P5 Outdoor LED Display Solution by VIVISOMA

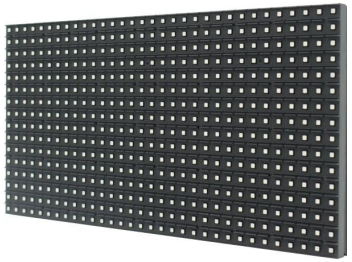
P5 Outdoor LED Display Solution

Design for structure

Control system solutions

Assembly solutions

P5 Outdoor LED Display Solution



P5 320*160mm modules

High Stability

Seamless Splicing

Energy Saving

High Refresh Rate

Large Gray Scale

Slim cabinet

High Density

P5 Steel cabinet

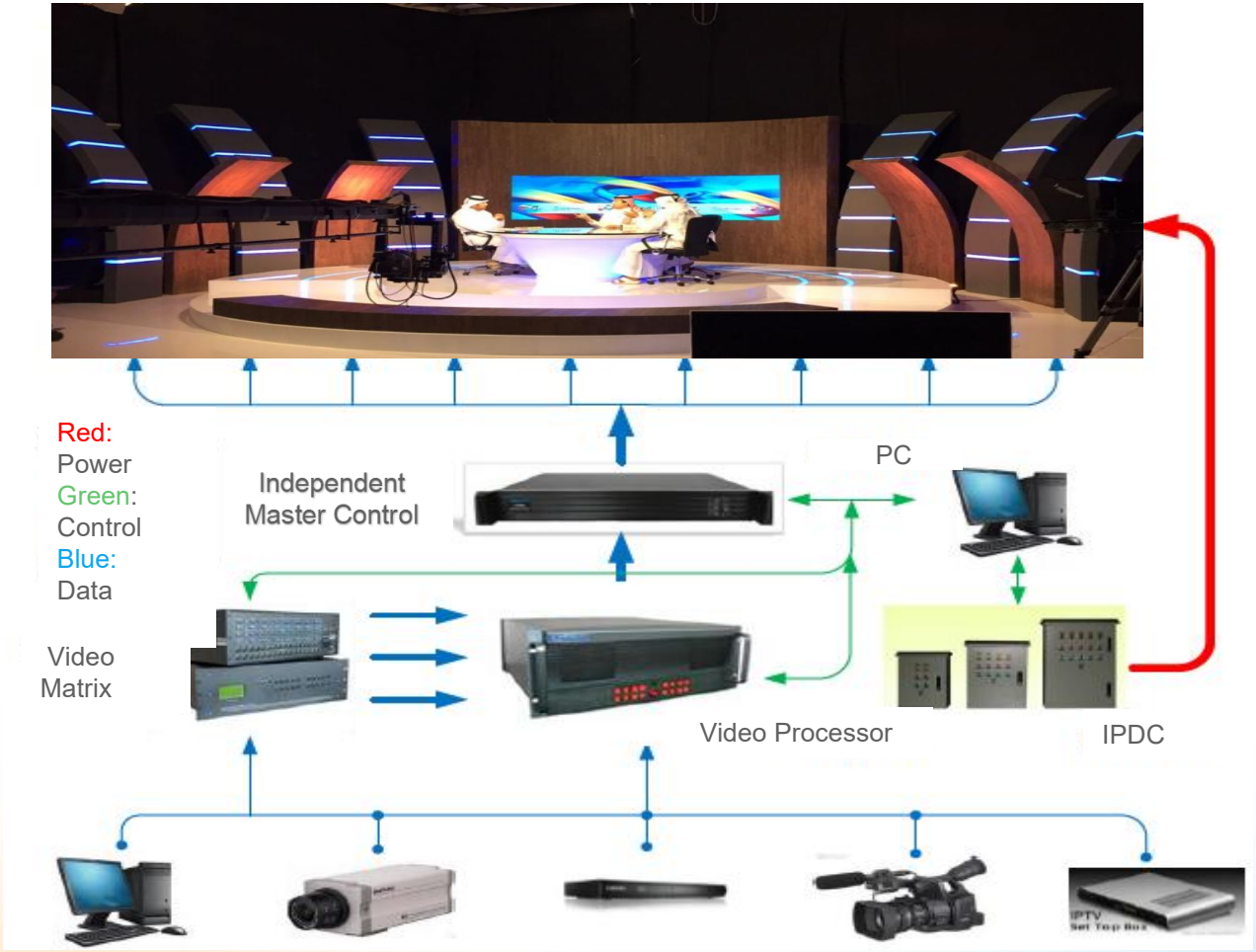
P5 Outdoor led display Cabinets

- Accurate position of the locating dowel makes the surface between cabinets flat;
- Made through CNC,Assembly accuracy 0.1mm,Seamless Assembly;
- No granular spots and mosiac on the screen, High-degree of color coordinates;
- large viewing angle,Soft image,High resolution;
- Easy to assemble and detach the cabinets;
- Working Noise: Less than 40DB,Have no influence on the viewing effect;
- SMD2727 led,Ultra-low decay,Weather resistance；
- High contrast ratio up to 5000:1;
- SMD full color led chip

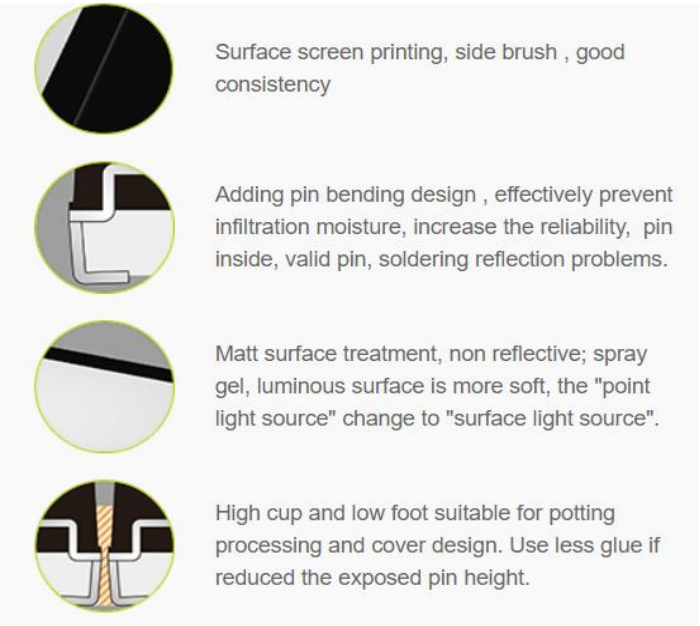
P5 Outdoor led display SPECIFICATIONS

Technical Parameter			
Pixel Pitch(mm)	5	**Drive Type**	1/8
Pixel Configuration	SMD 3in1	**Gray scale(bit) :**	**Adjustment 4096Grade/each**
Pixel Density (pixels/m²)	40000dots/m2	**Refresh Rate**	1920HZ
Cabinet Dimention	2240mm*1280mm	**Data Transmission**	CAT 5/ Optic Fiber
Cabinet Resolution	448*256	**Image Source**	S-Video,PAL/NTSC
Module Dimention	320mm*160mm	**Format**	VideoCompatibilityDVI, VGA,composite
Module Resolution	64*32	**Control System**	Nova
Viewing Angle(H/V)	140/140	**Lifetime**	100000Hrs
Viewing Distance(m)	5-150M	**MTBF**	5000Hrs
Brightness	6500cd/m2	**IP Rate**	IP65
Avg Power Consumption	400w/m²	**Working Voltage**	AC100~240 50/60Hz
Max Power Comsuption	1100w/m²	**Working Temperature**	-20° C-65° C
Working Humidity	10%-95%	**cabinet weight**	175KG

P5 Outdoor led display



Nation-star SMD2727



Product features :

① Waterproof IPX8, improve outdoor waterproof and dust-proof performance. (Quoted standard: IEC-60529 International Electrical Commission)

② （MSL1）Product muggy sensitive level: Grade one，Our product classified as the “Muggy insensitive element”，no need moisture proof package and dehumidify before SMT.(Quoted standard: IPC/JEDEC J-STD-020D.1 Joint industrial standard)

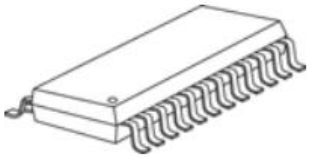
③ Product pass the thermal shock test, the CIE between the materials excellent match, apply to any outdoor conditions. (Stress Test Qualification For Automotive Grade Discrete Semiconductors: AEC-Q101)

MBI5124

Features

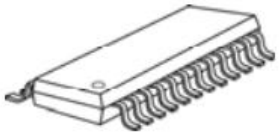
- 16 constant-current output channels
- Constant output current invariant to load voltage change:
  Constant output current range:
  1-25mA@V_{DD}=5V;
  1-10mA@V_{DD}=3.3V
- Excellent output current accuracy:
  between channels: ±1.5% (typ.) and ±2.5% (max.)
  between ICs: ±1.5% (typ.) and ±3% (max.)
- Output current adjusted through an external resistor
- Fast response of output current, $\overline{OE}$ (min.): 50ns with good uniformity between output channels
- Integrating ghosting elimination
- Staggered delay of output
- 25MHz clock frequency
- Schmitt trigger input
- 3.3V/ 5V supply voltage
- "Pb-free & Green" Package

Small Outline Package



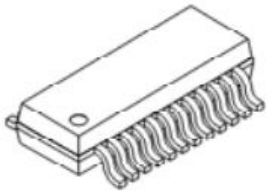
GF: SOP24L-300-1.00

Shrink SOP



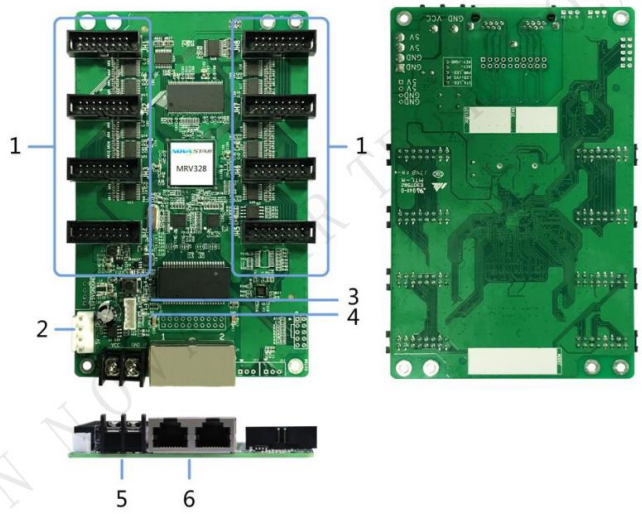
GP: SSOP24L-150-0.64

Mini SOP



GM: mSSOP24L-100-0.5

P5 Accessories-Receiving Card Nova MRV328



The MRV328 is a new receiving card developed by NovaStar. A single MRV328 loads up to 256x256 pixels.

The MRV328 supports pixel level brightness and chroma calibration, which effectively removes color difference, greatly improves display consistency of LED images, and presents finer displays to users.

Software and hardware designs of the MRV328 have fully concerned users'deployment, operating and maintenance scenarios, enabling easier deployment,more stable operating and more efficient maintenance.

Hardware design:

Integrates 8 standard HUB75 connectors, which makes the HUB board unnecessary.

Adopts the Gigabit Ethernet port, which can connect to the PC.

Software design:

Supports pixel level brightness and chroma calibration.

Supports setting of images pre-stored in the receiving card.

Supports status detection of temperature, voltage, Ethernet cable communication and video source signals.

Supports the 5-pin LCD module.

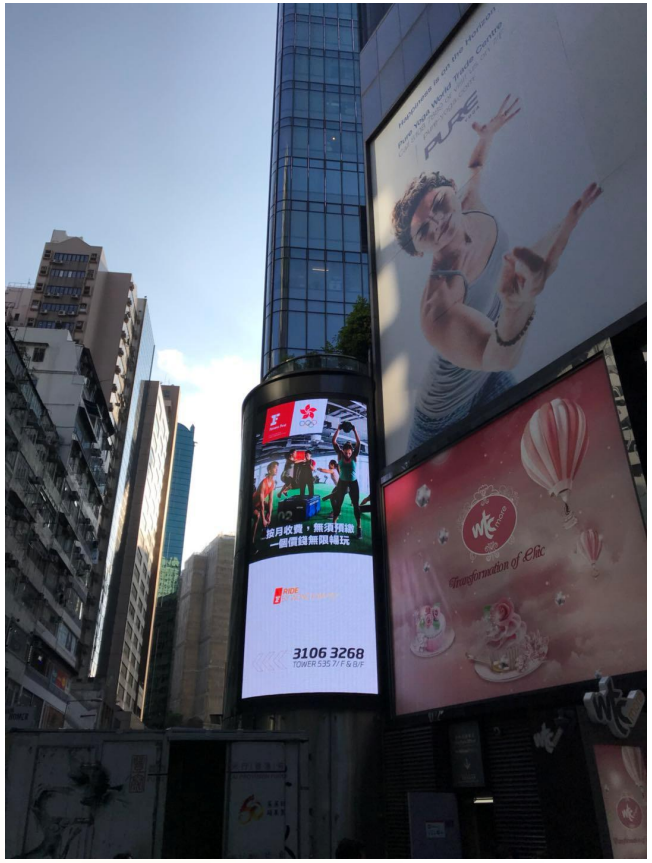
P5 Successful project made by VIVISOMA

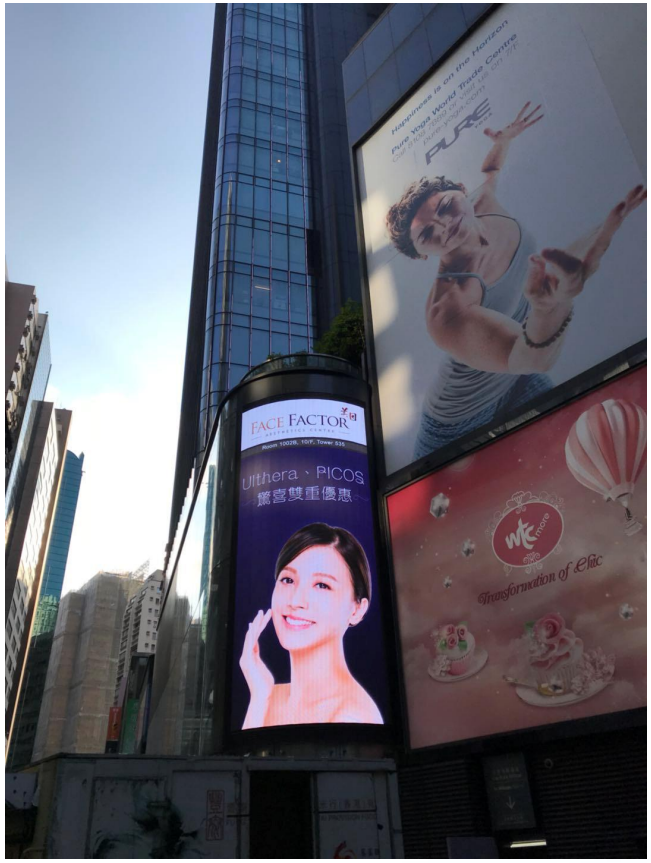
Project Name: VIVISOMA LED stadium display used in Cricket field fence screen project in Dhaka.
Application Environment: led stadium display, outdoor led advertising display, rental led screen, field fence screen
Product Name: Outdoor P10
Pixel Pitch: 10mm
Screen Size: 409Sqm
Installation Address: Dhaka
Installation Time: Oct,2017

P5 Successful project made by VIVISOMA

Project Name: VIVISOMA LED Board outdoor P8
Application Environment: outdoor led advertising display
Product Name: Outdoor P8
Pixel Pitch: 8mm
Screen Size: 175Sqm
Installation Address: SHANXI CITY
Installation Time: Apr,2018

P5 Successful project made by VIVISOMA



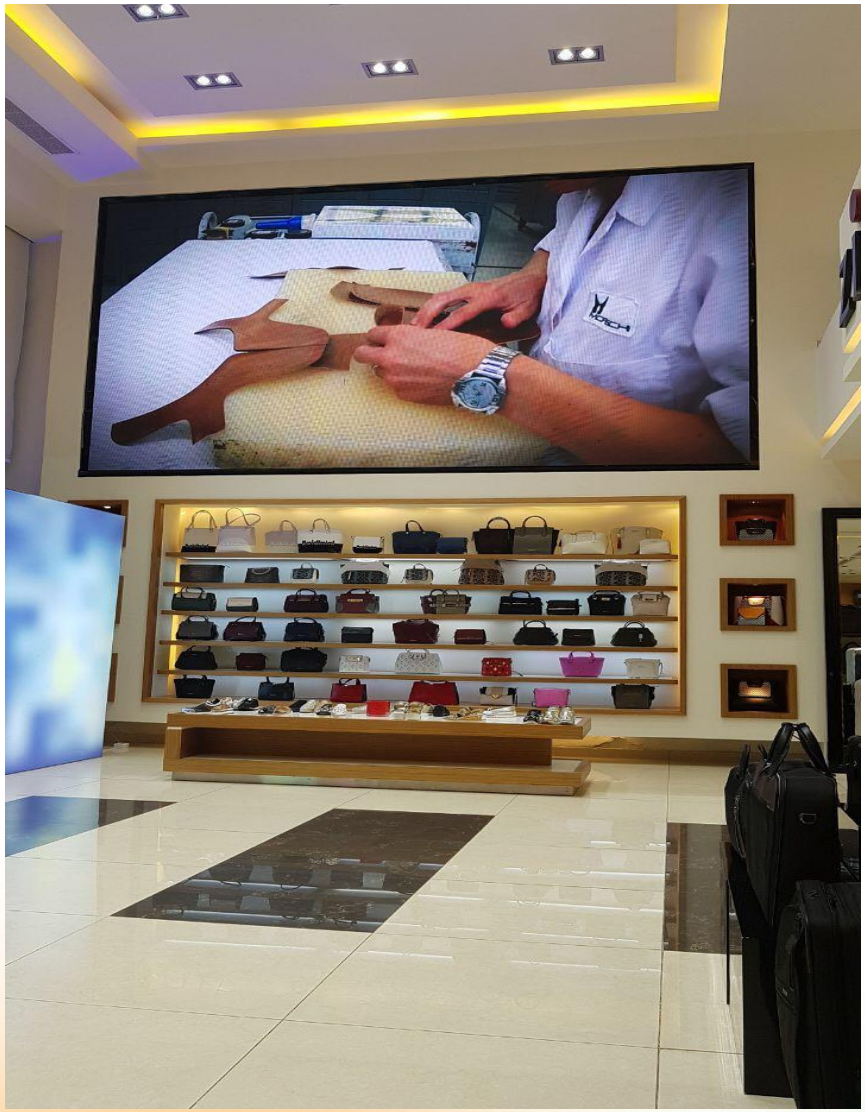


Project Name: VIVISOMA LED Board outdoor P8
Application Environment: outdoor led advertising display
Product Name: Outdoor P8
Pixel Pitch: 8mm
Screen Size: 150Sqm
Installation Address: HONGKONG
Installation Time: June,2018

P5 Successful project made by VIVISOMA

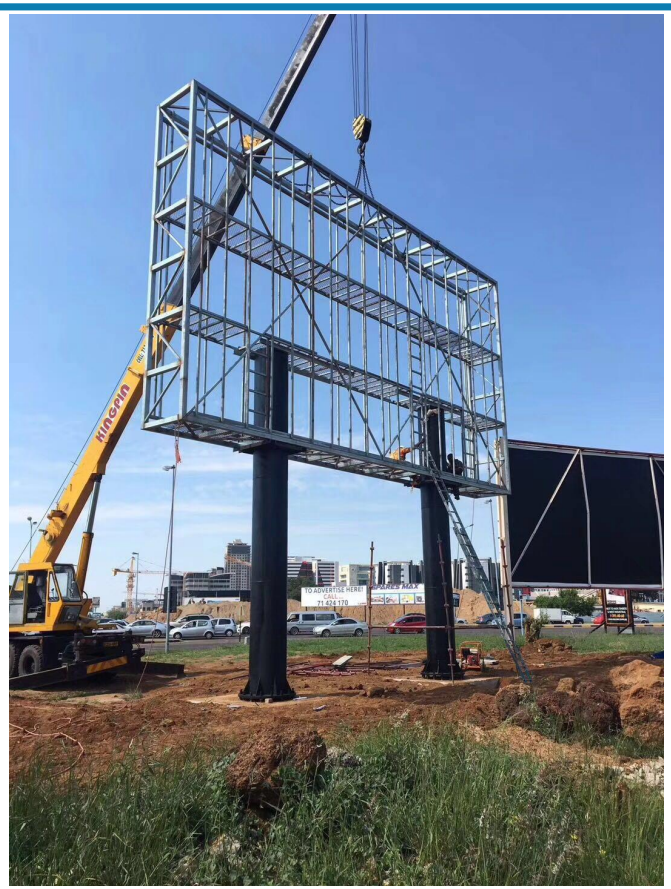
2016.5 Saudi Arabia National TV station
36 SQM of indoor P2.5 for background of studio.

P5 Successful project made by VIVISOMA



Project Name: VIVISOMA LED Board indoor p3.91
Application Environment: indoor led advertising display
Product Name: indoor p3.91
Pixel Pitch: 3.91mm
Screen Size: 30Sqm
Installation Address: SAUDI ARABIA
Installation Time: June,2017

P5 Successful project made by VIVISOMA



2017.6 USA
120SQM of outdoor P10 for a high-speed way
Advertising board in Texas

P5 Successful project made by VIVISOMA

2018.2.Qatar TV station
100SQM of indoor p2.5 for studio of TV station

Thank you!

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