

LED TRAFFIC PRODUCTS

Interactive Outdoor Digital Information System Expert

EN12966, ETL, CETL Certified

CHAINZONE 2023-2024 **SINCE 2000** CHAINZONE TECHNOLOGY (FOSHAN) CO., LTD.

CHAINZONE TECHNOLOGY (FOSHAN) CO., LTD.



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COMPANY

Established in 2000, Chainzone Technology (Foshan) Co., Ltd. (short as "Chainzone" in below) is specializes in providing digital information interaction products and services globally. Chainzone has served numerous world-served numerous globally leading projects in more than 120 countries and regions, which include the Hong Kong-Zhuhai-Macao Bridge (HZMB) and the Norway Sub-sea Tunnel project.

Chainzone is mainly engaged in intelligent traffic and intelligent display.

In the field of intelligent traffic, Chainzone has independently developed a variety of cloud-edge-terminal-collaboration-based products, enabling its business to cover road construction, operation, development and the whole traffic ecology. Starting from planning, Chainzone actively participates in road construction, traffic optimization and road digitalization.

In the field of intelligent display, Chainzone has developed multiple solutions for different application scenarios, covering both indoor and outdoor use. Based on customer requirements, Chainzone continuously expands its competitive advantages in visual presentation and system control.

Over the years, thanks to excellent product quality, Chainzone has won the trust of both domestic and foreign customers, and has been awarded many honorary titles such as "National High-tech Enterprise", "Guangdong Province Export Famous Brand Enterprise", etc.

Chainzone owns two brands, "ChainZONE" and "iMPOSA", which are registered in more than 30 countries and regions including the United States, the United Kingdom, etc.

Better Way of Smart Mobility









ITL

n. lace



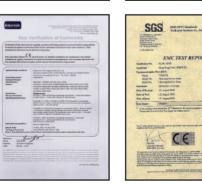




Later CE





















EN12966 L Series VMS



Application

The variable message sign is a useful medium to alert motorway users when there are abrupt changes in traffic patterns, road conditions, emergencies, or special events. The application of VMS on road can improve traffic flow while ensuring the safety of drivers and passengers. Variable message signs are ultra-bright and highly legible, with a variety of functions for many applications: lane closure, highway construction, work zone, parking lot guidance,

A combination of different colors and sizes makes these signs extremely efficient in conveying safety messages to road users.

Feature

- The embedded system can perform constant diagnosis and report any abnormal status to the central system
- The VMS can be monitored by our proprietary central management system
- ChainSpot® which is developed independently by Chainzone's R&D team
- The excellent LED optical system meets EN12966 standards and provides the highest optical performance
- The LED light can be precisely projected to the road surface
- A wide range of pixel pitch options from 12mm to 31.25mm, adaptable to any application
- SMD LED technology, better color mixture and uniformity
- Modular design for easy maintenance
- Integrated light sensor for automatic control
- The integrated sensor can monitor cabinet temperature
- Easily programmed and more advanced functions for users' options

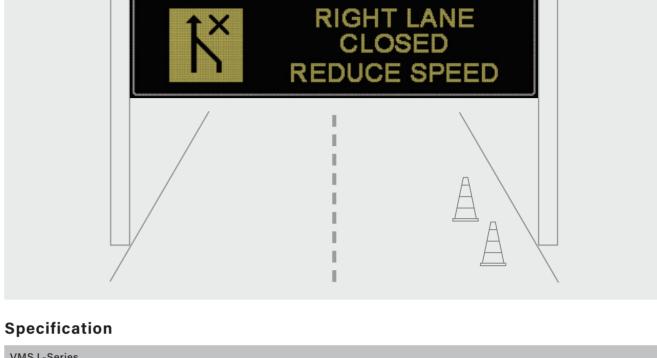












VMS L-Series			
Model	VMS20L-RGB	VMS25L-RGB	VMS31.25L-RGB
Pixel Pitch (mm)	20	25	31.25
Module Resolution (pixels)	8×16	8×16	8×8
Size of Module (mm) (H×W)	160×320	200×400	250×250
Optical Characteristics			
Conformity	Compliant with EN12966 Standards L3	/ L3*, R3, C2, B1, B2, B3, B4, B5, B6	
Luminance	Red > 3100 cd/m ² Green > 3720 cd/r	m ² Yellow> 7440 cd/m ² White > 1	2400 cd/m ²
Luminance Ratio	R3		
Color	C2		
Beam Width	B1, B2, B3, B4, B5, B6		
Brightness Control	100 Levels		
Physical Characteristics			
Enclosure Material	Aluminum		
Enclosure Surface	Powder Coated, Matte Black (Other Cold	ors Available)	
Working Temperature (°C)	T1 (-15°C to +60°C); T2 (-25°C to +55°C)	; T3 (-40°C to +40°C)	
Humidity Range	RH<95%		
Pollution	D3		
Mechanical Protection	P1 (IP44), P2 (IP54), P3 (IP56), IP65, IP66	ô	
Maintenance	Back Maintenance		
Electrical Specifications			
Power Supply	AC: 90-260V (50 / 60Hz)		
Solar Power System	DC12V / 24V		
Communication	RS232 / RS485 / Ethernet Via RJ45 / GF	PRS / 3G / 4G / Optic Fiber	
Protocol	NTCIP 1203 / MODBUS / UTMC / XML /	JETFILE II / Profibus / RSMP	
EMC / FCC Certification	Compliant with EN50293; FCC Part 15B:	2017; ICES-003:2016	
Certification	EN12966, ETL, CETL		





Feature

- SMD LED technology, better color mixture and uniformity
- Modular design for easy maintenance
- Integrated sensors for temperature and brightness detection
- Chainzone's patented ball-shaped lens composition
- Lightray reflection is greatly reduced is greatly reduced, ensuring high contrast ratio and delivering more clear images. Comprehensive color management technology, excellent display
- The embedded system can perform constant diagnosis and report errors to the central system.
- The VMS can be monitored by the central management system *Chain*Spot® which is developed independently by Chainzone's R&D team

Image control

High luminance ratio of LED modules

Chainzone's modular design with ball-shaped optical lens achieves higher Luminance Ratio by reducing sunlight reflection and increasing luminance output. Thus, VMS can reach L3 & R3 class at very low power consumption.

· Unique rear design-fast and better heat dissipation in VMS

The heat generated by electronic components on the circuit boards is dissipated to open air directly.

Extraordinary thermo-stability and environment-adaptability. High IP Level.





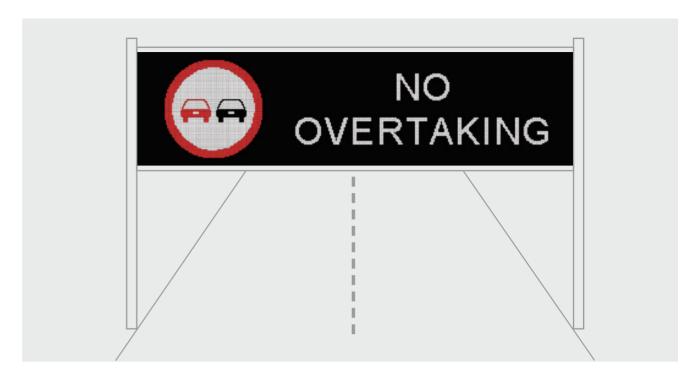












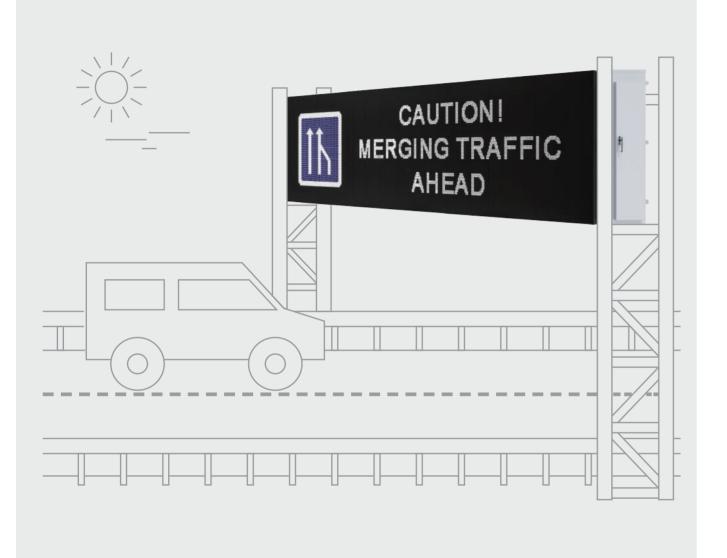
Specification

Certification

Specification											
VMS M-Series											
Model	VMS10M-RGB		VMS12M-RGB	VMS16M-RGB	VMS20M-RGB						
Pixel Pitch (mm)	10		12	16	20						
Module Resolution (pixels)	12×24	16×32(*)	8×16(B7)	8×16(*)(B7)	8×16(B6)						
Size of Module (mm) (H×W)	120×240	160×320	96×192	128×256	160×320						
Optical Characteristics											
Conformity	Conformity Compliant with EN12966 Standards L3 / L3*, R3, C2, B1, B2, B3, B4, B5, B6, B7										
Luminance	Red > 3100 cd/r	m ² Green > 3	720 cd/m ² Yellow> 7440 cd	d/m² White > 12400 cd/m	2						
Luminance Ratio	R3										
Color	C2	22									
Beam Width	B1, B2, B3, B4, E	B1, B2, B3, B4, B5, B6, B7									
Brightness Control	100 Levels										
Physical Characteristics											
Enclosure Material	Aluminum										
Enclosure Surface	Powder Coated,	Matte Black (Ot	her colors Available)								
Working Temperature (°C)	T1 (-15°C to +60	°C); T2 (-25°C to	+55°C); T3 (-40°C to +40°C)								
Humidity Range	RH<95%										
Pollution	D3										
Mechanical Protection	P1 (IP44), P2 (IP	54), P3 (IP56), IF	P65, IP66								
Maintenance	Back Maintenan	се									
Electrical Specifications											
Power Supply	AC: 90-260V (50	0 / 60Hz)									
Solar Power System	DC12V / 24V										
Communication	RS232 / RS485	/ Ethernet Via R	J45 / GPRS / 3G / 4G / Optic I	Fiber							
Protocol	NTCIP 1203 / M	ODBUS / UTMC	/ XML / JETFILE II / Profibus	/ RSMP							
EMC / FCC Certification	Compliant with	EN50293; FCC F	Part 15B:2017; ICES-003:2016								

EN12966, ETL, CETL

Walk-in VMS



Application

To provide safe maintenance and reliable operation, Chainzone's walk-in VMS is equipped with modern cabinet design, intelligent features and extraordinary strength. The excellent LED optical system is compliant with EN12966 standard and has the highest optical performance. Full matrix configuration in amber or full-color LEDs from 20 to 31 mm pixel spacing is available.

Feature

- Convenient access for maintenance personnel
- Open workspace and organized components facilitate maintenance operation
- Tough aluminum mask for superior contrast and minimal glare
- Positive-pressure, forced-air ventilation system for VMS longevity











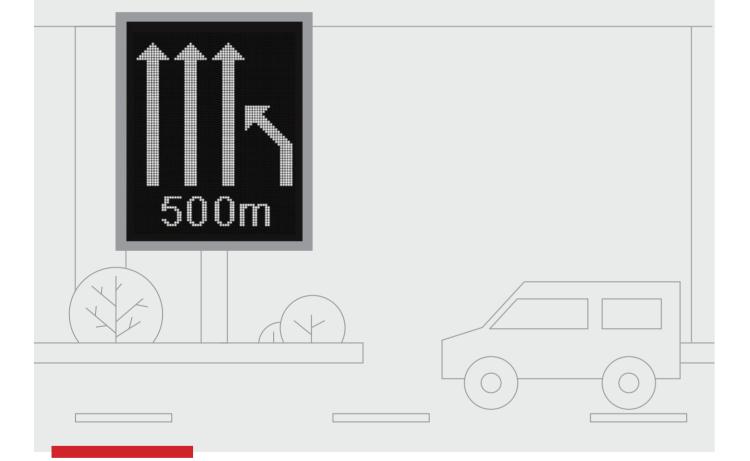




Walk-in VMS		
Model	VMS20L-RGB	VMS25L-RGB
Pixel Pitch (mm)	20	25
Module Resolution (pixels)	8×16	8×16
Size of Module (mm) (H×W)	160×320	200×400
Optical Characteristics		
Conformity	Compliant with EN12966 Standards L3 / L3*, R3, C2, B1, B2, B	3, B4, B5, B6, B7
Luminance	Red > 3100 cd/m ² Green > 3720 cd/m ² Yellow> 7440 cd	d/m ² White > 12400 cd/m ²
Luminance Ratio	R3 (White:16.7) (Yellow:10) (Orange:6.5) (Green:5) (Red:4.2) (B	lue:1.7)
Color	C2	
Beam Width	B1, B2, B3, B4, B5, B6, B7 (30 degree horizontal&vertical)	
Brightness Control	100Levels	
Physical Characteristics		
Enclosure Material	Aluminum + Optical lens	
Enclosure Surface	Powder Coated, Matte Black (Other Colors Available)	
Working Temperature (°C)	T1 (-15°C to +60°C); T2 (-25°C to +55°C); T3 (-40°C to +40°C)	
Humidity Range	0~99%	
Pollution	D3	
Mechanical Protection	IP54	
Maintenance	Walk-in Maintenance	
Electrical Specifications		
Power Supply	AC: 90-260V (50 / 60Hz)	
Solar Power System	USB / Battery	
Communication	RS232 / RS485 / Ethernet Via RJ45 / GPRS / 3G / 4G / Optic	Fiber
Protocol	NTCIP 1203 / MODBUS / UTMC / XML / JETFILE II / Profibus	/ RSMP
EMC / FCC Certification	Compliant with EN50293; FCC Part 15B:2017; ICES-003:2016	
Certification	EN12966, ETL, CETL	

EN12966 B Series VMS





Application

In the present time, the urban population has grown rapidly leading to further urban traffic. To deal with the problem of urban congestion, the Smart City solution has been proposed. The application of VMS in the city will effectively guide vehicle direction, reduce congestion and improve transportation effciency.

Feature

- SMD LEDs plus optical lens technology
- Modular design for easy maintenance
- Integrated sensors for temperature and brightness detection
- Wider viewing angle special for smart city solution
- Multiple VMS can be integrated into a network which can be managed by our central control system.





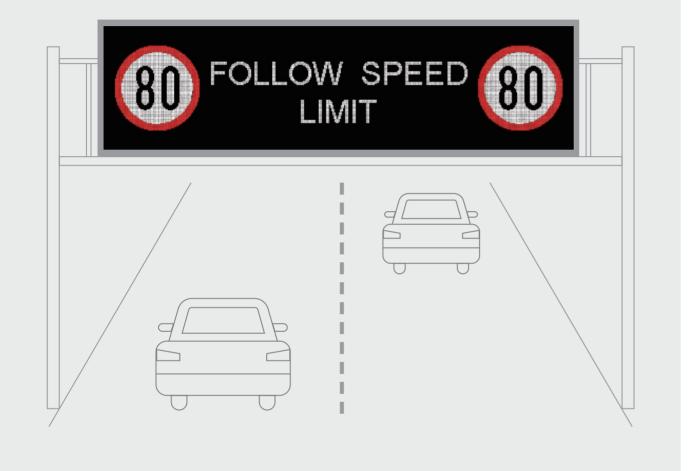








Specification	
VMS B-Series	
Model	VMS16B40-RGB
Pixel Pitch (mm)	16
Module Resolution (pixels)	12×24
Size of Module (mm) (H×W)	192×384
Optical Characteristics	
Conformity	Compliant with EN12966 Standards
Luminance	Red > 3100 cd/m ² Green > 3720 cd/m ² Yellow > 7440 cd/m ² White > 12400 cd/m ²
Luminance Ratio	R3
Color	C2
Viewing Angle	40 Degree
Brightness Control	100 Levels
Physical Characteristics	
Enclosure Material	Aluminum
Enclosure Surface	Powder Coated, Matte Black (Other Colors Available)
Working Temperature (°C)	T2 (-25°C to +55°C)
Humidity Range	RH<95%
Pollution	D3
Mechanical Protection	P2 (IP54), IP65, IP66
Maintenance	Back Maintenance
Electrical Specifications	
Power Supply	AC: 90-260V (50 / 60Hz)
Solar Power System	DC12V / 24V
Communication	RS232 / RS485 / Ethernet Via RJ45 / GPRS / 3G / 4G / Optic Fiber
Protocol	NTCIP 1203 / MODBUS / UTMC / XML / JETFILE II / Profibus / RSMP
EMC / FCC Certification	Compliant with EN50293; FCC Part 15B:2017; ICES-003:2016



Application

In some smart city projects, VMS is required to demonstrate not only pictograms but also high-resolution pictures and videos. EXL series is an ideal solution for such applications.

Feature

- Ultra light and thin
- Anti-UV & fire resistant
- High installation accuracy with aluminum profile cabinet
- High contrast ratio
- Easy front or rear service
- Wider viewing angle specially for smart city solution

















EXL								
Model	EXL-6.6-SMD	EXL-8-SMD	EXL-10-SMD	EXL-16-DIP	EXL-20-DIP			
Pixel Pitch (mm)	6.67	8	10	16	20			
Module Resolution (pixels)	48×72	40×60	32×48	20×40	16×32			
Size of Module (mm) (H×W)	320×480	320×480	320×480	320×640	320×640			
Cabinet Resolution (pixels) (Front Access)	192×216	160×180	128×144	80×120	64×96			
Size of Cabinet (mm) (H×W) (Front Access)	1280×1440×100	1280×1440×100	1280×1440×100	1280×1920×110	1280×1920×110			
Cabinet Resolution (pixels) (Back Access)	192×144	160×120	128×96	80×80	64×64			
Size of Cabinet (mm) (H×W) (Back Access)	1280×960×105	1280×960×105	1280×960×105	1280×1280×115	1280×1280×115			
Luminance	> 6000 cd/m ²							
Luminance Ratio	>6500:1							
Viewing Angle	120°/ 120°			110°/ 45°				
Brightness Control	Manual / Auto / Scheduled							
Enclosure Material	Aluminum							
Enclosure Surface	Powder Coated, Ma	tte Black (Other Colo	rs Available)					
Working Temperature (°C)	-40°C to + 70°C							
Humidity Range	RH<95%							
Grey Level	16 Bit							
Frame Frequency (Hz)	>60							
Refresh Frequency (Hz)	>1920							
Mechanical Protection	Front: IP65; Back: IF	P54						
Maintenance	Front / Back Mainte	enance						
Power Supply	AC: 85 - 140V / 180	-260V (50 / 60Hz)						
Communication	RS232 / RS485 / Et	hernet Via RJ45 / GP	RS / 3G / 4G / Optic F	iber				
Protocol	NTCIP 1203 / MODI	BUS / UTMC / XML /	JETFILE II					
EMC / FCC Certification	EMC, FCC							
Certification	CE, ETL							





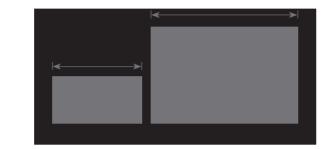


Intelligent & Efficient VMS

• Chainzone's variable message sign is certified to the EN12966 standard

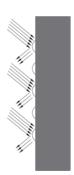
VMS Advanced Technology Introduction

- All displays provide brilliant legibility, high energy efficiency and outstanding brightness. A wide range of variable message signs can be customized according to different project requirements.
- The unique optical lens design can maximize the effective illumination of LED lights at the best beam angle
- A wide range of variable message signs can be customized according to different project requirements



Low Reflection Design

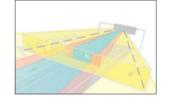
- The surface of Chainzone's VMS features a a unique matte abrasive design, which creates a diffused reflection of the sunlight. As a result, the sign surface remains dark even under strong sunlight.
- With the matte abrasive surface and the external light absorption design on the lens, the luminance ratio of Chainzone's VMS can reach as high as 20:1 in white color, under the external illumination at 40000 lux.
- The optical lens of Chainzone's VMS is designed to achieve light absorption which will decrease the external light reflection on the lens, so the brightness reflection of the VMS is furtherly reduced.



VMS with Optical Lens Structure

Beam Width

Changeable with different Optical Lens, meeting B1-B7 classes of EN12966 and NEMA TS-4



Luminance & Luminance Ratio

The highest performance indicated in the EN12966 Standards (L3/L3*, R3, C2) and NEMA TS-4



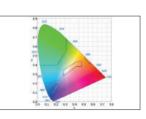
Light Pollution

Optimal Intensity Optimal Light Pattern Optional Beam Width



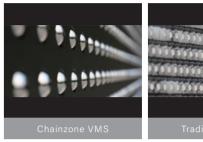
Color Uniformity

Better Color Uniformity: The chr omaticity coordinates deviations in effective angle are x<0.05, y<0.05



Smooth Surface Design

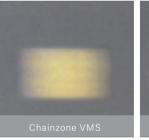
• Different from traditional VMS, each pixel has a visor on the surface to improve the brightness, the optical lens vms of Chainzone is smoother, so no dust or snow will become stuck on the surface. The vms display content will remain clear and complete all the time.

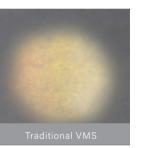




Low Power Consumption

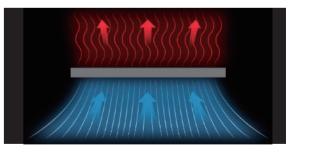
• System power consumption has been greatly reduced because the optical lens design multiplies light output and light contrast ratio.





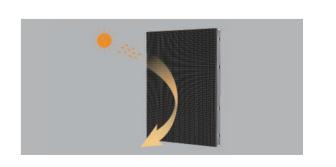
Overheat Protection

- Built-in sensor to detect VMS cabinet temperature: The fan will be activated automatically if the inner temperature exceeds the threshold value
- Auto Black Screen Protection Mode protects electronic components and reduces fire risks due to over heating.



Cabinet Structure

- The optical lenses are made with the best anti-UV polycarbonate (PC) material, to avoid cracks on the lens and prevent the lens from turning yellow even under long exposure to the strong sunlight.
- The whole VMS cabinet is built with a thick aluminum profile with an overall soldering technique, making the cabinet strong in structure but smooth in outer appearance and feel.
- The surface of VMS without any visor can be self-cleaned by the rain.







Mobile (Trailer) VMS

 Solar charging system with MPPT charging management Automatic shut-down function for the solar charging system when batteries are fully charged, preventing damage to batteries

 Provide AC charger to quickly charge the battery The battery box can be locked against unauthorized access

Mobile VMS with Modular Design (EN12966)

• The VMS can be rotated and lifted to provide an accurate display angle

Radar speed measurement function to record the state of vehicles on the road

• The retractable jack provides wind resistance and stable parking

• The energy-efficient operation allows the VMS to be operational for an extended period













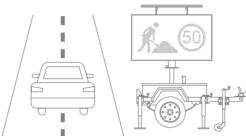


Specification

Model	TVMS-20M-SMD	TVMS-25M-SMD	TVMS-31.25M-SMD
Pixel Pitch (mm)	20	25	31.25
Pixel Configuration	SMD		
Module Resolution (pixels) (H×W)	8×16		
Module Size (mm) (H×W)	160×320	200×400	250×250
Maximum Resolution for Trailer Mounted VMS(pixels) (H×W)	48×80	56×96	64×96
Maximum Size for Trailer Mounted VMS (mm) (H×W)	960×1600	1400×2400	2000×3000
Cabinet Dimension (mm) (H×W×D)	1160×1800×120	1600×2600×120	2085×3200×180
Display Color	Single or Full Color		
Brightness	Red>3100cd/m ² Green>3	720cd/m ² Yellow>7400cd/	m ² White>12400cd/m ²
With Light Sensor	YES		
Physical Characteristics			
Enclosure Structure	Waterproof Modules+Alumin	um Housing	
Working Temperature (°C)	-25°C to +60°C		
Humidity Range	RH<95%		
Mechanical Protection	IP65		
Maintenance Access	Front		
Electrical Specifications			
Solar Power System	DC 12V		
Communication	RS232 / RS485 / Ethernet		
Protocol	JETFILE II / NTCIP / UTMC /	XML	
Trailer Specifications			
Spraying Process	Hot Dip Galvanized / Electros	static Powder Spraying	
Hydraulic Lifting System	Yes		
Trailer Size	Type-A: 1750mm×2250mm	Type-B: 2050mm×2450mm	Type-C: 2050mm×3550m
Total Weight of Trailer and VMS	Type-A: About 700KG	Type-B: About 1000KG	Type-C: About 1200KG

MC20 Controller

- Easier control with touch-screen screen handheld controller
- Firmware can be updated by USB
- RS485 serial port is supported
- Text editing and picture transferring directly via MC20
- · VMS status detection and work log



Mobile VMS with PC Cover Design

- PC cover protection, effectively preventing graffiti
- VMS can be controlled by either a remote controller or network server
- The VMS can be rotated at 360 degrees after being lifted
- GPS function is available, users can monitor the location of Mobile VMS
- Cooling fans protect sign cabinet and battery charger from overheating













Model	TVMS-55/50PC
Pixel Pitch (mm)	55(H), 50(W)
Pixel Configuration	4R3G3B4Y3W 4Y
Model Resolution (pixels)	4×8
Module Size (mm) (H×W×D)	220×400
Maximum Resolution for Trailer Mounted VMS (pixels) (H×W)	28×48
Cabinet Dimension (mm) (H×WxD)	1845×2725×105
Display Color	Single Yellow Five Color
Brightness	Yellow / White>6200 cd/m ² Red / Green>2800 cd/m ²
Light Sensor	YES
Physical Characteristics	
Enclosure Structure	PC Cover + Aluminum Housing
Working Temperature (°C)	-25°C to +60°C
Humidity Range	RH<95%
Mechanical Protection	IP65
Electrical Specifications	
Solar Power System	DC 12V
Communication	RS485 / 4G / Ethernet
Protocol	JETFILE II / NTCIP

VMS Web-based Management Software Chain Spot®

A Brief Introduction of

ChainSpot® is a VMS management software based on the Internet. Users can manage and control plenty of devices remotely simultaneously to check the current status and send content to the equipment.A combination of different colors and sizes makes these signs extremely efficient in conveying safety messages to road users.

Function

- GPS Function
- VMS Status Checking
- VMS Setting
- Battery Management
- SMS Setting
- Pixel Check
- Visualized Displaying Schedule
- Radar Data Statistics and Analysis

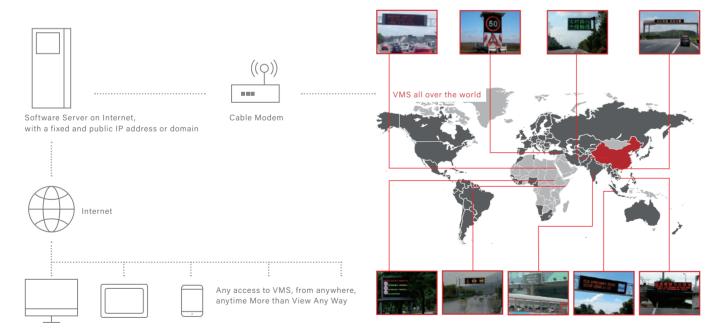
Function

- 100% customized interface
- NTCIP / JETFILE II protocol available
- No need to install the software in advance, user-friendly management.
- Different access to various levels of users: Super Admin/Admin/User
- Vivid status report
- Flexible scheduling function
- · Encrypted data package for transmission via internet
- Monitor VMS on Google Map

Major Functions of the Software

Diagram of the software system

Designed and Developed by Chainzone Technology (Foshan) Co., Ltd.



User's Side

РС

Server Online Laptop With a Fixed and Public IP or Domain

Tablet Data Base

100% Customized Web Base Smart Phones Software

ChainSpot®

Server

(By Customers)

VMS Side

Motherboard (Receiving signal and reporting

VMS status to Software System)

4G Modem

Or Ethernet(Via Internet)

GPS Modem for positioning

Temperature Sensor / Light Sensor / Lightning Arrestor etc.

6 8 8 3 8 8 9 2 5 2 2









Supporting Multiple Device

- Supporting 6 Main devices (VMS, Radar, Camera, Lane control signal, Speed Limit Sign, Wigwag) and 7 sub-devices.
- All kinds of devices can be connected with and controlled by each

Gallery with Multiple Picture

- Provide thousands of pictures in different sizes that are used for
- Allow users to customize their own galleries

Multifunctional Matrix Editor

• User-friendly and support NMG, PMG, QST, NTCIP, and other file formats

Flexible Schedule Setting

- Supporting weekly, daily and arbitrary time scheduling
- Vivid image display, from which you can know when and what files are playing by a glance.

Vivid Pixel Check Report

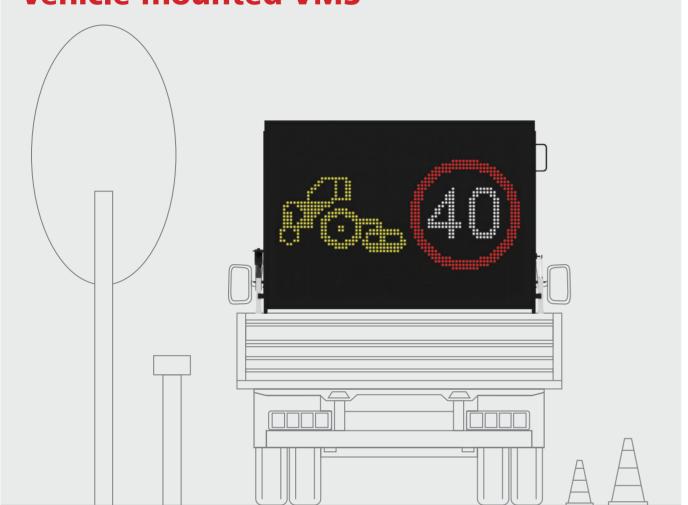
• Graphical display of pixel detection results, users can quickly find the location of fault pixels.

Group Management

- Quickly check the status of the device in a specific area
- Support map mode



Vehicle-mounted VMS



Feature

- Installed on road construction vehicles or police vehicles, with supporting frame fixed to the roof-top
- Wireless control, with 2G/3G/4G modem
- Auto/Manual dimming control
- With touchscreen handheld controller
- More than 4000 images can be stored on the VMS and handheld controller due to its large storage capacity
- Send the displaying contents to VMS or handheld controller via a computer directly
- With linear actuator, it can raise or fold down the VMS up to 90° angle

Specification

- Pixel Pitch: 12mm, 16mm, 20mm
- · Color: full color
- · Resolution: Customized
- Screen Size: Customized
- Viewing Distance: 0-600m
- Viewing Angle: B4/B6 (SMD)
- Input Voltage: 12VDC (24VDC is available)
- Mechanical Protection: IP56
- Working Temperature: -25°C to +60°C









Arrow Board

Chainzone Tech's arrow boards have been designed and built to meet various international standards. Being very simple and compact in structure, easy and convenient in operation, Chainzone's arrow boards are widely used in China, the U.S.A, England, Australia, New-Zealand, Qatar, Singapore, Brazil, Iran, Ireland, Hong Kong, etc.



Features and Function

- Ultra-bright TS LEDs with uniform and penetrating brightness
- Viewing Distance: 0-1000m
- Driven by constant current, the board has high reliability, excellent stability, slow degradation and low power consumption
- Easy to operate with a small and compact control box for multiple indicating patterns.
- Multiple power protection mechanism, lamp status detection
- Automatic brightness control
- Long working life up to 50,000 hours
- DC 12V/24V is available; solar panel is optional
- Aluminum cabinet with polycarbonate lamp shell, which has better performance
- Can be mounted to all kinds of constructing vehicles, trucks or trailers
- With touch-screen handheld controller

Arrow Board Handheld Controller



Connection of the Arrow Board

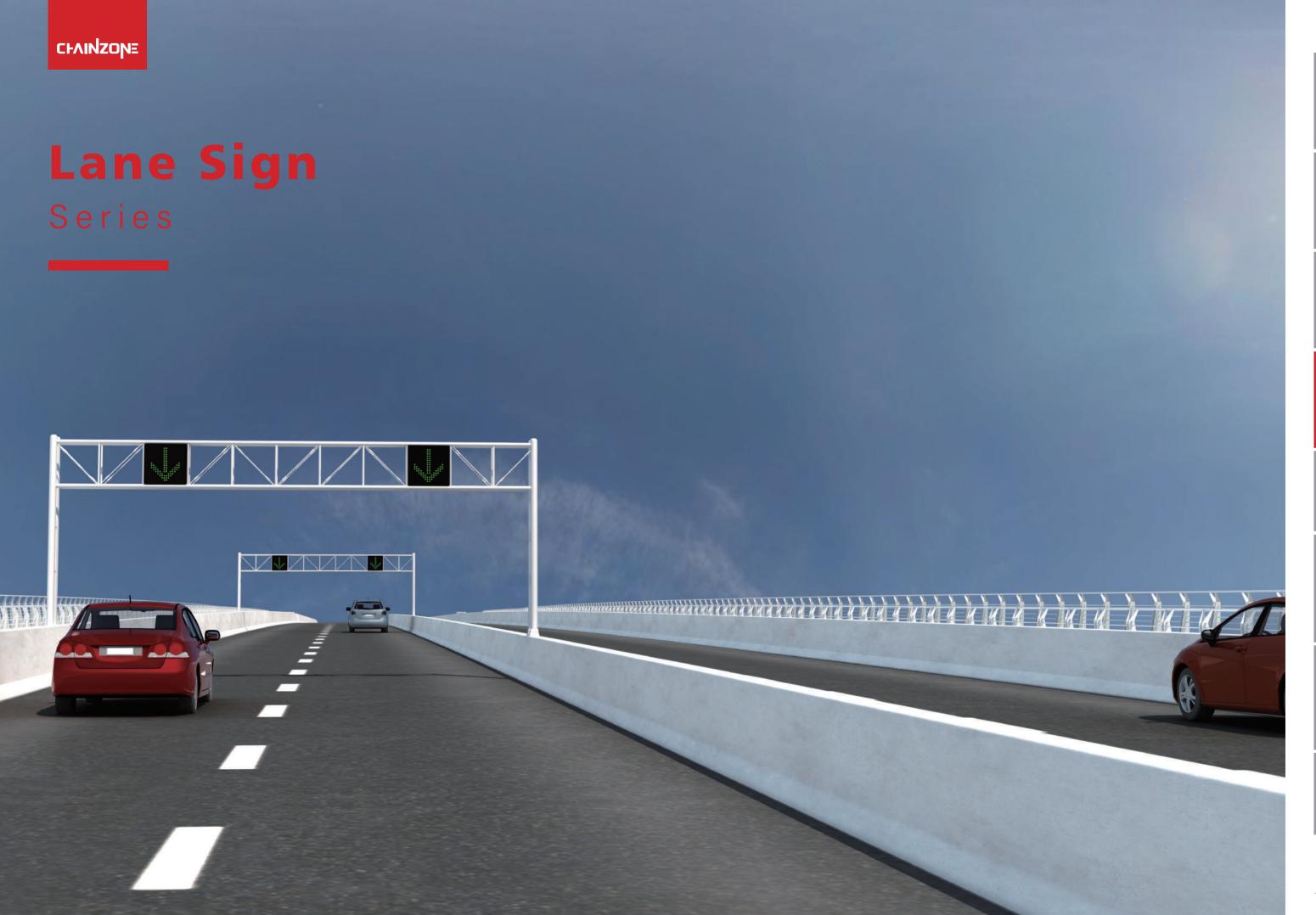


Optical and Electrical Specification

Working Voltage: 12V (10.5~15V) or 24V (22~28V)

Model	LED Heads	Diameter of Optional LED Heads (mm)	Cabinet Dimension						
			Height	Width					
DXP-Type A	13	100mm	650mm	1260mm					
DXP-Type B	15	100mm	750mm	1500mm					
DXP-Type C	17	138mm	1220mm	2440mm					
KSB-72X36TS25L	25	138mm	914mm	1828mm					

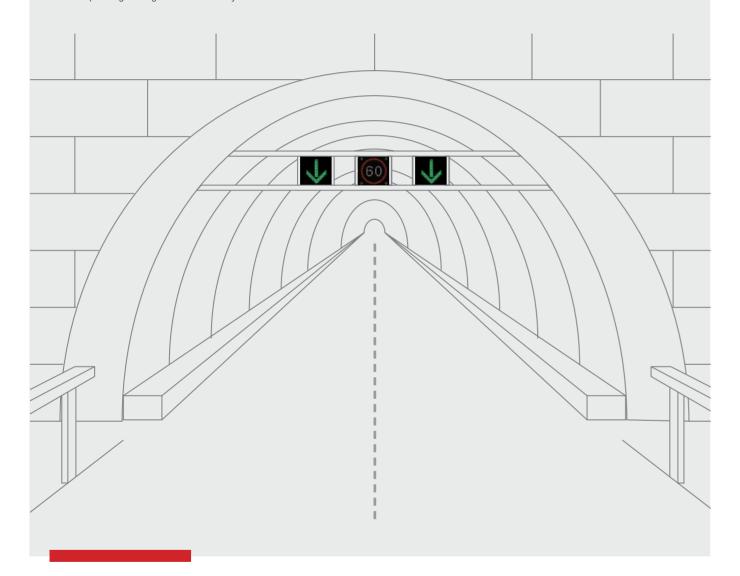




Lane Control Signal (LCS)

Application

Lane Control Signals are widely used at highways, toll gates, and tunnels to direct vehicles passing through the lanes safely.

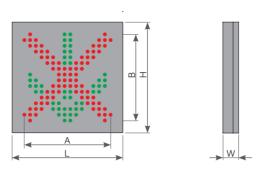


Feature

- High reliability
- SMD LED + optical lens is much more reliable than exposed DIP LED
- Lower Power Consumption
- Compared with DIP LED + Visor design, SMD + Optical lens technology lowers approx 50% power consumption

Under sunny and snowy conditions, SMD + Optical lens technology delivers much clearer road information to the drivers than the DIP LED + Visor design or DIP LED + PC design

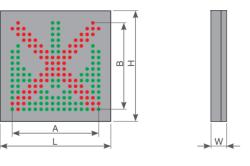
- Excellent Optical Performance:
- Chainzone's Lane Control Signals achieve the highest optical performance of EN12966 standard: L3 / L3* / L3(T), R3, C2, B1-B7
- IP56 and IP65
- The housings of the Lane Control Signals are fully welded with an internal stiffener. It ensures no water can enter into the housing.
- Lighter Weight and Anti-rust
- The housings of Lane Control Signals are made of aluminum, while stainless steel is optional











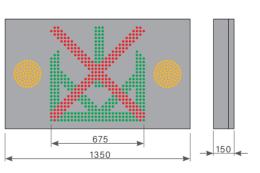




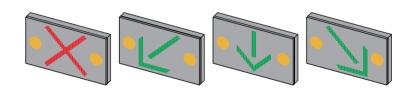












Model	LCS- 400A	LCS- 400B	LCS- 500A	LCS- 500B	LCS- 600A	LCS- 600B	LCS- 800A	LCS- 800B	LCS- 1000A	LCS- 1000B	LCS-1350C
Housing Size (W×H×D) (mm)	400×400)×100	500×50	00×100	600×60	00×100	800×80	0×100	1000×1000×100		1350×800×150
Display Size (A×B) (mm)	288×288	}	375×37	5	468.75×	(468.75	675×67	5	843.75×	843.75	675×675
Pitch Size (mm)	16mm		25mm		31.25mr	m	25mm		31.25mn	n	25mm
Display	Red "X"	Green / A	mber "Arr	ow"							
Housing Material	Black Alu	Black Aluminum									
LED Type	SMD LEI	SMD LEDs with Optical Lens									
Power	110-220V	/ 12VDC	/ 24VDC								
Optical Performance	EN12966	(L3 / L3*	/ L3(T), F	R3, C2, B6)						
Protocol	NTCIP /	MODBUS	/ Jet File	II / Profib	us						
Interface	Ethernet	/ RS232 /	/ RS485								
Control Mode	Dry Cont	act / I/O	Control / I	Protocol C	ontrol						
Temperature Range	T1 (-15°C	to +60°C); T2 (-25°	C to +55°	C); T3 (-40	°C to +40	°C)				
IP Rate	IP65	IP65									







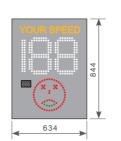
Application

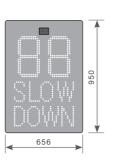
Speed Limit Signs are used to define the speeds for vehicles on public roads, and are one of the measures available to control traffic speeds. They usually are mounted around school area, lanes, highways and tunnels.

Specification

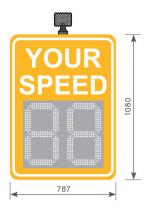
Model	SLS-844×634	SLS-950×656	SLS-1050×656	SLS-1080×787	SLS-600A	SLS-600B	SLS-800A	SLS-800B		
Housing Size (W×H×D) (mm)	844×634-100	950×656-100	1050×656-100	1080×787-100	600×600-10	00	800×800-100			
Ring Diameter (R) (mm)	288×288	375×375	468.75×468.75	675×675	843.75×843	3.75	675×675			
Pitch Size (mm)	16mm	16mm	20mm	16mm	12mm		16mm			
Display	Ring: Red; Char	Ring: Red; Characters: White or Yellow (Can be Customized)								
Housing Material	Black Aluminum	Black Aluminum								
LED Type	SMD LEDs with	SMD LEDs with Optical Lens								
Power	110-220V / 12VE	DC / 24VDC								
Optical Performance	EN12966 [L3 / I	L3* / L3(T), R3, C	2, B6]							
Protocol	NTCIP / MODB	US / Jet File II / F	Profibus							
Interface	Ethernet / RS23	32 / RS485 / GPR	S							
Control Mode	Dip Switch Con	trol / I/O Control	/ Protocol Control	/ Radar Control						
Temperature Range	T1 (-15°C to +60	0°C); T2 (-25°C to	+55°C); T3 (-40°C	to +40°C)						
IP Rate	IP65	IP65								

Feature







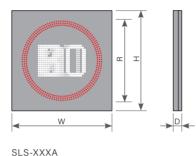


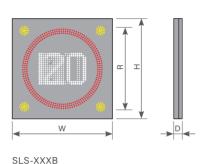
SLS-844x634

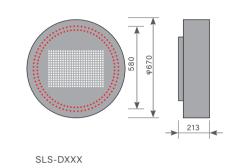
SLS-950x656

SLS-1050x656

SLS-1080x787







Feature

- Enhanced reliability
- SMD LED + optical lens is delete more reliable than exposed DIP LED
- Lower Power Consumption

Compared with DIP LED + PC design, SMD + Optical lens technology reduces approx 50% power consumption

• High Contrast Ratio

Under the strong sun or large amounts of snow, SMD + Optical lens technology delivers much clearer road information to the drivers than the DIP LED + PC designs

• Excellent Optical Performance

Chainzone's Variable Speed Limit Signs achieve the highest optical performance of EN12966 standard: L3 / L3* / L3(T), R3, C2, B1-B7

- Outstanding Water-proof Performance: IP56 and Ip65
- Lighter Weight and anti-rust properties

All Variable Speed Limit Sign housing are made of aluminum, while stainless steel is optional

• Speed Detection

Radar inside or outside the housing

SLS-900A	SLS-900B	SLS-1000A	SLS-1000B	SLS-1050A	SLS-1050B	SLS-1360A	SLS-1360B	SLS-D540	SLS-D670	SLS-D880	SLS-D116(
900×900-10	00	1000×1000	-100	1050×1050	-100	1360×1360	-180	Ф540×213	Ф670×213	Ф880×213	Ф1160×21
720 790		900		1200		455	580	790	1030		
20mm	20mm 20mm		20mm		20mm		12mm	12mm	20mm	20mm	
Ring: Red; (Characters: V	Vhite or Yello	w (can be Cu	stomized)							
Black Alum	inum										
SMD LEDs	SMD LEDs with Optical Lens										
110-220V /	10-220V / 12VDC / 24VDC										

EN12966 [L3 / L3* / L3(T), R3, C2, B6]

NTCIP / MODBUS / Jet File II / Profibus

Ethernet / RS232 / RS485 / GPRS

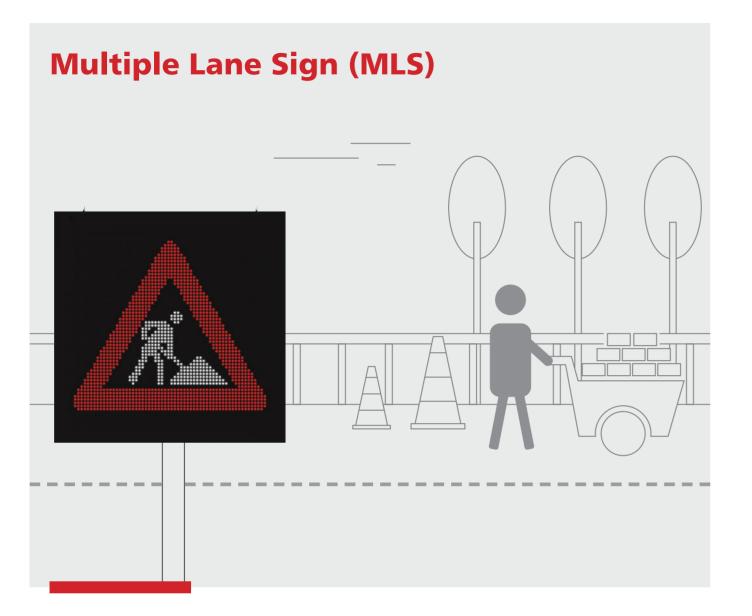
Dip Switch Control / I/O Control / Protocol Control / Radar Control

T1 (-15°C to +60°C); T2 (-25°C to +55°C); T3 (-40°C to +40°C)









Application

Multiple Lane Signs usually contain multiple traffic symbols to provide traffic safety information to road users. They are widely used as danger signs, warning signs, etc and are mounted on public roads, highways, and tunnels.

Feature

• Enhanced reliability

SMD LED + optical lens is delete more reliable than exposed DIP LED

• Lower Power Consumption

Compared with DIP LED + PC design, SMD + Optical lens technology helps lower approx 50% power consumption

Under the strong sun or large amounts of snow, SMD + Optical lens technology deliver much clearer road information to the drivers than the DIP LED + PC design

• Excellent Optical Performance

Chainzone's Multiple Lane Signs achieve the highest optical performance of EN12966 standard: L3 / L3* / L3 (T), R3, C2,

• Outstanding Water-proof Performance: IP56 and IP65

• Lighter Weight and Anti-rust

All multiple lane sign housing are made of aluminum, while stainless steel is optional







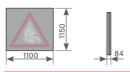






Multiple Lane Sign

MLS-1000X1000



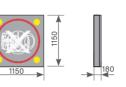


















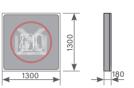








MLS-1300X1300



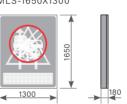








MLS-1650X1300













Model	MLS-1000×1000	MLS-1150×1150	MLS-1300×1300	MLS-1650×1300						
Housing Size (W×H×D) (mm)	1000×1000×100	1150×1150×180 1300×1300×180		1650×1300×180						
Ring Diameter (R) (mm)		970	850	850						
Triangle Length (mm)	840			985						
Pitch Size (mm)	20	20	20	20						
Display	Ring: Red; Characters: Whit	Ring: Red; Characters: White or Yellow (Can be Customized)								
Housing Material	Black Aluminum									
LED Type	SMD LEDs with Optical Lens									
Power	110-220V / 12VDC / 24VDC									
Optical Performance	EN12966(L3/L3*/L3(T), R3,	, C2, B6)								
Protocol	NTCIP / MODBUS / Jet File	e II / Profibus								
Interface	Ethernet / RS232 / RS485 /	/ GPRS								
Control Mode	Dip Switch Control / I /O C	ontrol / Protocol Control / Rada	ar Control							
Temperature Range	T1 (-15°C to +60°C); T2 (-25	°C to +55°C); T3 (-40°C to+40°	C)							
IP Rate	IP65	IP65								





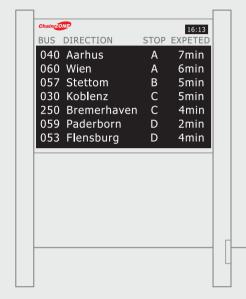


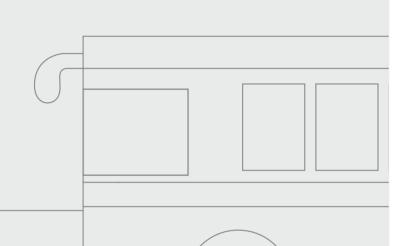




Passenger Information Sign Type A







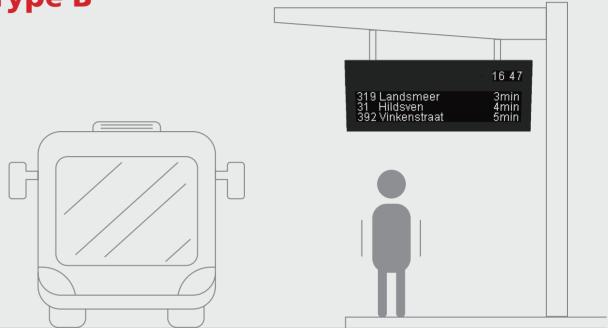
Feature

- Modular design for easy maintenance
- Surface aluminum powder coated according to RAL (optional stainless steel)
- Customized mounting brackets available for any shelter
- Easy secondary development with embedded X Windows toolkit
- No preventive maintenance is required. Maintenance completed by single personnel

Specification

	PIS-6	
Pixel Pitch (mm)	6	
Module Resolution (H×W)	16×32	
Module Size (H×W) (mm)	96×192	
Font Height (mm)	42	
Reading Distance (m)	20-22	
Viewing Angle (X, Y Axis)	150° (110° for 50% luminance Angle)	
LED	3-in-1 SMD LED	
Color	Single Color / Full Color	
Luminance (cd/m²)	>5000	
Working Temperature	-20°C to +45°C	
Brightness Control	Automatic / Manual / Programmable	
Input Voltage	AC 88- 264V, 50/60 Hz	
Sensors	Temperature & Humidity Sensor, Cabinet Angle Sensor, Door-opened Sensor, Etc	

Passenger Information Sign Type B



Feature

- Debian 8 Jessie GNU/Linux, Lxde graphic desk is embedded inside the controller. Standard Xlib can control the screen.
- SDK and DemoSource are provided for easy development.
- The software package is preinstalled, like vsftpd, ssh, vnc,gcc, etc. More software can be installed via "apt-get install".
- Complete API is provided for access to hardware resources, such as RS232, RS485, GPIO, Audio, sensors, etc.
- VNC remote desk login is available. PC and cell phone can check the status of the sign, which will facilitate the development.
- The clone function is available to enable quick copy to all the PIS controllers.

	PIS-5
Pixel Pitch (mm)	5
Module Resolution (H×W)	9×42
Module Size (H×W) (mm)	45×210
Font Height (mm)	35
Reading Distance (m)	16-18
Distance Between Lines (mm)	11.5
Viewing Angle (X, Y Axis)	150° (110° for 50% luminance Angle)
LED	3-in-1 SMD LED
Color	Single Color / Full Color
Luminance (cd/m²)	>4000
Working Temperature	-20°C to +45°C
Brightness Control	Automatic / Manual / Programmable
Input Voltage	AC 88-264V, 50 / 60 Hz

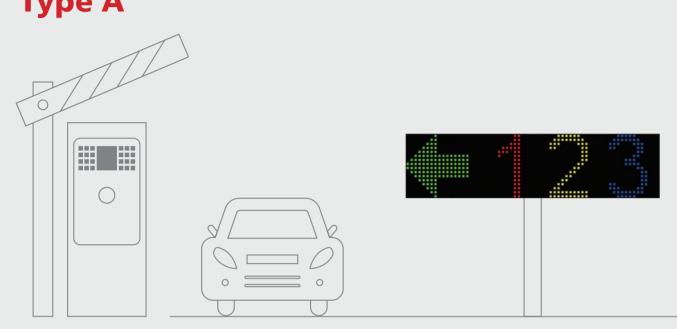












Introduction

Parking guidance sign is used for both indoor and outdoor parking lot. As part of the parking guidance system, it can provide information on distance, direction, available space, instruction, etc. to parking users.

Feature

- Modular design with flexible extension to different sizes.
- Smart structure for easy maintenance. High brightness and waterproof cabinet, suitable for both indoor and outdoor applications.
- Full color LED, various animations are available.
- Standard module and cabinet for easy storage.









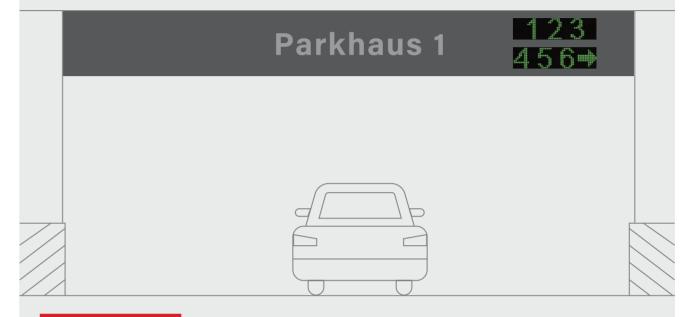


Block Structure

Specification

Model	PIS-8	
Pixel Pitch (mm)	8	
Display Resolution (H×W)	Size A: 16×32 pixels Size B: 32×32 pixels Size C: 16×64 pixels Size D: 16×96 pixels	
Display Area (H×W) (mm)	Size A: 128×256 Size B: 256×256 Size C: 128×512 Size D: 128×768	
LED	3-in-1 SMD LED	
Color	Full Color	
Brightness (cd/m²)	>5000	
Maintenance	Front Open Door Access	
Input Voltage	DC 12-36V	
IP Class	IP65	
Interface	RS232 / RS485, Ethernet	
Compatibility	Light Sensor, Wifi, Modem, Etc.	

Parking Guidance Sign Type B



Introduction

Parking guidance sign is used for both indoor and outdoor parking lot. As part of the parking guidance system, it can provide information on distance, direction, available space, instruction, etc. to parking users. Different solutions are available for various applications.





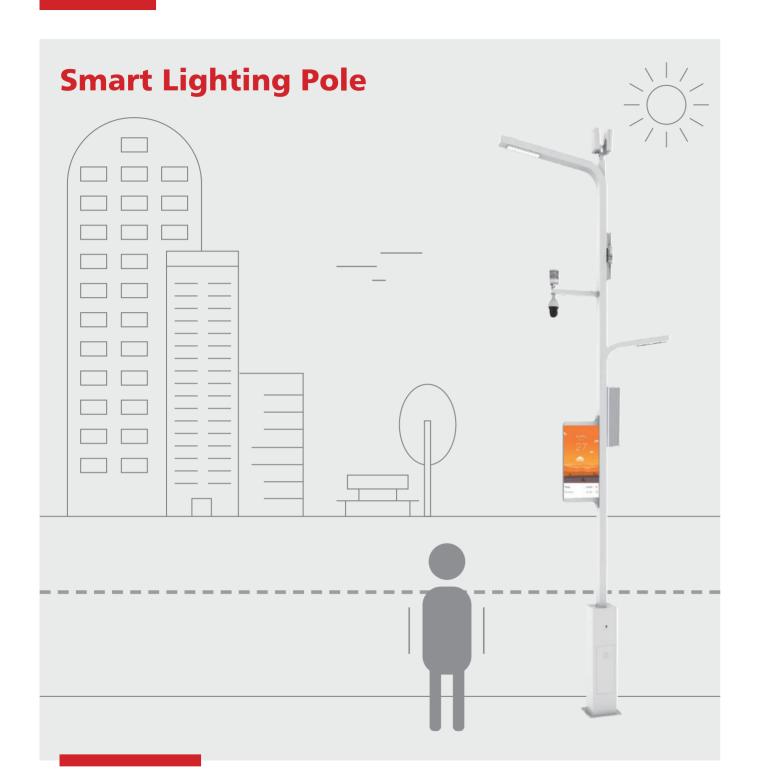




Feature

- Compliant to EN12966 standards
- Strong and elegant housing.
- Smart optical design for high brightness, high contrast ratio with low power consumption.
- Full-color SMD LED, long lifespan.
- Waterproof Ip65

Model	PIS-10 PIS-12		
Pixel Pitch (mm)	10 12		
Display Resolution (H×W)	12×48 16×48		
Display Area (H×W) mm	120×480	192×576	
Luminance (cd/m²)	Red>3100, Green>3720, Yellow>7440, White>12400		
Viewing Angle	B6 30°(H) / -10°(V) or B7 60°(H) / -20°(V)		
LED	3-in-1 SMD LED		
Color	Full Color		
Number of Lines	1 – 5 lines		
Cabinet Size (H×W) mm	470 / 640 / 810 / 980 / 1150 x 1300		
Cabinet	Aluminum matte black RAL9005		
Input Voltage	AC 88-264V, 50 / 60 Hz		
IP Class	IP65		
Certification	EN12966		
Brightness control	Auto / Manual / Programmable		



Feature

- Product modular design. The installation site is not limited by distance. Easy for installation and maintenance.
- Large scale delete networking without LED display quantity limitations.
- Universal 4G communication.
- Fast information transmit-receive, supporting video, animation, and pictures.
- Asynchronous/synchronous broadcast with high-definition effect.
- The intelligent cloud-based control system enables online displaying, creating a digital interactive community and bringing citizens convenient access to
- Widely used in urban roads, pedestrian streets, plazas, communities and other













Brightness Automatic Adjustment

The brightness of the screen can be automatically adjusted with the brightness of the outside light, which can avoid light pollution. It's the best choice for energy-saving screens in smart cities.



Remote Control

It can be remotely controlled via 3G/4G/Wifi/USB, and the content is released, cut-in, and updated with one click. Simple, fast and smart.



Seamless Switching

Synchronized display, no delay, seamless program switching, and the running status of the screen can be monitored in the background.

Smart Lighting Pole				
Model	SLP-2.5 SLP-3 SLP-4			
Pixel Pitch (mm)	2.5	3	4	
Module Resolution (pixels)	64×64	64×64	40×80	
Size of Module (mm) (H×W)	160×160	192×192	160×320	
Optical Characteristics				
Pixel configuration	3 in 1 SMD LED			
Brightness	≥5000 cd/m ²			
Color	Full Color			
Viewing Angle	120° / 120°			
Brightness Control	16-level adaptive brightness to prevent glare at night. Its visibility will not decrease when exposed to sunlight			
Physical Characteristics				
Cabinet	Customizable Size			
Working Temperature (°C)	-30°C to +60°C			
IP Rating	IP55			
Visual distance (m)	3~45			
Electrical Specifications				
Power Supply	AC: 90-260V (50 / 60HZ)			
Communication	RS232/485; RJ45; 4G; WIFI			
Working life	75,000~100,000 hours			





























Diameter: 200mm (300mm is available) Quantity of LEDs: 84 pcs for down counter 88 pcs for running man Display Color: Red and Green Input Voltage: AC85V-265V 60HZ / 50HZ Power Consumption: ≤10W Housing: Polycarbonate

LED Yellow Flash Light

Model: JXM-Y1-V Diameter: 300mm (400mm is available) Light Source: 4 element Ultra-Bright TS LED Quantity of LEDs: 104 pcs Display Color: Amber Wavelength: 590nm~595nm Working Voltage: DC 12V Max Power Consumption: 8W

Solar Panel: 10W Battery: 9 Ah/12V

High Power Traffic Light

Diameter: 200mm (300mm and 400mm are available) Power Consumption: ≤10W Quantity of LEDs: Red: 6 pcs, Yellow: 6 pcs, Green: 6 pcs Input Voltage: AC85V-265V 60HZ / 50HZ Housing: Polycarbonate EN12368 certified

Traffic Light with Transparent Lens

Diameter: 300mm (200mm and 400mm are available)

Power Consumption: ≤15W Lens: Transparent

Quantity of LEDs:

Red: 192 pcs, Yellow: 192 pcs, Green: 168 pcs Input Voltage: AC85V-265V 60HZ / 50HZ

Housing: Polycarbonate and Aluminum are available

EN12368 certified

Touchable Pedestrian Crossing Button Model:PPB-3

This is used in intersections where there are not many pedestrians but many vehicles passing through

If no pedestrian needs to cross the road, the pedestrian light will be red all the time to improve, traffic flow. When there are pedestrians, the signal will turn green in a few seconds after pushing the button.

Feature

- Flame retardant, UV-resistant and high light-transmissible transparent polycarbonate lens
- Ultra-bright LED feauring a long life span
- Low power consumption, saving 90% power compared with incandescent traffic lights
- Extra thin construct design, with nice appearance, simple construction and light in weight
- Completely waterproof with double-sealed structure
- Simple installation and easy maintenance
- Extremely strong housing and long life span with polycarbonate















TC-5000

IP54

600×470×1500mm

Powder Coated Stainless Steel

32 Bit RISC Processor/48MHz

RS232 / RS485 / USB / Ethernet

-20°C~70°C 230V / 110V

AC 50 / 60Hz

>50MΩ

32 PCs 32 PCs

32 PCs

8 ways

8MB

Support

Jetfile II







Traffic Signal Controller











TC-4000 Controller Series

- Up to 48 outputs are supported.
- · Provides RS232, dual Gigabit network port communication interface mode.
- · With side door quick control yellow flash, full red, manual and shutdown functions.
- 1280x800 HD 7-inch touch screen.
- Supports 4-way pedestrian crossing buttons.
- Supports GPS green band coordination function.

Model	TC-4000	
Chassis Size (L×W×H)	600×400×1300mm	
Shell Materia	Powder Coated Stainless Steel	
IP Code level work	IP54	
Work Temperature	-20°C~70°C 230V / 110V	
Supply Output	AC 50 / 60Hz	
Resistance between Output Terminal and Grounding	>10ΜΩ	
Power Consumption of the Whole Machine	≤24W	
Maximum Period	32 PCs	
Phase Number	32 PCs	
Special Date	32 PCs	
Pedestrian Crossing Buttons are Supported at Most	4 Ways (Optional)	
GPS Clock Adjustment	Support	
CPU	Cortex-A8800MHz 512MB Memory and 8GB Memory	
Flash Memory	8MB	
Agreement	Jetfile II / GBT-20999	
Interface	RS232 / RS485 / Dual Gigabit Network Port	



TC-3500 Controller Series

- Up to 48 outputs are supported. The panel simulates and displays the intersection signal status in real-time.
- Provides RS232, 10M / 100M Ethernet and USB communication interface mode
- Green band single point adaptive
- LCD, Chinese and English menu Pedestrian crossing (optional)

Model	TC-3500	
Chassis Size (L×W×H)	600×400×1300mm	
Shell Materia	Powder Coated Stainless Steel	
IP Code level work	IP54	
Work Temperature	-20°C~70°C 230V / 110V	
Supply Output	AC50 / 60Hz	
Resistance between Output Terminal and Grounding	>10ΜΩ	
Power Consumption of the Whole Machine	≤24W	
Maximum Period	32 PCs	
Phase Number	16 PCs	
Special Date	32 PCs	
CPU	32 Bit RISC Processor/48M Hz	
Flash Memory	8MB	
Agreement	Jetfile II	
Interface	RS232 / USB / Ethernet	



TC-5000 Controller Series

- Up to 72 outputs are supported
- The panel simulates and displays delete intersection signal status in real time
- Provide RS232, RJ45 and USB communication interface mode
- Provide 8 groups of pedestrian key input
- Support GPS green band coordination function
- With side door quick control, yellow flashing, full red, manual and shutdown function panel, real-time analog display of intersection signal
- System self-inspection, recording fault information, including fault type, time, date and other remote networking control functions.

Model

Shell Materia

IP Code level work

Work Temperature

Resistance Between Output Terminal and Grounding

Pedestrian Crossing Buttons are Supported at Most

Power Consumption of the Whole Machine

Supply Output

Maximum Period

GPS Clock Adjustment

Phase Number

Special Date

Flash Memory

Agreement

Interface

Chassis Size (L×W×H)

· Support regional adaptive coordinated control and logistics service control, center mandatory control.









TC-7000 Controller Series

Feature

- Separated design: the main controller is separated from the signal driver modules, easier for installation, maintenance and testing
- . Vehicle flow collector, pedestrian passage controller and main controller are individual modules, which can be collected according to different



The 48 route circle traffic flow detector



Manual panel of traffic signal controller



1280×800 10-inch capacitive touch screen



TC-7000 System

Feature

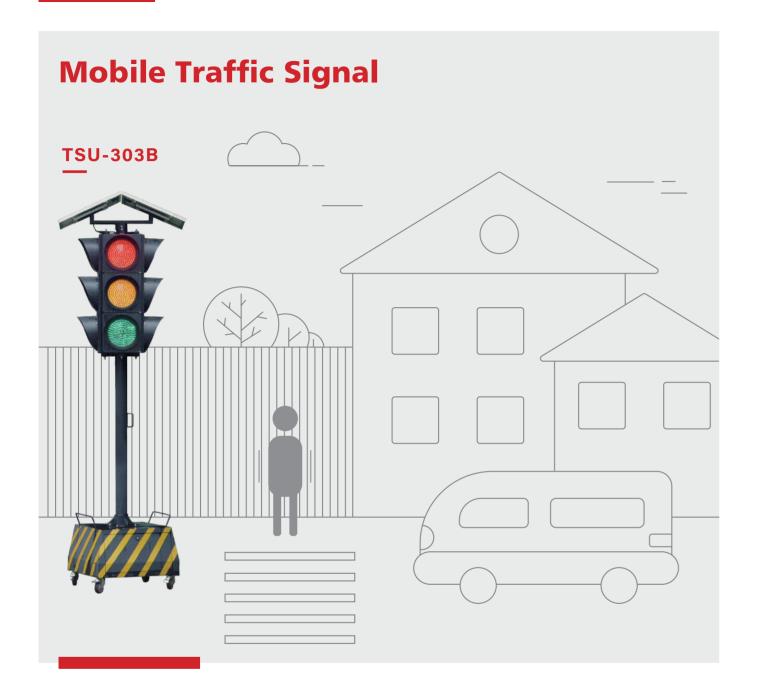
- TI ARM Cortex-A8 1G industrial processor, onboard 512MB memory and 8GB memory are adopted
- 1280×800 10-inch capacitive touch screen
- High speed and accurate signal lamp true RMS current detection technology (acquisition rate: 50 Sa/S, acquisition range: 0-1A) seamlessly realizes double gigabit network ports for signal lamp parallel open circuit detection, realizes independent access of background server and video traffic flow detection, and improves system reliability
- The 48 route circle traffic flow detector supports the detection of traffic flow, vehicle speed, vehicle type classification, headway, occupancy and other parameters
- The signal lamp driver is of modular design, with a maximum of 10 modules and 120 outputs
- The output module adopts a self-recovery fuse; In case of short circuit, it will recover automatically without replacement of the 8-way pedestrian crossing control machine
- Dual power supply design to enhance system fault tolerance
- The red and green signal light power supply is equipped with an independent switch. When the short circuit fault of the red and green signal light of the output module is detected, the power supply of the red and green signal light is automatically cut off to prevent traffic accidents
- Compatible with NTCIP communication protocol
- Design of operating system and SQL database based on Linux 4.0
- It supports parallel operation of 5 virtual intersections, and all virtual intersections have an independent time period, operation schemes and other configurations
- The second level records design and all information such as light state, current, temperature and faults every second
- GPS and NTP dual timing
- SD card data automatic backup and recovery function to quickly replace the faulty motherboard

Module	TC-7000
Chassis Size (L×W×H)	600×470×1500mm
Shell Materia	Powder Coated Stainless Steel
IP Code level work	IP54
Work Temperature	-20°C~70°C 230V / 110V
Supply Output	AC 50 / 60Hz
Main Control Panel Display Screen	1280×800 LCD Screen and Capacitive Touch Screen
Maximum Period	32 PCs
Phase Number	32 PCs
Special Date	32 PCs
Maximum Number of Signal Lamp Output Channels	120 Ways
Maximum Number of Coil Type Traffic Detectors Supported	48 Ways
Pedestrian Crossing Buttons are Supported at Most	8 Ways
GPS Clock Adjustment	GPS and NTP Dual Timing
СРИ	TI ARM Cortex-A8 1G Industrial Processor
Flash Memory	512MB
Agreement	Jetfile II / GBT-20999
Interface	RS232 / RS485 / Dual Gigabit Network Port, Design of Operating System and SQL Database Based on Linux 4.0









Specification

Model	TSU-303B	
Dimension (mm) (L×W×H)	850×850×3000	
Height	Cannot be lifted	
Weight	220Kg	
Tire (Inch)	5"	
Lifting Device	NO	
Battery	12V / 100AH Quantity: 2	
Solar Panel	12V / 45W Quantity: 2	
AC Charger	Standard Accessory	
Remote Controller	Standard Accessory	

TSU-205C

Feature

- The Solar-powered Mobile Traffic Signal Stand is built with four groups of \$\phi200mm\$ traffic signals facing four directions respectively
- and each group can comprise of up to 5 signal aspects

 The LCD monitor on the control panel with intersection setting simulating function makes site operation easy and fast. The users can use a remote controller to set the phase automatically or manually, and to lift up and lower down the LED traffic signal mast.
- The height of signals can be adjusted by the electrical hydraulic lifting system from 2200mm to 3500mm. Even at the maximum height of 3.5m, the whole system remains firm and steady
- Auto brightness control according to the ambient brightness is
- The Mobile Traffic Signal Stand is designed and built as a trailer. It can be pulled by a truck
- Both dragging arm and auxiliary support wheels are retractable. Four retractable supporting kickstands can be fixed on the ground by

to make the system stand on the ground firmly





Hand-held remote controller

Controller



Application

The mobile traffic signal gives clear road instructions to drivers at temporary intersections to improve road efficiency and avoid traffic jams. It is mostly used at school zones during rush hours, temporary power failure at an intersection, or intersection under construction.

The mobile traffic signal with trailer can be easily used whenever and wherever with DC power. It is an efficient solution for road construction sites at a lower cost.

Model	TSU-205C	
Dimension (mm) (L×W×H)	1640×1162×2414	
Maximum Height	3500mm	
Weight	450Kg	
Tire (Inch)	13"	
Lifting Device	Hydraulic Cylinder	
Battery	12V / 100AH Quantity: 2	
Solar Panel	12V / 45W Quantity: 2	
AC Charger	Standard Accessory	
Remote Controller	Standard Accessory	

Application

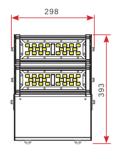
a clear but soft sight.

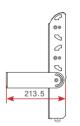
Product Feature

- Adopts high-power white light source and rectangular light sport design for scientific light distribution
- High luminous efficiency and energy saving
- High-quality aluminum alloy enclosure ensures good thermal
- Lamp and enclosure separation design. No need to use any tool for maintenance
- IP65, withstand the rough environment



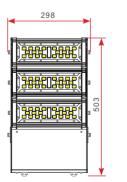
Drawing



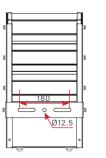




120W





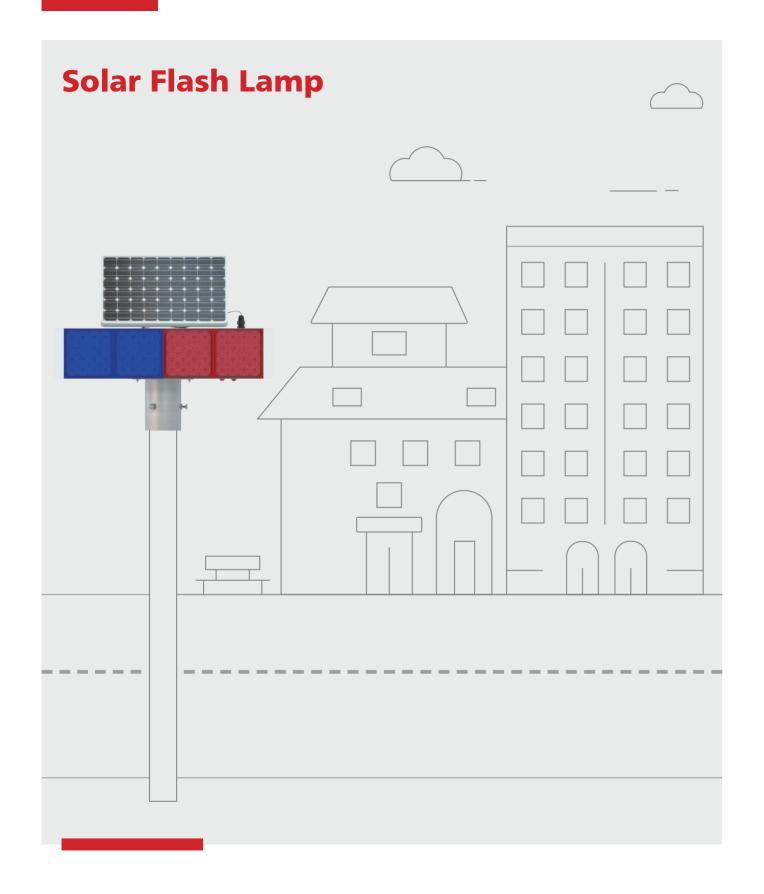


Model	Input Voltage	Power Input	Lumen	Color Temperature
CZ-SD-80A	100-240VAC/278VAC	80W	10000lm	
CZ-SD-120A		120W	15000lm	0000 05001/
CZ-SD-160A		160W	20000lm	3000-6500K
CZ-SD-240A		240W	30000lm	









Application

Solar flash lamp is mainly used for alerting drivers and pedestrians in roadsections with potential traffic safety hazards, such as intersections, curve roads, bridges, roadsides of villages, schools, residential, areas, factories and other hazardous locations.







Solar Flash Lamp	
Model	CS-SW-404B-M
Tube Pitch Diameter (mm)	80 / 100
Optical Characteristics	
Display Mode	Red and Blue Light Flashes Alternately and Quickly
Color	Red; Blue
Physical Characteristics	
Shell Material	Aluminum, SPCC (Electrostatic Spray Outdoor White)
Working Temperature (°C)	-40°C to +65°C
IP Rating	lp65
Visual distance (m)	≥1000
Electrical Specifications	
Solar Panels	18V / 12W Solar Panels
Battery	12V / 7AH Maintenance-Free Lead-acid Batteries
Power Consumption	≤12W

















Lite Pro III perfectly displays image details with low brightness. Equipped with delicate color management technology and advanced image gap-covering technology guarantees its HD display effect. It can apply to video conferences, control rooms, broadcasting and TV station, etc.

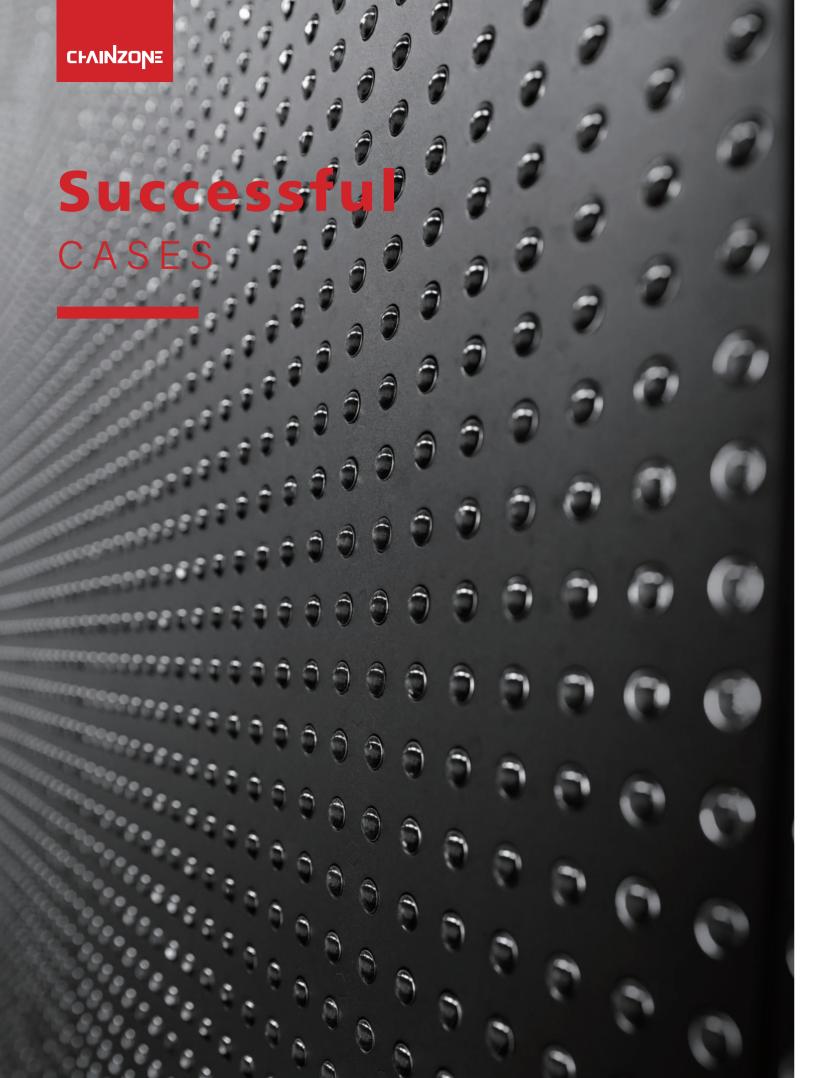
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Feature

- 16:9 golden ratio cabinet
- Ultra-thin cabinet with only 32mm thickness
- High precision with die-cast aluminum cabinet
- Smart magnetic design, 100% easy front service

Lite Pro III Series						
Model	LPR III-0.9	LPR III-1.2	LPR III-1.5	LPR III-1.8	LPR III-2.5	
Pixel Pitch (mm)	0.9375	1.25	1.5625	1.875	2.5	
Size of Module (mm) (H×W)	168.75×300	168.75×300				
Resolution of Module (pixels)(H×W)	180×320	135×240	108×192	90×160	135×120	
Size of Cabinet (mm) (H×W×T)	337.5×600×25	337.5×600×25				
Resolution of Cabinet (pixels) (H x W)	360 x 640	270 x 480	216 x 384	180 x 320	135 x 240	
Weight (kg/m²)	4.5kg	4.5kg				
Brightness (cd/m²)	400 nits	500 nits	500 nits	600 nits	800 nits	
Grey Level	14 bit-16 bit	14 bit-16 bit				
Contrast Ratio	5000:01:00	5000:01:00 5000:01			000:01:00	
Viewing Angle	160°	160°				
Maintenance	Front	Front				

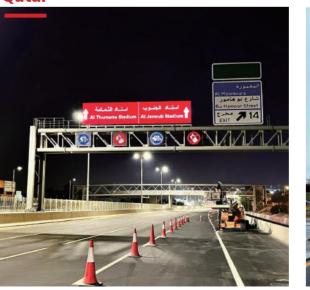




Hong Kong-Zhuhai-Macau Bridge, HongKong·China











Colombia







Hungary



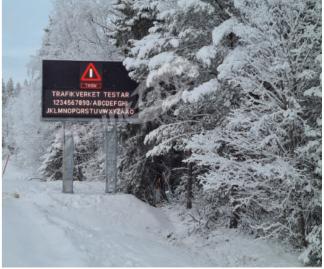
Malaysia



Malaysia



Sweden



Azerbaijan



Hong Kong-Zhuhai-Macau Bridge, HongKong·China



India



Sweden





Austria



Latvia

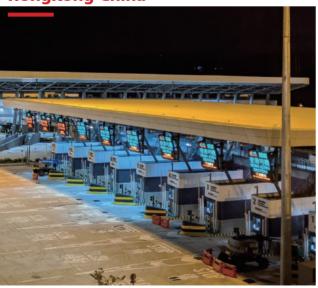




HongKong·**China**



HongKong·**China**



Netherlands



Netherlands



Norway



HongKong·China



UK





Singapore



Dubai



Canada







Ethiopia







Foshan, China





