

# **VERITY<sup>®</sup>**

## **REAR VISION SYSTEMS**

### **REC02U Mobile DVR INSTALL MANUAL**

Distributed by Verity Rear Vision



Please read this manual completely before operating the SYSTEM

A division of

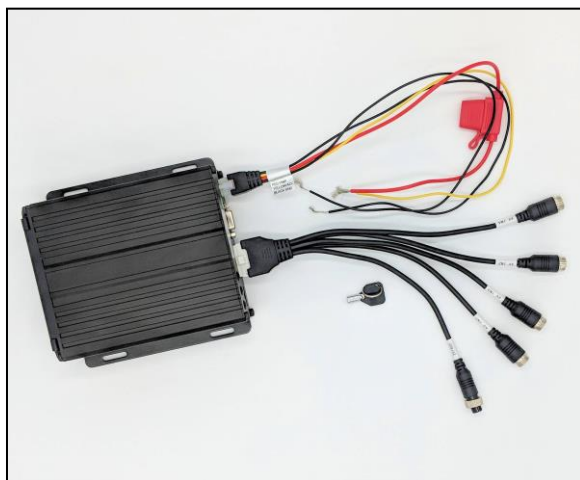
**COMPONENT<sup>®</sup>  
SOLUTION SERVICES**

**Component Solution Services, LLC.**  
56600 Twin Branch Dr.,  
Mishawaka, IN 46545





Component Solution Services LLC., offers the Verity Rear Vision Systems® to meet any requirements and price point within the trucking, specialty vehicles, and RV industry. Verity Rear Vision Systems® 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 Rear Vision Systems 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 First

Read our manual before operating  
or installing.

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

Thank you for your purchase of our Verity Rear Vision Systems®. When installed and used properly, your REC02U is designed to deliver you years of trouble-free operation. This manual contains important information required to properly install and operate the unit. Verity Rear Vision 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 Rear Vision Systems 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 rear Vision Systems 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 Verity Rear Vision products. 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. [www.verityrvs.com](http://www.verityrvs.com)

## **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

Description	Picture	Quantity
MDVR	 A black, rectangular MDVR unit with a heat sink on top and various ports on the side.	1
Power cable	 A power cable with a red and yellow braided shield and a black connector.	1
I/O cable	 A multi-colored I/O cable with a black connector.	1
AV cable	 An AV cable with multiple connectors on one end and a single connector on the other.	1
Remote control	 A black remote control with a screen and buttons.	1
DVR Key	 A black DVR key with a metal pin.	1
IR Extension cable (Optional)	 An IR extension cable with a red LED emitter and a black connector.	0

## IMPORTANT

Important: Make sure remote is facing the front of the DVR during remote operations. There should be no obstructions.



## REMOTE

The batteries for the remote are not included or installed. 2 “AAA” batteries are needed.



UP / DOWN  
RIGHT / LEFT



ENTER /  
SELECT



ESCAPE



**PLEASE NOTE:**  
DVRs have been setup for 1-  
camera systems to be used  
with Verity SM07J & SM05J  
systems.



## USER LOGIN

Click the menu button on the remote; the login interface will appear. Please input your UserName, Password, and select your language, click "OK" to login the menu. (The default UserName is admin, without Password). If you have not set these values you can use the right arrow button to pass through these.

A screenshot of a login interface titled "Login" in a blue header. The interface has a black background with white text. It contains three input fields: "UserName" with the value "admin", "Password" with masked characters "\*\*\*\*\*", and "Language" with the value "English". Each field has a small downward arrow on its right side. At the bottom, there are two buttons: "OK" and "Cancel".

Login	
UserName	admin ▼
Password	*****
Language	English ▼
<div>OK Cancel</div>	

Once you have passed this step the menu button will bring up the following drop-down menu



One View: 1 Camera option

Multi View: Show multi-camera options

Play Back: Open play back viewer

Backup: Backs up to thumb or external drive

Pause: Allows time to get some cold water

Menu: Opens operational options

### Pin Out Definition


Pin out for Power, I/O, AV Input & Output.

#### Power interface

10-36V	10-36V	ACC
GND	GND	GND

#### I/O Interface definition

1	3	5	7	9
2	4	6	8	10

					
PIN	Color	Definition	PIN	Color	Definition
1	Blue	Alarm output	2	Black	Ground
3	Purple	Alarm input 2 (Positive)	4	Purple	Alarm input 1
5	Purple	Alarm input 4 (Positive)	6	Purple	Alarm input 3
7	Red	5V Output	8	White	TXD(TTL Level)
9	Grey	IR Extension	10	Yellow	RXD(TTL Level)

## HDD installation

Insert the key into the hole of the lock on the front panel and switch it to OPEN status you will see the HDD 2.5" drive slot.

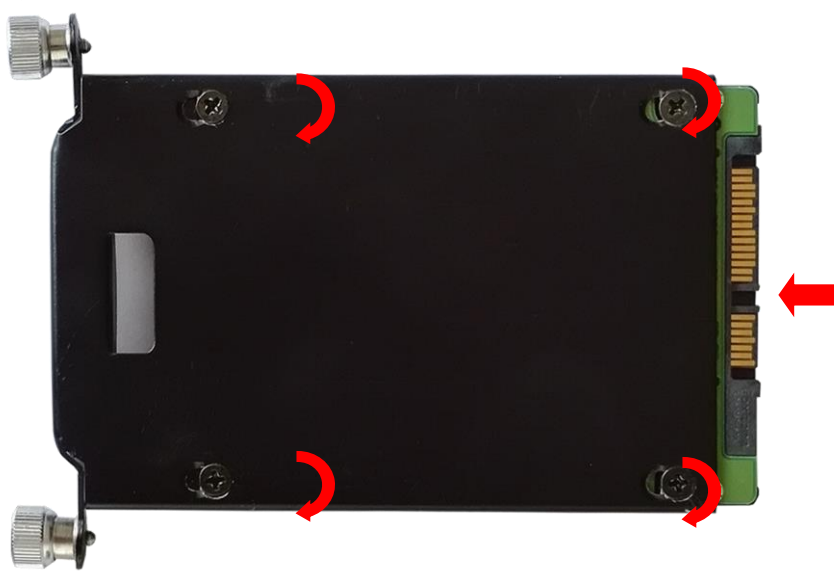


### HDD Installation

Remove retaining screws for the hard disk.



Insert the hard drive into the bracket as shown below and secure the 4 fixed screws. (These screws were shipped with the DVR and are in the accessory box.)



Insert the mounting bracket of the hard disk into the case and lock the fixed screws on both sides.  
If you want to install the SD card too, the SD card contacts are inserted into the case facing down.

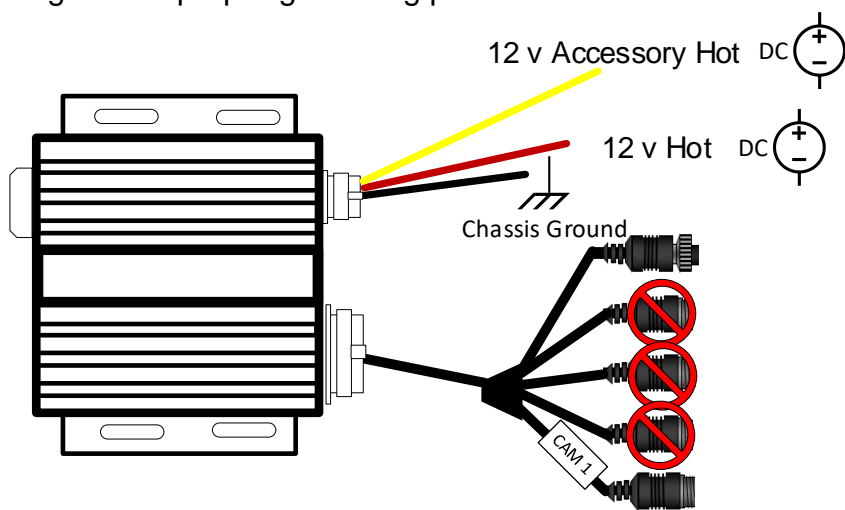


## Power Connection

Please connect the power as indicated.

Positive pole (RED) connects with power input 10-36V DC,  
ACC ignition (YELLOW) connects with 5-36V DC.

Negative to proper grounding post



The yellow ignition wire is used to detect the ignition signal. We strongly suggest you connect it with the "RUN" terminal of the ignition switch.

**Connect Cameras to Camera harness.**

## Monitor connection



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

1. CSS products' warranties are not transferable. The warranties apply to the retail consumer for one (1) year and covers against defects in material and workmanship.

2. Defective components will be replaced or repaired, based on a CSS evaluation of the component. In-bound shipping charges, based on the CSS 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. 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 trouble shooting and the acquiring of an RMA. Contact can be made via email at [tech@verityrvs.com](mailto:tech@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) CSS 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 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, and you may also have other rights that vary from state to state.



## Technical Support

A service ticket can be filled out on line to supply the quickest service. The service ticket can be easily found on our web site [www.verityrvs.com](http://www.verityrvs.com) or use the code to the right. 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: [Tech@verityrvs.com](mailto:Tech@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 Drive  
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.