

VERITY[®]

REC02U INSTALLER'S GUIDE

This manual has the necessary instructions.

Any header in RED is a possible customization item. There are screenshots of settings that may need to be addressed, such as setting which channels to record.



Verity has preset the options requested on all Morgan Truck Body REC02U prior to shipping.

Password Needed: Enabled Default Password: 888888

ACC Off Run Time Delay: 60 mins.

*** Format: NTSC *Language: English**

*** Record all cameras when ACC is ON (Powered)**

At Verity, think English, NTSC, and all 4-cameras recording by default.

A new Class 10 128 Gig SD memory card has been formatted and installed.

**Note: Once the DVR is activated, it will start recording;
always check your surroundings.**

Instructions for IR extender ADD02CP are found on page 32



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Tech Support: 575-807-6004 7 am to 5 pm EST

After Hours: 574-596-2151

(This cell number is also the mobile number for submitting photos.)

Sales and Billing 574-807-6005

Bill Verity's email: billy@veritysafe.com

The Service Ticket form is on our homepage - www.veritysafe.com

Video Recording Sign

Because of the legality of recording, we are providing the sign below in each DVR. Each state has different laws. Some states have different laws county by county. One vinyl adhesive sign is included with each DVR



Line Manual

Verity is providing two remotes in the ERPP Kit to prevent production delays if one is damaged during installation.

ALL information, manuals, line drawings, cheat sheets are available on the MTB support pages

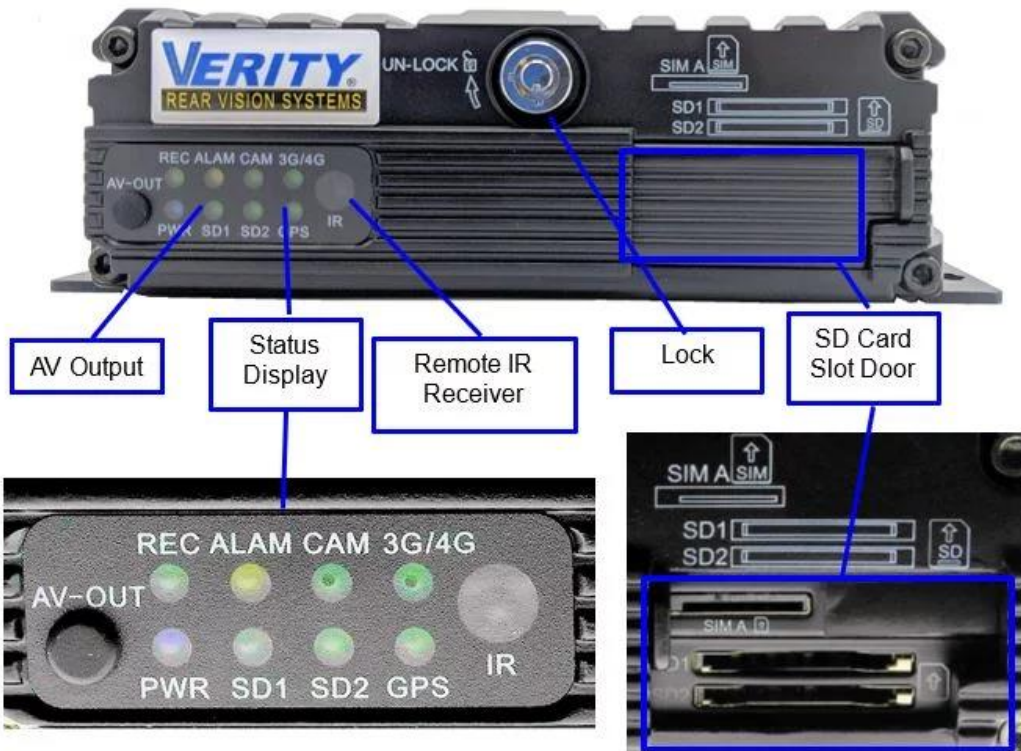
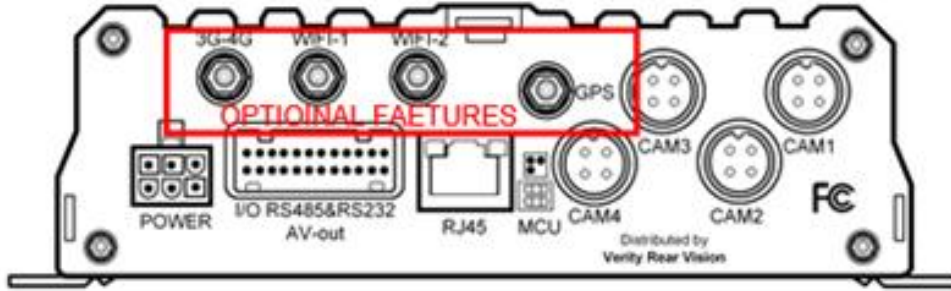
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www.vmtb.support/dvrlp



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SYSTEM OVERVIEW











Metal Connector Tamper-resistant Cover

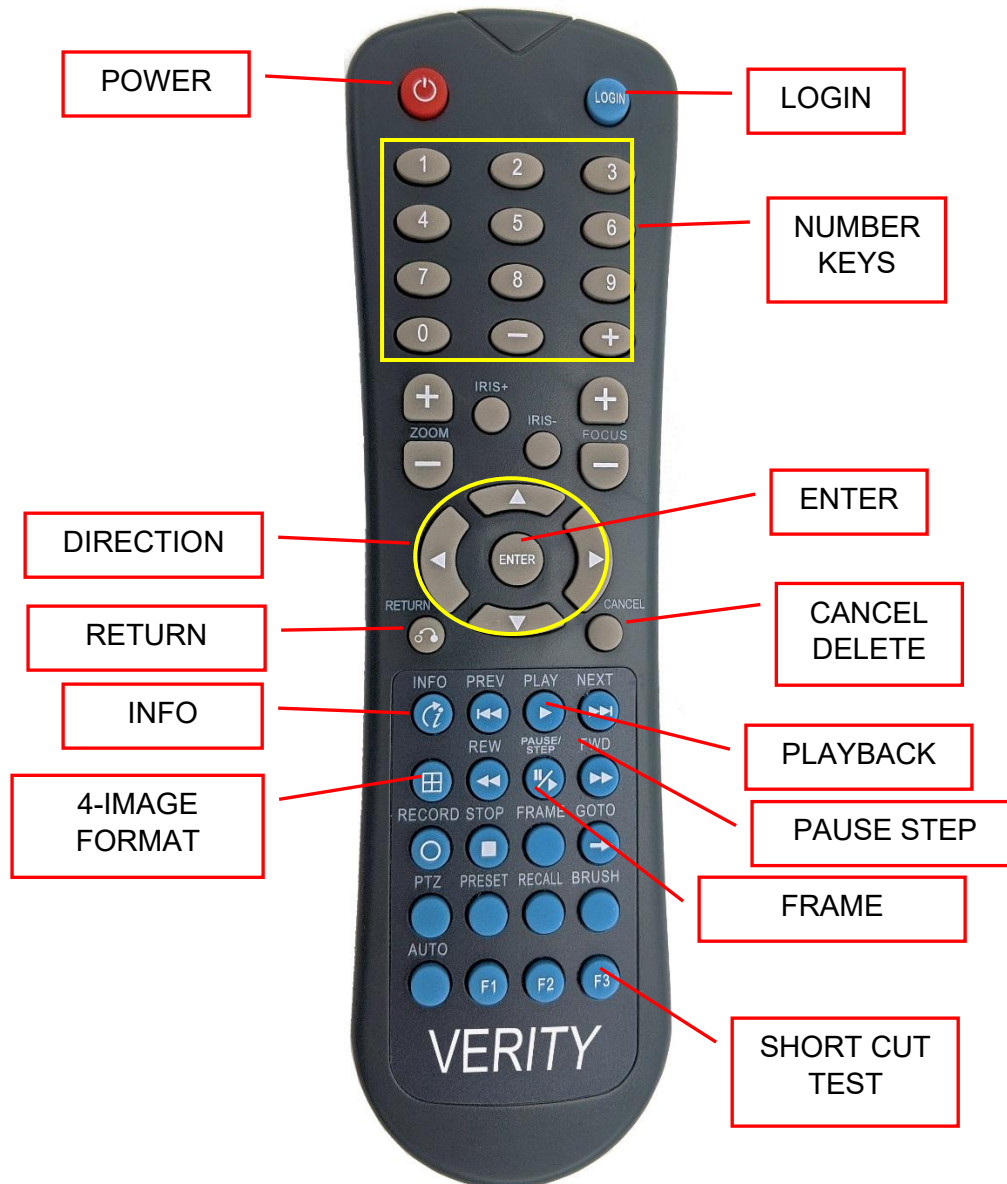
Rear security cover helps prevent tampering or damage to the cable connection on the back of the REC02U.



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DVR	REMOTE
	
CABLE CONNECTION COVER	FRONT AV CABLE
	
AV OUT / SENSORS	POWER CABLES
	
KEYS & ACCESSORIES	MANUAL

Remote Overview



LOGIN: When the recorder is set with a password, press the Login key to input your password.

Because of security reasons, the DVR does not provide recovery and reset features. Always keep a copy of your password written down.

INFO: Check DVR information

Quad 4 Image Format: Number keys 1, 2, 3, 4 on the monitoring interface, are used to switch between quad view and single view; press the Quad View key to display 4 screens. You can press number 1/2/3/4 to display channel 1, channel 2, channel 3, and channel 4, respectively.

RETURN: Return to the previous menu, and finally exit from the setup menu to the monitoring interface.

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PAUSE/STEP: Used to pause playing or play images at a single step. Press the key again to recover normal play speed.

FRAME: Press this key to play a video at a frame rate.

PLAY: Press this key to start playing (search the video file to be played and select, then press the key to play it.)

FWD Forward key in four categories: 2X,4X,8X,16X

REW Rewind key in four categories: 2X,4X,8X,16X

NEXT: Page down or roll to the next file

PREV: Page up or previous file

Important: Make sure the remote is facing the front of the DVR during remote operations.



ADD02CP is an optional item

For applications where an IR extender is needed, our IR extender will allow you to place the DVR hidden behind a wall and use our ADD02CP. This IR/LED panel has a 16 foot extended cable. This panel provides feedback on the operation of the DVR. Never miss another recording due to issues that may occur over the years.

PWR: Power-on light.

REC: Record light recording.

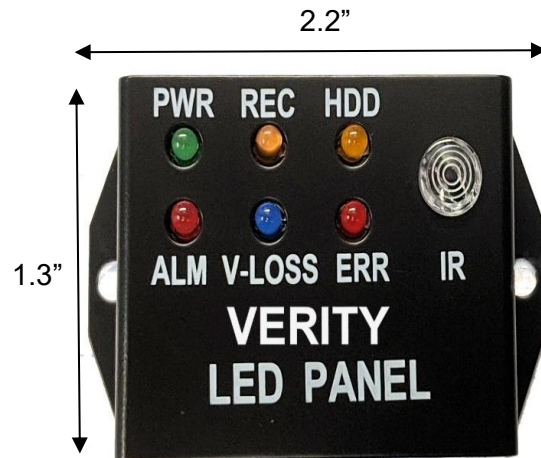
HDD: For hard drive units: flashes when recording

ALM: Indicates an "Alarm" event

V-LOSS: Video loss light: flashes when video loss.

ERR Error light

IR: IR receiver



The instructions for the ADD02CP will ship with the item.

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DVR Unit



Dimensions

170 x 142 x 50mm

Including security cover 170 x 187 x 50mm

Power Cable

GND Ground	DC IN+ Power Wire	ACC Ignition Hot



GND | Ground wire needs to go to a chassis ground post or proper grounding location suggested by the truck OEM.

DC IN+ | 12v. Power Wire. This wire needs to be connected to constant power. The DVR can be set to run past the ignition being turned off. (See operation manual to find direction on how to set this option.)

ACC wire is ignition hot wire. This allows for continued recording after the truck has been turned off.

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Placement

The remote is an IR remote, and the DVR needs to be in line sight of the DVR.



If you install the DVR behind a wall or in a cabinet, the IR remote will not work.

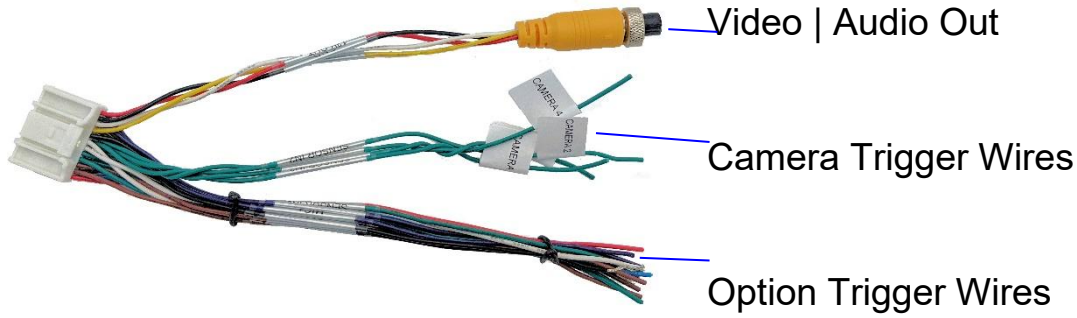


For these applications, our IR extender will allow you to place the DVR hidden behind a wall and use our ADD02CP. This IR/LED panel has a 16 foot extended cable. This panel provides feedback on the operation of the DVR. Never miss another recording due to issues that may occur over the years.



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VIDEO | TIGGERS



Camera trigger:
Needed triggers are tagged

Option Trigger Wires:
These will be tagged to match added options.



Front Video | Audio Out



Do you need to change from an RCA connect to 4-pin or BNC? Call us, we have your adaptors required.

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OPTIONAL: ADD02CP

If our LED Control Panel & IR Extender is added, there is a connector on the trigger wires.



Once the ADD02P has been installed, program the DVR to accept it.

Click on
PERIPHERAL



Click on
SERIAL



PWR: Power light indicates when MDVR has power.

REC: Recording light indicates recording is functional.

HDD: Hard Disk Light indicates Hard Disk is functional (This does

not apply to DVRs that use SD cards.)

ALM: Alarm Light indicates the following alarms: IO Linkage Alarm, Speed Alarm, G-sensor Alarm, Temperature Alarm, and HDD Error Alarm.

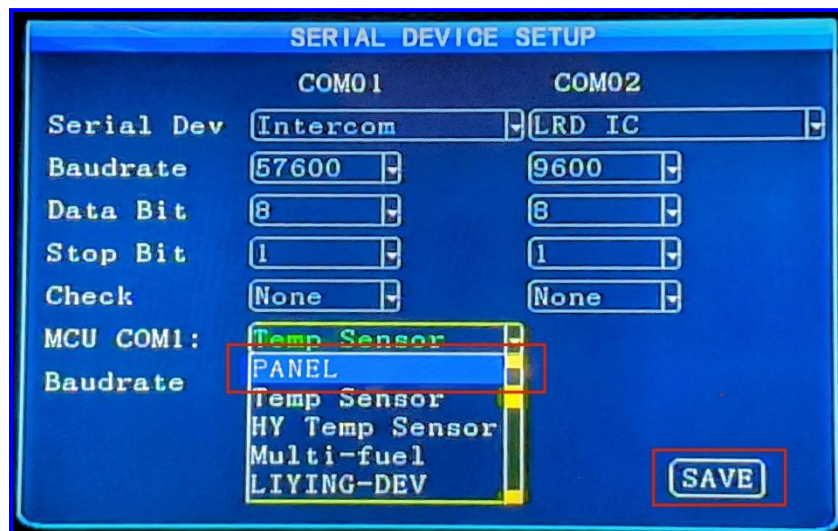
V-LOSS: Video lost light.

ERP: Error light indicates functioning errors.

IR: Sensor for the MDVR Remote Control.

To access, use the following:

The Baudrate needs to point to "Panel"

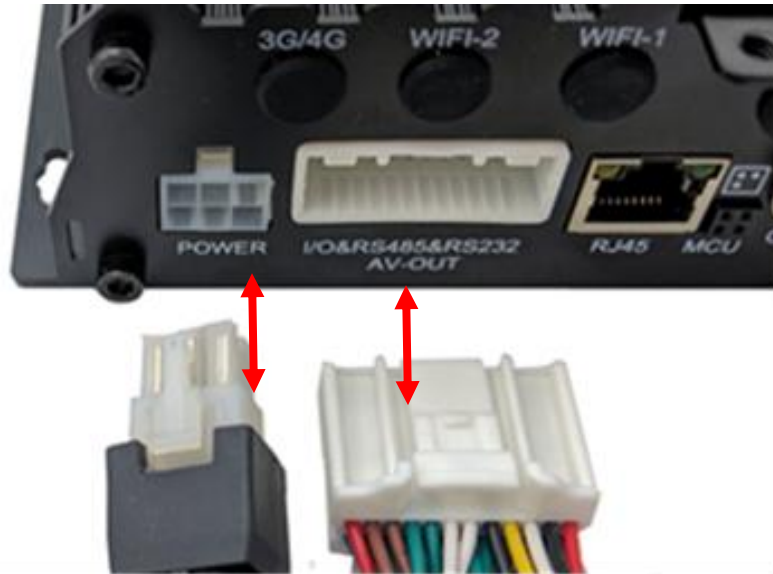


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Connecting Harnesses



Connecting Cameras

Connect camera to the corresponding camera IN.



Metal Connector Tamper-resistant Cover

Security cover helps prevent tampering or damage to the cable connection on the back of the MDVR.



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REC03 DVR with GPS

The installation of the REC03 has one added step. The GPS Antenna needs to be installed.

REC03 + GPS



Antenna Location

The location of the antenna is Key to successful operations.

Although many say the “magnetic style” GPS antennas, which are the industry standard, are waterproof. They are not truly waterproof in many ways. Most are only IP65 rated.

We do include the magnetic style GPS antenna as standard with our systems. Most often the antenna can simply be mounted on the truck’s dashboard, near the base of the windshield. This location allows the antenna to have clear and unobstructed access to the sky. Most windshield glass should not significantly hinder reception from GPS satellites.

Acceptable GPS Signal



When the angle of the windshield prevents an upward or outward path to the satellite in the sky, this antenna can be placed outside. Some bullet proof/protective glass may also impede signals.



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LOG IN (password)

IMPORTANT: DO NOT SET THE PASSWORD FOR THE END-USER

Because of security reasons, there is no password reset.

Click the menu button on the remote; the login interface will appear. Please input your User Name, Password, and select your language, click “OK” to log in the menu.

The default UserName is **admin**, with a default password of **888888**.



SECURITY SETUP



Enable – disable password



- # 1 turns password on/off
- # 2 Check box to modify a user
- # 3 ADD a user
- #4 to modify the selected user
- # 4 MODIFY a user
- # 5 DELETE a user
- # 6 SAVE

To modify the “admin” check #2 and Modify #4

To add a new user click #3 ADD

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CHANNEL MODE (Sets video format) (preset by Verity)

Important: the DVRs ship with this default

If this gets changed to any other setting, the video input will turn to a BLACK screen!

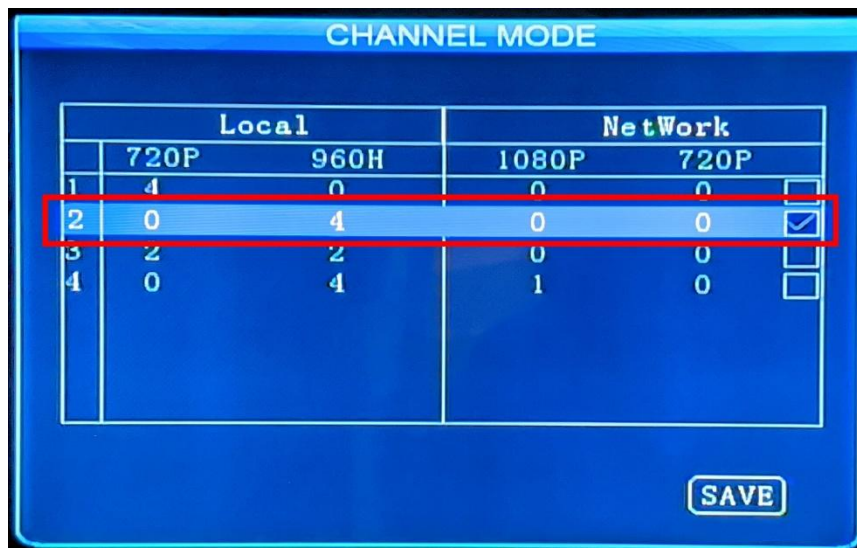
SETUP
MENU

Click on
**CHANNEL
MODE**



For the RECO2U model:

Make sure that line 2 is selected. 960H 4 channels "Local"



CHANNEL MODE					
	Local		NetWork		
	720P	960H	1080P	720P	
1	4	0	0	0	<input type="checkbox"/>
2	0	4	0	0	<input checked="" type="checkbox"/>
3	2	2	0	0	<input type="checkbox"/>
4	0	4	1	0	<input type="checkbox"/>

SAVE

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MAIN CODE (Sets which channels record) **IMPORTANT PART OF** **FINAL OEM SETTINGS**

To access, use the following:
Use ADMIN The password: 888888

Click on
RECORD



Click on
MAIN
CODE



This screen provides the ability to configure each of the MDVR's live video channels to provide the optimum balance of Video Type, Frames per Second (FPS), Resolution, and Quality. This section will ensure the maximum file storage is achieved.

The higher the FPS setting and resolution, the more storage will be required for the file.

We suggest using the highest quality.

NOTE: CH 5 is for the IP Camera connected to the RJ 45 connector.

A screenshot of the "MAIN CODE" configuration screen. It features a table with columns for "CH-X", "Record", "Res", "Fps", "QUAL", "Audio", and "Enable". The "Record" column has dropdown menus with "ON" and "OFF" options. The "Res" column has dropdown menus with "960H" and "720H" options. The "Fps" column has dropdown menus with "25" and "30" options. The "QUAL" column has dropdown menus with "3" and "4" options. The "Audio" column has dropdown menus with "OFF" and "ON" options. The "Enable" column has dropdown menus with "ON" and "OFF" options. Red boxes highlight the "Record" and "Audio" columns for all channels. Red arrows point from the "Record" and "Audio" columns to the text "TRUN ON-OFF" below the table. A "SAVE" button is located at the bottom right of the screen.

CH-X	Record	Res	Fps	QUAL	Audio	Enable
CH-1	ON	960H	25	3	OFF	ON
CH-2	OFF	960H	25	3	OFF	ON
CH-3	OFF	960H	25	3	OFF	ON
CH-4	OFF	960H	25	3	OFF	ON

Record: Select from two options for EACH CAMERA.

ON: Enable Video channel recording

OFF: Disable video channel recording

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A screen with no camera attached will use up disk space

Res: CH 1 – 4 D1, HD1, CIF, **960H (960H needs to be selected)**

CH 5: 720P, 1080P

FPS: (1 to 30) Select the Frames Per Second to be recorded. The higher the number, the closer to real-time fluidity (30 FPS for NTSC and 25 FPS for PAL settings) action will be recorded. The default is 25 FPS.

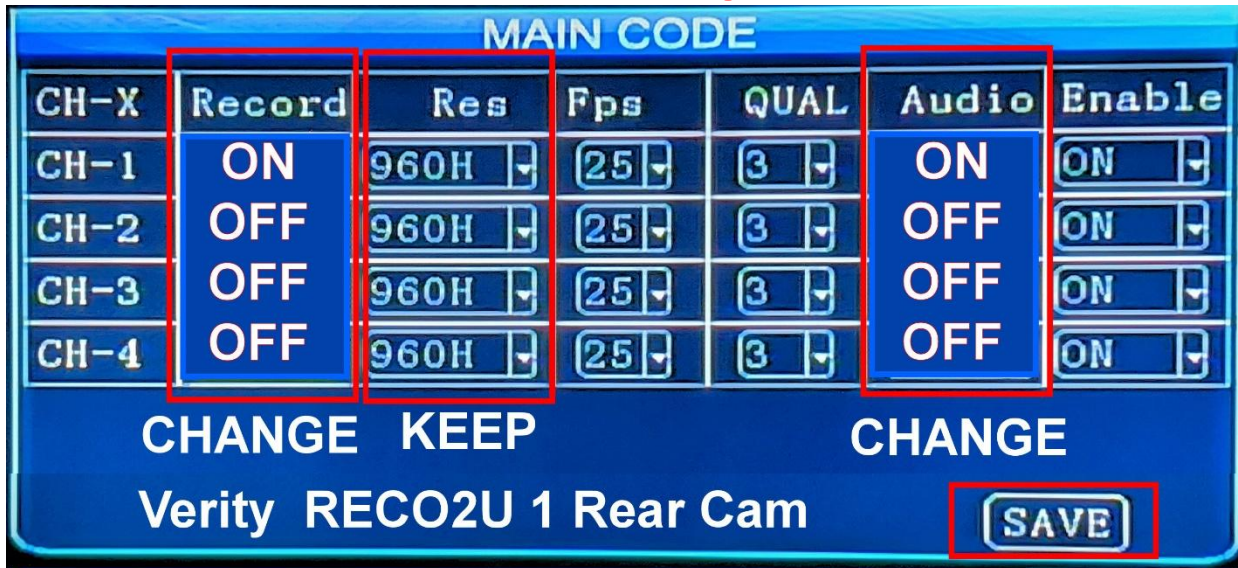
QUALITY: (1 to 8) Enter the record resolution setting desired with 1 being the highest quality. A higher-quality setting will require more file storage space yet supplies a more detailed video.

AUDIO: Select from two options:

ON: Enable audio recording (If selected, camera channel has a microphone connected)

OFF: Disable audio recording.

MTB 1 Rear Camera Setting



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MTB 1 Rear, 2 Side Camera Setting

MAIN CODE						
CH-X	Record	Res	Fps	QUAL	Audio	Enable
CH-1	ON	960H	25	3	ON	ON
CH-2	ON	960H	25	3	OFF	ON
CH-3	ON	960H	25	3	OFF	ON
CH-4	OFF	960H	25	3	OFF	ON

CHANGE KEEP CHANGE

Verity REC02U 1 Rear, 2 Side Cams **SAVE**

MTB 1 Rear, 2 Side, 1 Dome Camera Setting

MAIN CODE						
CH-X	Record	Res	Fps	QUAL	Audio	Enable
CH-1	ON	960H	25	3	ON	ON
CH-2	ON	960H	25	3	OFF	ON
CH-3	ON	960H	25	3	OFF	ON
CH-4	ON	960H	25	3	ON	ON

CHANGE KEEP CHANGE

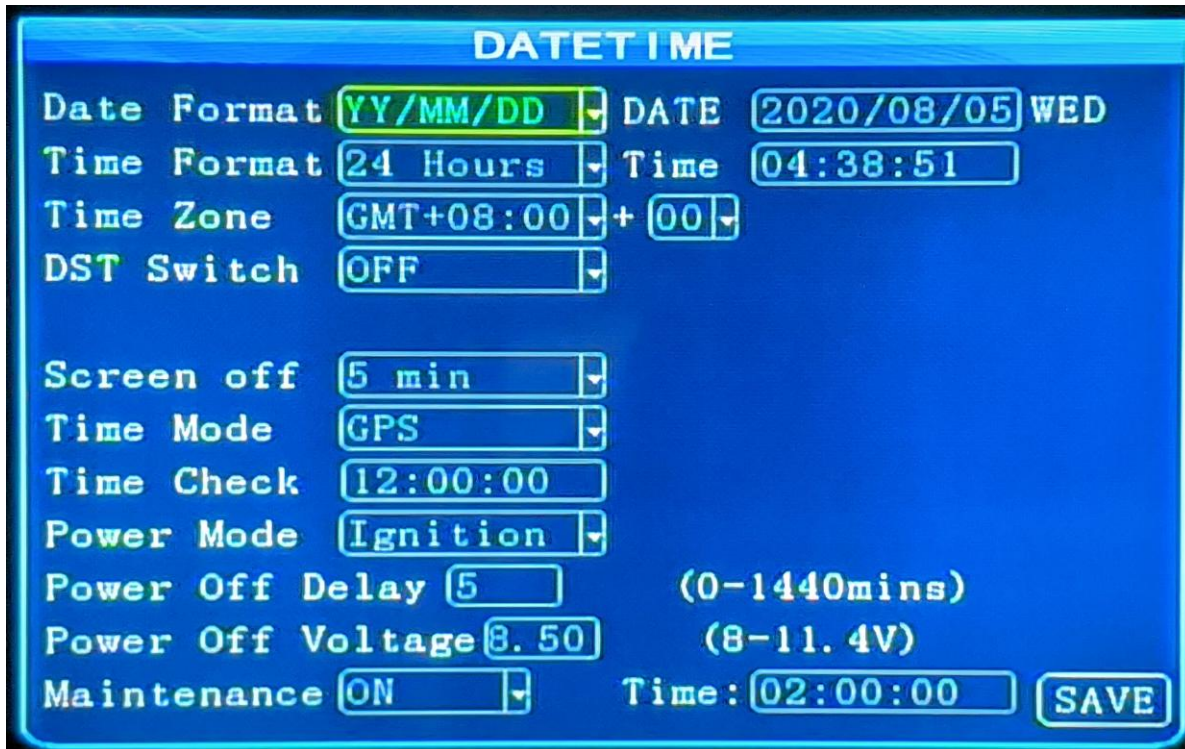
Verity 1 Rear, 2 Sides, 1 Dome Cam **SAVE**

DATE & TIME (Optional OEM Setting)

Click on
GENERAL



Click on
**DATE &
TIME**

DATE TIME

Date Format: DATE: WED

Time Format: Time:

Time Zone: +

DST Switch:

Screen off:

Time Mode:

Time Check:

Power Mode:

Power Off Delay: (0-1440mins)

Power Off Voltage: (8-11.4V)

Maintenance: Time:

DATE TIME: THIS IS IMPORTANT for timestamping when recording. This is also necessary to allow for file searching by date and time.

Time: 24 clock or 12 hr. am/pm

TIME ZONE: enter the desired GMT zone for your location

DST Switch: use to set the parameters for daylight saving time option. The selected date and time will appear to the right of the section.

Screen off: not needed

Time Mode: if the unit has GPS tracking, the GPS will set the time.

Time Check: option for full option model

Power Mode: ignition off or timer delay off

Power Off: Delay: use to set a delay

Voltage off: use to set parameters for low power off. This function is primarily used in command units.

Maintenance: leave set as default "on"

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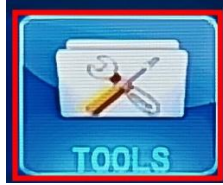
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FORMAT SD CARD

SD card must be formatted while in the DVR

To access, use the following:

Click on
TOOLS

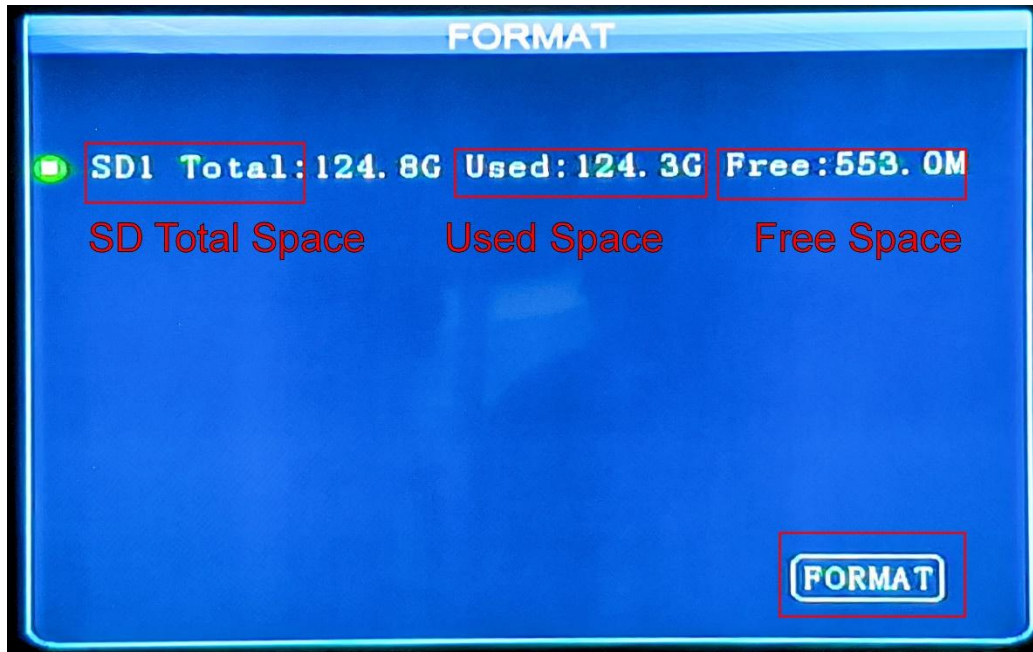


Click on
FORMAT

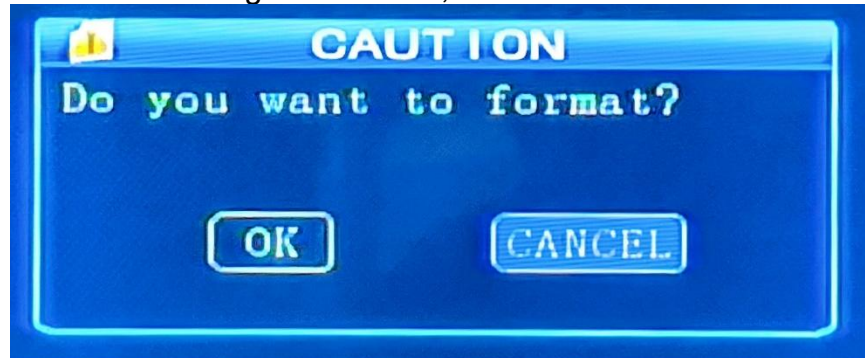


FORMAT allows for format of the SD card(s). NOTE: SD cards need to be formatted while in the DVR to work properly.

This screen also supplies information about space available and space used.



IMPORTANT NOTE: when formatting the SD card, the data on the SD Card will be erased.



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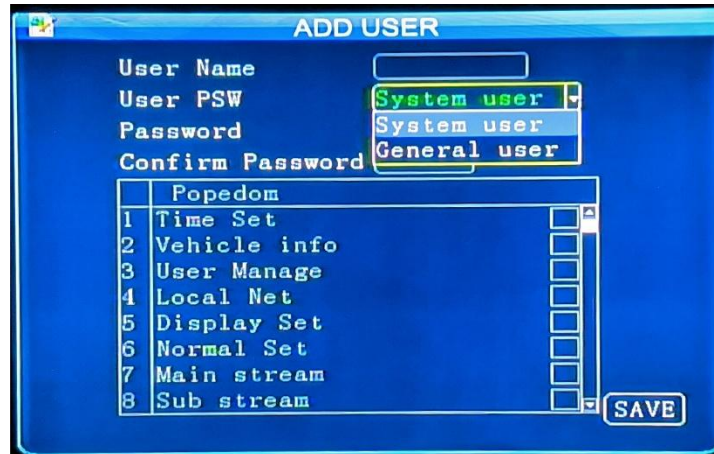
ADD USER End-user

To Access, use the following.

Click on
GENERAL



Click on
USER
SETUP



	Popedom	
1	Time Set	<input type="checkbox"/>
2	Vehicle info	<input type="checkbox"/>
3	User Manage	<input type="checkbox"/>
4	Local Net	<input type="checkbox"/>
5	Display Set	<input type="checkbox"/>
6	Normal Set	<input type="checkbox"/>
7	Main stream	<input type="checkbox"/>
8	Sub stream	<input type="checkbox"/>

There are 2 levels of users:

System user: Grants unlimited access and change privileges, including creating User Accounts, Passwords, and Restricted Access Rights

General user: Provides Password, Limited Rights

Password: 6 digits (numbers only)

*Confirm the new settings are correct and save the file.

After a User Account is entered and saved, it will be necessary to login again using the new password.

**Because of security reasons, there is
NO RECOVERY MODE.
WRITE THE NEW PASSWORD DOWN!**



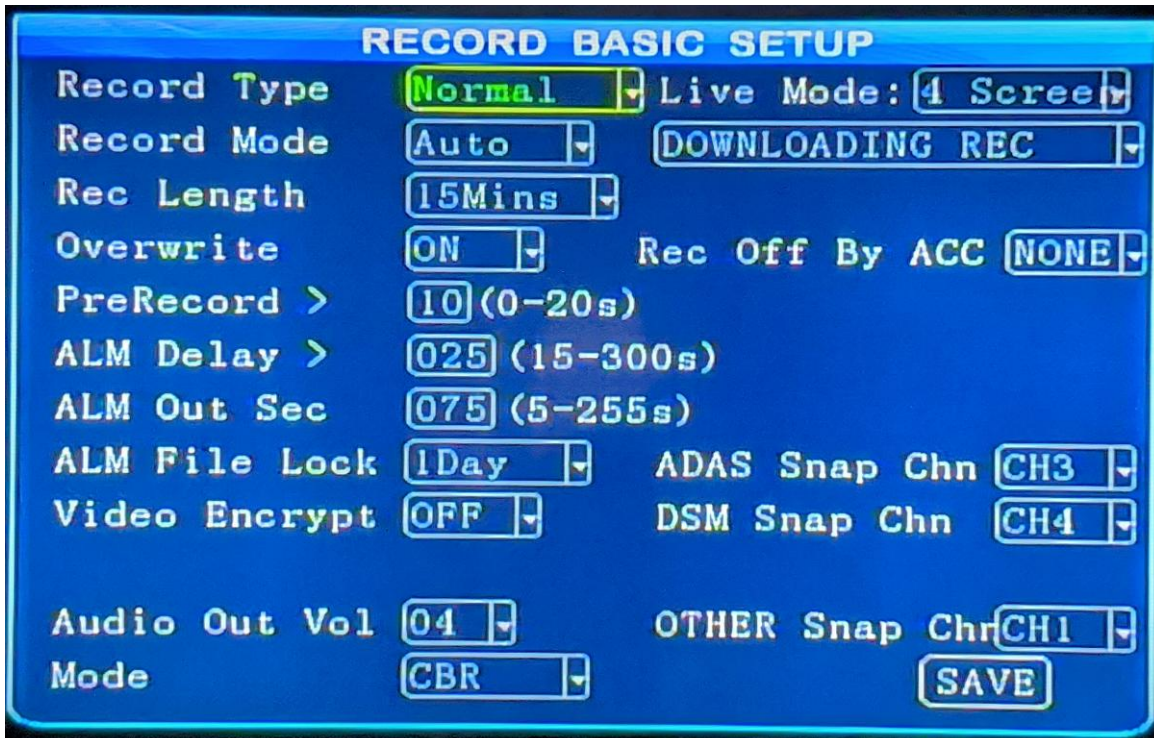
RECORD BASIC SETUP End-user

To access, use the following:

Click on
RECORD



Click on
NORMAL

RECORD BASIC SETUP

Record Type	Normal	Live Mode:	4 Screens
Record Mode	Auto	DOWNLOADING REC	
Rec Length	15Mins		
Overwrite	ON	Rec Off By ACC	NONE
PreRecord >	10 (0-20s)		
ALM Delay >	025 (15-300s)		
ALM Out Sec	075 (5-255s)		
ALM File Lock	1Day	ADAS Snap Chn	CH3
Video Encrypt	OFF	DSM Snap Chn	CH4
Audio Out Vol	04	OTHER Snap Chr	CH1
Mode	CBR	SAVE	

Key settings that apply:

Record Type

Normal: Smooth video HIGHLY RECOMMENDED

I Frame: Saves storage - video playback VERY choppy

Live Mode: Number of screens shown

REC Length: Playback file sizes. Select from 5, 15, 30, 45, 60-minute files.

The factory default is 15 mins.

Overwrite: allows the MDVR to continue recording over the oldest file.

ALM does not apply

Rec Off By ACC: Allows selection of the camera view(s) which WILL NOT be recorded when the vehicle is in the **ACC** mode:

NONE: Every camera view will be recorded per preset parameters. *Factory preset and recommended*

ALL: Every camera's view *will not be recorded*

CH: Choose a single specific camera view to not be recorded.

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LIVE MODE (How the Screen Displays)

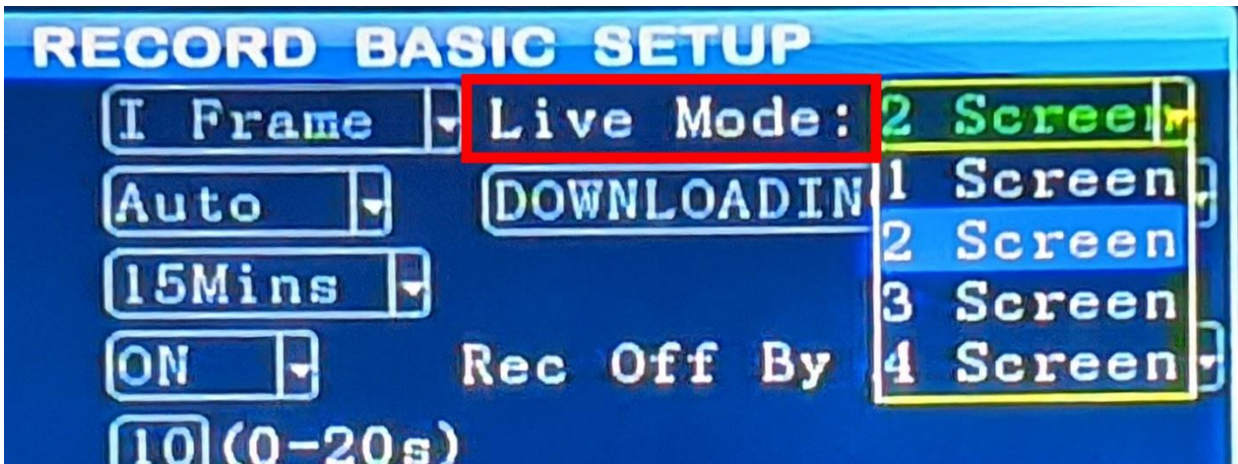
(Can be changed by using the remote display button. It is helpful to have the password deactivated if used often.)

To access, use the following:

Click on
RECORD



Click on
NORMAL

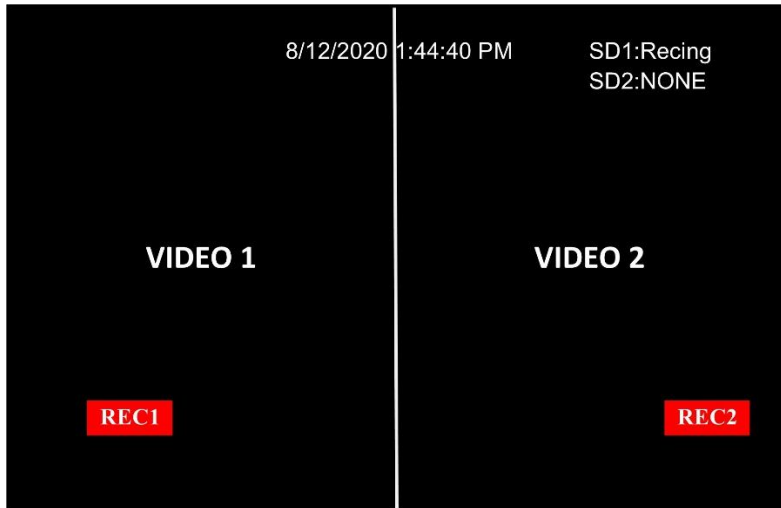


The screen will display as follows:

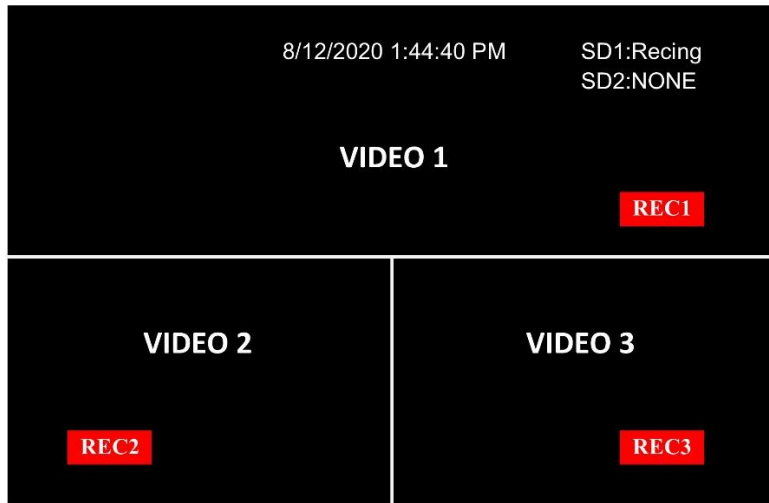


1 Screen

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2 Screen



3 Screen



4 Screen

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RECORDING SCHEDULE End-user

To access, use the following:

Click on
RECORD



Click on
RECORD
PLAN



The default setting is to record whenever the MDVR is powered. The first option allows for setting the same period of time for all seven days of the week. The following enables setting a period of time for each day.

RECORDING SCHEDULE

Period	Period-1	
Everyday	00:00:00	00:00:00
Monday	00:00:00	00:00:00
Tuesday	00:00:00	00:00:00
Wednesday	00:00:00	00:00:00
Thursday	00:00:00	00:00:00
Friday	00:00:00	00:00:00
Saturday	00:00:00	00:00:00
Sunday	00:00:00	00:00:00

Everyday: Sets up an entire week

Mon-Fri
Allows for differing day scheduling

SAVE

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DISPLAY SETUP End-user

To access, use the following:

Click on
GENERAL



Click on
DISPLAY



Select what information is desired to display on the screen. Some features like GPS will not display properly unless the DVR has the GPS option.

All Formats Need to be NTSC

Preview selects a single default screen

DateTime: "Encode" displays on the recording. "Front" displays on the screen.

Speed need GPS

Temperature: Optional

Vehiclenum: displays the vehicle number



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FLIP MIRROR IMAGING

To access, use the following:

Click on
GENERAL



Click on
FLIP



Select the desired image orientation by turning on and off the Mirror setting

FLIP

CH-X	Mirror	Flip
CH-1	OFF	
CH-2	OFF	
CH-3	OFF	
CH-4	OFF	

ON or OFF

Remember
to SAVE

SAVE

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G-SENSOR SET-UP

To access, use the following:

Click on
ALARM



Click on
G-SENSOR



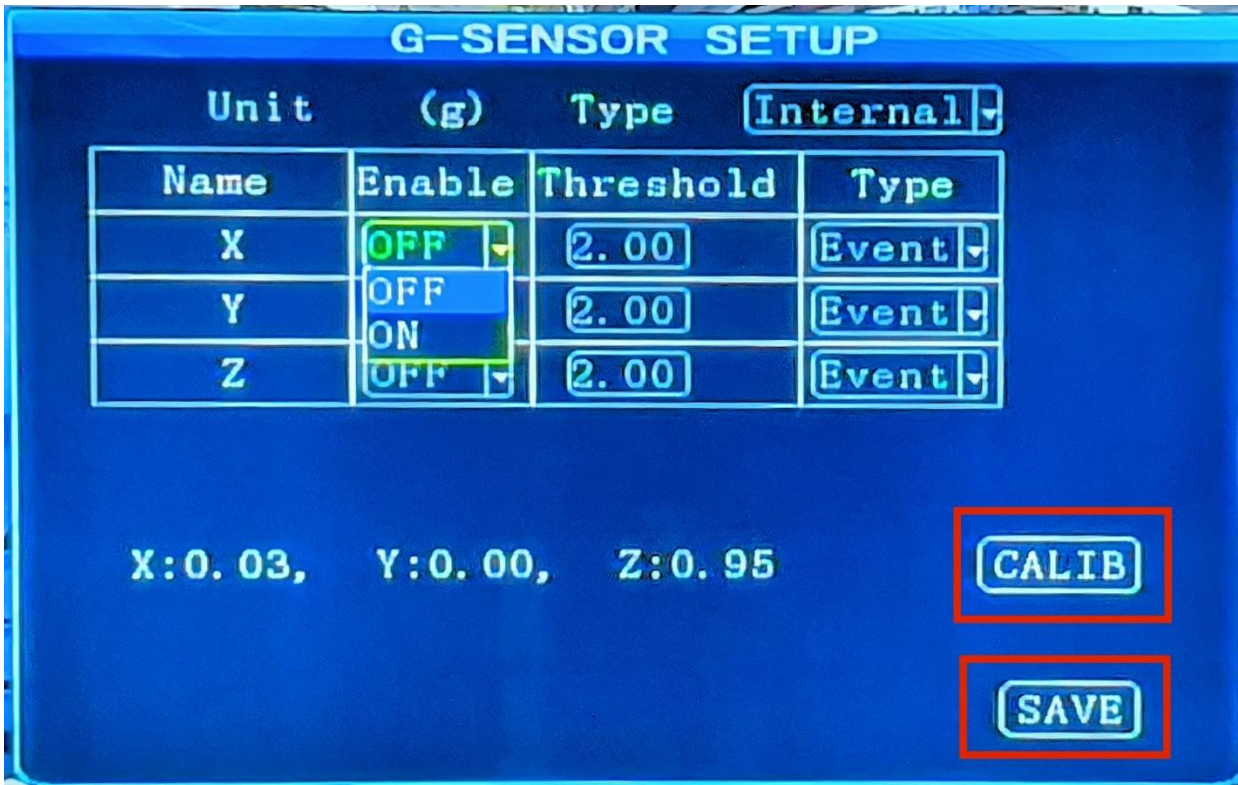
SENSOR SETUP (accelerometer) enables the REC02U to monitor the movement of the vehicle via 3 Axes (X, Y, Z). These axes can be used to trigger a response based on the trigger values set in the G Sensor Menu. Readings from the sensor may indicate hard braking, acceleration, impact, sharp turns, etc. This information helps evaluate driver and vehicle performance along with load dynamics.

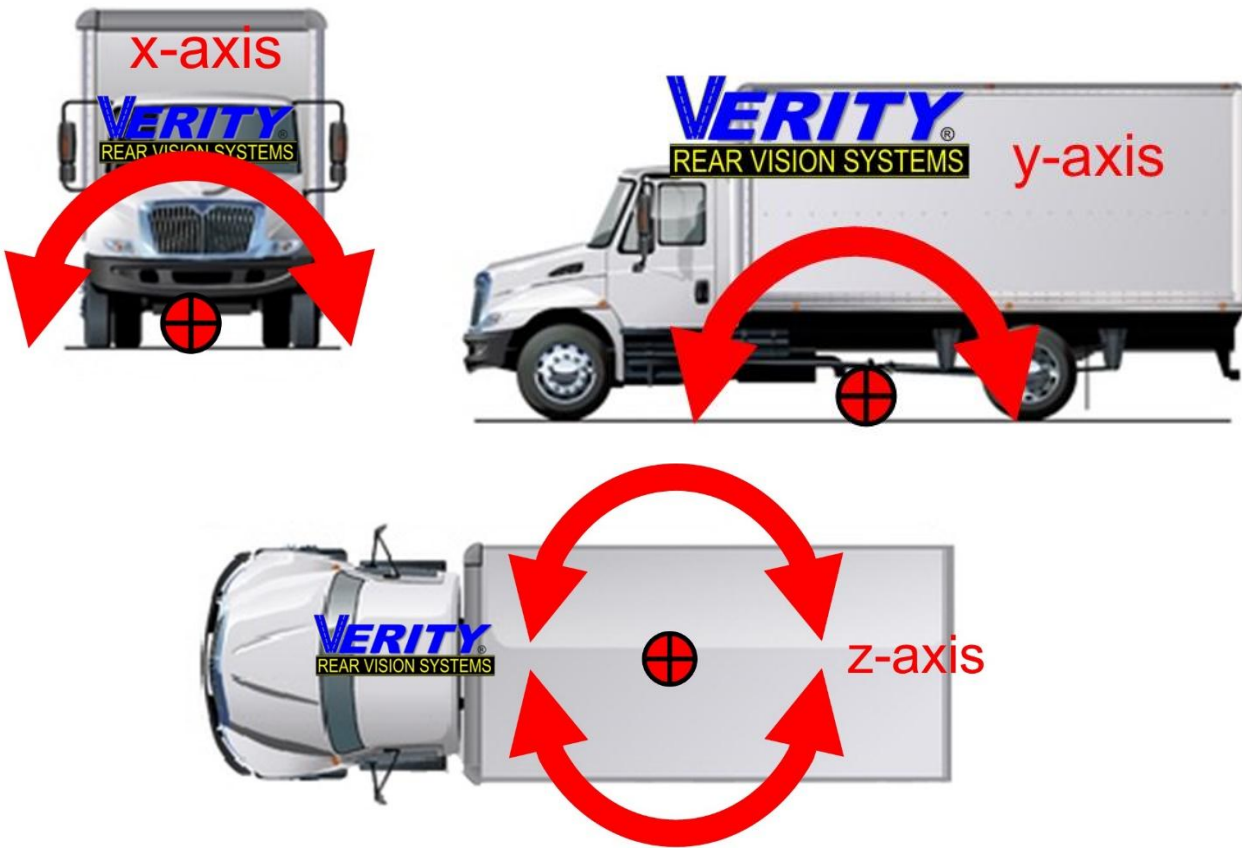
The three AXES of movement of the monitored vehicle are:

X = ROLL Possible high speed. Load causing vehicle shift

Y = PITCH Possible Hard braking or acceleration, speed bumps, etc.

Z = YAW Possible bad shocks, uneven road surface or unsecured load, etc.





DATA: displays the current G Force reading for each Axis

ENABLE: Select from two options: ON – OFF

TRIGGER (THRESHOLD) Enter the G Force setting at which to trigger a response

TYPE Select the Type of Trigger response required:

ALARM: Sends a trigger to generate an alarm that can be searched

EVENT: Sends a trigger to enter a message in the ALARM/EVENT Log

CALIBRATE Select after installing the REC02U to calibrate the G Sensor

SEARCH OPTIONS

The SEARCH SYSTEM and ALARM LOGS Menu allows the search of all logged events or to search for specific events the MDVR recorded on the installed SD card. The colored grid shown lists the days of the search month. To expedite file searches, days with recordings available have been highlighted in green.

SEARCH DATE: Enter the date to be searched

START TIME: Enter the Start Time in 24-hour format for the files to be searched

END TIME: Enter the End Time in 24 hour format for the files to be searched

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TYPE: Select from three options:

SYSTEM: Search recordings

ALARM: Search recorded ALARMS

PATH: Must be on SD

RECORD SEARCH

01	02	03	04	05	06	07	08	09	10	11
12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	31		

DATE

Start Time End Time

Rec Path

Rec Type

Channel

LOG SEARCH: allows the viewing of alarms such as G-Sensor triggered events

LOG SEARCH

01	02	03	04	05	06	07	08	09	10	11
12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	31		

DATE

Start Time End Time

Log Type

Log Path

OPTIONAL: ADD02CP
LED Operations Panel & IR Extender



PWR: Power light indicates when MDVR has power.

REC: Recording light indicates recording is functional.

HDD: Hard Disk Light indicates Hard Disk is functional (This does not apply to DVRs that use SD cards.)

ALM: Alarm Light indicates the following alarms: IO Linkage Alarm, Speed Alarm, G-sensor Alarm, Temperature Alarm, and HDD error alarm.

V-LOSS: Video lost light.

ERP: Error light indicates functioning errors.

IR: Sensor for the MDVR Remote Control.

To access, use the following:

Click on
PERIPHERALS



Click on
SERIAL



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The Baudrate needs to point to "Panel"

