

# VERITY<sup>®</sup>

## 5 INCH DIGITAL MONITOR SYSTEM Part # SM05J



## Just View It<sup>®</sup>

Please read this manual completely before operating the SYSTEM

A division of  
**Component Solution Services, LLC.**  
56600 Twin Branch Dr.,  
Mishawaka, IN 46545  
[www.veritysafe.com](http://www.veritysafe.com)

2022-Current  
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“J” series Layout

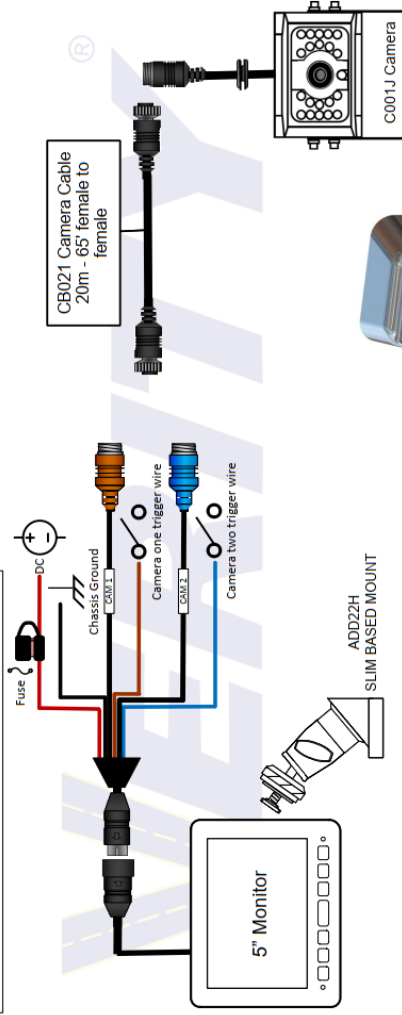
5" “J” Series Standard System includes all required components for installation

**Required Components for Installation:**

- (1) MK05J
- (1) C001J Camera
- (1) CB021 20m. – 65' Camera Cable
- (1) ADD22H Slim Based Mount
- (1) Manual

**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



**Optional Components:**  
 ADD100ZV Cast Aluminum Camera Cover  
 to protect and prevent theft of the camera

574-807-6002  
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NOTICE  
 Diagram is for reference purpose only  
 Subject to change without notice. Not to Scale

11/24  
 REV-5MC

SM05J

## ABOUT US

**Component Solution Services LLC** engineers the **Verity®** products to meet any requirement and price point within the commercial and fire rescue industries. Designed for professional drivers, Verity develops and markets products and applications to transmit video, audio, and data. Verity® is also home to the Reveal® line of MDVRs.



### **The Verity Difference:**

- We are an engineering firm
- Products designed and tested in the USA
- Field-tested, not just bench-tested
- Low issue rate of 0.022%  
(That is one component out of 5,000+ systems)
- Not found in Big-Box or online mega-sites
- Easy to reach tech support from our R&D department

*Verity integrates the needs of the fleets and end-users into what we engineer for our OEMs*

Replacement parts can be found at:  
[www.Librv.com](http://www.Librv.com)

## THINK SAFETY

Read our manual before operating or installing this system.

Most likely, your system came preinstalled so the installation section will be for reference.

Thank you for your purchase of our Verity® products. When installed and used properly, your SM05J is designed to deliver years of trouble-free operation. This manual contains important information required to properly install and operate the unit. Verity systems 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 Verity products. Opening the product will break the tamper indicators and void the warranty.

## **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 those intended for driving assistance cameras is prohibited.

## **CAUTION**

- ◆ To avoid damage to the electronic circuit, stop using this product while welding on 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, ensure 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 the 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 monitor.

# SYSTEM FEATURES

## MONITOR SPECIFICATIONS

(Monitor part #MK05J)

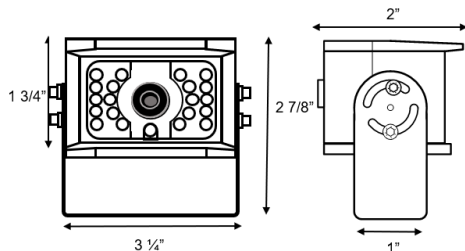
- Screen size: 5-inch digital screen (16:9) (640x480 Pixel)
- Long Life High Resolution
- System: PAL/NTSC Auto Select
- Contrast: 450:1
- Brightness: 450 cd/m2
- Power supply: DC 12V~24V with reverse polarity protection
- Operation temperatures: -20°~70°C
- Storage temperature: -30°~80°C
- 61" monitor harness with 2 AV color-coded aviation/waterproof connections, waterproof fuse and color-coded trigger wires.
- Auto blue screen if no signal on activated channel.

Features: HD sunshade, auto light sensor dimming for buttons and LCD screen, LED blue light buttons, high quality processor, in-line waterproof fuse, easy to use OSD menu function via buttons & remote: reversing image delay time 0~10s, (for side cameras) Mirror/Normal image, plus horizontal flip per signal channel, multi-language, featuring adjustable guidelines.

## CAMERA SPECIFICATIONS

(Camera Part #C001J)

- Horizontal Resolution: 700 TV Lines
- TV System: NTSC
- Image Type: 1/3 Inch Color CMOS SONY (or equivalent)
- Effective Pixel: 510 (H) x 492 (V)
- Illumination: 0.1 Lux (built-in 20 high-output IR LEDs for night vision)
- Aluminum Housing
- Waterproof: IP69
- Power Supply: DC 12V (power from the monitor)
- Shockproof: 10G
- Operating Temperature: -30°~70°C
- Built-in Microphone
- Viewing Angle: 120° (D)



# SYSTEM COMPONENTS



5-Inch digital  
LCD monitor



Manual



Weatherproof Camera  
with night vision



20-Meter Camera  
Cable

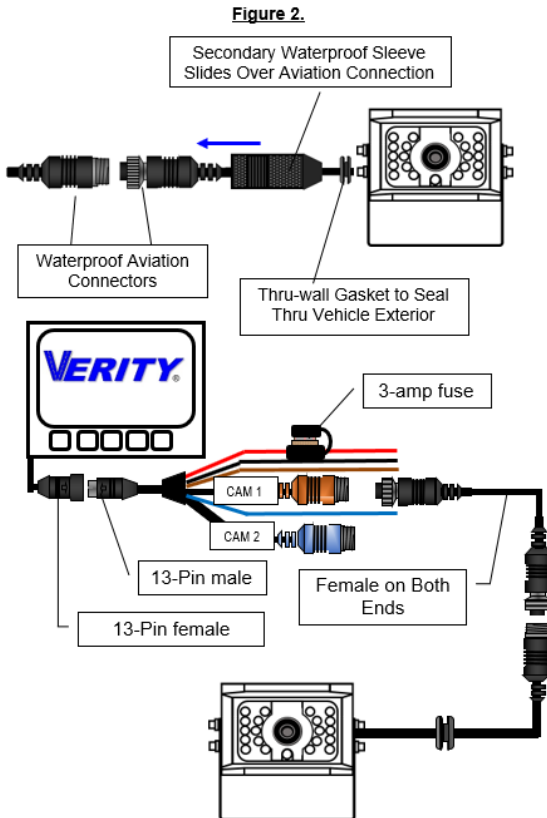


13-pin to 4-pin Monitor  
Harness



"Heavy Duty"  
slim base mount

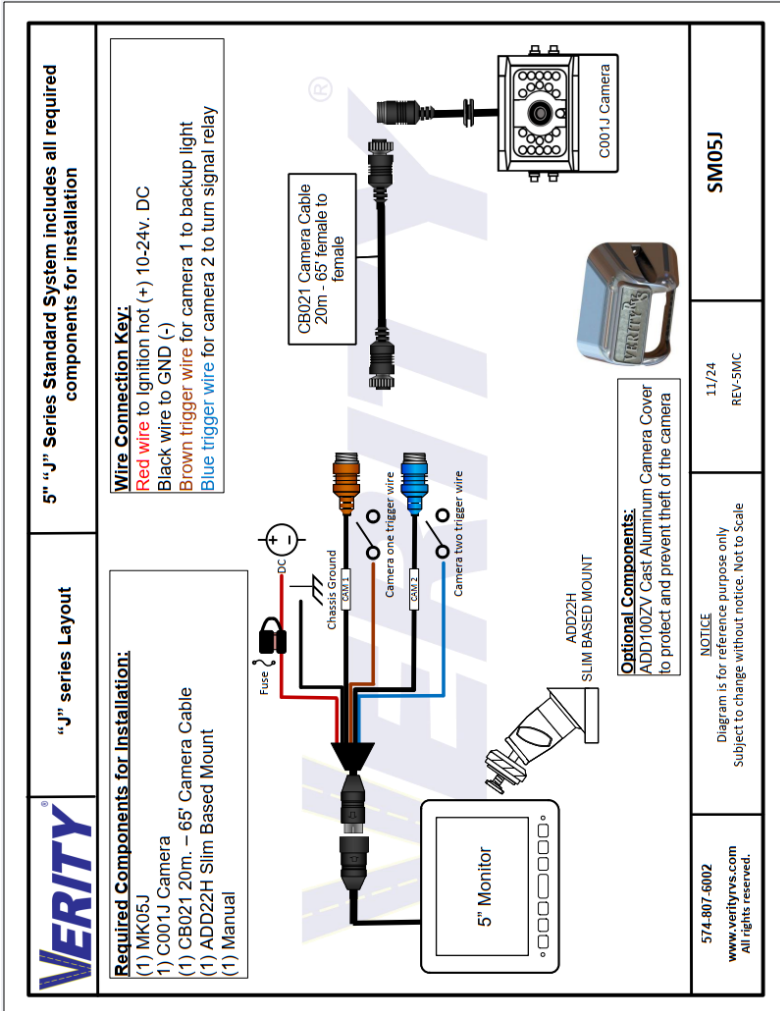
# CABLE CONNECTIONS



## Wire Connection Key:

- ◆ **RED** wire to ignition hot (+) 10-26 volts
- ◆ **BLACK** wire to ground (-) (please use a chassis ground post)
- ◆ **BROWN trigger wire** is for camera 1. Connects brown trigger wire to backup light wire or backup beeper wire. This connection is needed to activate the monitor when putting the vehicle into reverse.
- ◆ **BLUE** (CAM 2) trigger wire for accessory cameras (side cameras etc.) **DO NOT** power this wire unless you intend to trigger a second camera. It will be connected to your trigger power source, such as a turn signal light wire.





## Camera Mounting

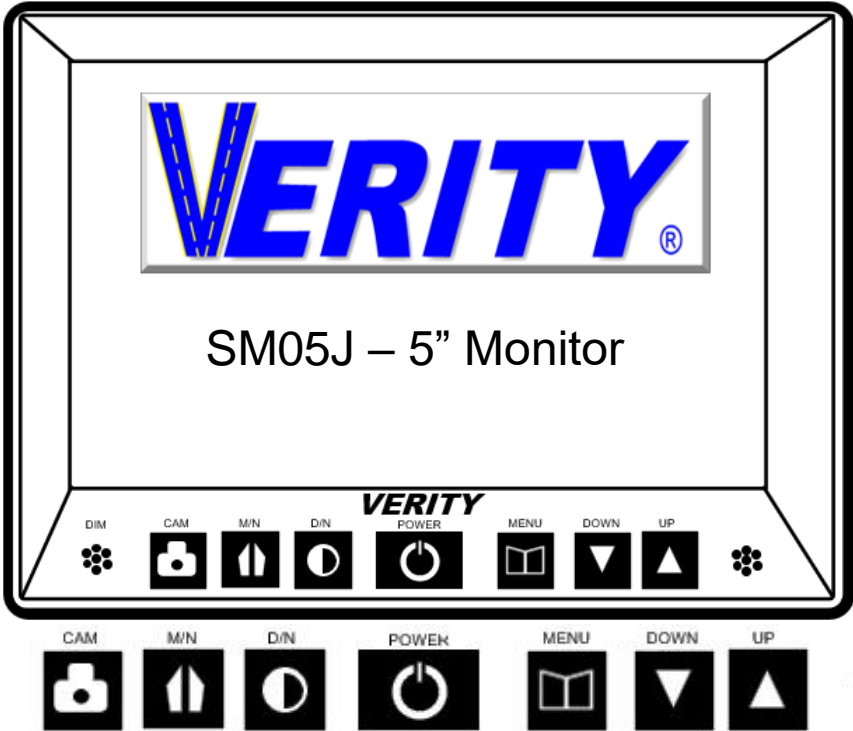
The camera should be mounted on the center line of the truck. When mounting the camera, do not use the center hole on the bracket.



Please make a drip loop in the camera cable. It prevents water from entering (wicking) into the truck. Below is an example of a drip loop.



# MONITOR OPERATIONS



**DIM** Auto Dimming Photo Cell

**CAM** Switches between cameras

**M/N** Mirrored / Normal View

**D/N** Day / Night screen brightness

(Works only when not in auto dimmer mode)

**POWER** Power on/off button RED power off / BLUE powered

**MENU** Activates operational menu

**Down** Volume DOWN / switches down when in menu

**UP** Volume UP / switches up when in menu

# MENU OPERATIONS

## Press Menu:

The red highlighted text shows the current selection. Press the MENU button to advance through the available options and use the DOWN/UP arrow buttons to adjust the selection.



### 1 time: BRIGHTNESS

Use the DOWN / UP arrows to adjust the brightness.

### 2 times: CONTRAST

Use the DOWN / UP arrows to adjust the contrast

### 3 times: COLOR

Use the DOWN / UP arrows to adjust the color.

### 4 times: VOLUME

Use the DOWN / UP arrows to adjust the volume.

### 5 times: LANGUAGE

Use the DOWN / UP arrows to adjust between 10 languages.

### 6 times: DIMMER

Use the DOWN / UP arrows to turn the auto dim on/off

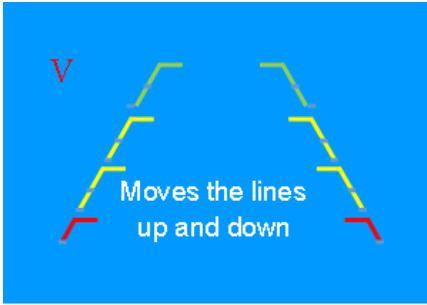
### 7 times: PARKING LINES

(Only on CAM 1)

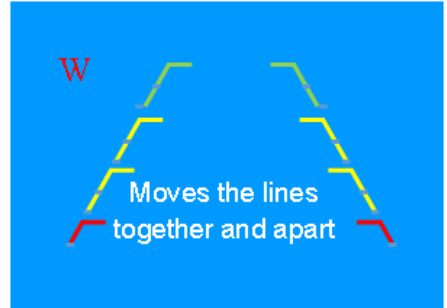
Use the DOWN / UP arrows to turn on/off the park lines.

If parking lines on:

Use the DOWN / UP arrows to adjust parking lines vertically.



Vertical Adjustment



Width Between Lines

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 the 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 bracket. Mount the monitor to the support bracket with supplied hardware. When mounting the monitor bracket, be careful to check the area where you will be setting the screws. Be sure you will not drill into items such as other cables, dash air bags, etc. and the surface will support the item being attached.

## POSSIBLE SAFETY ADDITIONS

### ADD60S Rear Sensor System

Increase your vehicle safety by adding a Verity ADD60S Sensor System.

These sensors alert you of objects behind the truck while reversing the vehicle. They can show you how close you are to an object as the sound intensifies as you move closer.



### 4-Channel Truck Grade DVR

**REC02U (2023)** is a dual SD card hybrid HD MDVR that can record your camera view(s), including the job/delivery site. It can be set to record the entire daily time. Video storage SD cards are behind a locked door.



# Verity®

A division of

COMPONENT SOLUTION SERVICES, LLC (CSS)

## LIMITED One (1) YEAR WARRANTY

1. CSS products' warranties are not transferable. They apply to the consumer for one (1) year and cover defects in material and workmanship. We do not warranty our cables, which are QC tested at three different stations before shipping. All components must be installed in compliance with all Federal, State, and Local government requirements. The warranty is limited to the United States of America and Canada.
2. Defective components will be replaced or repaired based on a CSS evaluation of the component. Inbound shipping charges, based on the CSS rate allocated in the RMA (returned merchandise agreement), will be covered once the component has been deemed defective. The pre-assigned inbound freight will be supplied upon the return of the product. All repaired/replaced warranty parts shall be for the remaining duration of the original warranty period.
3. CSS 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 troubleshooting and acquiring an RMA. Contact can be made via email at [tech@veritysafe.com](mailto:tech@veritysafe.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) CSS will make no payments for system removal/system re-installing, mileage allowance, or transportation expenses. Verity does not pay for labor.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 CSS is not responsible. There is no warranty for any product with removed or altered identification labels. **CSS 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; you may also have other rights that vary from state to state.

## Technical Support

A service ticket can be filled out online to supply the quickest service. The service ticket can be easily found on our website, [www.VeritySafe.com](http://www.VeritySafe.com), or use the code to the right. Please have the system's serial number, 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 0.022% issue rate with our products.



### Email Tech Support:

**Tech@VeritySafe.com**

**Phone Tech Support: 574-807-6002**

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

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56600 Twin Branch Drive

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**574-807-6002**

**Toll-Free 844-875-4799**

We at Verity 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.

2022-Current

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Revision 25 NF