

# SA-KLED-VC10RGB

VARIABLE MESSAGE SIGN



## ABOUT STARVIEW VMS PRODUCTS

Everyone entering the city by car dreams about easy journey without traffic jams, car accidents, inhalation of exhaust fumes, or road repairs. Variable Message Signs are a solution that can increase traffic flow and reduce the impact of unwanted phenomena. That is why the number of VMS systems is growing rapidly. The Starview company can manufacture any type of Variable Message Signs. Our engineering solutions extend the VMS lifecycle up to 10 years thanks to specially selected components. The devices are energy efficient and can emit multiple signals depending on traffic conditions and the needs of road administration. Their excellent visibility on the road, regardless of the season or weather conditions, remote control via LAN or GSM with TCP/IP protocol, and our own management software are the advantages of Starview VMS solutions.



## 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/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 via LAN network.
- VMS temperature status.
- 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 (cameras scanning, option).

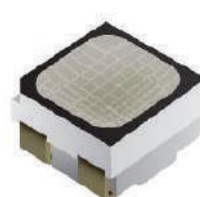
### VMS DISPLAY TECHNOLOGY

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

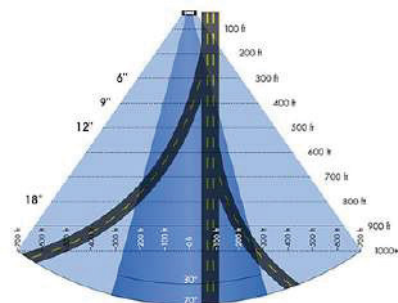
Outdoor SMD technology allows for tight line spacings previously unavailable in outdoor applications. The resulting high-resolution displays with exceptionally manageable form factors are ideal for high-profile marquees and sports applications.



SMD LED 3-in-1

### 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.



Starview offers a wide range of VMS products for any roadway application. VMS EVH 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.



### FREEWAY

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



### MANAGED LANES

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



### 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.



### TUNNELS

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



### PARKING GUIDANCE

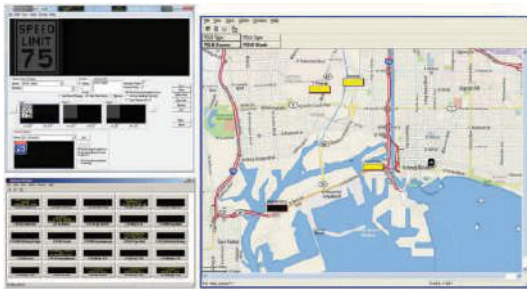
Minimize circulation congestion by guiding drivers to available parking facilities.

## 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.
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- Support USB camera.
- Support NTP precise automatic timing.
- Software kit: Cloud publishing platform, Starview PC software.

## VFC300 SERVER



- Task program
- GPS task function
- Videos monitoring
- HTML loading
- Live video
- Upload player logs

### 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 message (DMS)
- Screens switching
- Screen brightness control
- Voice volume control
- System group management
- System configuration setting
- Hardware status management
- Switching function warning
- Online system updates
- Reboot function
- Terminal transfer function



**Technical specifications****SA-KLED-VC10RGB**

Pixel Configuration	SMD2323, RGB 3-in-1 (full color)
Chip of LED	Nationstar LED with Copper wire
Pixel Pitch	10 mm (P10)
Module Size (W x H)	320 x 160 mm
Cabinet Size (W x H) (Custom)	1280 x 1280 mm 960 x 960 mm 640 x 640 mm
Module Resolution	32 x 16 pixels
Cabinet Design	Slim Aluminum Cabinet
Driver IC	2033 IC
Contrast Ratio	4000:1
Brightness	7500 cd/m <sup>2</sup>
Brightness Level	Manual/Auto: 256 levels
Color Temperature (Adjustable)	6500 ± 500°K
Scan Mode	1/2 static
Data Transfer Method	RJ45
Frame Rate	> 60 frames/sec
Refresh Rate (Adjustable)	3840 Hz
Gray Scale/ Color	4096 Gray levels/ 1.07 Billion colors
Viewing Angle (H/V)	160°H / 160°V
Service Access	Front or Rear
LED Lifetime	> 100,000 hrs 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	TCP/IP
Power Consumption	750W/m <sup>2</sup> Maximum; 230W/m <sup>2</sup> Average
Line Voltage	AC100 ~ 240V @50/60Hz

For technical or sales support, please visit:

**[www.starviewint.asia](http://www.starviewint.asia)**

*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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