

DRAFT



5-INCH MONITOR SYSTEM

Part # SM05S

Standard Duty



Just View It!

Please read this manual completely before operating the SYSTEM

A division of

Component Solution Services, LLC.
56600 Twin Branch Dr.,
Mishawaka, IN 46545
www.VerityRVS.com



© 2019 Verity Rear Vision Systems

Component Solution Services, LLC offers the Verity Rear Vision Systems® (Verity) to meet any requirements and price point within the trucking, specialty vehicles, and RV industry. Verity is also home to the Supreme View® line of specialty format systems. Our standard cabled systems offer unparalleled features into the trucking and RV industries. Designed for professional drivers, Verity develops and markets products and applications to transmit video, audio, and data either individually or in any and all combinations. The company has also developed, manufactured, and marketed different kinds of personal and vehicle video cameras, DVRs, and accessories for the commercial transportation, fire/rescue, and marine OEM markets.



Think Safety

Read our manual before operating
or installing.

Most likely, your system came pre-installed so the installation section would be for reference.

Thank you for your purchase of our Verity Rear Vison System SM07S. When installed and used properly, your SM07S is designed to deliver you years of trouble-free operation. This manual contains important information required to properly install and operate the unit. Verity units are designed for quick installation by trained professionals in proper installation environments. Our designs are based on decades of working with vehicle manufacturers.

Verity products are intended to be installed as a supplement and our observation systems and/or products are not intended for use as substitutes for rear-view mirror devices, or for any other standard motor vehicle equipment which may be required to be installed on vehicles by law. Verity products promote improving the vehicle operator's field of view. Our products are no substitute for proper defensive driving techniques, observance of traffic laws, and motor vehicle safety regulations.

Installation Location

It is unlawful in most locals for any person to drive a motor vehicle equipped with a television viewer/screen located at any point forward of the back of the driver's seat (or in any location that is visible, directly or indirectly) to the driver while operating the vehicle. Our systems are designed to be used primarily as a rear observation device.

DO NOT OPEN ANY COMPONENT. There are no serviceable parts inside any of the components of the SM07S. Opening the product will break the tamper indicators and void the warranty. Contact our tech support if a problem should arise 574-807-6002. For faster response, fill out a service ticket found on our website.

WARNING

- ◆ Do not place heavy objects on cables or cover them with carpet or mats.
- ◆ Do not place cables where they can be crushed in any manner.
- ◆ Our systems are designed as a driving aid. Watching videos, broadcasts, DVDs and/or any images other than intended driving assistance cameras is prohibited.

CAUTION

- ◆ To avoid damage to the electronic circuit, stop using this product while doing welding work to the vehicle and/or trailers.
- ◆ Never immerse any component in water, and do not employ spray cleaners. When cleaning, use a damp lint-free cloth only.
- ◆ Connect this unit only to other compatible devices.
- ◆ Although our products have built-in surge and cross polarity protection, make sure all cables are connected properly; improper cable connections may damage the camera and the monitor.
- ◆ Cables should not be allowed to touch hot or rotating parts, such as the engine, ventilator, etc.
- ◆ Do not locate the monitor near heat generating vents or devices.
- ◆ Turn off power to the monitor when connecting the camera.

Monitors are not designed to be waterproof. (Our SM07F waterproof monitor is the exception). Exposure to water, such as rain, may damage the unit.

SYSTEM FEATURES

MONITOR SPECIFICATIONS

(Monitor part #MK05S)

Screen size: 5-inch digital screen (16:9)

High Resolution: 800 × 480 Pixel (RGB)

System: PAL/NTSC selectable

Contrast: 400:1

Brightness: 450 cd/m²

Power supply: DC 12V~24V with reverse polarity protection

Operation temperature: -30°~80°C

Storage temperature: -20°~70°C

Monitor view angle: Horiz. L(70) R(70) Vert. UP(50) DOWN(70)

3 AV with shrink labels trigger wires,

Auto blue screen if no signal on activated channel.

Size: 141 x 103 x 25 mm. Weight: 418 g.

Features: Removable HD sunshade, LED blue light buttons, high quality processor, in-line waterproof fuse, easy to use OSD menu function via buttons:

Mirror/Normal image, plus horizontal flip, multi-language, speaker

CAMERA SPECIFICATIONS

(Camera Part #C001S)

Horizontal Resolution: 600 TV Lines

TV System: NTSC

Image Type: 1/3 Inch Color CCD Sharp® (or equivalent)

(no cheap off brands used)

Effective Pixel: 510 x 492

Illumination: 0 Lux (built-in 17 high output IR LEDs for night vision)

Aluminum Housing

Waterproof: IP69K

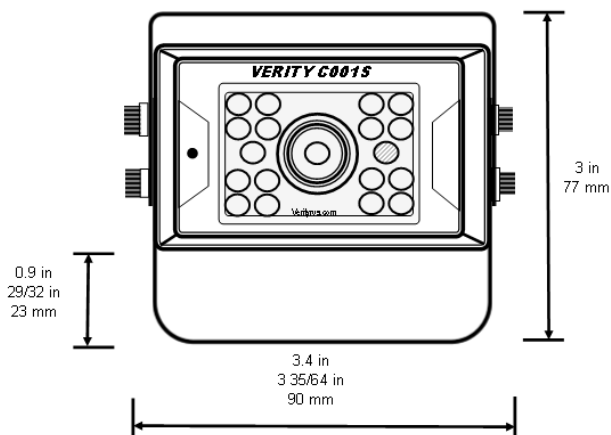
Power Supply: DC 12V (power from monitor)

Shockproof: 10G

Operating Temperature: -40°~70°C

Built-in Microphone

Viewing Angle: 170°



SYSTEM COMPONENTS



5-Inch Digital Flat



Manual



Infrared Weatherproof Camera



20-Meter Camera



13-pin to 4-pin Monitor
Harness



“Fan” Style Mount

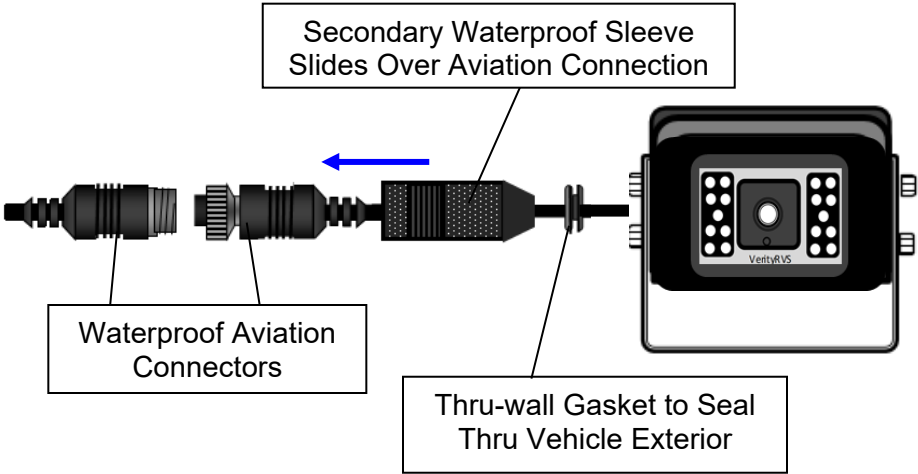
SYSTEM COMPONENTS

This monitor can be mounted on the dash and can be mounted on both horizontal and vertical surfaces. Make sure the view is suitable to the driver to observe the images. Take care not to block any necessary viewing area when mounting. Before mounting the system, permanently hook up all connections to ensure proper operation.

Mounting Monitor

1. After determining the monitor location, position the monitor support bracket, mark the bolt hole location, and then drill the holes. Be careful not to drill into any other surface that may be hidden.
2. Attach monitor Fan bracket
3. Connect one end of the power cable (wire) to the proper connections. Connect the other end of the power cable (plug) to the monitor; connect the monitor and the camera with the 13-pin system connecting cable.



Camera Connection



MONITOR OPERATIONS

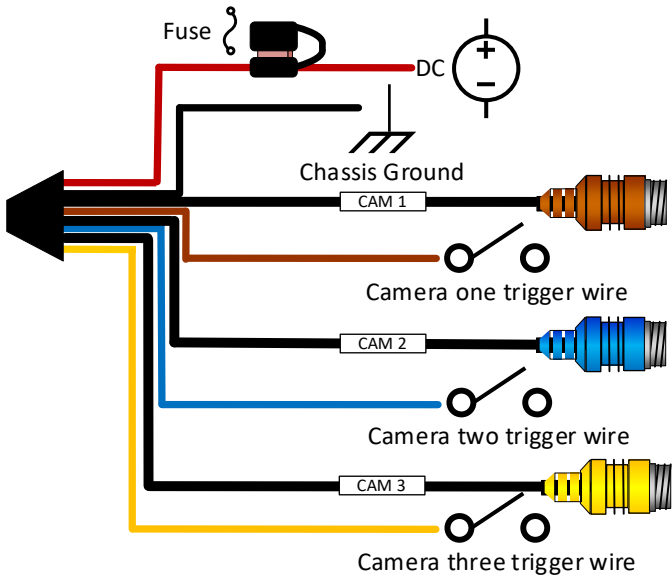


Buttons from left to right

1. CAM switches cameras manual CH1 (default) CH2, CH3
2. Menu Control Button
3. Power Off/On button - Red color is stand-by- Blue is powered
4.  Volume Decrease / Menu Down
5.  Volume Increase / Menu Up

Monitor will turn on if trigger wire is activated.

CONNECTION OPERATIONS



SM05S Wiring

Wire Connection Key:

Red wire to Ignition hot (+) 10-24v. DC

Black wire to GND (-)

Brown trigger wire for camera 1 to backup light

Blue trigger wire for camera 2 to turn signal relay

Yellow trigger wire for camera 3 to other turn signal relay

MENU OPERATIONS

The folowing are examples of how the menus work.
The down and up arrow buttons control decrease and increase.



Menu Press 1 time

1. PICTURE: Brightness, displays on screen.

BRIGHTNESS
|||||..... 30



Menu Press 2 times

2. CONTRAST: Contrast, displays on screen.

CONTRAST
|||||..... 30



Menu Press 3 times


3. COLOUR (Color): displays on screen.

COLOUR
|||||..... 30




Menu Press 4 times

4. VOLUME: displays on screen.

Menu Press 5 times 

5. ZOOM The   buttons to toggle 16:9 4:3 image ratio

Menu Press 6 times 

6. ICON Image Orientation:
Flips each camera image individually both horizontally and vertically. Allow for correct image of interior/forward facing cameras.



Menu Press 7 times 

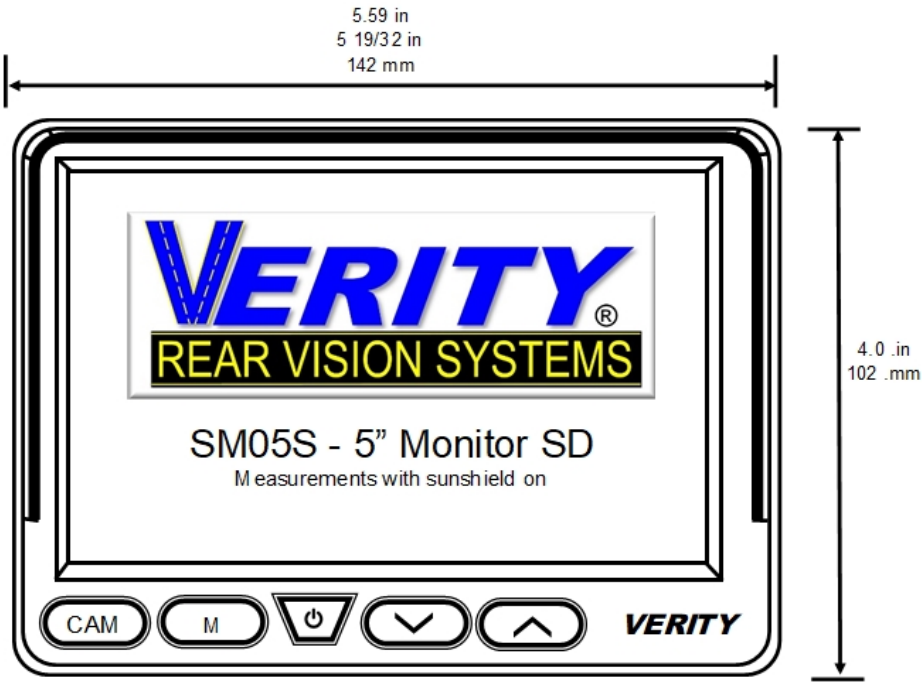
7. LANG (LANGUAGE): “Show English as primary language” displays on screen.

LANG ENGLISH

Menu Press 8 times 

8. RESET: Resets monitor to factory setting

SYSTEM DIMENSIONS



SM05S - 5" Monitor
Measurements with sunshield on



Verity Rear Vision Systems
A division of
COMPONENT SOLUTION SERVICES (CSS)
LIMITED ONE (1) YEAR WARRANTY

1. VerityRVS products' warranties are not transferable. The warranties apply to the retail consumer for one (1) year and covers against defects in material and workmanship. Cables are not warrantied.
2. Defective components will be replaced or repaired, based on a VerityRVS evaluation of the component. In-bound shipping charges, based on the VerityRVS rate allocated in the RMA (returned merchandise agreement), will be covered once the component has been deemed defective at the CSS warranty facility. The pre-assigned in-bound freight will be supplied upon return of product. All repaired/replaced warranty parts shall be for the remaining duration of the original warranty time period.
3. VerityRVS takes pride in our products and will aid in the processing of your components:
 - a) All warranty claimants must have consulted our technical support department for trouble shooting and the acquiring of an RMA. Contact can be made via email at techsupport@verityrvs.com or call 574-807-6002.
 - b) When the warranty claim is made, the consumer must establish the warranty start dates by presenting documentation regarding the date of retail purchase (e.g., bill of sale).
 - c) Service performed by non-authorized service personnel may void all warranty claims.
 - d) VerityRVS will make no payments for system removal / system re-installing, mileage allowance, or transportation expenses.The limited warranty does not cover damage resulting from misuse, accident, modification or alteration to hardware or software, tampering, unsuitable physical or operating environment beyond product specifications, improper maintenance, or failure caused by a product for which VerityRVS is not responsible. There is no warranty for any product with removed or altered identification labels. VerityRVS DOES NOT PROVIDE ANY OTHER WARRANTIES OF ANY KIND, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. SOME JURISDICTIONS DO NOT ALLOW THE LIMITATION OF IMPLIED WARRANTIES, SO THIS LIMITATION MAY NOT APPLY TO YOU.
4. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

DRAFT

Technical Support

A service ticket can be filled out online to supply the quickest service. The service ticket can be easily found on our web site www.VerityRVS.com or use the 3-D code below. Please have the serial number of the system which is found on the back of the monitor when contacting the service department. We take great pride in delivering the most dependable product in the industry. Each item was 100% QC tested and then we randomly recheck another up to 10% before it leaves our hands to you. We have a .034% issue rate with this product.



Email Tech Support: techsupport@verityrvs.com

Phone Tech Support: 574-807-6002

Note: if you are a fire/rescue customer in need of tech support after hours or on weekends, leave a message and a technician will return your call as soon as one becomes available.



a division of

Component Solution Services

56600 Twin Branch Dr.,

Mishawaka, IN 46545

574-807-6002

Toll Free 844-875-4799



We at Verity Rear Vision Systems would like to personally thank you for purchasing our product. Our company strives to supply the best products at a fair price. We care that you enjoy a safe driving experience.