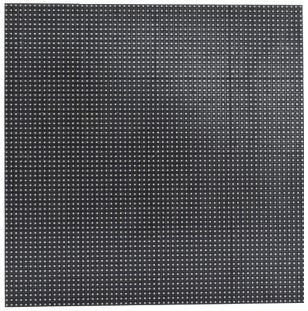
P3.91 Outdoor Rental LED Display Solution by VIVISOAM

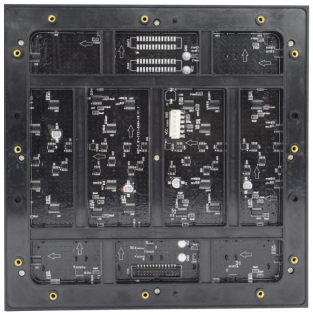
Design for structure

Control system solutions

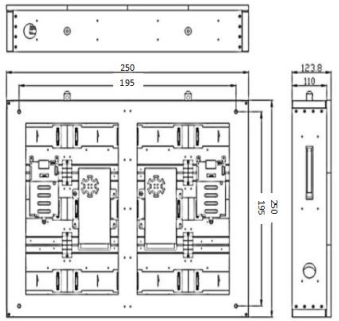
Assembly solutions

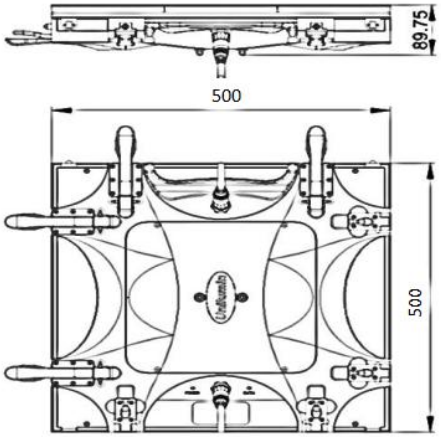
P3.91 Rental LED Display Solutions





P3.91 module





High Stability

Seamless Splicing

Energy Saving

High Refresh Rate

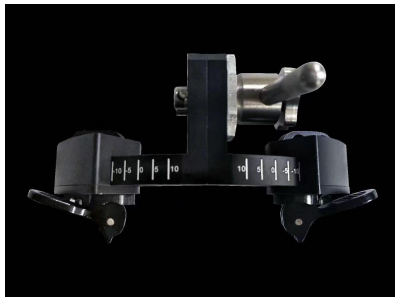
Large Gray Scale

Slim cabinet

High Density

P3.91 cabinet sketch

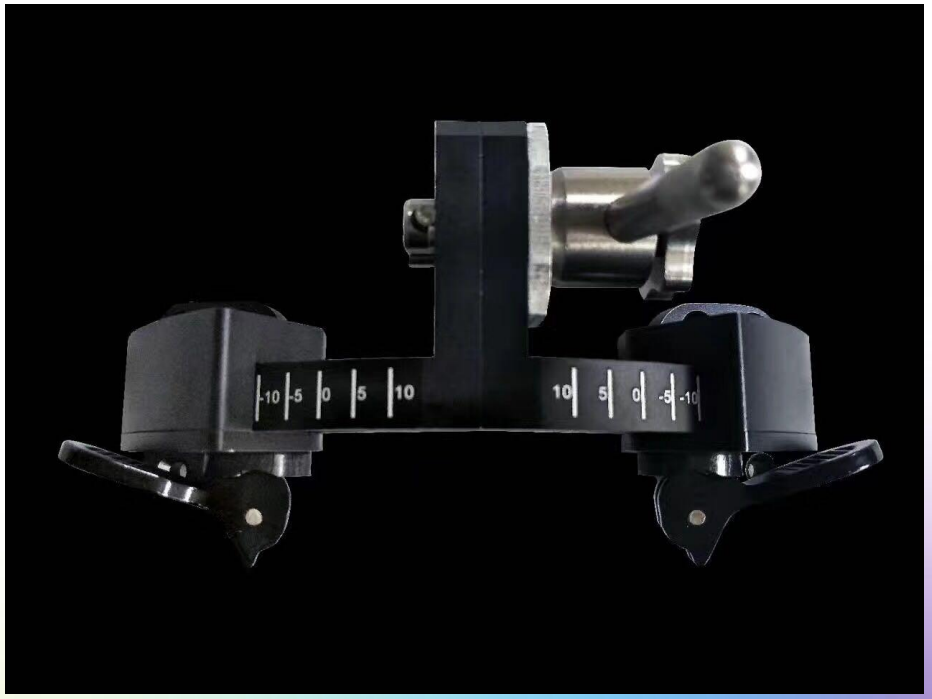
P3.91 SPECIFICATIONS



- 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;
- Clearer and vivider piture,Seamless,No chromatic;
- large viewing angle,Soft image,High resolution;
- Multi-layer circuit PCB,Lower consumption,Fast Heat-emmiting,Longlife,High stability.

P3.91 SPECIFICATIONS

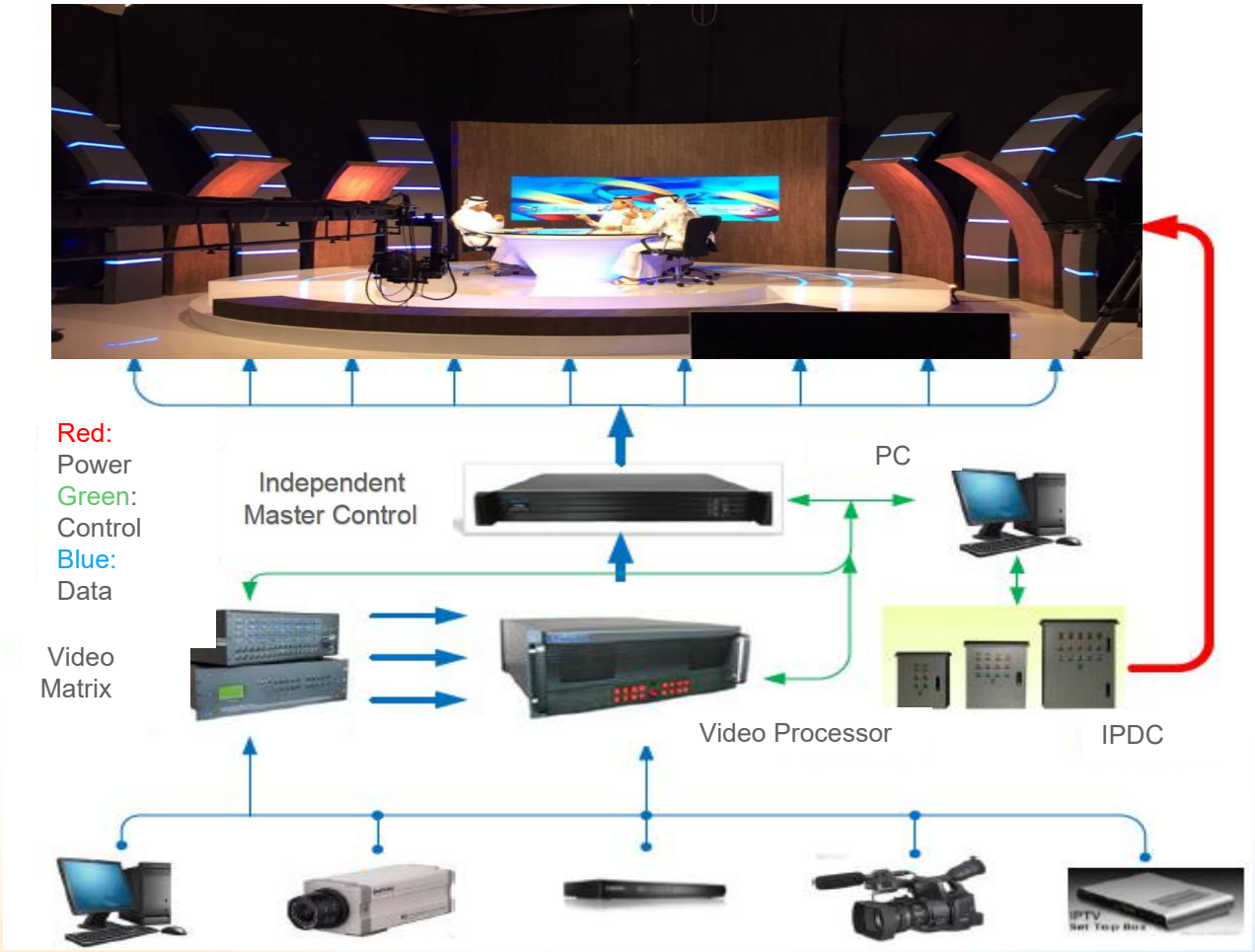
- Die-casting Aluminum Cabinet,Lighter and Slimmer,High accuracy;
- ±10 degree adjustable
- Easy to assemble and detach the cabinets;
- Working Noise: Less than 40DB,Have no influence on the viewing effect;
- SMD1921 led,Ultra-low decay,Weather resistance;
- High contrast ratio up to 5000:1;
- SMD full color led chip



P3.91 SPECIFICATIONS

Technical Parameter			
Pixel Pitch(mm)	3.91	**Drive Type**	1/16
Pixel Configuration	SMD 3in1	**Color Processing**	16.7
Pixel Density (pixels/m²)	65411dots/m2	**Refresh Rate**	Max 1920HZ
Cabinet Dimention	500mm*500mm	**Data Transmission**	CAT 5/ Optic Fiber
Cabinet Resolution	128*128	**Image Source**	S-Video,PAL/NTSC
Module Dimention	250mm*250mm	**Format**	VideoCompatibilityDVI, VGA,composite
Module Resolution	64*64	**Control System**	Nova/Linsn/Mooncell/Xixun
Viewing Angle(H/V)	140/140	**Lifetime**	100000Hrs
Viewing Distance(m)	3-100M	**MTBF**	5000Hrs
Brightness	5500cd/m2	**IP Rate**	IP65
Avg Power Consumption	200 w/m²	**Working Voltage**	AC100~240 50/60Hz
Max Power Comsuption	400 w/m²	**Working Temperature**	-20°C-65°C
Working Humidity	10%-95%	**cabinet weight**	7.5kg

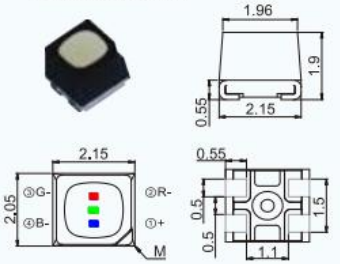
P3.91 control system solutions



P3.91 LED CHIP

- Kinglight SMD1921

FM-Z1921RGBA-SH
2.15×2.05×1.9



Color	IF(mA) TEST	λD(nm) Typ.	IV (mcd) Typ.	VF (V) Typ.	View angle (deg.)
	15	622	450	2.0	110
	8	522	730	3.0	
	5	472	105	3.0	

P3.91 IC

- Chipone ICN2037 IC

Description

The ICN2037 is a 16-channel constant current sink output LED driver. All 16-channels constant current can be set by a single external resistor, which provides users flexibility in controlling the light intensity of LEDs.

The ICN2037 exploits current precision controlling technology，which makes error between ICs less than ±2.5%, and error between channels less than ±3.0%.

At ICN2037 output stage，16-regulated output ports are designed to provide uniform and constant current sinks for driving LEDs within a large range of forward voltage(VF) variations.

ICN2037 contains two 16-bit shift registers and latches which convert serial input data into parallel output format. For integrated dual latch, ICN2037 could get higher refresh rate.

Features

- 16-channel constant current output
- Output current setting range:

3~45mA×16@VDD=5V constant current output

3~30mA×16@VDD=3.3Vconstant current output

- Current accuracy

Between channel :< ±3.0%

Between ICs :< ± 2.5%

- Fast response of output current,
- ESD HBM PASS 8KV
- I/O: Schmitt trigger input
- Data transfer frequency:fMAX=30MHz(Max)
- Power supply voltage: VDD=3.3～5V
- Operating Temperature: –40°C to +85°C
- Pre-Charge for Ghosting Reduction
- LED Protection
- Enhanced Circuit for Caterpillar Cancelling
- Low-Gray Scale Enhancement
- Integrated Dual Latch for higher refresh rate

Shrink SOP

AP: SSOP24-P-150-0.635

P3.91 Accessories-Power supply

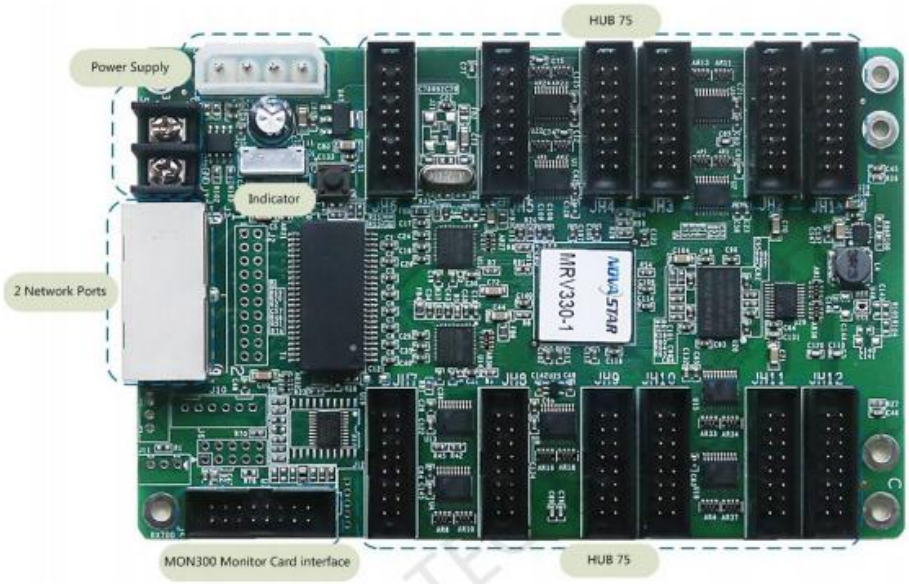
G-Energy N200V5-A

Input 200-240V 2.5AMax 47-63hz

Output：5V 40A

P3.91 Accessories-Receiving Card Nova MRV Series

1) Integrated 12 standard HUB75 connectors and without the HUB
structure;
2) Single card outputs 24-group of RGB data;



3) Single card supports resolution of 256x226;
4) Configuration file readback;
5) Temperature monitoring;
6) Ethernet cable communication status detection;
7) Power supply voltage detection;
8) High gray scale and high refresh rate;
9) Pixel-by-pixel brightness and chromaticity calibration. Brightness and chromaticity calibration coefficients for each LED;
10) Pre-store picture setting;
11) Monitor card connection;
12) Comply with EU RoHs standard;
13) Comply with EU CE-EMC standard.

P3.91 Nova Sending Card

Taurus Series Multimedia Player TB6
Loading Capacity： 1,300,000 pixels
Processing Capacity： 8 core processor，2 GB operating memory+8 GB internal storage space
Wi-Fi： √(Dual Wifi)
3G、4G： √(Optional)
Redundant Backup： √
Switching on/off of synchronous display： √

P3.91 Accessories-VDWALL VIDEO PROCESSOR

1. 10+ Bit Faroudja® DCDI Cinema Processing
2. New Faroudja® Real Color®
3. Faroudja® TureLife™ Video Enhancer
4. Advanced 4x4 Pixels Interpolation Scaling Algorithm
5. HDMI 1.3a with HDCP, HD 1080P input
6. SDI / HD-SDI / 3G-SDI (1080P) Input
7. 10-bit Processing
8. Seamless Switching, Fade-in / Fade-out switching & Blend switching in random input signals
9. HD Text, Flash, Graphics & Logo Overlay
10. 4 custom PIP / POP display modes, which can be switched by pressing one button
11. Hot Spare function, display will be stable and reliable
12. Picture Freeze function
13. AIAO(Any In Any Out) function allows for displaying any capturing picture in specific area on the screen
14. 2304 x 1152 or 2560 x 816 output for single machine
15. Multi-machine in parallel, multi-unit installed in parallel drive indefinite LED lattice
16. Easy setup and adjustment through knob and keys on the panel. Full design RS232 command for operating and setting

P3.91 led display for rental business

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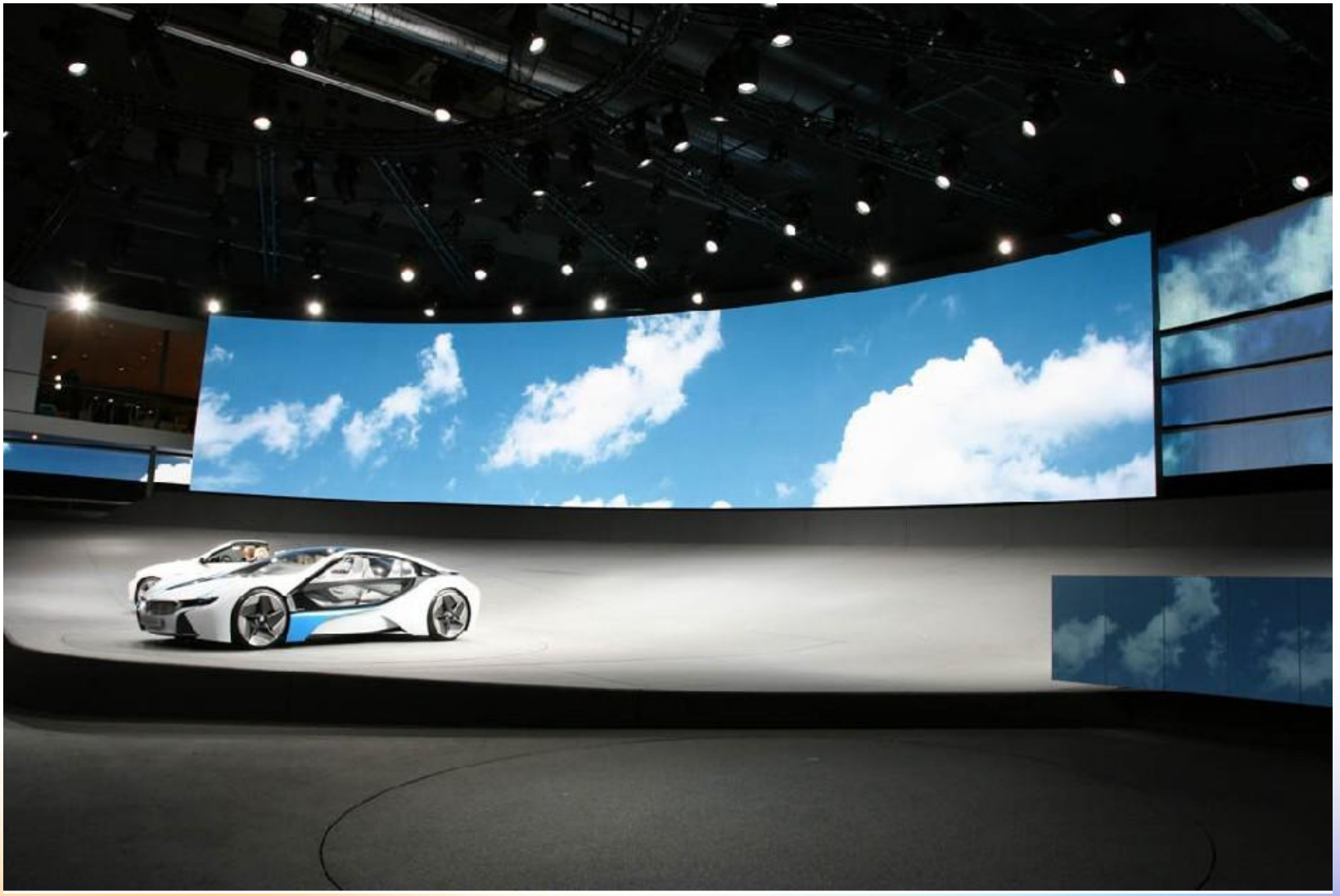

P3.91 led dislay for rental business

Thank you!
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