STARVIEW ASIA
TECH FOR A BETTER WORLD

VC-20-RGB-EU SERIES

VARIABLE MESSAGE SIGN

DESCRIPTION

- The VC-20-RGB-EU Series Variable Message Sign (VMS) utilises the latest in LED technology to achieve an elegant solution to deliver clearly visible signage for urban traffic management applications.
- Built on a modular design philosophy, the VC-20-RGB-EU Series VMS is scalable in size to fit most applications. It's fully EN 12966 compliant[1]. The RGB full colour matrix technology ensures that either static images or video can be clearly seen even in the brightest of sunlight.
- By using an innovative post and enclosure design, the sign is available with multiple mounting options and allows for colour customisation of the assembly to meet individual customer preferences. The powder coated aluminum fabrications are designed to withstand the rigours of the weather.
- The system architecture is based on the latest Internet of Things (IoT) compatible protocols while remaining compatible with UTMC, and legacy interfaces.

KEY FEATURE

- Lightweight, quick-detach modules for easy rear-side access to components.
- Chip of LED uses SMD LED 3-in-1 with high performance.
- Continually-cooling, forced-air ventilation for increased VMS longevity.
- Allows display of any language.
- IP67 protection against environment influences.
- Conforms to all relevant subsets of NTCIP standards.
- Integrates with Ethernet (wire or fiber) via TCP/IP protocol.
- Sign display is assembled with LED Cabinets. LED Cabinets form the LED matrix.
- Full solution design for ITS applications, including VMS controller and VMS Server.
- Turn on/off VMS sign remotely via LAN network.
- VMS temperature status (High temperature warning sign VMS).
- Power failure warning.
- Auto balance brightness.
- Cabinet door status (close/open).
- Hardware high temperature/smoke warning.
- Network communication status.
- Fan system failure warning.
- Photo sensor (light measuring device) error warning.
- Pixels failure warning (Detect location and color at pixel defect point).
- API/SDK support for 3rd party integration.

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VMS APPLICATION

Starview offers a wide range of VMS products for any roadway application. The VC-20-RGB-EU Series can display character heights, as well as the viewing angles and industry-accepted brightness to ensure VMS legibility in any roadway setting.

TOOLING STATION

Provide clear instructions, organize lanes and increase safety with full-color, high-resolution VMS. Available in many sizes and resolutions, these intelligent displays establish a valuable visual connection as motorists approach toll facilities.

MANAGED LANES

These smaller, economical VMS display symbols, text and numbers, instantly directing traffic to the most convenient lane and maximizing the benefits.

TUNNELS

Maximize safety by preparing traffic for constricted passages, construction zones and more.

PARKING GUIDANCE

Minimize circulation congestion by guiding drivers to available parking facilities.

URBAN ROADS

Increase safety and efficiency by providing wayfinding and guidance through congested urban areas.

FREEWAY

Convey clear, effective messages to high-speed traffic with Starview VMS.

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Technical specifications		VC-20-RGB-EU SERIES
Pixel Configuration		RGB 3-in-1 (Full color)
Chip of LED		SMD
Pixel Pitch		20 mm
Pixel Density		2,500 Pixels/m²
Cabinet Size (W x H) (Customize)		1280 x 1280 mm; 960 x 960 mm; 640 x 640 mm
Cabinet Design		Powder Coated Aluminum Cabinet
Module Size (W x H, mm) (Customize)		320 x 320 / 320 x 160 / 160 x 320 / 160 x 160
Module Resolution (W x H, pixel)		16 x 16 / 16 x 8 / 8 x 16 / 8 x 8
Driver IC		MBI5034
Contrast Ratio		5,000 : 1
Brighness Level		Auto/Manual: 256 Levels
Optical Performance	Luminance	EN 12966 class L3, L3 (*), L3 (T)[2]
	Luminance Ratio	EN 12966 class R3[3]
	Beam Width/View Angle	EN 12966 class B6[4]
	Uniformity	EN 12966-1:2025 + A1:2009[5]
Chromaticity Coordinates: Colour		EN 12966 class C2[6]
Color Temperature		6,500K ±500K
Refresh Rate (Adjustable)		3840 Hz
Gray Scale/ Color		12 bit Color Processing Depth
Service Access		Front/Rear Access
LED Lifetime		100,000 hours
MTBF		100,000 hours
Protection		IP67
Control Method		Synchronized with computer monitor
Control Distance		120 m (no repeating); Optical fiber transmission: 500m - 10km
Way of Drive		Static Scan
Operating Temperature		-30°C ~ 60°C
Operating Humidity		99% RH non-condensing
Protocol		TCP/IP
Communication		NTCIP (Option)
Power Consumption (Typ)		240W/m²
Line Voltage		AC100 ~ 240V @50/60Hz

ORDER INFORMATION

Model	Description
VC-x-y-20-RGB	x: Width resolution of the screen y: Height resolution of the screen

EXAMPLE

Model	Screen Size	Screen Resolution
VC-384x64-20-RGB	7,680 x 1,280 mm	384 x 64 pixel
VC-88x64-20-RGB	1,760 x 1,280 mm	88 x 64 pixel
VC-64x64-20-RGB	1,280 x 1,280 mm	64 x 64 pixel
VC-1152x144-20-RGB	23,040 x 2,880 mm	1,152 x 144 pixel
VC-480x96-20-RGB	9,600 x 1,920 mm	480 x 96 pixel
VC-288x64-20-RGB	5,760 x 1,280 mm	288 x 64 pixel

[1,2,3,4,5,6] *The listed certifications are issued for markets in different regions. For the current status of the listed certifications in your region, please contact an authorized Starview representative.*

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Performance specifications are typical. Due to constant research, specifications are subject to change without notice. For the most up-to-date specifications, please contact an authorized Starview representative.

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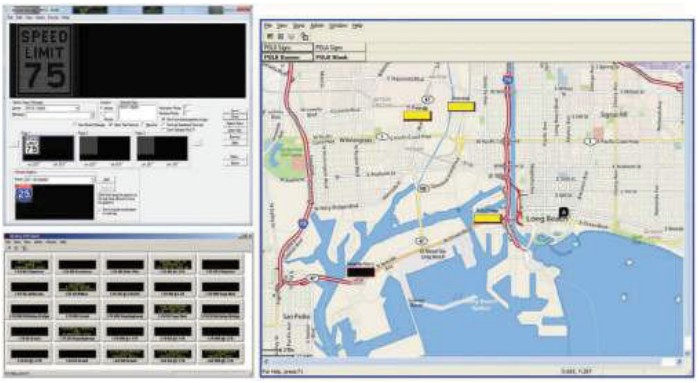
VMS CONTROLLER SOLUTION

VMS CONTROLLER

Key Features

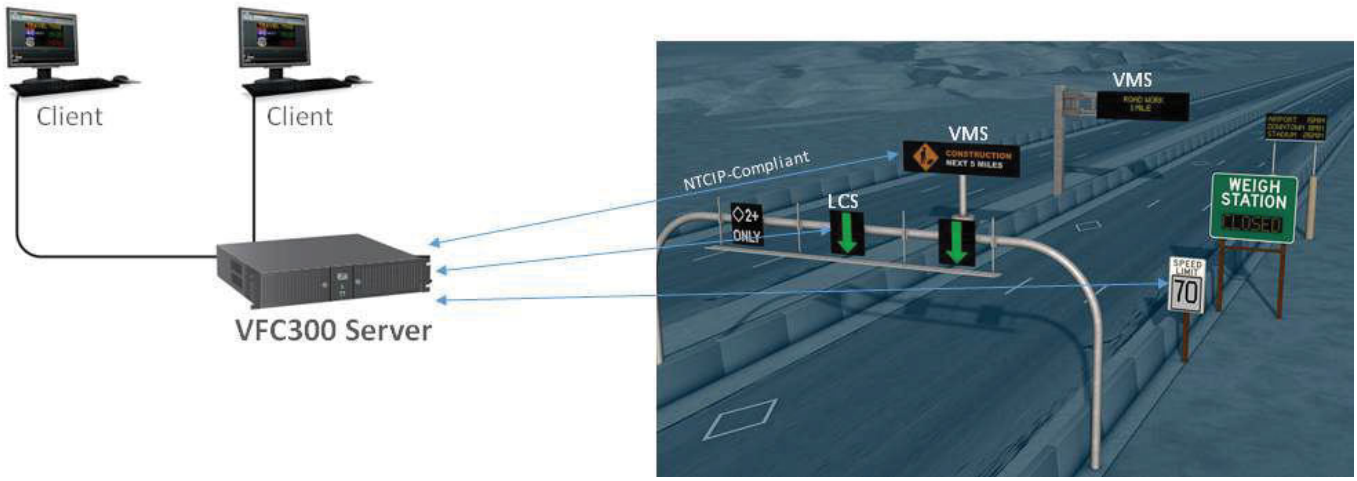
- Support the external connection of eight element environmental sensor R68 through 485 interface to display environmental information without secondary development.
- Support optional 4G modules. The models of modules in different countries are different. Please provide the country of use for shipment. Support optional 4G modules. Different models fits for different countries. Please confirm the country before shipment.
- Onboard WiFi module for wireless communication.
- Support AP mode and Station mode.
- Built in web server, it supports local web page production, program release and display control of PC, mobile phone, pad and other user terminals, cluster remote program release and display control, and cluster remote monitoring of screen status.
- The timing switch, volume and brightness can be set centrally through the management system.
- Support to play programs according to the program list.
- The timing switch, volume and brightness can be set centrally through the management system.
- Support USB camera.
- Support NTP precise automatic timing.
- Software kit: Cloud publishing platform, Starview PC software.

VFC300 SERVER



Software Features

- Terminal control
- Media contents management
- Programing
- Check Task
- System Log
- GPS/Map Task Management
- User Management
- Maintenance Services schedule
- Screen Shot function
- Realtime Massage (DMS)
- Task Program
- GPS Task Function
- Live Video
- Screens Switching
- Screen Brightness contro
- Voice Volume Control
- System Group Management
- System Configuration setting
- Hardware status management
- Switching Function Warning
- Online system updates
- Reboot function
- Terminal transfer function
- Upload Player Logs
- HTML Loading
- Videos Monitoring



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