CHAINZONE

EN 12966 Variable Message Traffic Sign Datasheet

Application

The variable message sign is a useful media to alert motoway users when there are abrupt changes in traffic patterns, road conditions, emergencies or special events. The application of VMS on the 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/tunnel construction, work zone, parking lot guidance, and etc.

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VMS Model	LCS10M-128x128-RGB		
Standard	EN 12966:2014, EN 12966-1:2005 +A1:2009		
Display Specifications			
Pixel Pitch (mm)	10		
LED Matrix	3in1 RGB SMD LED per pixel		
LED Composition	SMD + Lens		
Display Area (HxW mm)	1,280 X 1,280		
Screen Resolution (HxW pixels)	128 X 128		
Basic LED Module Size (HxW mm)	160 X 320		
Basic LED Module Dots (HxW pixels)	16 X 32		
Quantity of LED Modules (HxW pcs)	8 X 4 = 32		
Size of the whole VMS (HxW mm)	1,420 X 1,420		
Display Color	Full Color		
Font Support	Vietnamese/English (Unicode)		
Optical Characteristics			
Conformity	EN12966 Compliance (L3/L3*/R3/C2/B6/T1/T2)		
Beam Width	EN12966 Class B6 (H: ±15°, V: -10°)		
	EN12966 Class I 3/I 3* (Red: > 3100 cd/m² Green: > 3720 cd/m² Rlue: > 1240cd/m² Vellow: > 7440		

Beam Width	EN12966 Class B6 (H: ±15°, V: -10°)
Liminance	$EN12966 \ Class \ L3/L3* \ (Red: \ge 3100 \ cd/m^2, \ Green: \ge 3720 \ cd/m^2, \ Blue: \ge 1240cd/m^2, \ Yellow: \ge 7440 \ cd/m^2, \ White: \ge 12400 \ cd/m^2)$
Contrast Ratio	EN12966 Class R3
Color	EN12966 Class C2

Physical Characteristics	
Cabinet Material	Aluminum
Enclosure surface	Powder coated for Exterior of the Cabinet
Power coated Color	Front Matte Black(RAL9005)+Back Sand Grey(RAL7042)
Working Temperature	T1, T2 (-25°C ~ + 60°C)
Humidity Range	99% RH
Mechanical Protection	IP 66
Maintenance	Back Maintenance

Electronic Specifications		
Working Voltage	110V~230V AC (50±1Hz)	
LED lifespan	≥ 100,000 hrs	
Max Power Consumption @12,400 nits	≤ 437W	
Average Power Consumption	≤168W	
Brightness Control	100 levels Auto/Manual Control	
Internal maintenance Lighting	Yes	
Integrated watch-dog circuit	Yes	
Internal temperature detection of LCS	Yes	
Power error detection	Yes	
Image sensor error detection	Yes	
Pixel error detection	Yes	
Detect open door	Yes	
Network communication detection	Yes	
API/SDK Support	Yes	
Communication	RS232/RS485(DP9), Ethernet (2 x 10/100BASE-T/TX RJ-45)	
Control Protocol	TCP/IP, NTCIP	
Network Protocol	NAT, OSPF, IGMP, SMTP, SMTPS (Optional)	
Secure Communication Protocol	GRE, IPSec, SSL (Optional)	

Job Reference

