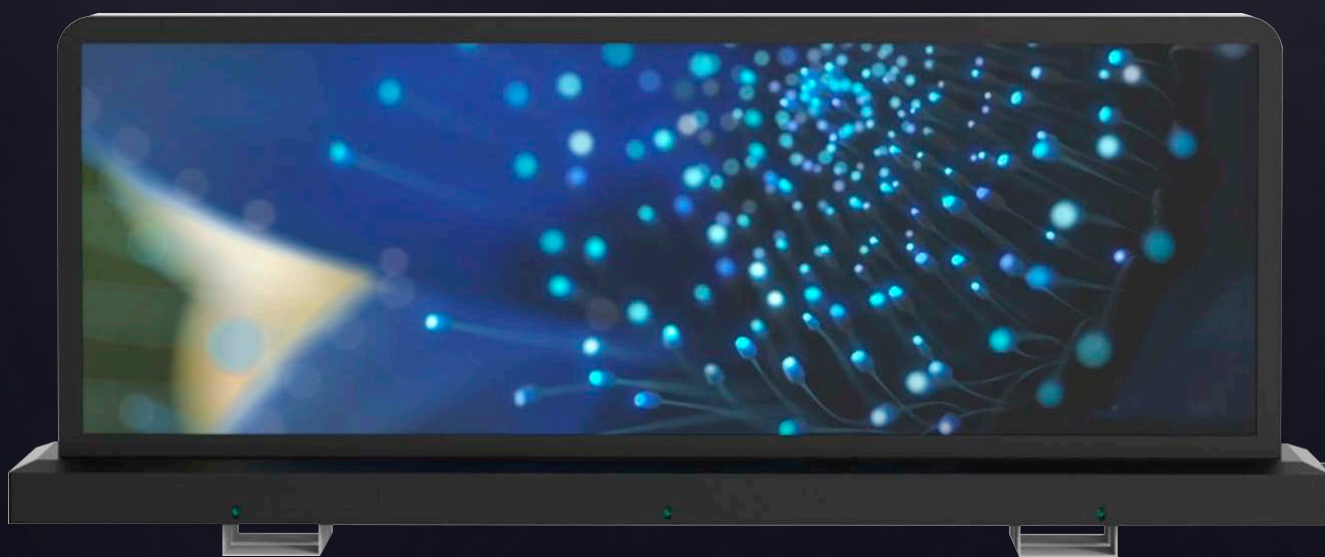
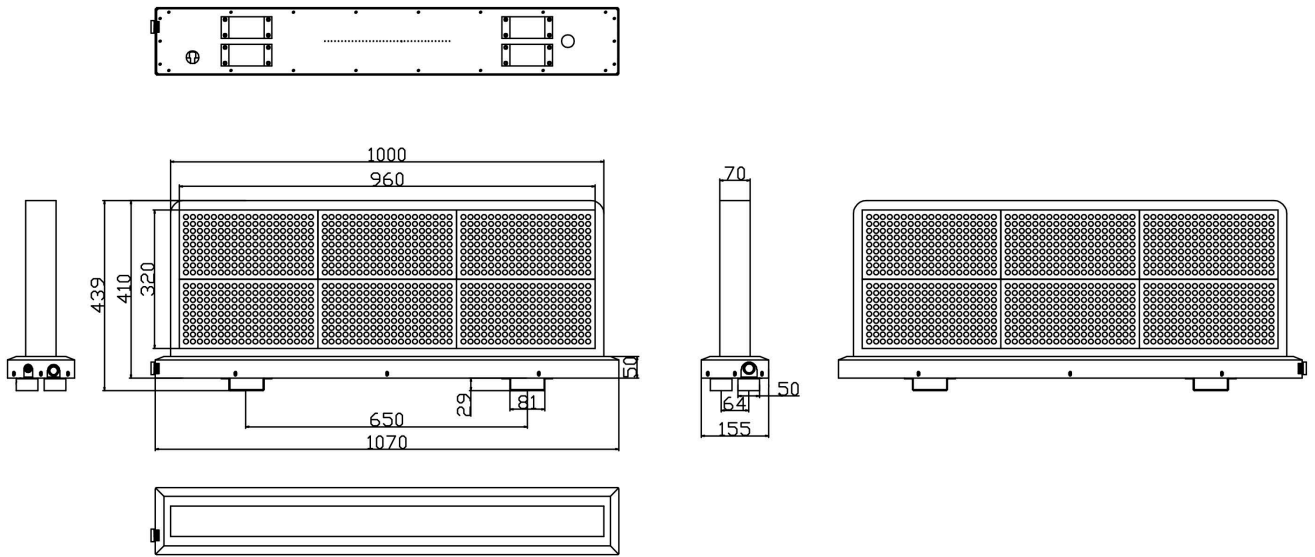


Рекламный экран Vormatic CAR LED Display

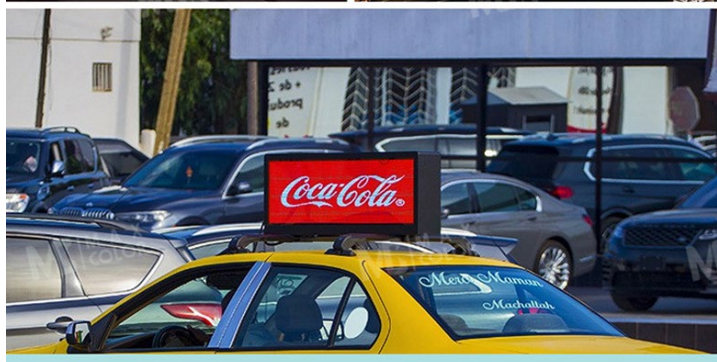


vormatic[®]
electronics



1. Module introduction




structural representation			
<p>1R1G1B → SMD1921</p>		<p>Structure description: Each pixel uses 1 red 1 green 1 blue 3 LED light tube.</p>	
Module size (W×H)	320mm×160mm	resolution ratio (W×H)	104dot × 52dot
Pixel pitch (mm)	3.076mm	Pixel	105625 dot/m²



2. Cabinet size

Double sided housing size (W×H×H)	439mm×1070mm×155mm	Number of modules	3*2 (pcs) single face
Screen resolution	312dot (W) * 104dot (H)	Real pixel count	32448 dot
weight (kg/set)	22kg	area (m ²) two-sided	0.6144 m ²
average power rating (W/m ²)	450W/m ²	Rated maximum power (W/m ²)	650W/m ²

3. Core parameter

NO.	name	Chip brand	Core type	wave length	LED lifespan	quantity
1		Rayshine	SMD-1921	622.5±2.5nm	100000H	1pcs
2		Rayshine	SMD-1921	522.5±2.5nm	100000H	1pcs
3		Rayshine	SMD-1921	467.5±2.5nm	100000H	1pcs

critical material			
① LED			
No	item		Brand and model
1	RED	Chip brand	Rayshine 1921
2	GREEN	Chip brand	Rayshine 1921
3	BLUE	Chip brand	Rayshine 1921
② switching power supply			
1	conversion efficiency	Use synchronous rectification technology to ensure: Ac/DC conversion efficiency $\geq 86\%$ (output 60A)	
2	power factor	Use active compensation technology to ensure: power factor ≥ 0.98	
3	dynamic loading characteristics	When the output current varies from 0 to 60A, ensure that the output voltage changes $\leq \pm 5\%$	
4	electromagnetic compatibility	Conforms to EN55022 ClassB(or GB9254-2008) standard	
5	Aluminum electrolytic capacitor brand	①Rubycon、②N.C.C、③Nichicon	
6	MOS tube brand	①Ixys、②ST、③Fairchild	
③ Module base and mask			The module base and mask are made of flame retardant PC raw material (flame retardant grade V0), and the flame retardant grade test report presented by the authority is provided.
④ driver chip			LED Display dedicated constant current driver chip.
key technology			
1	High-efficiency energy-saving technology	Maximum power consumption $\leq 0.8KW/m^2$ Average power consumption: $\leq 0.32KW/m^2$ (low heat, high reliability, long life);	
2	data transmission	Dual-wire hot spare technology is adopted to ensure the reliability of data transmission. Star connection is adopted between the control board and the module in the screen body (serial connection is rejected) to prevent the failure of one connector, causing a series of module chain failures.	
3	Modular level point by point correction technology	Point-by-point brightness correction function ensures: brightness uniformity between pixels $\leq 5\%$, brightness uniformity between modules $\leq 5\%$. Each module has a CPU and memory, and the correction data is stored in the module.	

		d the intelligent processing is uniform through the CPU in the module. Ensure at modules can be replaced quickly and easily.
4	Color reproduction	Using color space transformation technology, the coordinates of red, green and blue are adjusted to improve the color reproduction degree of the pattern.
5	LED downward inclination angle	In order to increase brightness, increase down Angle of view, improve uniformity, save energy, and extend life, LED can do 3 to 8° down Angle.

the key technical indexes

No	Item	parameter
1	Pixel pitch	3.076 mm
2	pixel density	105625 dot/m ²
3	Modular pixel resolution	104 dots (W) × 52 dots (H)
4	Module size	320mm (W) × 160mm (H)
5	Display area	960 mm (W) × 320mm (H)
6	display resolution	312dot (W) × 104dot (H) = 32448dot
7	Number of modules	3 pieces (W) × 2 pieces (H)
8	Visual distance	3m~10m
9	power supply	Baina car power supply with certification
10	Driving IC	ICN 16380
11	high-light brightness	≥5500cd/m ² (white balance)
12	angle of view	level: 160° /vertical: 120°
13	refresh rate	3840HZ/S

15	display colour	68.7 billion color
16	Frame change rate	≥60Hz
17	color temperature	3200K~10000K (adjustable)
18	drive mode	Constant Current Driving
19	Working environment requirement	-25°C~+50°C, 10%~98%RH
20	Cabinet material	Aluminum alloy and sheet metal Cabinet
21	Cabinet weight	22KG/m ²
22	maximum power	650W
23	average power	450W
24	level of protection	IP65
25	conservation technology	Anti-static, short circuit, moisture-proof, dustproof, anti-corrosion, anti-electromagnetic interference, At the same time, the electric apparatus has over current, over voltage, under voltage, open circuit, over temperature protection