertical Viewing Angle (°) | 60 | | 120 | | | |
| | Light Centre Distance Deviation | ≤ 3% | | | | | |
| | Brightness Uniformity | ≥ 97% | | | | | |
| | Color Uniformity | ± 0.003 Cx,Cy | | | | | |
| Electrical | Max Power Consumption (w/m ²) | 580 | 680 | 680 | 950 | 550 | 550 |
| | Avg. Power Consumption (w/m ²) | 193 | 227 | 277 | 317 | 183 | 183 |
| | Power Supply | AC 110v /220V (50/60Hz) | | | | | |
| Processing | Current Driving Mode | 1/4 scan | 1/2 scan | 1/8 | 1/2 | 1/3 | 1/2 |
| | Reframe Rate (Hz) | 50 & 60 | | | | | |
| | Frame Rate (Hz) | ≥1920 | | | | | |
| Operation | Life Time(half brightness) Hrs | 50,000 | | | | | |
| | Operation Temperature Range (°C) | - 20— 40 | | - 20—60 | | | |
| | Storage Temperature Range (°C) | - 30— 60 | | - 30—60 | | | |
| | Operating Humidity Range (RH) | 10 - 90% | | | | | |
| | Storage Humidity Range (RH) | 10 - 80% | | | | | |

Notice: Due to continued development above parameters are subject to change without prior notice.

▶ Carbon Lite Series (Arc)



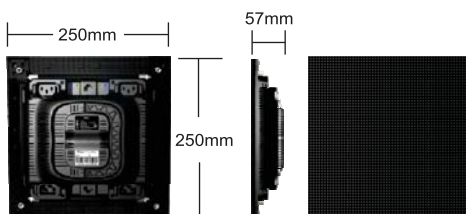
LIGHTWEIGHT, FLEXIBLE AND EASY TO DEPLOY LED DISPLAYS



- Broad range of LED products to perfectly fit a variety of uses and environments
- Patented, state-of-the-art carbon fiber construction
- Precision-made mechanical design
- Common architecture that makes the easy to master
- Built for easy serviceability

FEATURES

- SMD 3in1 LEDs, Ultra thin and Light weight High Resolution Indoor LED Display
- High refresh rate and ultra low brightness display without Gray scale reducing
- Carbon Fiber frame for super thin and lightweight style with ultra-high strength tensile force, high mechanical stability
- Easy, quick and flexible installation for fast assembly and maintenance, suitable for different applications
- Dot by dot calibration guarantee image uniformity
- Perfect inclined frame structure for curved and 90degree assembly



| | | | | |
|---------------------------|---------|---------|---------|---------|
| | Arc | CLA1.5 | CLA1.9 | |
| Carbon Light Series | Indoor | CLI2.6 | CLI3.9 | CLI5.2 |
| | Outdoor | CLO3.9 | CLO5.2 | CLO7.8 |
| | Floor | CLF6.2 | CLF7.8 | CLF10.4 |
| | Mesh | CLM10.4 | CLM15.6 | |
| | | | | |

| Parameter | MCL A | |
|---|--------------------------|--------------------------|
| Pitch (mm) | 1.5 | 1.9 |
| Module Size (W X H X D) (mm) | 250x250x58 | 250x250x58 |
| Module Resolution (W x H) | 160 x 160 | 128 x 128 |
| Weight (kg/Panel) | ≤ 2.5 | ≤ 2.5 |
| Pixel density (dots/m ²) | 443,556 | 276,676 |
| Brightness Max(cd/m ²) | 1,000 | 1,000 |
| Grey Scale(bit) | 16 bit | 16 bit |
| Refresh Rate(Hz) | 3600 | 3600 |
| Frame Rate(Hz) | 50/60 | 50/60 |
| Contrast ratio | 2,000 : 1 | 2,000 : 1 |
| Color Temperature (after calibration)(K) | 6,500 | 6,500 |
| Horizontal/Vertical Viewing Angle(°) | 140/140 | 140/140 |
| Protection | IP40 | IP40 |
| Working Voltage (V) | AC 110 ~ 240V (50/60 HZ) | AC 110 ~ 240V (50/60 HZ) |
| Max power consumption (W/m ²) | 1200 | 1200 |
| Working Temperature (°C) | -20~ 40 | -20~ 40 |
| Storage Temperature (°C) | -20 ~ 50 | -20 ~ 50 |
| Power Supply | Single | Single |
| Cabinet Material | Carbon fiber | Carbon fiber |
| Max Hanging (Vertical) | ≥1,000 Kg | ≥1,000 Kg |
| Signal Cable | CAT 6 (1,000 m) | CAT 6 (1,000 m) |
| Video Signle Input Interface | DVI/HDMI/HDSDI | DVI/HDMI/HDSDI |
| Life Time(Hrs) | 100000 | 100000 |

Notice: Due to continued development above parameters are subject to change without prior notice.

LESS TRAINING TO EASILY LEARN ALL PRODUCTS



VSP-F2L4 Processor



SDV-08 Signal Divider



PDV-09 Power Divider

Common Hardware

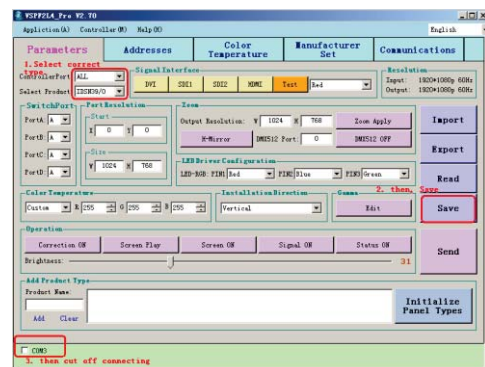


FALock



AMLock

Common Software

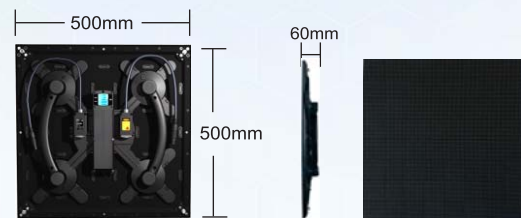


Carbon Lite Series (Indoor)



FEATURES

- SMD 3in1 LEDs, super thin and lightweight Indoor LED Display
- Super high refresh rate, ultra low brightness display without Gray scale reducing
- Carbon Fiber substrates with ultra-high strength tensile force,
- high mechanical stability, ultra thin and lightweight
- Easy, quick and flexible installation for fast assembly and maintenance,
- suitable for different applications
- Dot by dot calibration guarantee image uniformity
- Double-side 45degree curved angle design, suitable for 90degree assembly



STATE-OF-THE-ART CARBON FIBER CONSTRUCTION

Display are incredibly thin and Light weight

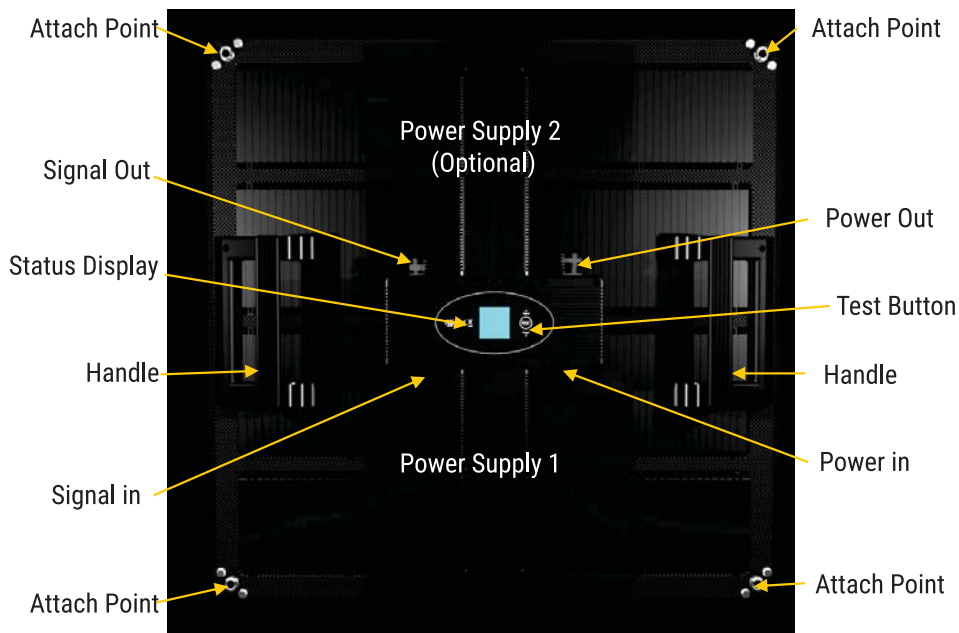
- Efficient Transport
- Fast, easy setup and teardown
- Can be hung with simple support or hanger



| Parameter | MCLI | | |
|---|--------------------------|--------------------------|--------------------------|
| | 2.6 | 3.9 | 5.2 |
| pixel pitch (mm) | 2.6 | 3.9 | 5.2 |
| Module Size (W X H X D) (mm) | 500x500x53 | 500x500x53 | 500x500x53 |
| Module Resolution (W x H) | 192 x 192 | 128 x 128 | 96 x 96 |
| Weight (kg/Panel) | 4.5 | 4.5 | 4.5 |
| Pixel density (dots m ²) | 148,225 | 65,536 | 36,864 |
| Brightness Max(cd/m ²) | 1,000 | 1,000 | 1,000 |
| Grey Scale(bit) | 14 bit | 14 bit | 14 bit |
| Refresh Rate(Hz) | 3,000 | 3,000 | 2,000 |
| Frame Rate(Hz) | 50/60 | 50/60 | 50/60 |
| Contrast ratio | 4,000 : 1 | 4,000 : 1 | 4,000 : 1 |
| Color Temperature (after calibration)(K) | 6,500 | 6,500 | 6,500 |
| Horizontal/Vertical Viewing Angle(°) | 140/140 | 140/140 | 140/140 |
| Protection | IP40 | IP40 | IP40 |
| Working Voltage (V) | AC 110 ~ 240V (50/60 HZ) | AC 110 ~ 240V (50/60 HZ) | AC 110 ~ 240V (50/60 HZ) |
| Max power consumption (W/m ²) | 600 | 600 | 600 |
| Working Temperature (°C) | -20 ~ 40 | -20 ~ 40 | -20 ~ 40 |
| Storage Temperature | -20 ~ 50 | -20 ~ 50 | -20 ~ 50 |
| Power Supply | Single | Single | Single |
| Cabinet Material | Carbon fiber | Carbon fiber | Carbon fiber |
| Max Hanging (Vertical) | 1,000 Kg | 1,000 Kg | 1,000 Kg |
| Signal Cable | CAT 5 (1,000 m) | CAT 5 (1,000 m) | CAT 5 (1,000 m) |
| Video Signle Input Interface | DVI/HDMI/HDSDI | DVI/HDMI/HDSDI | DVI/HDMI/HDSDI |
| Life Time(Hrs) | 100000 | 100000 | 100000 |

Notice: Due to continued development above parameters are subject to change without prior notice.

CarbonLight CLI Series

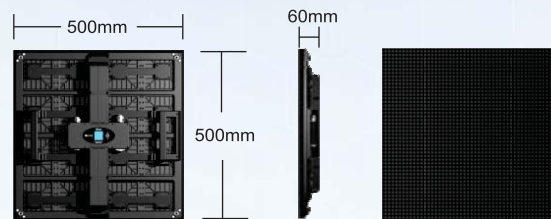


▶ Carbon Lite Series (Outdoor)



ALL-WEATHER APPLICATION LED DISPLAY

- SMD 3in1 LEDs, suitable for indoor and outdoor application
- Fully compatible with indoor display, ultra low brightness display without Gray scale reducing
- Carbon Fiber frame for super thin and lightweight style with ultra-high strength tensile force, high mechanical stability
- Easy, quick and flexible installation for fast assembly and maintenance, suitable for different applications
- Dot by dot calibration guarantee image uniformity
- Double-side 45degree curved angle design, suitable for 90degree assembly



EXCELLENT MECHANICAL DESIGN

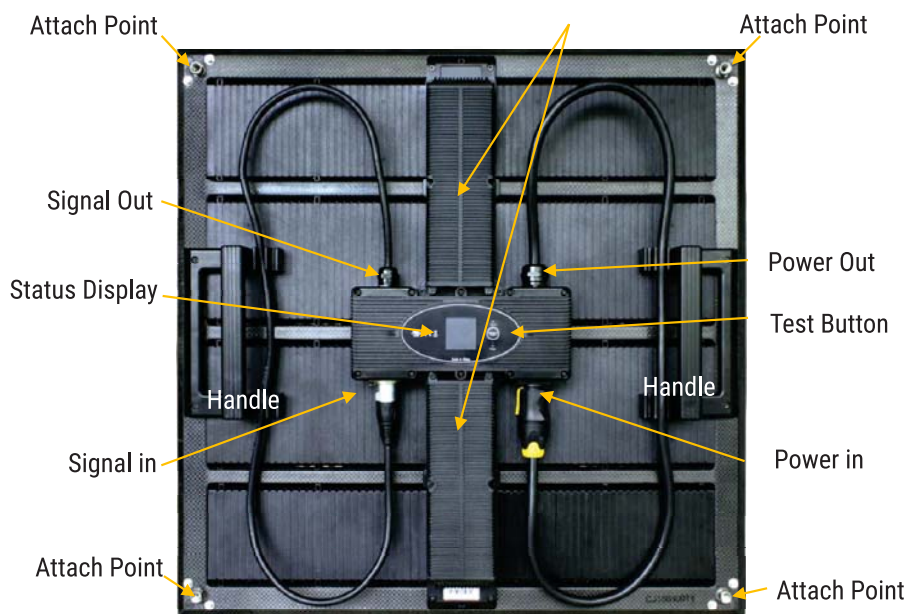
- 45 degree display edges for 90 degree assembly
- Applies to Carbonlight CLI,CLO,CLA and CLM Series only



| Items | MCLO | | |
|---|---------------------------|---------------------------|---------------------------|
| | 3.9 | 5.2 | 7.8 |
| pixel pitch (mm) | 3.9 | 5.2 | 7.8 |
| Module Size (W X H X D) (mm) | 500*500*55 | 500*500*55 | 500*500*55 |
| Module Resolution (W x H) | 128 x 128 | 96 x 96 | 64 x 64 |
| Pixel density (dots/m ²) | 65,536 | 36,864 | 16,384 |
| Brightness Max(cd/m ²) | 6,000 | 6,000 | 6,000 |
| Grey Scale(bit) | 14 bit | 14 bit | 14 bit |
| Refresh Rate(Hz) | 3000 | 3000 | 2000 |
| Frame Rate(Hz) | 50/60 | 50/60 | 50/60 |
| Contrast | 2,000 : 1 | 2,000 : 1 | 2,000 : 1 |
| Color Temperature (after calibration)(K) | 6,500 | 6,500 | 6,500 |
| Horizontal/Vertical Viewing Angle(°) | 140/140 | 140/140 | 140/140 |
| Weight (kg/Panel) | 5 | 5 | 5 |
| Protection | IP 65 | IP 65 | IP 65 |
| Working Voltage (V) | AC 110 ~ 240 V (50/60 HZ) | AC 110 ~ 240 V (50/60 HZ) | AC 110 ~ 240 V (50/60 HZ) |
| Max power consumption (W/m ²) | ≤ 1,200 | ≤ 1,200 | ≤ 1,200 |
| Working Temperature (°C) | -20 ~ 40 | -20 ~ 40 | -20 ~ 40 |
| Storage Temperature (°C) | -20 ~ 50 | -20 ~ 50 | -20 ~ 50 |
| Cabinet Material | Carbon fiber | Carbon fiber | Carbon fiber |
| Max Hanging (Vertical) | 1,000 kg | 1,000 kg | 1,000 kg |
| Signal Cable | CAT6(1,000 m) | CAT6 (1,000 m) | CAT6 (1,000 m) |
| Video Single Input Interface | DVI/HDMI/HDSDI | DVI/HDMI/HDSDI | DVI/HDMI/HDSDI |
| Life Time (hrs) | 100000 | 100000 | 100000 |

Notice: Due to continued development above parameters are subject to change without prior notice.

CarbonLight CLO Series

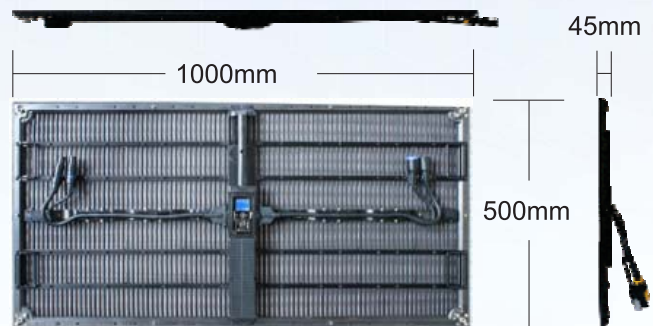


Carbon Lite Series (Outdoor Mesh)

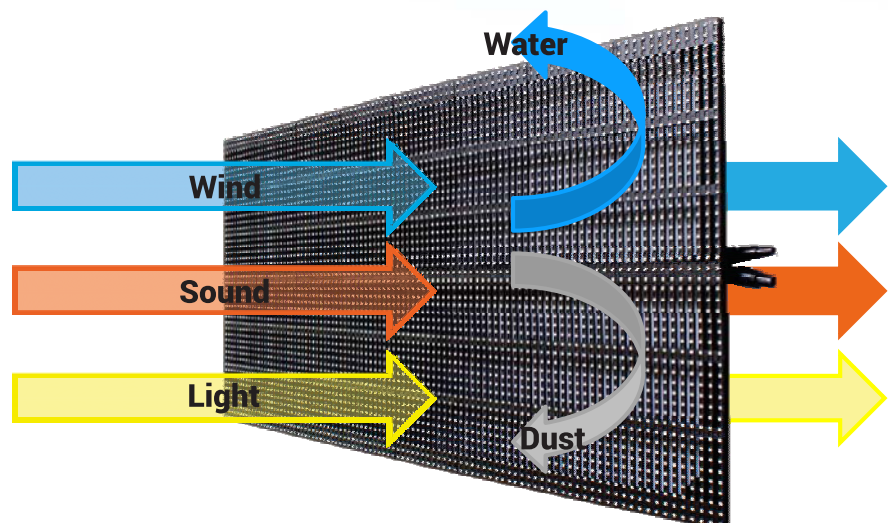


FEATURES

- Aerodynamic design: wind resistant – ideal for large scale setups
- Carbon Fiber materials for super thin style with angled edge structure
- Vertical Solution: Hanging hinges & vertical lining technique – ideal for large backdrops
- Optional backplates for non-transparency
- Grey scale processing & color calibration techniques ensure amazing graphic quality
- Easy, quick and flexible installation for fast assembly and disassembly
- Invisible Cable Management



High Transparency
Mesh design with
IP65 Protection rating



Carbon Lite Series (Outdoor Mesh)

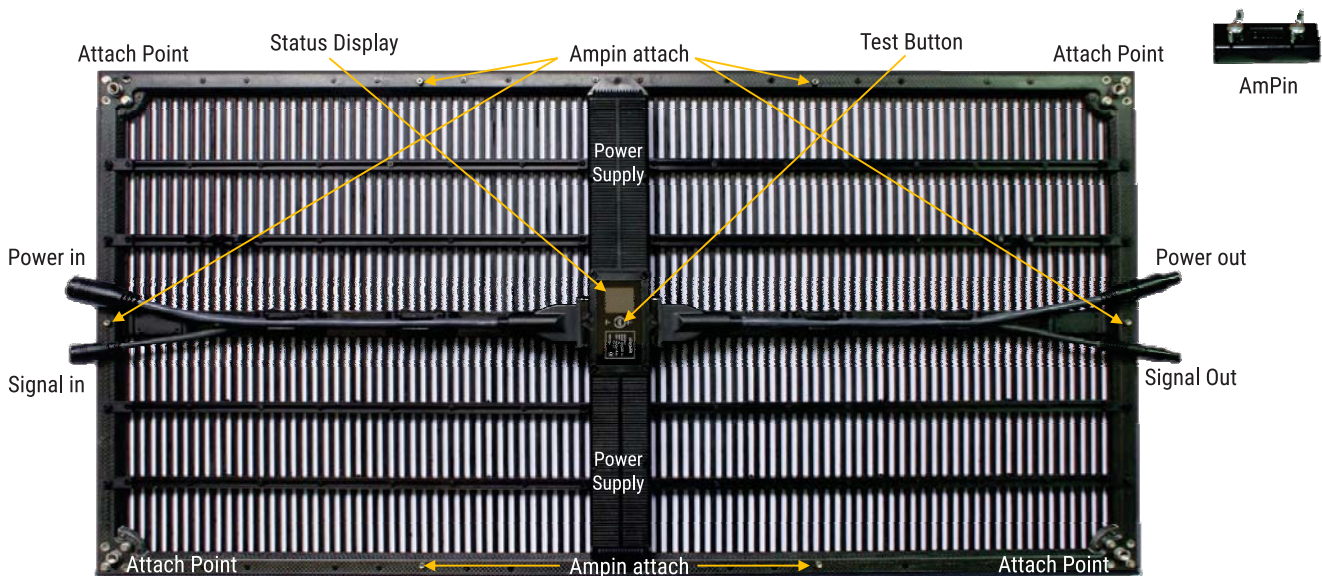
Tech. Specs.

CARBON LITE SERIES

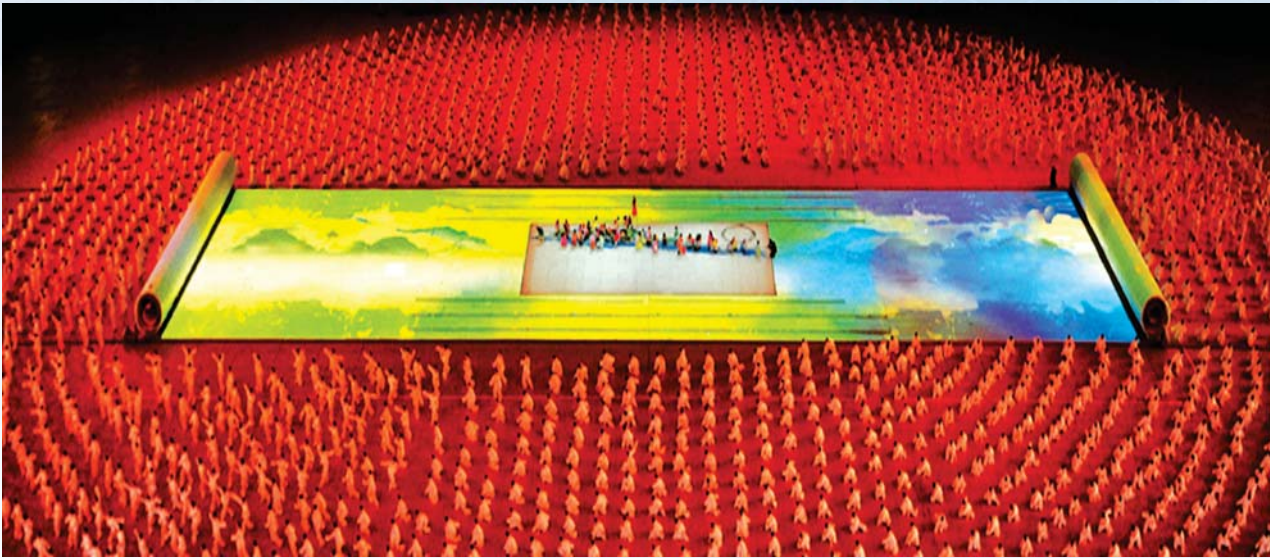
| Parameter | MCLM | |
|---|---------------------------|---------------------------|
| | MCLM 10.4 | MCLM 15.6 |
| Pixel pitch (mm) | 10.4 | 15.6 |
| Module Size (W X D X H) (mm) | 1000x500x45 | 1000x500x45 |
| Module Resolution (WxH) | 96 x 48 | 64 x 32 |
| Pixel density (dots/m ²) | 18,432 | 8,192 |
| Brightness Max(cd/m ²) | 5,000 | 5,000 |
| Grey Scale(bit) | 14 bit | 14 bit |
| Refresh Rate(Hz) | 1,000 | 1,000 |
| Frame Rate(Hz) | 50/60 | 50/60 |
| Contrast | 2,000 : 1 | 2,000 : 1 |
| Color Temperature (after calibration)(K) | 6,500 | 6,500 |
| Horizontal/Vertical Viewing Angle(°) | 140/140 | 140/140 |
| Weight (kg/Panel) | 4.8 | 4.8 |
| Power Supply | Dual | Dual |
| Protection | IP 65 | IP 65 |
| Working Voltage (V) | AC 110 ~ 240 V (50/60 HZ) | AC 110 ~ 240 V (50/60 HZ) |
| Max power consumption (W/m ²) | 600 | 600 |
| Working Temperature (°C) | -20 ~ 40 | -20 ~ 40 |
| Storage Temperature (°C) | -20 ~ 50 | -20 ~ 50 |
| Cabinet Material | Carbon fiber | Carbon fiber |
| Max Hanging (Vertical) | 1,000 Kg | 1,000 Kg |
| Signal Cable | CAT6(1,000 m) | CAT6 (1,000 m) |
| Video Signle Input Interface | DVI/HDMI/HDSDI | DVI/HDMI/HDSDI |
| Life Time(hrs) | 100000 | 100000 |

Notice: Due to continued development above parameters are subject to change without prior notice.

CarbonLight CLM Series

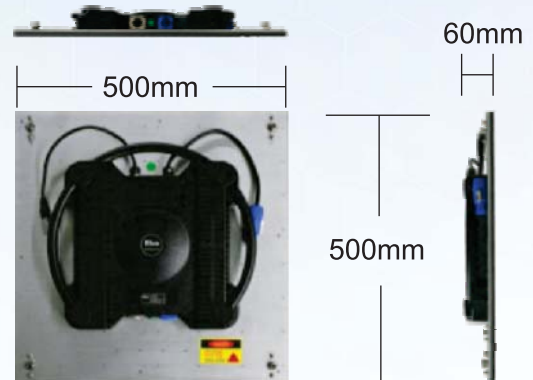


Carbon Lite Series (Floor Display)



FEATURES

- A creative & state of the art LED ground plate you can walk on
- Press to Impress: Ideal for both indoor and outdoor applications of LED stage floors
- Die-cast aluminum modules can seamlessly create even largest floor configurations
- DigiFloor modules are able to handle weights of up to a small car
- Specialized filtering processes eliminate moiré patterns (image artifacts)
- 16 bit grey scale processing & pixel correction techniques ensure image quality



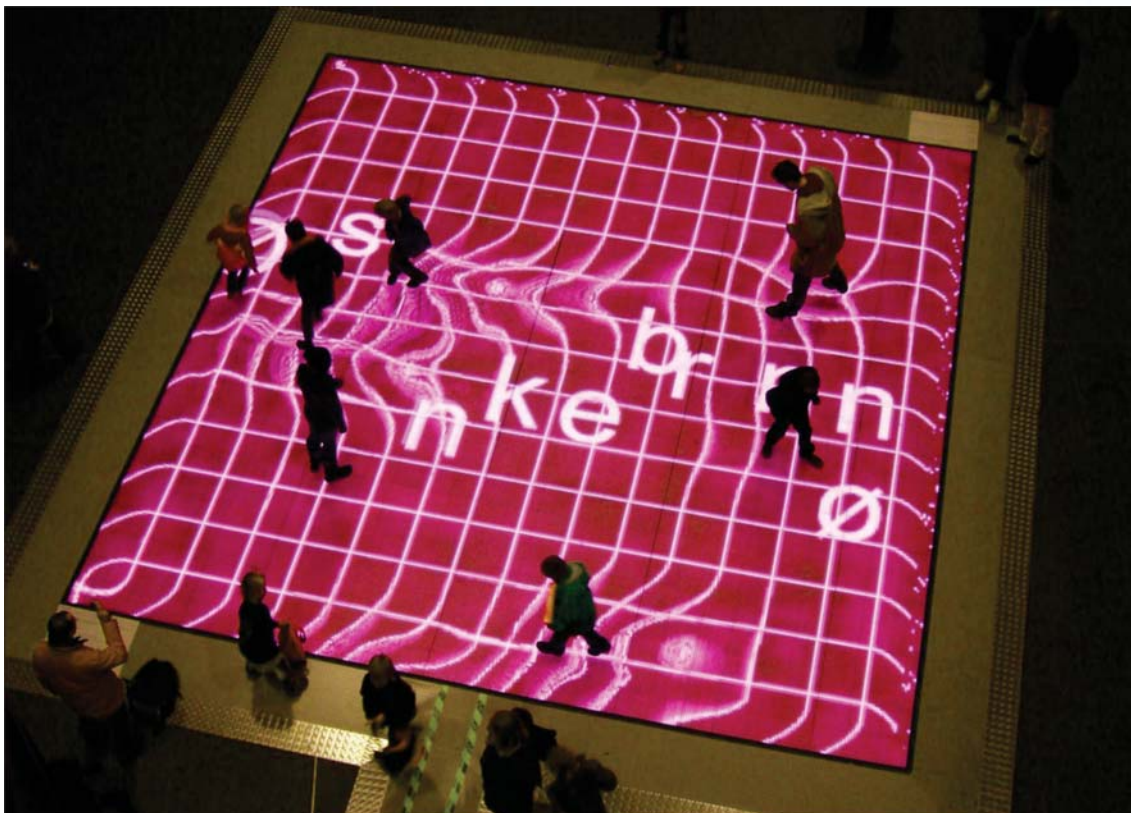
Carbon Lite Series (Floor Display)

Technical Specifications

CARBON LITE SERIES

| Parameter | MCLF | | |
|---|--------------------------|--------------------------|--------------------------|
| | | | |
| pixel pitch (mm) | 5.2 | 6.2 | 10.4 |
| Module Size (W X H X D) (mm) | 500x500x82 | 500x500x82 | 500x500x82 |
| Weight (kg/Panel) | 8 | 8 | 8 |
| Pixel density (dots/m ²) | 36,864 | 25,921 | 9,216 |
| Brightness Max(cd/m ²) | 2000 | 5000 | 5000 |
| Grey Scale(bit) | 14 bit | 14 bit | 14 bit |
| Refresh Rate(Hz) | 1800 | 1800 | 1800 |
| Frame Rate(Hz) | 50/60 | 50/60 | 50/60 |
| Contrast | 2,000 : 1 | 2,000 : 1 | 2,000 : 1 |
| Color Temperature (after calibration)(K) | 6,500 | 6,500 | 6,500 |
| Horizontal/Vertical Viewing Angle(°) | 140/140 | 140/140 | 140/140 |
| Protection | IP40 | IP40 | IP40 |
| Working Voltage (V) | AC 110 ~ 240V (50/60 HZ) | AC 110 ~ 240V (50/60 HZ) | AC 110 ~ 240V (50/60 HZ) |
| Max power consumption (W/m ²) | ≤ 800 | ≤ 800 | ≤ 800 |
| Working Temperature (°C) | (-25~ 40) | (-25~ 40) | (-25~ 40) |
| Power Supply | Dual Power Supply | Dual Power Supply | Dual Power Supply |
| Cabinet Material | Carbon fiber | Carbon fiber | Carbon fiber |
| Max Hanging (Vertical) | 1,000 Kg | 1,000 Kg | 1,000 Kg |
| Signal Cable | CAT 5 (1,000 m) | CAT 5 (1,000 m) | CAT 5 (1,000 m) |
| Video Signal Input Interface | DVI/HDMI/HDSDI | DVI/HDMI/HDSDI | DVI/HDMI/HDSDI |
| Life Time(Hrs) | ≥ 75,000 | ≥ 75,000 | ≥ 75,000 |

Notice: Due to continued development above parameters are subject to change without prior notice.



Creative Display - 3D Hologramic



DESCRIPTION

LED 3D Hologram scores over other types of similar holographic devices in that it is day-time visible and can be viewed from long distances with a wide viewing angle. This 100% Indigenous product, is very cost effective and provides a stunning visual experience with a wide ranging application potential, that includes mass communications and political campaigning.

FEATURES

- Creating Naked eye 3D viewing experience during Day or Night times
- Live streaming capability
- Live streaming capability with interactive features
- Holographic Display of Recorded content of speeches or events
- Possibility of creating 'Tele-presence' of people located far off
- 'Digital Resurrection' with Archival Shows – Bringing back the departed, and recreating history
- Insertion of Virtual images to create illusory presence of people
- Image amplification for long distance viewing
- Morphing and Lip Sync technology possible

APPLICATIONS

- Educational Institutions
- Malls for Product & Event promotions
- Theatres and Stages for dramatic applications
- Cine Studios for creating visual effects
- Spiritual Centers & Ashrams for propagating faith
- Stages and Stadium for political campaigns
- Entertainment Parks for amusement of children & adults



▶ Truck Mounted Mobile displays

CREATIVE DISPLAY



MIC's has proven experience in delivering truck mounted displays as self sufficient Display units containing satellite TV, silent gensets, operator's room, hydraulic lifts etc. With deliveries made across the world like Dubai, South Africa and Australia along with many in India, we have an edge in truly Mobile displays.

16.256MM TRUCK DISPLAYS:



FEATURES

- Hydraulic operation
- Any flatbed truck customizable
- Screen rotatable 360 deg
- Silent generator on board
- Satellite TV
- Air-conditioned operator cabin

20.32MM TRUCK DISPLAYS:



APPLICATIONS

- Public rallies
- Mobile campaigns
- Mobile advertising

Railway PIS Displays

| HOWRAH | | | | |
|-----------|-----------------------|-----------|-----|------|
| Train No. | Train Name | Exp. Time | A/D | PFNo |
| 12382 | Poorva Express - Gaya | 16:45 | A | 1 |
| 37839 | Barddhaman via Main | 16:45 | D | 2 |
| 38109 | Uluberia Local | 16:45 | D | 3 |
| 38155 | Uluberia Local | 16:45 | D | 4 |
| 12827 | Howrah Purulia Exp | 16:50 | D | 5 |
| 37061 | Seoraphuli Local | 16:50 | D | 6 |
| 12301 | Rajdhani Exp via Gaya | 16:55 | D | 7 |
| 37261 | Bandel Local | 16:55 | D | 8 |
| 37063 | Seoraphuli Local | 17:00 | D | 9 |
| 37337 | Tarakeswar Local | 17:00 | D | 10 |
| 37921 | Katwa Gallop | 17:05 | D | 11 |
| 37367 | Arambagh Local | 17:10 | D | 12 |

DESCRIPTION

"True Colour Video -cum-Train Information Display System" used for giving train arrival/departure information and any other video information to passengers. It's a PC based announcement system and true colour display boards; namely platform display boards, coach guidance display boards, Indoor video display boards and Outdoor video display boards; placed at various places of a station with the feature of networking and operation from a central place.

The display system displays train number, name of train, expected time, arrival/departure and platform number for multiple trains at a time on Indoor or Outdoor Video Display Boards.

FEATURES:

- Multi color Multi Lingual true Color Display
- Soothing to the Eyes
- Displays video-Cum-Train Arrival/Departual Information
- Real Time train Informatio linked to SIMRAN
- Integrated Software to Automatically Announce Train Information.

BENEFITS:

- Lowest Operational Costs
- Opportunity for Additional Revenue generation through Advertisements
- Lesser load at Enquiry Counters

DISPLAY MODELS

Outdoor 16.256mm

Indoor 9.525mm

Specifications- Outdoor Video Displays

| Description | 6-Line Display | 12-Line Display | 18-Line Display |
|---|----------------------------------|----------------------------------|----------------------------------|
| Pixel Pitch | 16.256mm (±0.1mm) | 16.256mm (±0.1mm) | 16.256mm (±0.1mm) |
| Pixel Led | (2R+1G+1B) or (1R+1G+1B) | (2R+1G+1B) or (1R+1G+1B) | (2R+1G+1B) or (1R+1G+1B) |
| Pixel Resolution (WxH) | 320x80 | 320x160 | 320x240 |
| Total Number of Pixels | 25600 | 51200 | 76800 |
| No. of Modules (WxH) | 8x2 | 8x4 | 8x6 |
| Module Matrix | 40x40 | 40x40 | 40x40 |
| Display Board Physical Size (WxHxD) (approx.) | 5200mmx1300mmx 300mm | 5200mmx2600mm x300mm | 5200mmx3900mmx 300mm |
| Display Board Area (approx.) | 6.7m ² /72sq.feet | 13.5m ² /145sq.feet | 20.2m ² /217sq.feet |
| Surface Luminance (typical) | 7500 cd/m ² | 7500 cd/m ² | 7500 cd/m ² |
| Typical Display Viewing Angle | Horizontal -110 ° Vertical -50 ° | Horizontal -110 ° Vertical -50 ° | Horizontal -110 ° Vertical -50 ° |
| Color Processing (min.) | 16-bit per Color | 16-bit per Color | 16-bit per Color |
| Installation | Outdoor/Platform | Outdoor/Platform | Outdoor/Platform |
| Line height (Min.) | 12 Pixles | 12 Pixles | 12 Pixles |
| No. of Lines | 6 | 12 | 18 |
| Total Power (Peak white) (max.) | 8.0K watts | 16.0K watts | 24.0K watts |
| Typical Operating Load (approx) | 2.66K watts | 5.33K watts | 8.0K watts |
| Input Power requirement | 160V-265V AC 50Hz | 160V-265V AC 50Hz | 160V-265V AC 50Hz |
| IP Rating | IP56 | IP56 | IP56 |

Specifications- Indoor Video Displays

| Description | 6-Line Display | 12-Line Display | 18-Line Display |
|---|---------------------------------|---------------------------------|---------------------------------|
| Pixel Pitch | 9.525mm (±0.1mm) | 9.525mm (±0.1mm) | 9.525mm (±0.1mm) |
| Pixel Led | RGB 3 -in-1 Chip Led (SMD) | RGB 3 -in-1 Chip Led (SMD) | RGB 3 -in-1 Chip Led (SMD) |
| Pixel Resolution (WxH) | 384x96 | 384x192 | 384x288 |
| Total Number of Pixels | 36864 | 73728 | 110592 |
| No. of Modules (WxH) | 3x1 | 3x2 | 3x3 |
| Module Matrix | 128x96 | 128x96 | 128x96 |
| Display Board Physical Size (WxHxD) (approx.) | 3660mmx915mmx 300mm | 3660mmx1830mm x300mm | 3660mmx2745mmx300mm |
| Display Board Area (approx.) | 3.3m ² /35sq.feet | 6.6m ² /70sq.feet | 10.0m ² /105sq.feet |
| Diagonal Distance (approx.) | 145 inch / 370cm | 160 inch / 400cm | 180 inch / 450cm |
| Surface Luminance (typical) | 2500 cd/m ² | 2500 cd/m ² | 2500 cd/m ² |
| Typical Display Viewing Angle | 110 ° (Horizontal and Vertical) | 110 ° (Horizontal and Vertical) | 110 ° (Horizontal and Vertical) |
| Color Processing (min.) | 12-bit per Color | 12-bit per Color | 12-bit per Color |
| Installation | Indoor/Platform | Indoor/Platform | Indoor/Platform |
| Line height (Min.) | 16 Pixels | 16 Pixels | 16 Pixels |
| No. of Lines | 6 | 12 | 18 |
| Total Power (Peak white) (max.) | 3.0K watts | 6.0K watts | 9.0K watts |
| Typical Operating Load (approx) | 1.0K watts | 2.0K watts | 3.0K watts |
| Input Power requirement | 160V-265V AC 50Hz | 160V-265V AC 50Hz | 160V-265V AC 50Hz |
| IP Rating | IP54 | IP54 | IP54 |

Notice: Due to continued development above parameters are subject to change without prior notice.

Coach Guidance Display



FEATURES:

- Multi Lingual Single color Display
- Easy to Read and Pleasing to the Eye
- Displays Coach Guidance Number
- Real Time train Information linked to SIMRAN
- Integrated Software to Automatically Announce Train Information.

BENEFITS:

- Lowest Operational Costs
- Lesser load at Enquiry Counters



| Pixel Pitch | 9.525mm (±0.1mm) | 10mm (±0.5mm) | 10mm (±0.5mm) |
|---|----------------------------------|----------------------------------|----------------------------------|
| Pixel Led | RGB 3-in-1 Chip Led (SMD) | RGB 3-in-1 Chip Led (SMD) | SMD-LED |
| Color | True Color | True Color | White Color |
| Display Matrix | 64x24 | 48x16 | 48x16 |
| Intensity Control | Manual | Manual | Manual |
| No. of Sides | Double face | Double face | Double face |
| No. of Lines | Single | Single | Single |
| No. of Characters | Up to 5 Characters | Up to 5 Characters | Up to 5 Characters |
| Character Size | 150mm x 90mm (Min.) | 150mm x 90mm (Min.) | 150mm x 90mm (Min.) |
| Languages Displayed | Alpha Numeric, English and Hindi | Alpha Numeric, English and Hindi | Alpha Numeric, English and Hindi |
| PCB | Glass Epoxy FR-4 Grade | Glass Epoxy FR-4 Grade | Glass Epoxy FR-4 Grade |
| Power Supply Required | 230V AC,50Hz | 230V AC,50Hz | 230V AC,50Hz |
| Working Voltage Range | 160V-265V AC 50Hz,Single Phase | 160V-265V AC 50Hz,Single Phase | 160V-265V AC 50Hz,Single Phase |
| Physical Dimensions of casing (LxHxD) (approx.) | 600mmx350mmx220mm | 600mmx350mmx220mm | 600mmx350mmx220mm |
| Case Material | CRCA Sheet | CRCA Sheet | CRCA Sheet |
| Thick ness | 18 SWG | 18 SWG | 18 SWG |
| Mounting Provision | Wall Mounting/ Over Hanging | Wall Mounting/ Over Hanging | Wall Mounting/ Over Hanging |
| Color | Black | Black | Black |
| Finish | Powder Coated | Powder Coated | Powder Coated |
| IP Rating | IP54 | IP54 | IP54 |

Notice: Due to continued development above parameters are subject to change without prior notice.

Platform Display

SINGLE LINE DISPLAY: 384X16

| TRAIN No. | TRAIN NAME | EXPT. TIME | A/D | PF No. |
|-----------|----------------|------------|-----|--------|
| 15046 | GORAKHPUR Exp. | 18:20 | D | 4 |

| TRAIN No. | TRAIN NAME | EXPT. TIME | A/D | PF No. |
|-----------|--|------------|-----|--------|
| 15046 | ENG GEN GEN S1 S2 S3 S4 S6 S7 S8 B1 B2 B3 A1 A2 H1 S9 S10 S11 S12 GEN GEN SLR | | | |

DOUBLE LINE DISPLAY: 192X32

| TRAIN No. | EXPT. TIME | A/D | PF No. |
|----------------|------------|-----|--------|
| 15046 | 18:20 | D | 4 |
| GORAKHPUR Exp. | | | |

| TRAIN No. | EXPT. TIME | A/D | PF No. |
|-----------|---|-----|--------|
| 15046 | ENG GEN GEN S1 S2 S3 S4 S5 S6 S7 B1 B2 B3 A1 A2 H1 S8 S9 S10 S11 S12 GEN GEN SLR | | |

FEATURES:

- Multi Lingual Multi Color Display
- Easy to Read and Pleasing to the Eye
- Displays Train Arrival/Departure Information
- Real Time train Information linked to SIMRAN
- Integrated Software to Automatically Announce Train Information.
- Alternatively displays Train Arrival/Departure Information and Coach Composition

BENEFITS:

- Lowest Operational Costs
- Lesser load at Enquiry Counters

Specifications - Platform Display (True Color / Single Color) - Each Side

| Description | Single Line Display / Double Line Display (True Color) | Single Line Display / Double Line Display (Single Color) |
|---|--|--|
| Pixel Pitch | 10mm (±0.5mm) | 10mm (±0.5mm) |
| Pixel Led | RGB 3 -in-1 Chip Led (SMD) | SMD - LED |
| Color | True Color | White Color |
| Display Matrix | 384x16 / 192x32 | 384x16 / 192x32 |
| Intensity Control | Manual | Manual |
| No. of Sides | Single face / Double face | Single face / Double face |
| No. of Lines | Single Line TADI / Double Line TADI Double Line Coach Composition Information | Single Line TADI / Double Line TADI Double Line Coach Composition Information |
| No. of Characters | Four Line Coach Composition Information Train.No.- 5 Digits, Train.Name - 15 Characters, Expt.Time - 4 Digits+Colon, A/D - 1 Char PF.No. - 2 Digits + 1 Char, | Four Line Coach Composition Information Train.No.- 5 Digits, Train.Name - 15 Characters, Expt.Time - 4 Digits+Colon, A/D - 1 Char PF.No. - 2 Digits + 1 Char, |
| Languages Displayed | English, Hindi and Regional Language | English, Hindi and Regional Language |
| PCB | Glass Epoxy FR-4 Grade | Glass Epoxy FR-4 Grade |
| Power Supply Required | 230V AC,50Hz | 230V AC,50Hz |
| Working Voltage Range | 160V-265V AC 50Hz,Single Phase | 160V-265V AC 50Hz,Single Phase |
| Physical Dimensions of casing (LxHxD) (approx.)(mm) | 4100x350x220mm / 2150x550x220mm | 4100x350x220mm / 2150x550x220mm |
| Case Material | CRCA Sheet | CRCA Sheet |
| Thick ness | 18 SWG | 18 SWG |
| Mounting Provision | Wall Mounting/ Over Hanging | Wall Mounting/ Over Hanging |
| Color | Black | Black |
| Finish | Powder Coated | Powder Coated |
| IP Rating | Ip54 | Ip54 |

Notice: Due to continued development above parameters are subject to change without prior notice.

▶ Variable Message System (VMS)



Global Presence

MIC has made a conscious effort to mark their presence across geographies. Based on the success of positioning its products and services in LED Display Systems, both nationally and globally.

Global presence not only ensures recognition, acceptance and credibility of the brand, it also adequately mitigates risks arising out of adverse conditions in a particular region.

MIC maintains offices or manufacturing presence in India, the USA, Australia and South Korea. Its clients range over a larger global foot print including Saudi Arabia, Dubai, South Africa and Sri Lanka among others.

Some of our Esteemed Customers (National & International)

