

# VC-5-RGB SERIES

VARIABLE MESSAGE SIGN

## ABOUT STARVIEW VMS PRODUCTS

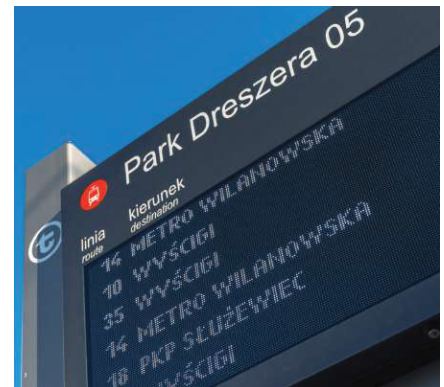
The Starview Variable message sign (VMS) is an NTCIP-compliant solution for applications requiring a light-weight package with an extended viewing angle. Starview VMS products fit any ITS application and offer industry-critical reliability, legibility, and serviceability.

Featuring an innovative high-contrast full-matrix design, the VC-5-RGB Series provides legibility ideal for locations such as arterial roads and toll booths. The sign's modular design allows it to be built in many sizes. Available in amber or full color, the display's full-matrix configuration creates larger characters and graphics.



## KEY FEATURES

- 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.
- IP66 protection against environment influences.
- Conforms to all relevant subsets of NTCIP standards.
- Integrates with Ethernet (wire or fiber) via TCP/TP 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.
- API/SDK support for 3rd party integration.
- VMS temperature status.
- Signage Control and Status Monitoring Features (Option):
  - VMS temperature status.
  - Power failure warning.
  - Auto balance brightness.
  - Cabinet Door status (close/open).
  - Turn on/off VMS sign via LAN network.
  - Network communication status.
  - Fan system failure warning.
  - Photo sensor (light measuring device) error warning.
  - Pixels failure warning (cameras scanning).



## VMS DISPLAY TECHNOLOGY

Starview brings outdoor LED video to the next level with its SMD LED display solution. Designed for premier organizations that can accept only the highest image quality at the closest viewing distances, this product takes advantage of 3-in-1SMD (surface-mount device) LED technology to produce exceptional brightness, unsurpassed viewing angles and incredible picture detail. Designed and manufactured by Starview, it offers the reliability, longevity and peace-of-mind that only an industry leader.

## EFFICIENT DESIGN

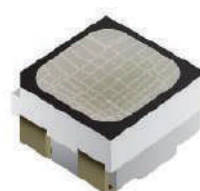
Outdoor SMD technology allows for tight line spacings previously unavailable in outdoor applications. The resulting high-resolution displays with exceptionally manageable form factors are ideal for high-profile marquee and sports applications.

## VIEWING ANGLE

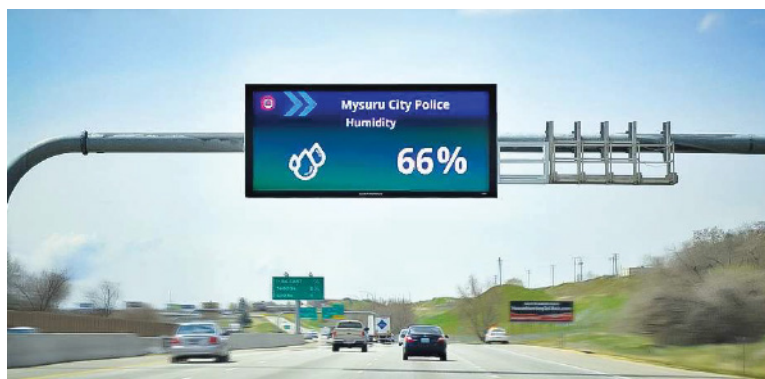
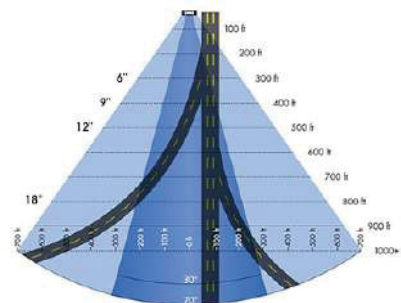
CONSIDERATIONS Road configurations and VMS locations affect VMS legibility. Wide viewing angle of up to 160 degrees for roadside position, broad roadways and municipal streets. Recent LED technology developments allow agencies to install VMS with LEDs that have a greater viewing angle rather than tilting the modules.

## RESOLUTION

Means the number of pixels in the physical area of the VMS. The greater the number of pixels per square meter, the greater the amount of detail displayed. Factoring in viewing distance, VMS used in roadway applications typically require high resolutions is best.



SMD LED 3-in-1



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## VMS APPLICATIONS

Starview offers a wide range of VMS products for any roadway application. VMS VC-5-RGB Series can display character heights, as well as the viewing angles and industry-accepted brightness to ensure VMS legibility in any roadway setting.



### URBAN ROADS

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



### 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.



### FREEWAY

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



### TOOLLING 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.



### PARKING GUIDANCE

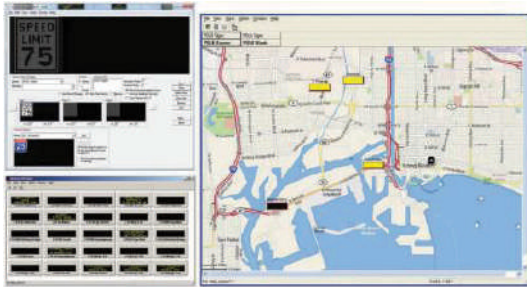
Minimize circulation congestion by guiding drivers to available parking facilities.

## VMS CONTROLLER SOLUTION

### KEY FEATURES: VMS CONTROLLER

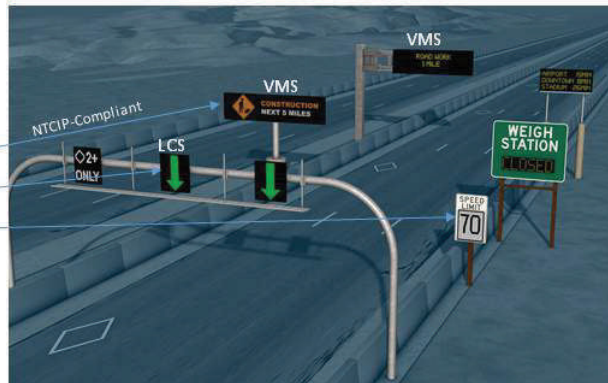
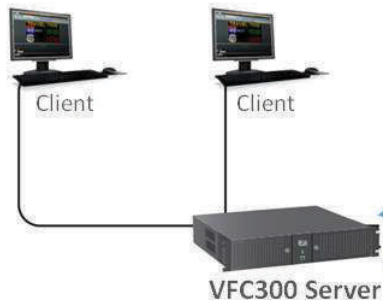
- Support the external connection of eight element environmental sensor R68 through 485 interface to display environmental information without secondary development.
- Support optional 4G modules. The models of modules in different countries are different. Please provide the country of use for shipment. 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
- Programming
- Check Task
- System Log
- GPS/Map Task Management
- User Management
- Maintenance Services schedule
- Screen Shot function
- Realtime Message (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



## Technical specifications

## VC-5-RGB SERIES

Model	VC-5-RGB-CN	VC-5-RGB-KR
Pixel Configuration	RGB 3-in-1 (Full color)	
Chip of LED	SMD	
Pixel Pitch	5 mm	
Cabinet Size (W x H) <sup>1</sup>	Normal: 960x960 mm, 1600x1120 mm, 2560x1120 mm. Special: Custom size on request	
Module Size (W x H)	320 x 160 mm	
Module Resolution	64 x 32 pixels	
Cabinet Design	Slim Aluminum Cabinet	
Driver IC	MBI5034	
Contrast Ratio	6000:1	6500:1
Brightness	5000 cd/m <sup>2</sup>	6500 cd/m <sup>2</sup>
Brightness Level	Manual/Auto: 256 levels	
Color Temperature (Adjustable)	6500 ± 500°K	
Scan Mode	1/8	
Data Transfer Method	RJ45	
Frame Rate	> 60 frames/sec	
Refresh Rate (Adjustable)	3840 Hz	
Display Color	1.07 billion colors	4.39 trillion colors
Viewing Angle (H/V)	160°H / 160°V	
Service Access	Front or Rear	
LED Lifetime	> 100,000hrs Typ	
Protection	Double - Door Cabinet with IP66 Design	
Operating Method	Manual/Auto mode	
Operating Temperature	-30° to 60°C	
Operating Humidity	5% ~ 99% RH	
Protocol	TCP/IP	
Communication	NTCIP (Option)	
Power Consumption	750W/m <sup>2</sup> Maximum; 240W/m <sup>2</sup> Average	
Line Voltage	AC100 ~ 240V @50/60Hz	
Certifications <sup>2</sup>	EN12966 (Option)	

<sup>1</sup> Cabinet sizes can be customized according to design

<sup>2</sup> 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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