



User Manual For X3II-4CH MDVR GUI

Mobile Digital Video Recorder



NOTICE

The information in this manual was current when published. The manufacturer reserves the right to revise and improve its products. All specifications are therefore subject to change without any notice.

The purpose of this manual is to kindly aid the user for the operation for our MDVR (especially for GUI setting). The user should have a basic understanding of computer operation and basic knowledge of how to connect peripherals and make some settings.

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1 PRODUCTION CHARACTERISTICS AND OVERVIEW

1.1 PRODUCT OVERVIEW

SVT-MDVR-X3II is middle range MDVR model specially designed for vehicle surveillance and remote monitoring, combined with high-speed processor and embedded operating system. The advanced H.264 video compression and decompression, wireless transmission, GPS location make X3II to be a very powerful and perfect solution for vehicles.

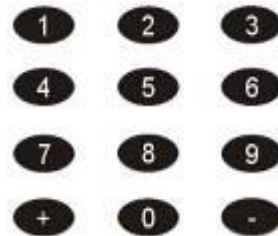
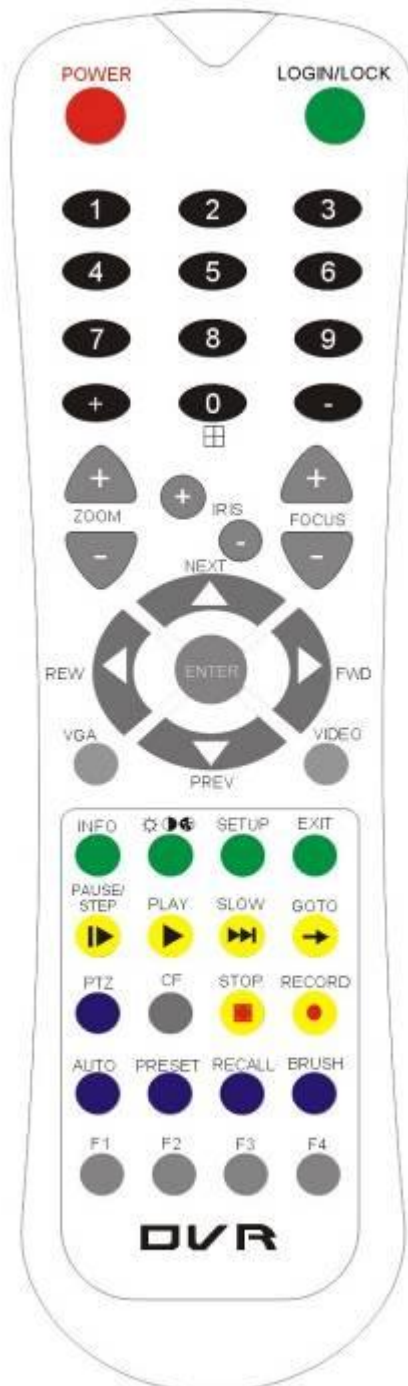
MDVR Features and Capabilities

- Revolutionary vibration-resistant technology for 360 degree installation
- UPS (Uninterrupted Power Supply) supported to protect the MDVR from the damage of high voltage and provide the power to the MDVR when the MDVR external power is cut off (for example accidents happen)
- Streamax patented special file system is professional to improve the security level of data, provide self-recovery function, self-check, self-backup for certain critical data and avoid data fragment that affects system efficiency.
- Dual streams: one for local recording and one for wireless transmission.
- 4 channel real-time D1 at 25 fps/30fps continuous or priority video recording and live view display.
- Semi-transparent GUI makes setting for GUI and live display synchronously.
- Mirror recoding supports the hard disk and SD card recording at the same time with same frame, same resolution and same image quality.
- Maximum 1 hour pre-recording and 30 minutes post-recording
- Watermark prevents any modification in recorded file which is part of the law enforcement.
- 4 channels for high-fidelity, digitally recorded, synchronized audio matched to 4 video channels
- User friendly criteria to playback the events associated video only.
- Automatic timer to resume the live display if the unit is idle for user defined time.
- User-selectable settings for quality and audio record enable/disable for each video channel.
- 12v power supply for multiple devices such as cameras, sensors, relays and any other accessories.

Remote Connection Capabilities

- PC-Based Client software for live viewing, playback video, playback events associated video, and download capabilities. Support CMS (Central Management System) for remote monitoring via built-in 3G module (HSPA or EVDO), Ceiba (Playback Analysis Software) for video playback, meta-data analysis.ADS by WIFI to download the video files and event files.

1.2 REMOTE CONTROL



Numeric

Input Keys

Use the numeric button to input digital in setup menu or switch the full screen for each channel or the channels QUAD view



Navigation

Arrows

Use the ARROW keys to move between selections, input fields and icons.

Press ENTER to select

And EXIT to return and entering into the OSD screen to check the MDVR working status. Next and previous is also used to increase or decrease volume when at live or search screens.

Each MDVR includes remote control that allows the user to transmit commands to recording module and display on screen control menu

Remote Control Key Functions:

1) Numeric Keypad

[0-9] keys: During setup, number keys are used to input number values. In QUAD view, the user can press 1, 2, 3 and 4 to switch the full screen for each channel, and press 0 to switch to quad view.

During full screen view of each camera, the user can press  key to adjust contrast, luminance, color and saturation, and then press + and - to make the adjustments. Pressing

 will navigate through the color adjustment options.

2) Setup Menu Navigation

▲, ▼: Up, down directional keys: Move selection up and down in setup menu.

►, ◀: Left, Right directional keys: Move cursor left or right in setup menu.

[ENTER] key: During setup, select and save the settings

3) Other Keys Function

LOGIN/ LOCK	The user can press LOGIN / LOCK or SETUP key to enter the GUI to setup. If password is enabled, the user have to input default admin password: 88888888.
POWER	To reset the MDVR to sleep mode (The user can press power button again to let MDVR start up when it is in sleep mode).
	Switch full screen of one channel to quad view.
	Brightness, contrast, color adjustment for each channel. Use [+] [-] button to change the values. The user have to adjust the values for each channel individually.
SETUP	Login GUI to setup the parameters.
EXIT	Return to the previous menu.
STOP	Used to stop the recording manually. Only valid when the user setup the record mode by the setting in MDVR menu
RECORD	Used to start the recording manually. Only valid when the user setup the record mode by the setting in MDVR menu.
PAUSE/STEP 	Freezes playback to a single frame and can advance one frame at a time. To advance the frame press. Pause / Step to move frame by frame. Press EXIT to return to normal playback speed.
PLAY 	Starts/Resumes playback from any other mode (FF, RR, Frame by Frame etc).
SLOW 	Reduces playback speed to 1/2, 1/4, 1/8 modes. Press PLAY to return to normal playback speed.
GOTO 	Quick search mode when the user playback the record file in MDVR. Press GOTO button and input the desired time, and the select SURE to jump to the specific time the user want to playback.
NEXT 	Increase volume while playback (if audio is recorded).

PREV ▼	Decrease volume while playback (if audio is recorded).
REW ◀	Rewinds the video while playback. X2 and X 4 modes available.
FWD ▶	Fast forward the video while playback. X2 and X4 mode available.
CF	No use at present.
[F1]	Export all the event record files of the day to USB by press F1 key.
[F2],[F3],[F4]	Reserved for future use.

4) PTZ Function Key

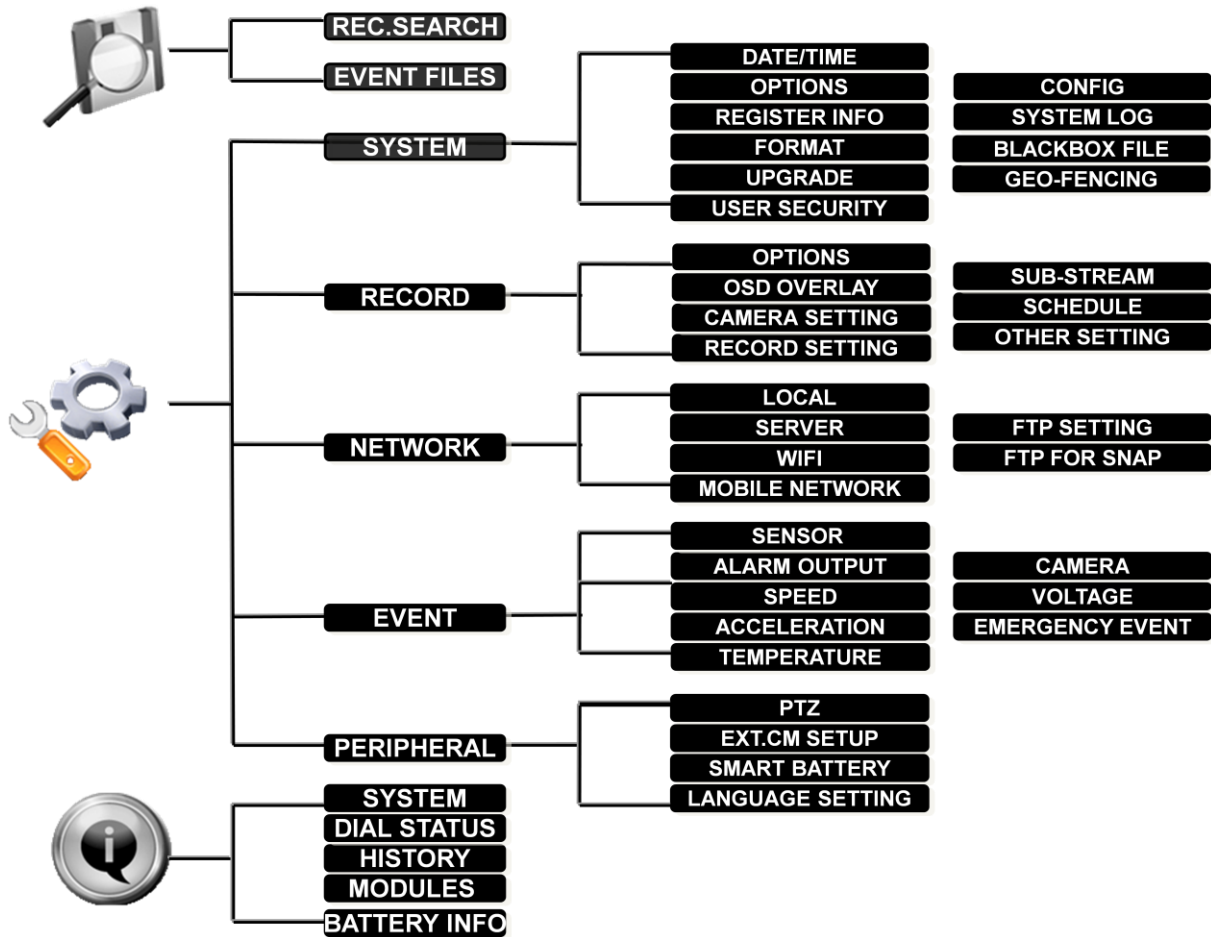
X3II MDVR can support PTZ camera by the protocol PALCO-D or PALCO-P. While the MDVR is connected the PTZ camera by RS485 signal (on the RS232/485 expand box), following commands can control PTZ:

[ZOOM IN +], [ZOOM OUT -]	ZOOM IN/OUT
[IRIS +], [IRIS-]	Brightness control
[FOCUS +], [FOCUS -]	Focus control
PTZ	Enable the PTZ function
AUTO	Auto run with the PTZ pattern
PRESET	Preset default position
RECALL	Recall the position that the user have setup.
BRUSH	Brush the glass screen



Please put the battery into the remote control before the user use it as there is no battery in the standard package

1.3 GUI (GRAPHIC USER INTERFACE) TREE



2 SYSTEM START UP

After connecting the MDVR to a vehicle power supply, turn on the vehicle ignition and the unit will automatically start up. Power is normally supplied to the MDVR as long as the vehicle ignition is ON. "Display only view" of the cameras is immediately available to be viewed in quad mode. Normally, the power supply for MDVR is about 12V/3A, without any accessories.



System Login for Setup



The MDVR GUI is semi-transparent. The user can setup the transparency percentage from the MDVR GUI.

During the setting, the user can check the video from each camera as well.

Please make sure the user lock the removable hard disk case before connect the power for MDVR,

- If password is disable, press SETUP key on the handheld controller into the setup menu directly.
- If password is enable, press LOGIN/LOCK OR ENTER key on the handheld controller, the setup menu will appear.



DEVICE NO.: The unit ID of MDVR. The user can setup the ID for the MDVR in the menu "REGISTER

INFORMATION". After setting, the ID number will appear automatically on the login screen. It's the number in the bracket

PASSWORD: Enter the admin password or user password.

Keyboard: Press **【Enter】** to use keyboard to type device ID and password.

- 1) 0~9, number key, press **【Enter】** to select the number.
- 2) 123: Input type shift key. (Number, capital, small letter)
- 3) **【←】** delete, **【↑】** Exit.

3 GUI CONFIGURATION

This part will show all the main functions for MDVR including SEARCH, SETUP and INFORMATION. SEARCH is for searching all the regular video files and alarm files. SETUP is for all the configurations for MDVR including recording, playback, event, network setup and INFORMATION displays the MDVR and accessory working status.



Please press SAVE in the GUI menu to make all the setting valid. The MDVR system will give the user a remark if the user save the setting successfully. After the user modify the settings for the network, and recording, the MDVR system will restart automatically after the system exits to Quad view
The MDVR will stop recording when enter into the MDVR configuration GUI.

3.1 SEARCH



3.1.1 REC. SEARCH

The user can search all the video files including normal files, alarm files by record date and file type and storage source. Please select the **REC.SEARCH** and enter into following screen.



REC. SEARCH

S	M	T	W	T	F	S
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				

SOURCE:

TYPE:

DATE:

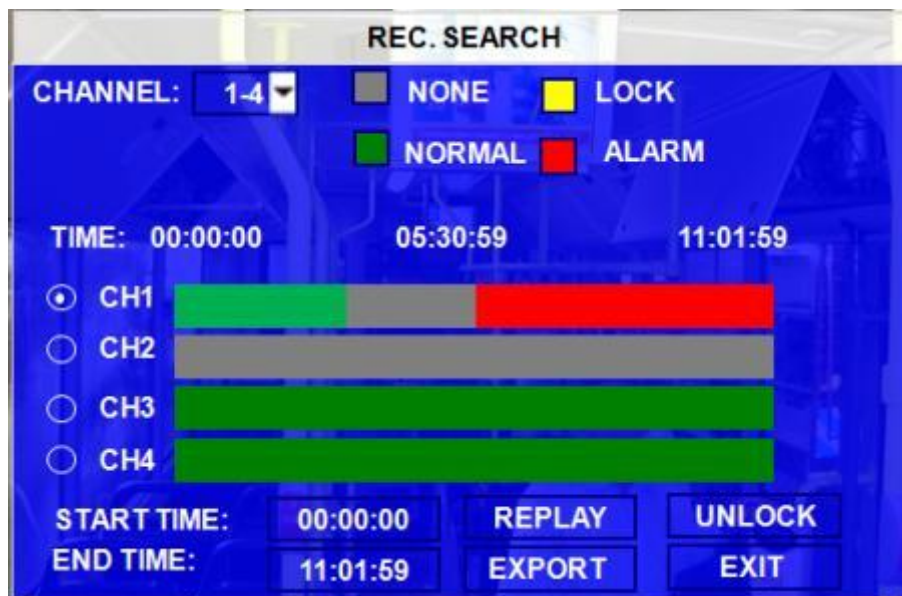
SEARCH **EXIT**

SOURCE: Source means which storage medium the recording files are stored in. Hard disk is the main recording medium for MDVR X3II. But this model can support SD card for mirror recording as well.

TYPE: The type of the file including all file, alarm file and normal file.

DATE: MDVR system will display the current date automatically. The date with record files is indicated by green. The date with alarm file is indicated by red. The date without video files is indicated by background color.

Please press **SEARCH** to enter into the below menu



REC. SEARCH

CHANNEL:

☐ NONE ☐ LOCK

☐ NORMAL ☐ ALARM

TIME: 00:00:00 05:30:59 11:01:59

☒ CH1 ☐ CH2 ☐ CH3 ☐ CH4

START TIME: 00:00:00 REPLAY UNLOCK

END TIME: 11:01:59 EXPORT EXIT

CHANNEL: As X3II supports 4CH, the user have to choose the channels from which channel the user want to playback the video.

VIDEO FILE STATUS: **GREY** mean there is no video file in this channel or no video during this period, **GREEN** means the file is normal recording file, **RED** means alarm file but not locked, **YELLOW** means the locked alarm files.

START TIME and END TIME: The MDVR device can support the video clip function. This time schedule is for both playback locally (playback on MDVR device) and export (export to thumb drive and playback on PC by MINI Player or Ceiba software). The user have to choose the channel first, and then setup the start time and end time for the video clip. For example: if the user select the start time is 01:20:00 and the end time is 02:20:00, then click **REPLAY**, the MDVR system will playback (local playback) the video file in this period on this channel. During playback, the user can press **ENTRE** key to show OSD information.

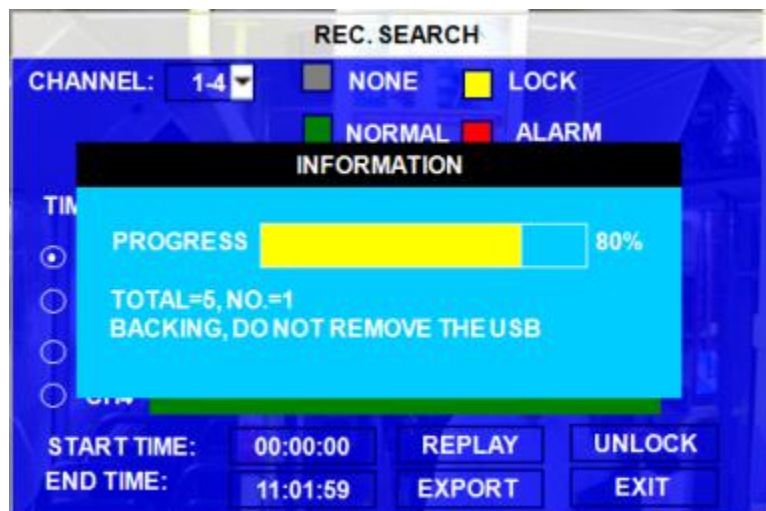
UNLOCK: the user have to select the channel first, and then unlock the files in certain period.



Please active the lock files in **EVENT** menu. Only **EVENT** file can be locked since for end user the event files are very important.

If the video file is locked, it cannot be deleted by **HDD** overwrite function. The user have to unlock the files first and then **HDD** overwrite function will delete the files. Only the **HDD** format will delete the locked

The user can export the MDVR video files to external storage device for playback easily. Just please input the **START TIME** and **END TIME** for the video from certain channel for local playback, insert the external storage device by **USB** port and then click **EXPORT**, the following screen will pop up. During backing up, the external device is not allowed to be moved.



TOTAL: total quantity of the files that the user selected for back up.

NO.: The file number which is being copied to external thumb drive.

After successful backup, the following screen will pop up.



If the user do not connect external storage device or the storage device is defective, the system will display NO EXTERNAL STORAGE.

If the MDVR's current video type is different with the setting for the MDVR record last time, the video file can not playback, for example, the video type of record files is NSTC, but the MDVR recording system now is changed to PAL, the user can't playback the video file until the user change the video type to be NSTC. Meanwhile the MDVR system will show the user the INFORMATION: PLEASE CHANGE THE VIDEO TYPE TO PLAYBACK.

After backup, the user can copy the video clips to the computer for playback. This exported video file can be playback easily by Stremax MINI player or Ceiba as following:

By Mini player:



MINI player is a very simple player developed by Streamax. With it, user can playback the video files including video, audio, GPS location, alarm information easily.

By Ceiba software:



3.1.2 EVENT FILES

Search for all the event LOG.



EVENT TYPE: The type of the alarm file including I/O ALARM/ACCELERATION/SPPED/TEMP ALARM/BD ALARM/MD ALARM/VL ALARM. The user can please select different alarm type to search the log and playback the corresponding video files.

DATE: MDVR system will display the current date automatically. Or the user can input the date the userself by the soft keyboard.

Please press **【SEARCH】** to enter into the next menu listing out all the LOG depends on FILE TYPE and DATE selected.

EVENT LIST							
SEL	TYPE	NAME	DATE	TIME		FIRST	
☒	A	MD	2013-12-16	16:21:46	R	PGUP	
☒	A	MD	2013-12-16	16:21:21	R	PGDOWN	
						LAST	
						REV.	
						EX LOG	
						EXPORT	
						EXIT	

SEL: For selecting the LOG for backup. Please move the arrow key on remote control to select the LOG file that need to back up. The file selected will be remarked by the icon ☒. Please press **【REV.】** to for reversing selection.

EVENT NAME: The event name is the one that the user setup for the events on the EVENT menu. But here just show the event OSD information (the abbreviation). The alarm includes such as video loss, I/O sensor, alarm for over speed, low speed or high temperature and so on.

DATE: Display the date on which the alarm is triggered.

TIME: The start time when the alarm is triggered

REC: if there is an red "R" means it has the corresponding alarm video files.

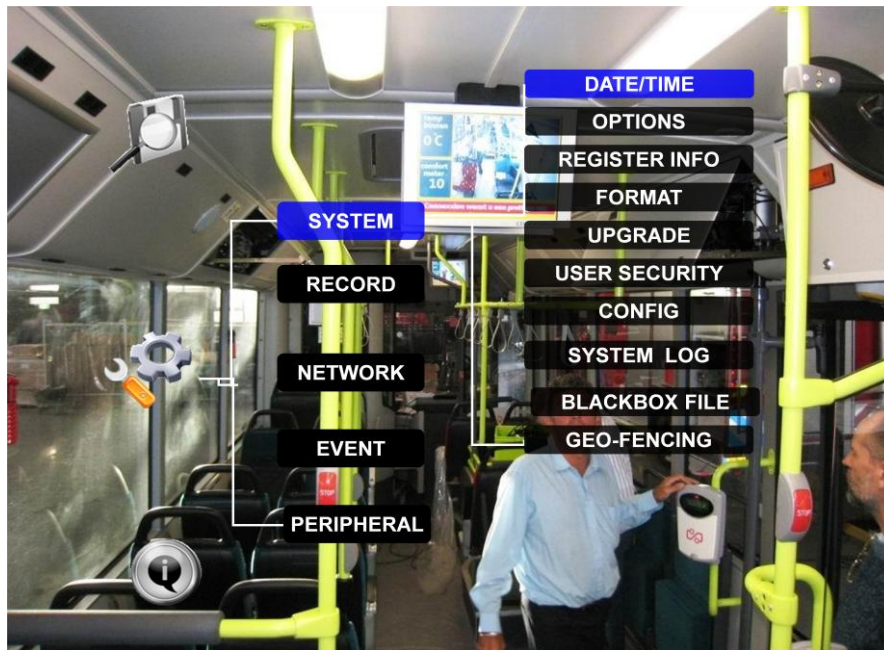
REV.: Reversing selection. For example: If there are no any files are selected and the user select **【REV.】**, all the files are selected. If one file is selected and select **【REV.】**, the others will be selected and the originally-selected one will be unselected.

EX LOG: Export the selected LOG to external device by USB port on the front of MDVR.

EXPORT: Export the corresponding video if the event has the record file. If no related video file, the user will got a remind information that no video file.

3.2 SETUP

Move arrow key to select SYSTEM and press ENTER. The MDVR setup screen will show the menu as below:



3.2.1 SYSTEM



3.2.1.1 DATE/TIME

DATE FORMAT: Press ENTRE on remote control to select different format MM/DD/YYYY, DD/MM/YYYY, YYYY-MM-DD

TIME FORMAT: 12H or 24H, Press ENTER to select different format.

TIME SYNC SOURCE: The system can adjust the time in different zone via either "GPS" or "NTP".

A: While selecting the "GPS", the MDVR device must have GPS connection (Should have GPS module and antenna) and GPS must receive the signal. When the system time arrives the sync time, MDVR unit will synchronize with GPS time once.

B: While selecting the "NTP" (Network Time Protocol), the device must have network access connection and assign the NTP IP location.

TIME ZONE: Please choose the correct time zone for MDVR system.

SYNC TIME: This is the time when the unit will sync the system time every day. The method depends on the setting on the TIME SYNC SOURCE option:

NTP SERVER IP: Input the server IP which can support NTP protocol, in order to allow the system can have time synchronization through the network. [Example: "192.43.244.18", "129.6.15.28", "211.22.55.116", "194.88.2.60"]

DST: Daylight Time. Only when it set on, the following option will available.

DST MODE: There are two modes: AUTO/MANUAL. Auto: According to the international DST, i.e.: valid only between 2AM on Second Sun in March and 2AM on First Sun in NOV.



The image shows two screenshots of the 'DATE/TIME' configuration menu. Both screenshots have a blue background with white text and green buttons.

Top Screenshot (DST MODE: MANUAL):

- DATE: 2013-12-12, FORMAT: DD/MM/YYYY, THU
- TIME: 09:58:26, FORMAT: 24H
- TIME SYNC: GPS
- TIME ZONE: +8
- DST: ON, DST MODE: MANUAL
- 2AM ON: THIRD, SUN. IN: APR.
- 2AM ON: THIRD, SUN. IN: APR.
- Buttons: SAVE, EXIT

Bottom Screenshot (DST MODE: AUTO):

- DATE: 2013-12-12, FORMAT: DD/MM/YYYY, THU
- TIME: 09:58:26, FORMAT: 24H
- TIME SYNC: GPS
- TIME ZONE: +8
- DST: ON, DST MODE: AUTO
- 2AM ON SECOND SUNDAY IN MARCH
- 2AM ON FIRST SUNDAY IN NOVEMBER
- Buttons: SAVE, EXIT



While setting the DST, the former date must be earlier than the later date. If the two setting date is the same, the DST will be invalid.

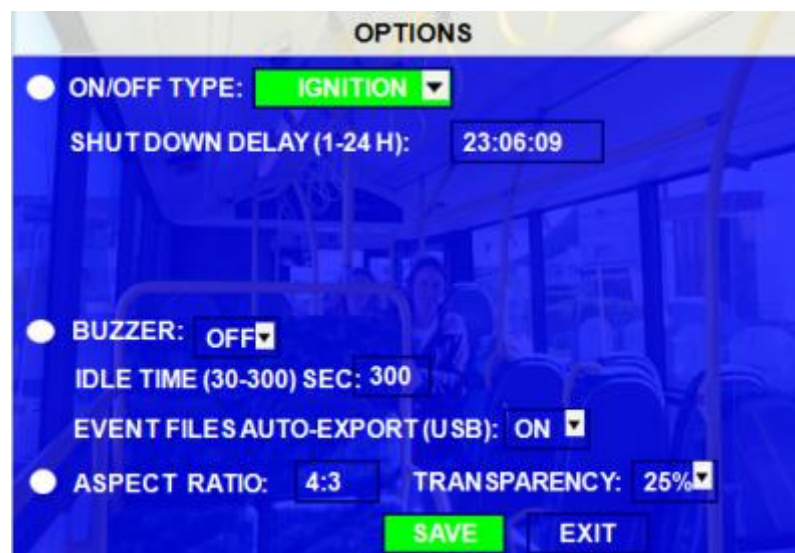
Scroll to **【SAVE】** to make the setting valid.

3.2.1.2 OPTIONS



ON/OFF TYPE: There are ignition, timer and ignition or timer three options. They are the modes to boot up the MDVR device (not for recording). For example, the setting is TIMER from 5:00~12:00am, MDVR will startup automatically at 5:00am and shut down at 12:00am, but after the MDVR starts up, it records or not depending on the setting in the SCHEDULE and RECORD SETTINGS menu.

- A) IGNITION:** for shut down delay function. If the user make the setting for SHUT DOWN DELAY time is 5 min, the MDVR will shut down in 5 minutes after the ignition is off. This means that for example: if the SHUT DOWN DELAY setting is 1 hour. It is 5:00am when the user turn off the ignition, the MDVR system will shut down at 6:00am not at 5:00am.



- B) TIMER:** MDVR will boot up or shut down automatically at certain time configured every day.
- C) IGNITION OR TIMER:** means include both conditions.



BOOT UP TIME: The exact time for MDVR starts to work every day.

SHUT DOWN TIME: The exact time for MDVR shut down every day.

AUTO BOOT UP ON SCHEDULE: ON means TIMER start up function is linked to record function. This means that if the user boot up the MDVR device at certain time and the MDVR system will to start recording at the same time. For example, if the BOOT UP setting is 6:00 and SHUT DOWN TIME setting is 8:00am, but record schedule is 5:00, then the MDVR will start up and record at 5:00.

BUZZER SWITCH: ON means the buzzer will alarm when alarm happens, OFF means no audio when alarm happens.

IDLE TIME (SEC): How long the operation interface will switch to the QUAD view. If the user does not make any operation on MDVR GUI for some time, the MDVR system will return back to the QUAD view automatically. We suggest that the user please setup this idle time as the user setup demand. Once the MDVR access into the GUI, the MDVR will stop recording.

EVENT FILES AUTO-EXPORT (USB): When this switch is ON, the user can back up all the alarm record files of the current day to thumb drive by press F1 key on remote control.



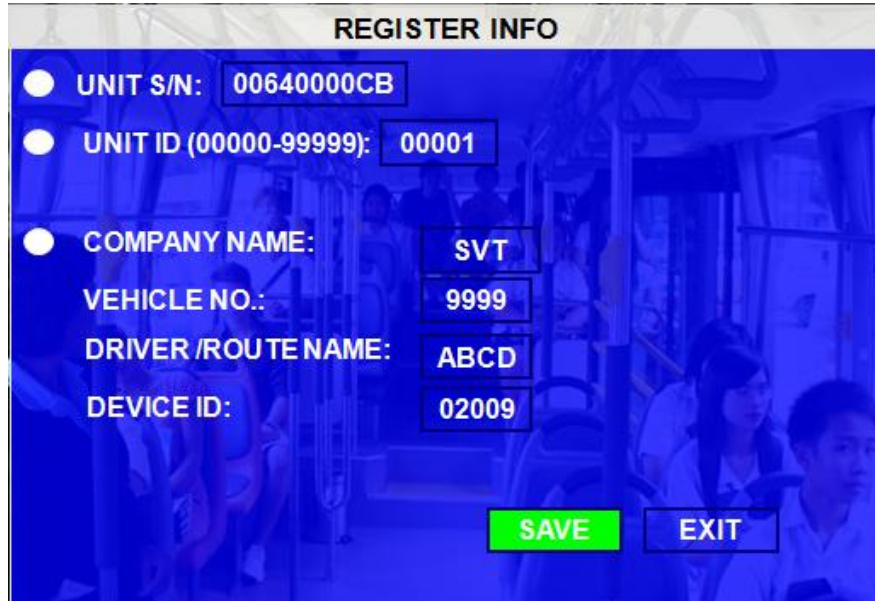
For TIMER type, if the setting for boot up time is 6:00:00 and shut time is 11:00:00, this means that the MDVR only work from 6:00~11:00am every day and after 11:00 the MDVR unit will shut down “automatically. The “shutdown delay” function is only for the IGNITION / IGNITION or TIMER setup.

ASPECT MODE: This is the output mode for monitor.

TRANSPARENCY: Setup the brightness for the screen display as the user want.

Scroll to **【SAVE】** to make the setting valid

3.2.1.3 REGISTER INFO



REGISTER INFO

- UNIT S/N: 00640000CB
- UNIT ID (00000-99999): 00001
- COMPANY NAME: SVT
- VEHICLE NO.: 9999
- DRIVER /ROUTE NAME: ABCD
- DEVICE ID: 02009

SAVE **EXIT**

UNIT S/N: The series number for MDVR. Each MDVR has only one S/N. This number is read from special encrypted chipset.

UNIT ID: Device ID. Use the **NUMERIC** keypad on the remote control to enter the system ID from 00000 to 99999. This ID is used to login to the unit (if security is enabled)

COMPANY NAME: The name of company. Press the arrow key on the remote control and highlight this option and then input the name of the company.

VEHICLE NO.: The number of the vehicles.

DRIVER/ROUTE NAME: The driver's name and the route name

DEVICE ID: This is the unique ID can be recognized for the message server of PC software for MDVR including CMS (Central Management Software), Ceiba (Ceiba Playback and Analysis Software) and ADS (Auto Download Software). If the user need to connect MDVR to any PC software, please make sure the user setup this ID for MDVR.

Remark: when the user connect MDVR to PC software, make sure VEHICLE NO. and DEVICE ID is filled.

Otherwise, it can't connect to message server.

Scroll to **【SAVE】** to make the setting valid.

3.2.1.4 FORMAT

Select the devices to format: HDD, SD card or external storage device.



DEVICE: Please press ENTER to select the target device to format. There are 3 options: HDD, USB and MIRROR SD. Then press **【FORMAT】** to format the device.

FUNCTION: FAST FORMAT, SLOW FORMAT

FAST FORMAT is the same as the fast format on PC.

SLOW FORMAT means the MDVR system will check whether the hard disk has bad sectors, if so, the MDVR will make a record and won't write data here again.

After format success, MDVR unit will restart automatically.

3.2.1.5 UPGRADE

Upgrade to new firmware or MCU.



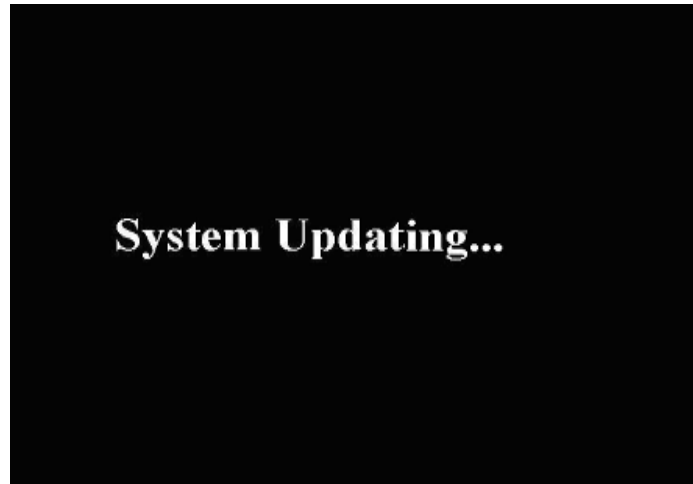
FIRMWARE: Upgrade the firmware.

MCU: Upgrade the MCU.

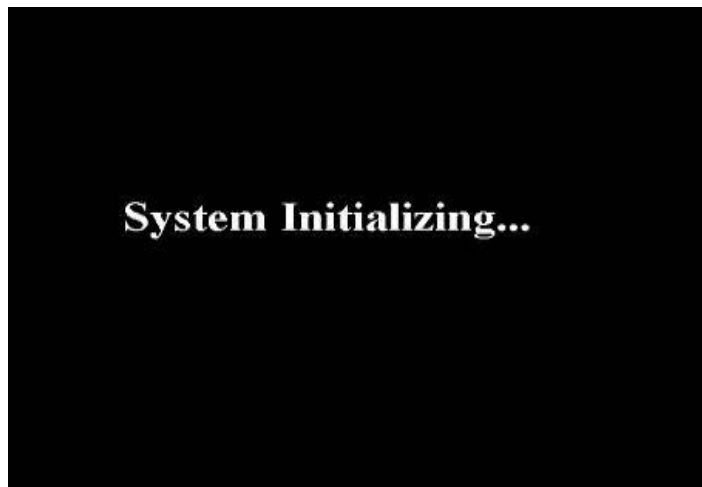
HOW TO UPGRADE THE MDVR FIRMWARE?

1. Please create one folder named **dvrupgrade** in root directory in thumb drive and then copy the firmware

- upgrade file to this folder.
2. Insert the thumb drive into the USB port on the front panel of MDVR.
 3. Please access into the MDVR GUI menu "UPGRADE", select "FIRMWARE" option and press **【UPGRADE】**, MDVR will upgrade the firmware automatically. Please make sure the user do not remove the thumb driver or cut of the power for the MDVR during upgrading the firmware as this is very easily to damage the FLASH for MDVR.
 4. During the firmware upgrade, then following screen will pop up.



5. After upgrade successfully, the MDVR system will restart automatically, as follow:



Please check the firmware version after the MDVR reboot up and make sure that the firmware upgrade is completely successful.

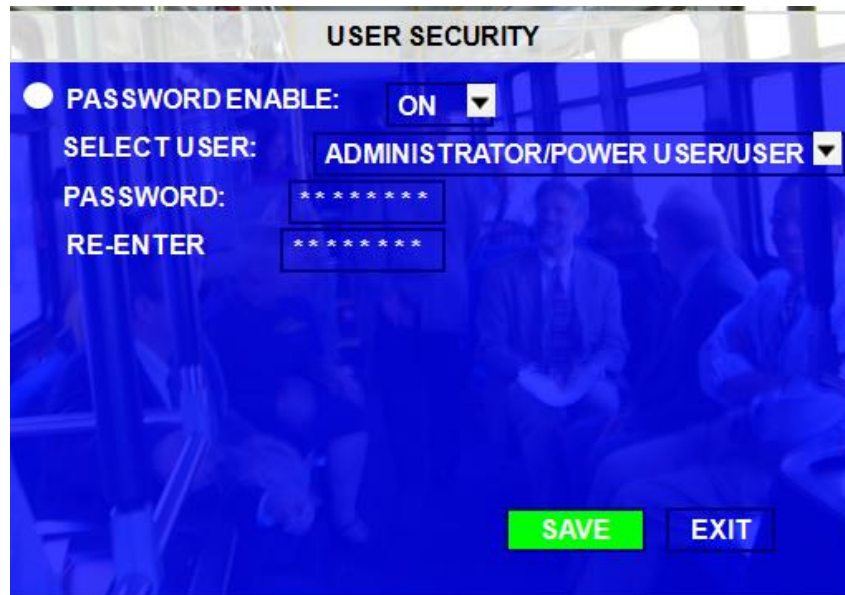
MCU UPGRADE: The step is the same as upgrade firmware.



If the FLASH is damaged or firmware crashes (The MDVR can boot up to System Initializing interface only and the POWER LED on the MDVR is ON. It cannot boot up to quad view interface). For this situation, please contact Streamax technical support trying to upgrade the firmware by TFTP upgrade

3.2.1.6 USER SECURITY

Setup the password for user and admin.

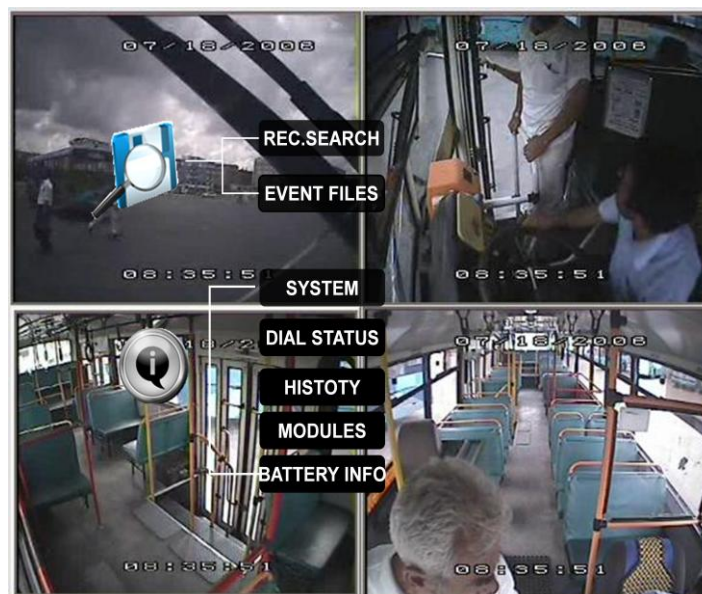


PASSWORD ENABLE: To active password access. Selecting “ON” will require a password in order to access the setup menu.

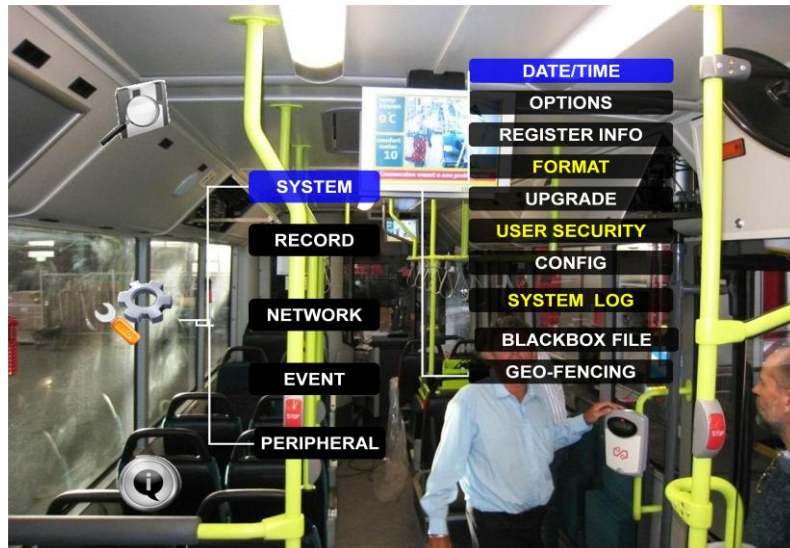
There are 3 levels for MDVR setup, the USER, the POWER USER and ADMINISTRATOR.

USER PASSWORD: the default user password is 22222222. This user level is used for the common user who can check the video files (and playback the file) and system information only (e.g, network status, the MDVR firmware version, the battery information), not allowed to make the configuration for the MDVR.

Below is the GUI interface for the user password authority. Usually this level can be authorized to the driver.



POWER USER PASSWORD: the default user password is 66666666. The authorization for this password is to check the video files, playback the files and make the setting for the MDVR, but not allowed to access below menu FORMAT, USER SECURITY, SYSTEM LOG.

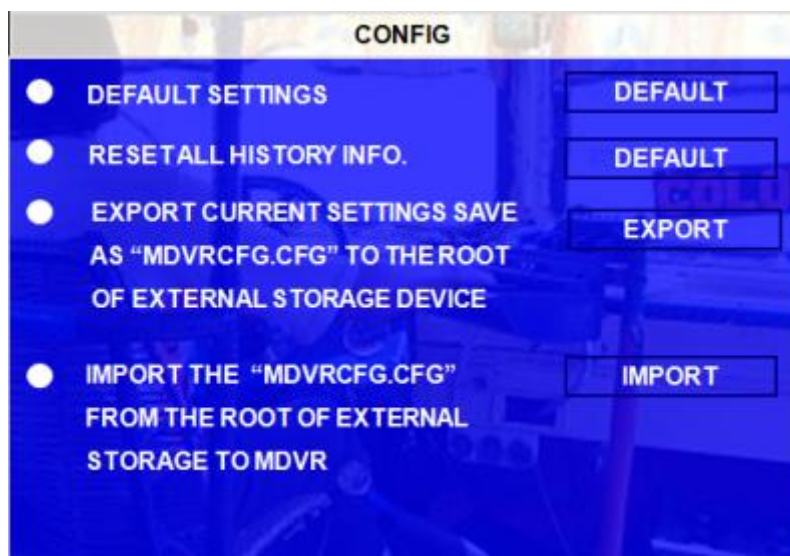


ADMINISTRATOR: The default password is 88888888. This is the highest level of the user which indicates that the user can access all the menus for the MDVR and make all the configurations for the MDVR device.

Re-enter must be same input as first password; otherwise the system would not accept the password setting when password does not match between the first line and the re-enter line.

Scroll to **【SAVE】** to make the setting valid.

3.2.1.7 CONFIG



Restore the default setting and export and import the MDVR configuration.

EXPORT: Export the all configuration for the MDVR to another MDVR to make sure that two MDVRs have the same setting. Please insert the external storage device to the USB port and then press **【EXPORT】** ,

Then the configuration file will backup to external device.

RESET: Reset all the history info to default values.

IMPORT: Follows the operation “EXPORT”, Import the MDVR configuration file to the MDVR, except MAC address and IP. Please insert the external storage device to the USB port on the MDVR (Must have configuration file in the storage device) and then press **【IMPORT】**. The configuration will be imported to another MDVR automatically.

RESTORE: Restore all the settings to factory default settings.

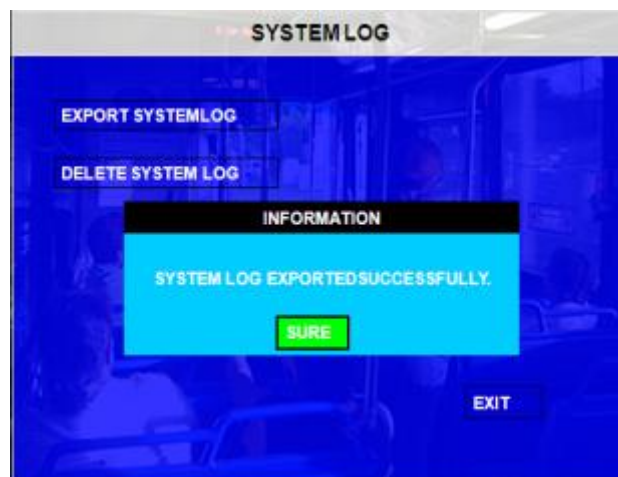
3.2.1.8 USER LOG

The user can export or delete the user log in this interface, as follow picture:

Remark: The user log mainly include: start recording and end recording time, event time, GPS module status, power on and power off time and so on.



EXPORT SYSTEMLOG: The user log exported to thumb drive is stored by .txt format and it will be saved to \userlog\00000\0*** folder according to the date.



3.2.1.9 BLACKBOX FILE

This function is used to export the black box file for analysis. Please insert the thumb drive to the MDVR and then the MDVR system will export the black box files to the thumb driver directly.



3.2.1.10 GEO-FENCING



GEO-FENCING SWITCH: this is the switch to enable GEO-Fencing function. This switch is only for MDVR terminal. To finish the setting for GEO-FENSE, the user need to setup the CMS software as well. For more details, please refer to the manual for CMS.

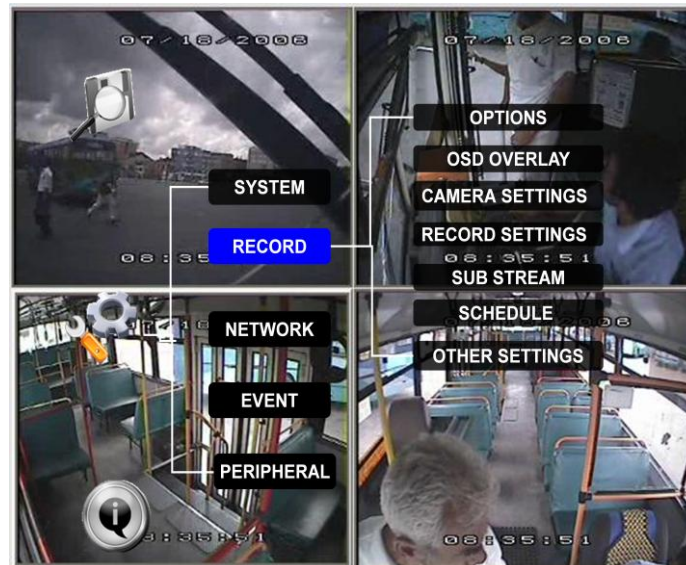
EXPORT and IMPORT: The function can be used in WCMS only (not standard CMS from Streamax). The user can setup the GEO-fencing in the WCMS side and this configuration file will be sent to the MDVR system by wireless network. The user can EXPORT this configuration file to the thumb driver and IMPORT this file to another MDVR system.

Remark: Geo-fencing means the user can setup a special virtual area for the vehicle, when the vehicle enters into or out of this area, the MDVR system will trigger the alarm.

For more details please check the CMS manual.

3.2.2 RECORD

Setup the related configuration for record



3.2.2.1 OPTION

This menu is used to setup the basic parameters for MDVR recording.



VIDEO TYPE: PAL and NTSC optional. The default setting is NTSC

RECORD MODE: Record mode, three modes as following:

NORMAL: When MDVR is power supplied and starts up, the MDVR will start to record automatically.

TIMER: This is the switch to start the TIMER recording function. When the user enable this switch, MDVR will start to record at configured time setting in the SCHEDULE menu

EVENT: This is the switch to start the event recording. Only the user enable this switch, when event is triggered, MDVR will create event record.

NORMAL REC RATE: normal record rate, two option:

GENERAL: MDVR will start to record according to the setup of RECORD SETTING.

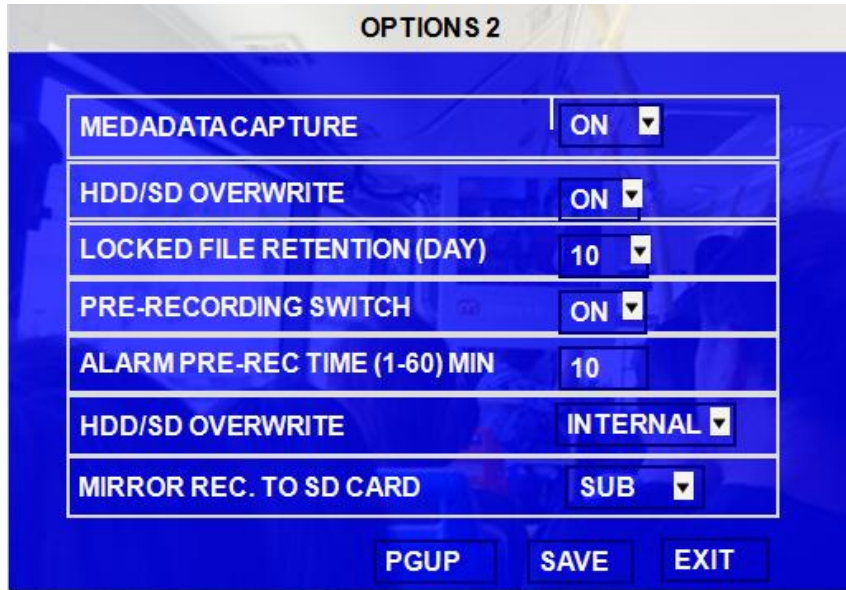
I FRAME: MDVR only record by I frame (the key frame for video) in order to take up less space of hard drive. BUT when event is triggered, MDVR will record according to setup of RECORD menu.

RECORD FILE TIME (MIN) : Recording file packing size, 15, 30, 45, 60 minutes optional.

ALARM DURATION (3-30) SEC: The alarm duration time, all the alarm for same type considered to be one alarm during the time configured for alarm duration. For example, if the setting for alarm duration is 10 sec and during this 10 sec, another same type (like panic button) alarm triggered, MDVR system will consider them to be one alarm event. And the alarm start time will be reset based on the second time for alarm.

ALARM POST REC (30-1800) SEC: Alarm post recording time.

BUZZER TIME: buzzer duration time setup when alarm is triggered



OPTIONS 2	
MEDADATA CAPTURE	ON ▾
HDD/SD OVERWRITE	ON ▾
LOCKED FILE RETENTION (DAY)	10 ▾
PRE-RECORDING SWITCH	ON ▾
ALARM PRE-REC TIME (1-60) MIN	10
HDD/SD OVERWRITE	INTERNAL ▾
MIRROR REC. TO SD CARD	SUB ▾
PGUP SAVE EXIT	

MEDADATA CAPTURE: The MDVR system will capture the black box file if the user enable this function. If the metadata is captured, when the user playback the video files, the blackbox information will be analyzed as well.

HDD/SD OVER WRITE: To make the HDD or SD card overwrite when there is only 8GB (for hard disk) or 1G (for SD card) spare space left.

ON: when hard drive space is less than 8G, according to “First in first out” rule, the MDVR system will start to delete the earliest record files till hard disk space equal or over 15G (except the alarm file which in locked time).

OFF: Device will stop recording when hard drive space is full (less than 500M), the user must replace a hard disk or delete recording file manually. Otherwise, the MDVR system will stop recording.

LOCKED FILE RETENTION (DAY): For the MDVR video files the user can lock or unlock them. Lock function is only for the event (alarm) files as they are very important. The locked files cannot be deleted by the HDD/SD overwrite function in the retention days. When the retention day is expired, the locked files will be unlocked automatically and deleted. Locked recording file save time can be configured to be 7, 10, 15, 20, 30, 45 days. During the retention time, the locked recording files won't be deleted. Once pass lock time, the recording file LOCK identifier will be from L to U, and then can be deleted automatically by overwrite function.

PRE-RECORDED SWITCH: ON/OFF, ON means open the function of pre-recording, OFF means not. If the user need to setup pre-recording function, the user must open this switch and also setup the time for pre-recording in this menu as well.

ALARM PRE-REC TIME (1-60) MIN: Pre-record time setting is from 1 to 60 minutes. For example: If the setting for pre-record is 30min, when alarm is triggered at 10:30, then the record file starting from 10:00 to 10:30 will be packed as one alarm file.

HDD/SD OVERWRITE: There are 2 options for the INTERNAL and EXTERNAL. INTERNAL is used for the internal mirror recording SD card. If the MDVR connects external fireproof box for mirror recording then the user should select EXTERNAL option. Mirror recording means that the hard disk and SD card can record at the same time with same frame, same resolution, same image quality. The main purpose for mirror recording is: when the hard disk is broken (like accident happens) the user can still get the video files in the last minute from the SD card. X3II MDVR can provide 2 kinds of mirror recording internal and external. Internal means that we have the SD card slot inside of MDVR device and the user just need to insert the SD card in the slot on the MDVR device and ENABLE the switch for mirror recording on the MDVR GUI menu. External symbolize that the user need to buy the fireproof box (SD card inside) from Streamax in case the vehicle is on fire. This fireproof box is specially design for the vehicle accident (like fire) and the maximum temperature can be 500 Celsius degree (can last 15 minutes)

MIRROR REC.TO SD CARD: The enable switch for mirror recording

3.2.2.2 OSD OVERLAY





DATE/TIME: Display date and time on OSD.

POSITION: Setup the display position for DATE/TIME

ALARM: Display alarm information on OSD including the I/O sensor, speed, temperature, motion detection etc...

ACCELERATION: Display the information for inertial sensor

TEMPERATURE: Display the temperature on OSD

FIRMWARE VERSION: Display the current firmware version

GPS: Display the GPS information, fixed means it will display the information always, just like date/time.

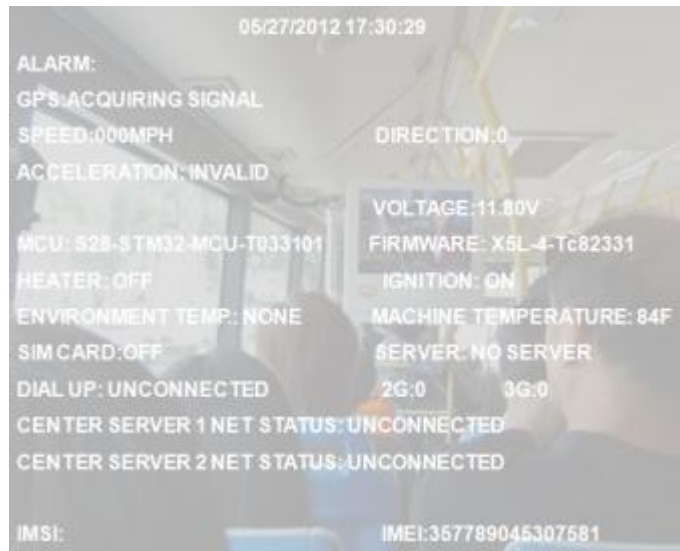
CHANNEL NAME: Display the channel name.

VEHICLE NO.: Display the vehicle NO.,

SPEED: Display the speed on OSD.

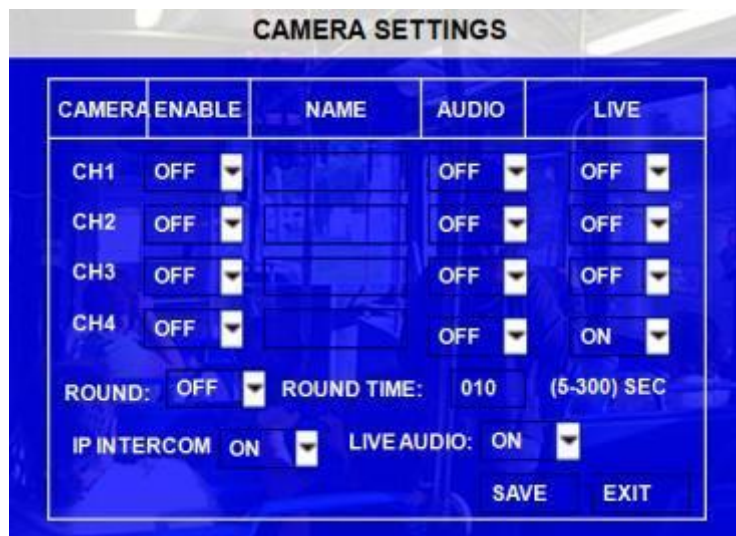
RECORD is ON means it will record the date/time, channel name and vehicle NO. into the record files.

To get the main information for MDVR working easier, on QUAD view, the user can please just press **【ENTER】** on remote control to show below screen. This screen will show all the important working information for the MDVR including sensor, 3G/GPS/WIFI signal and connection, firmware version, MCU version, SIM dialed up status etc... But the precondition for this OSD is the user must setup the OSD overlay menu to select which information the user want to display.



3.2.2.3 CAMERA SETTINGS

To setup the parameters for camera related with recording for each channel.



ENABLE: Enable the record function.

NAME: The name of the channel. For example, if the user setup the name for CH1 is ABC, the user can see ABC three letters display on the video from channel 1

AUDIO: Active the audio record function

LIVE: to enable the channel to display the image in the monitor output.

ROUND: Means channel loop function sequence, if the user setup time as 5 second, which means the video screen will shift to different channel (the sequence is from channel 1 to channel 4) in every 5 seconds.

IP INTERCOM: This is the switch for intercom function (we also say 2- way audio) which means that that driver can talk with centre server directly via wireless network 3G. When this switch is ON, the audio of intercom will be recorded into channel 4.

LIVE AUDIO: enable or disable the live audio settings switch.

3.2.2.4 RECORD SETTING

Make the configurations for resolution, frame rate, image quality parameter setting for each channel.



COMMON PARA			NORMAL	ALARM
CAMERA	RES	FR	QUALITY	QUALITY
CH1	CIF	25	4	1
CH2	D1	15	4	1
CH3	HD1	25	4	1
CH4	CIF	25	4	1

SAVE EXIT

RES: Resolution, D1, HD1, CIF optional.

NTSC: 704×576 (D1), 704×288 (HD1), 352×288 (CIF)

PAL: 704×480 (D1), 704×240(HD1), 352×240 (PAL).

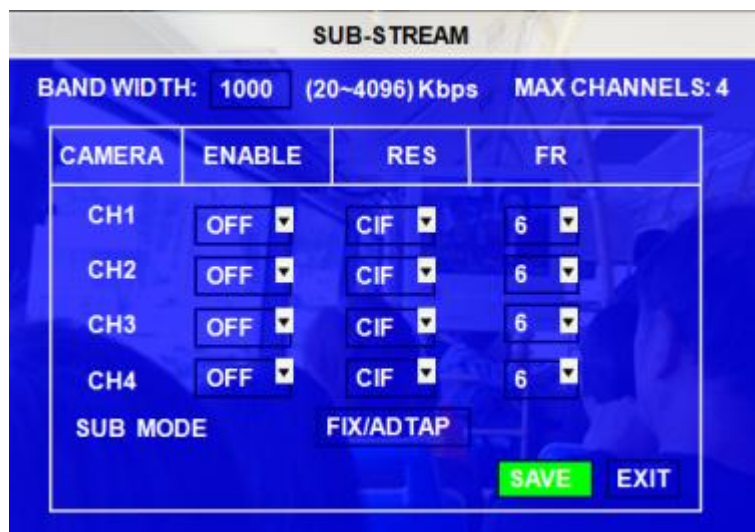
FR: Frame rate, frames per second, 1~25 (or 1~30 for NTSC) can be adjustable.

QUANLITY: Image quality, 8 levels optional, Level 1 is the best.

Normal quality is the quality for normal record, and alarm quality is for alarm record.

3.2.2.5 SUB-STREAM

Sub-stream is the settings for 3G wireless transmission. The user can setup the bandwidth and enable the channels. Otherwise, the MDVR system can't transmit the live video to the center server. The setup interface as follow:



BAND WIDTH: 1000 (20~4096) Kbps MAX CHANNELS: 4

CAMERA	ENABLE	RES	FR
CH1	OFF	CIF	6
CH2	OFF	CIF	6
CH3	OFF	CIF	6
CH4	OFF	CIF	6

SUB MODE FIX/ADTAP

SAVE EXIT

BAND WIDTH: Setup the band width for the sub-stream, which due to the network bandwidth of the SIM card.

ENABLE: Enable the function

RES: Resolution.

FR: Frame rate, frames per second, 1~25 (1~30 for NTSC) adjustable.

SUB MODE: There are 2 options, fixed and adapt. Fixed means that the transmitted resolution and frame is fixed by the network width configured. Adapt means that the transmitted resolution and frame can be adjust automatically by the network width.

3.2.2.6 SCHEDULE



DATE: To select the exact date for MDVR recording.

- ◆ Single Day: Choose the day to create a recording schedule
- ◆ Every Day: Choose "Every" to apply a schedule to every day of the week
- ◆ Weekday: Schedule will only apply Weekdays (weekday is from Monday to Friday)
- ◆ *****: Choosing the asterisks will suspend the highlighted schedule

TYPE: Press ENTER to change the type of the recording mode:

SCHEDULE 1/2:

- ◆ Press the RIGHT ARROW key to enter values using the NUMERIC keypad into any time field;
- ◆ SCHEDULE 1 is the first of two possible ON/OFF cycles that apply to any day in the period chosen under Date.
- ◆ SCHEDULE 2 is the second cycle for any day in the period. There is no need to overlap times of SCHEDULE 1 and SCHEDULE 2.
- ◆ Ending at 23:59 of one day and beginning with 00:00 of the next day will provide continuous recording without interruption (factory default setting)

3.2.2.7 OTHER SETTINGS



INITIALIZE INTERFACE: This means after MDVR starts up, which default interface the user prefer to show: CP3 menu interface or quad image interface. Quad Image is for the regular monitor output display. CP3 is the Streamax designed Control Panel which can support one LCD to display the image and realize the station announcement function (the precondition is: the MDVR device can support the station announcement function either)

Quad Image Interface:



CP3 Interface:

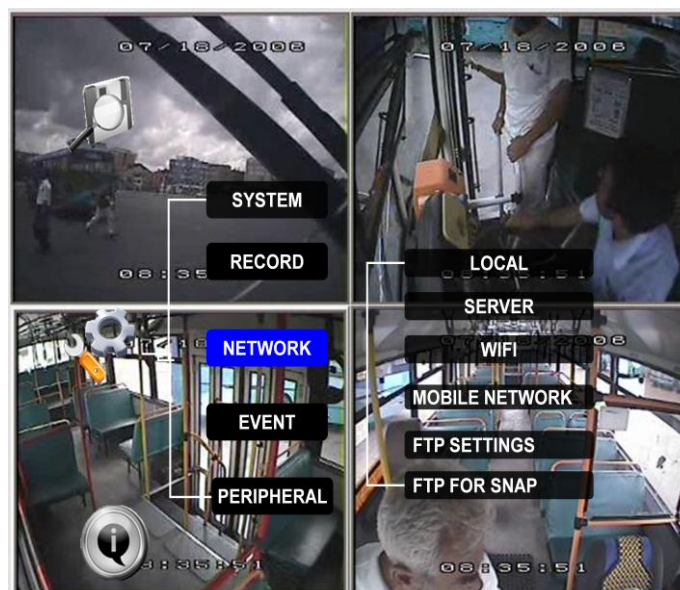


WATERMARK: Water mark is used to protect original data from illegal modification, as long as the user setup water mark.

EXPORT MINIPLAYER: This option is for user to export Miniplayer.

IMPORT TTS FILE: This option is for user to import TTS file for the audio announcer.

3.2.3 NETWORK



This part will describe how to setup the network parameters for PC software connection. (RJ45 cable /WIFI connection/3G)

X3II MDVR can support following PC software: CMS, Ceiba, ADS.

CMS (Central Management Software) is the software to manage the vehicles real time via 3G

Ceiba is the playback and analysis software

ADS is the downloading software

3.2.3.1 LOCAL

LOCAL NETWORK

☐ IP: 192.168.003.100
 SUB: 255.255.255.000
 GATE: 192.168.003.002
☐ CLIENT PORT: 10090
 WEB PORT: 10090
 DNS SERVER: 202.096.134.133
 MAC ADDRESS: 00-18-F5-0A-6B-9D

Local IP is the IP setting for the MDVR to make sure that MDVR can go online

The user must enter a fixed IP address to use network capabilities, please consult with local Internet Service Provider for the information. Use NUMERIC keypad to enter the TCP/IP address information:

IP: Enter the static IP address

SUB: Enter the subnet mask

GATE: Enter the gateway that the MDVR through to network

CLIENT PORT: no use at present

WEB PORT: this port is for IE access, the user have to add this port when the user want to access to MDVR through IE browser, of example, the user have to access MDVR by: <http://192.168.3.155:10090>

DNS: The DNS of the router, when the user want connect MDVR to internet via cable, or the CMS server using domain name, please setup the DNS server for resolving IP address.

MAC Address: MAC address is unique and cannot change it.

3.2.3.2 SERVER NETWORK

The sever IP and port setting for PC software.

SERVER

☐ CENTRE SERVER 1:
 NET. OPTION: CABLE NET. ▼
 MESSAGE SERVER: STATIC IP ▼
 192.168.000.100
 PORT: 08080
 MEDIA SERVER: STATIC IP ▼
 192.168.002.070
 PORT: 07263



There are two center servers the user can setup by the practical application. Usually the user need one server for CMS real time monitoring (by 3G) and ADS to download the video file or Ceiba to check the video by WIFI.

The user can connect MDVR via WIFI or CABLE and 3G at the same time.

NET. OPTION: There are three options. The first one is WIFI. The second one is cable network, and the third one is MOBILE NETWORK. Please select the correct option

MESSAGE SERVER: This server IP must be the IP of the PC that installed message server for PC software connection. The user can setup it as Static IP or Dynamic Domain name due to the server.

PORT: please use the default port 5556 here.

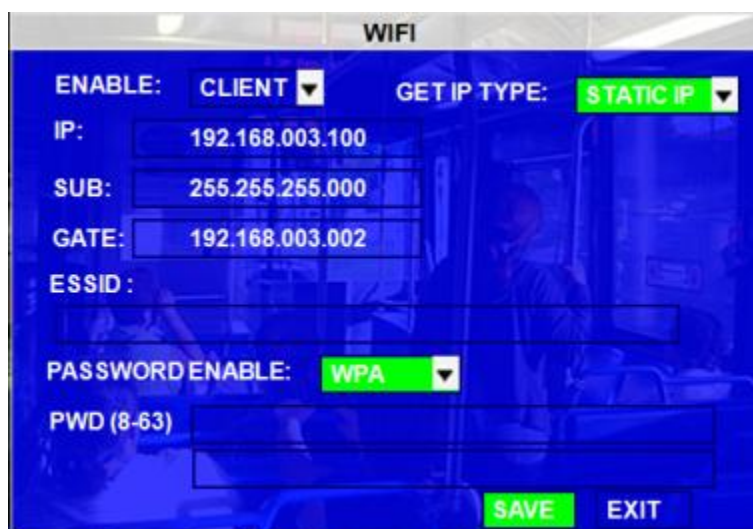
MEDIA SERVER IP AND PORT: NO use at present.



Please refer to the detailed manual for PC software settings for this part.

3.2.3.3 WIFI

This menu is used to setup WIFI parameter for Auto download software or Ceiba playback software.



The MDVR WIFI can be used a CLIENT which means that MDVR system can get online by the WIFI module built-in MDVR.

GET IP TYPE: There are two options; STATIC IP means you have to arrange a static IP for WIFI sever, and DYNALIC IP means WIFI will get a dynamic IP, and make sure the DHCP function is OK.

IP: Enter the static IP address of built-in WIFI. Only when you select STATIP IP, this option is valid.

SUB: Enter the subnet mask. Only when you select STATIC IP, this option is valid.

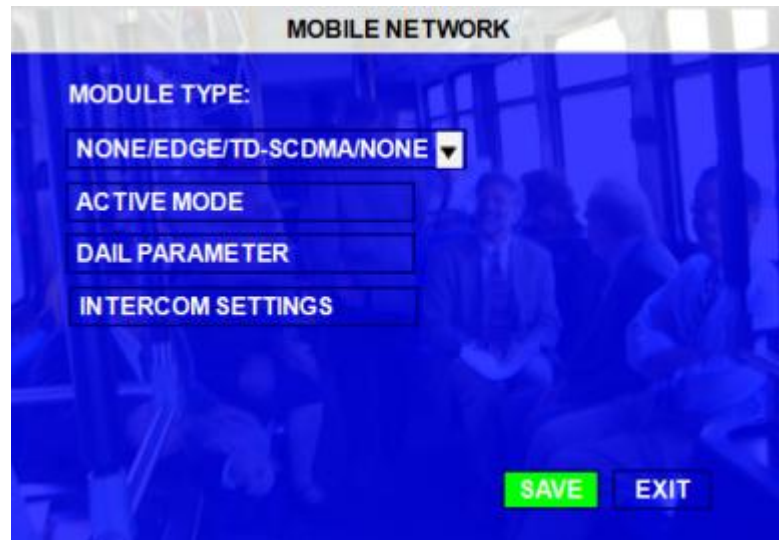
GATE: Enter the gateway that the MDVR through to network. Only when you select STATIP IP, this option is valid.

ESSID: The AP name of this WIFI router.

PSSWORD ENABLE: if the WIFI router need a password, please choose the type and input password. WEP can only support 5digital ASCII

3.2.3.4 MOBILE NETWORK

This interface is to setup the wireless modules type, active mode and SIM card parameters, when the user connect with net cable, please select mode type as NONE.



ACTIVE MODE: There are three options.

ALWAYS: means when MDVR started up, the wireless module will always dial up and connect to message server.

CALL/SMS: means only the user call the phone number of the SIM card or send the message to the SIM, it will active the wireless module and start to dial up.

SENSOR: means the user can setup one sensor to active the wireless module, only when the user triggered the sensor, the wireless module will start to dial up and then connect to internet.

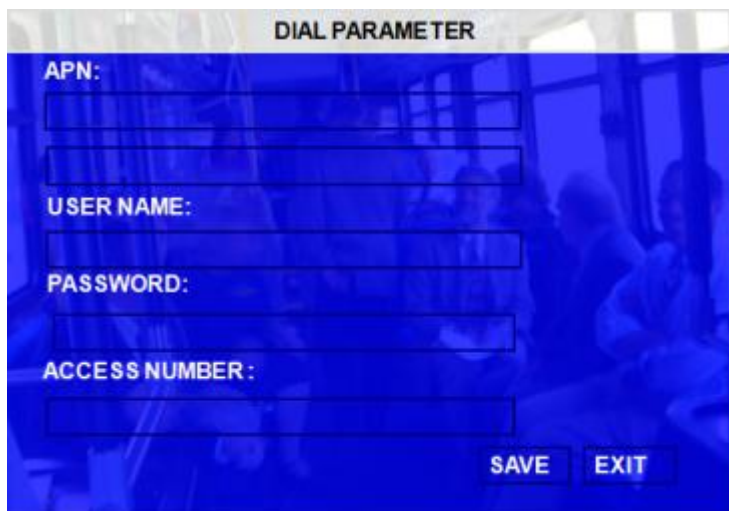


ACTIVE MODE

ACTIVE MODE: ALWAYS/CALL/SMS/SENSOR ▼

SAVE **EXIT**

DIAL PARAMETER settings for SIM card please check the setup as follow form.



DIAL PARAMETER

APN:

USER NAME:

PASSWORD:

ACCESS NUMBER :

SAVE **EXIT**

Network Type	User name	Password	APN	Access number
CDMA	card	card		#777
EVDO	card	card		#777
WCDMA			Please check the APN with SIM card manufacture	*99#
GPRS	card	card	Please check the APN with SIM card manufacture	*99***1#
EDGE	card	card	Please check the APN with SIM card manufacture	*99***1#
TD-SCDMA	card	card	Please check the APN with SIM card manufacture	*98*1#

INTERCOM SETTINGS: it's a switch for interphone function, which can realize speak to center via SIM card.



3.2.3.5 FTP SETTINGS

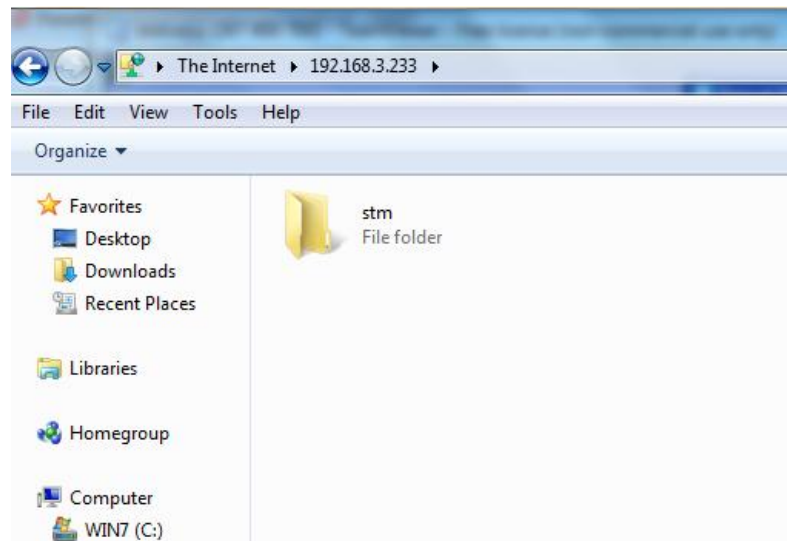
The MDVR can be used as a FTP server. This means that the user can login IE by the MDVR IP address to check the MDVR equipment video files in the hard disk and download the video file. This interface is to setup the name and password to control the server limit. Standard FTP protocol, but not all functions are valid, for example delete or create file/folder is invalid.



If the local IP of MDVR is 192.168.3.233, the user can log in the MDVR FTP server as follow:

<ftp://192.168.3.233>

and the recorded file save path is <ftp://192.168.3.233/stm/disk/0/p1/2012-11-23/>



The default login username is admin, password is: 88888888, if the user can't login at the first time, please try again.



3.2.3.6 FTP FOR SNAP

FTP FOR SNAP SETTINGS

FTP SERVER IP:

USER NAME:

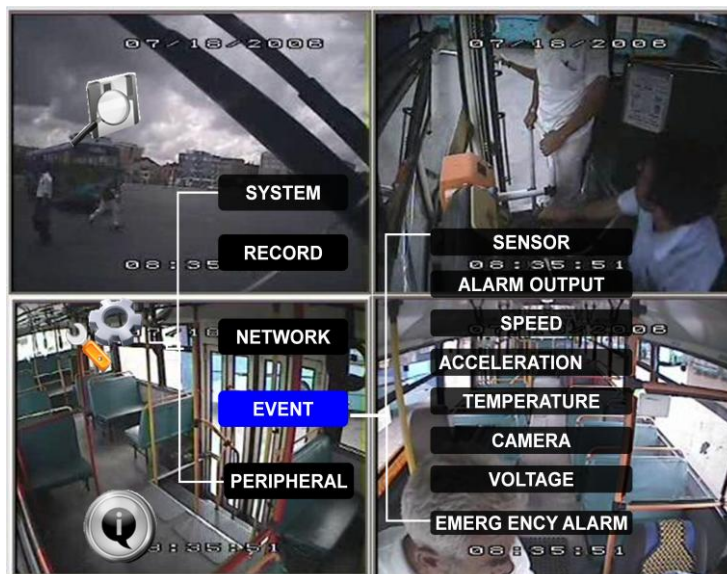
PASSWORD:

SERVER PORT:

SAVE
EXIT

This page is for uploading snapped image to FTP server when alarm is triggered.

3.2.4 EVENT



3.2.4.1 SENSOR

SENSOR							
NO.	ENABLE	NAME	OSD	SET	ALARM	LOCK	
S1	ON		COM	HIGH	ON	OFF	
S2	ON		COM	HIGH	ON	OFF	
S3	ON		COM	HIGH	ON	OFF	
S4	ON		COM	HIGH	ON	OFF	
S5	ON		COM	HIGH	ON	OFF	
S6	ON		COM	HIGH	ON	OFF	
S7	ON		COM	HIGH	ON	OFF	
S8	ON		COM	HIGH	ON	OFF	

PGDOWN SAVE EXIT

These are I/O sensor functions to detect the drivers' behavior such as braking, turning left/right, closing/opening the door, reversing etc... Once these alarms are generated, they will be sent to central server by 3G network.

EN: Enable, to active this function

NAME: Press ENTER on the Name field to display the soft keyboard. Enter the text name to identify the source of each sensor connected to the unit.

OSD: Input the numbers and characters, they will be embedded into the alarm video files when alarms happen, and it will also display in live view, Please press **【Enter】** into the soft keyboard. The label also identifies the type of event when doing a quick search using **EVENT SEARCH** option.

SET: LOW (normal close) means the power level is from high to low to trigger the alarm.

HIGH (normal open) means the power level is from low to high trigger the alarm.

ALARM: Press ENTER to select between OFF or ON:

ON means when sensor triggered, alarm LED will flash, OSD will display in the live view, a red "A" will display in each channel, until re-login the system with account, the flashing will disappear, also, MDVR will record the event log, and, if the security set as OFF, when the user trigger the sensor, there is no alarm LED flashing and MDVR won't record the event log.

LOCK: To enable the event does not erase during the over-write process of hard disk;



If switch/alarm/log/lock all set as ON, When sensor triggered, it will trigger alarm signal and event log, it will also trigger alarm recording and event recording, besides, the EVENT LOG can't be deleted even HDD-formatted or overwrite.

NEXT PAGE: Sensor trigger action means setup the alarm linkage for each sensor, for example, the user setup the image of channel 1 as the alarm linkage for sensor1, when the alarm from sensor1 is triggered, the image from channel 1 will change to be full screen. And the priority is from sensor 1 to sensor 8. Sensor1 priority is highest. Sensor 8 priority is lowest.

3G ACT: means the user can define a sensor to active the 3G module, as there is an active mode in 3G setup interface, they are corresponding options.

SENSOR TRIGGER ACTION		
NO.	FULL SCREEN	3G ACT.
S1	CH1	OFF
S2	CH1	OFF
S3	CH1	OFF
S4	CH1	OFF
S5	CH2	OFF
S6	NONE	OFF
S7	CH3	OFF
S8	CH4	OFF

FRONT PAGE SAVE EXIT

3.2.4.2 SENSOR OUTPUT

Streamax X3II MDVR supports 2 sensor outputs. All alarm types can trigger the two sensor outputs, such as sensor1~8, over speed, temperature, video loss and so on, please access the menu (GUI>>>SETUP>>>EVENT>>>SENSOR OUTPUT), as follow:

Remark: Sensor out means when there is an event triggered, the corresponding sensor out will give +12V/2A output, and the duration is the alarm time the user have setup, so, the user can associate different sensor to different alarm types.

SENSOR ALARM OUTPUT		
ALARM TYPE	OUT1	OUT2
SENSOR1	OFF	OFF
SENSOR2	OFF	OFF
SENSOR3	OFF	OFF
SENSOR4	OFF	OFF
SENSOR5	OFF	OFF
SENSOR6	OFF	OFF
SENSOR7	OFF	OFF
SENSOR8	OFF	OFF

GEO-FANCING NEXT PAGE SAVE EXIT

SENSOR ALARM OUTPUT		
ALARM TYPE	OUT1	OUT2
OVERSPEED	OFF ☐	OFF ☐
LOW SPEED	OFF ☐	OFF ☐
HIGH TEMP	OFF ☐	OFF ☐
LOW TEMP	OFF ☐	OFF ☐
ACCELERATION	OFF ☐	OFF ☐
VIDEO LOSS	OFF ☐	OFF ☐
MOTION	OFF ☐	OFF ☐
BLIND	OFF ☐	OFF ☐

FRONT PAGE NEXT PAGE SAVE EXIT

SENSOR ALARM OUTPUT		
ALARM TYPE	OUT1	OUT2
LOW VOLTAGE	OFF ☐	OFF ☐
PANIC	OFF ☐	OFF ☐

FRONT PAGE SAVE EXIT

ON means this input can trigger this output, OFF means can't.

3.2.4.3 SPEED

Setup the alarm for over speed and some other parameters.

SPEED					
SPEED SOURCE: GPS/VEHICLE ☐					
SPEED CHECK:		SPD: 020	P/S: 00200	CALIBRATE	
SPEED UNIT: KMPH ☐		MILEAGE: ON/OFF ☐			
MILEAGE CALIBRATE:		000000	KM	CALIBRATE	
ALARM SETTING:					
NAME	OSD	ENABLE	THRESHOLD	ALARM	LOCK
LOWSPEED	SPDL	OFF ☐	001	OFF ☐	OFF ☐
OVERSPEED	SPDO	OFF ☐	001	OFF ☐	OFF ☐

SAVE EXIT

SOURCE: MDVR is capable of capturing vehicle speed via GPS antenna or Vehicle--speedometer.

- Browse between the settings of GPS or speedometer from the list.
- Please note that the GPS antenna should be connected to MDVR to receive satellite signals for speed.

- For more information on capturing speed from speedometer please contact local distributor for more technical support;

SPD CHECK: Speed check is used to calibrate the offset speed when connected to the speedometer. That's to say, the check only available when speed source is vehicle.

- Input the first area with the vehicle speed, for example at 80 (in KM/H)
- Start the vehicle and the second area will show the data from speedometer (in HZ)
- When the vehicle reach to 80 KM/H (shown in vehicle meter or dash board), and keep this speed at 30 seconds, then press the "Check" to make the system calibrate the second area (HZ) set as first area data (80);

SPEED UNIT: MPH or KPH, **MILEAGE** is the total mileage that the MDVR has run.

OVER SPEED: If the vehicle exceeds the high speed limit, MDVR will trigger the alarm signal (when the following option ALARM set as YES) until the driver slows down the speed

LOW SPEED: If the vehicle exceeds the low speed limit, MDVR will trigger the alarm signal (when the following option ALARM set as YES) until the Admin password is entered to acknowledge the alarm.

3.2.4.4 ACCELERATION

There are 3 values for G force inertial sensor: X, Y, and Z. X indicates forward and backward. Y indicates left and right and Z indicated up and down. Threshold is the limitation for the value, if the value large than the setting in the menu, then MDVR will trigger alarm.



NAME	OSD	ENABLE	THRESHOLD	ALARM	LOCK
X			1.5 G		
Y			1.5 G	ON	OFF
Z			5.5 G		

OVERSHOCK SHK ON

X: (+)01.356 Y: (+)01.042 Z: (+)01.106

CALIBRATE

SAVE EXIT



This function only can be active when the MDVR connected with inertial sensor.

3.2.4.5 TEMPERATURE

Inspection for temperature.



TEMPERATURE

TEMPERATURE UNIT: ☐ F/C

ALARM SETTING:

NAME	OSD	ENABLE	THRESHOLD	ALARM	LOCK
HIGH TEMP.	HT	☐ OFF	+130	☐ OFF	☐ OFF
LOW TEMP.	LT	☐ OFF	-13	☐ OFF	☐ OFF

SAVE EXIT

If the MDVR working temperature is higher than the setting for **HIGH TEMP**, MDVR will trigger alarm.

If the MDVR working temperature is lower than the setting for **LOW TEMP**, MDVR trigger will alarm.

3.2.4.6 CAMERA

Display the alarm information from camera.



CAMERA

MOTION DETECT SETTING:

CH ID	M.D.SENSITIVE	M.D.AREA	B.D.SENSITIVE
1	1	SETUP	1

ALARM SETTING:

NAME	OSD	ENABLE	ALARM	LOCK
BLIND	BD	☐ OFF	☐ OFF	☐ OFF
MOTION	MD	☐ OFF	☐ OFF	☐ OFF
VIDEO LOSS	VL	☐ OFF	☐ OFF	☐ OFF

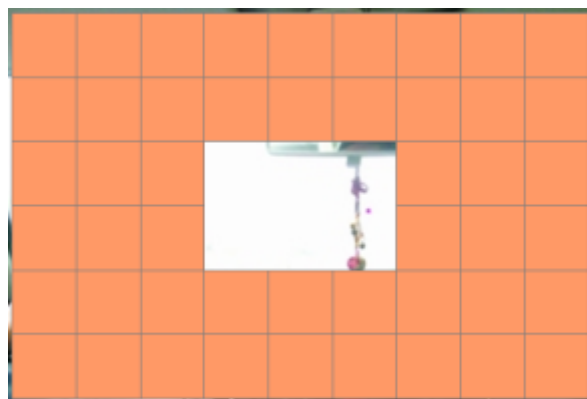
SAVE EXIT

There are three statuses for camera alarm: blind detect, motion detect and video loss.

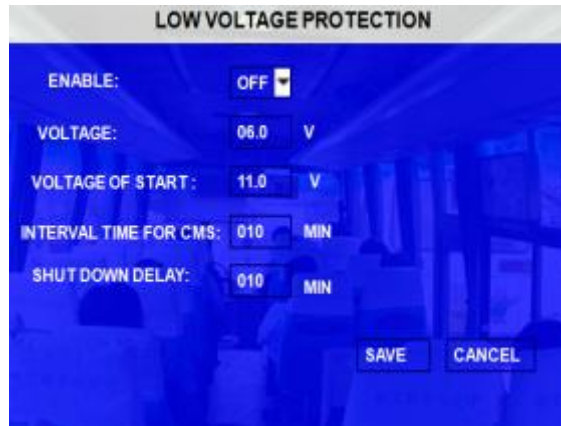
CH ID: please choose the channel the user want to setup, for motion detect and blind detect.

SENSITIVE: this is the detect sensitivity, 1 is the most sensitive.

M.D.AREA: this option is for user to setup the detect area, as follow, blank square means the area is selected, please exits to the setup interface to save the settings.



3.2.4.7 VOLTAGE



LOW VOLTAGE PROTECTION

ENABLE: OFF

VOLTAGE: 06.0 V

VOLTAGE OF START: 11.0 V

INTERVAL TIME FOR CMS: 010 MIN

SHUT DOWN DELAY: 010 MIN

SAVE CANCEL

VOLTAGE PROTECTION: means when MDVR system detect that the voltage input always in a low status, MDVR will disconnect to CMS and shutdown automatically.

ENABLE: setup the voltage protection switch, ON means enable, OFF means disable.

VOLTAGE: setup the low voltage limited value.

VOLTAGE OF START: this means when the voltages of the battery reach this value, MDVR will startup automatically.

INTERVAL TIME FOR CMS: means when MDVR in low voltage for so long time, device will disconnect to CMS server.

SHUTDOWN DELAY: means when MDVR in low voltage for so long time, device will shutdown automatically.

3.2.4.8 EMERGENCY EVENT

To setup the panic button alarm



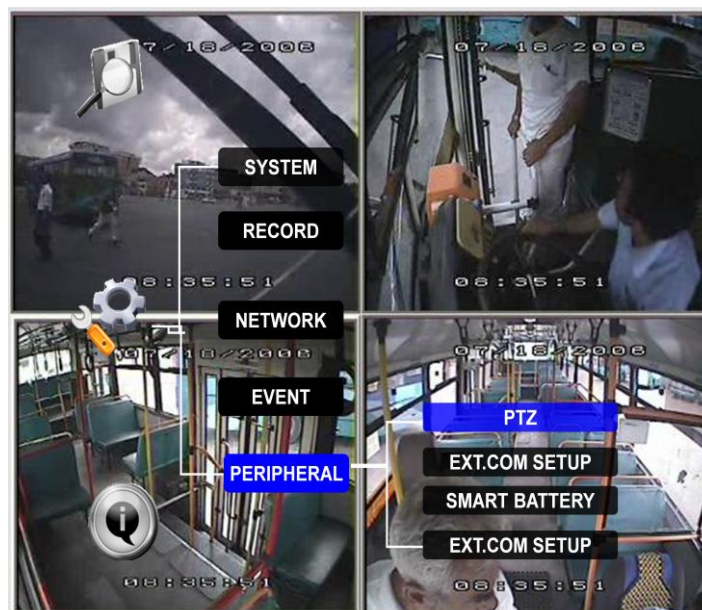
EMERGENCY EVENT

● CONFIG OF PANIC BUTTON

NAME	EN	ALARM	LOCK
PB	ON	ON	OFF

SAVE EXIT

3.2.5 PERIPHERAL



3.2.5.1 PTZ

PTZ SETUP				
CHANNEL	CH1	CH2	CH3	CH4
PROTOCOL	PELCO-P	PELCO-P	PELCO-D	PELCO-D
BAUD RATE	2400	2400	2400	2400
DATA BIT	8	8	8	8
STOP BIT	5	5	5	5
VERIFY	NONE	NONE	NONE	NONE
ADDRESS	001	001	001	001
				SAVE EXIT

CHANNEL: The channel of PTZ connected.

PROTOCOL: select the protocol of different PTZ, there are two protocols to switch, and the default is Pelco-D

BAUD RATE: select the different baud rate for the PTZ, there are 1200, 2400, 4800, and 9600

DATA BIT: there are 5,6,7,8 options to select, default setting is 8.

STOP BIT: there are 1 and 2 to select, the default setting is 1.

VERIFY: there are None/Odd/Even/Mark/Space to select, the default setting is none.

ADDRESS: Fill the code of respective PTZ

3.2.5.2 EXT.COM SETUP

This interface is for external accessory connection, such as control pane, PTZ, Inertia sensor, LED screen, station announcement and so on.

MODE: Standard mode means connect Streamax standard accessories to the 485 port.



3.2.5.3 SMART BATTERY



To protect the battery, if the battery voltage is lower than 8.0V or so, switch to UPS for power supply automatically. And the system will calculate how long the UPS can work. Once the time left < setup value, trigger alarm.

3.2.5.4 LANGUAGE SETTING

Currently, the MDVR can support 4 different languages: English, Russian, Spanish and Portuguese. Please setup the system language here.



3.3 INFORMATION



3.3.1 SYSTEM

Display the MCU version, firmware version, HDD status and SD card information.

- 1, NO HDD means No HDD installed or the HDD is defective and cannot work.
- 2, NO FORMAT means HDD installed but not formatted. All the new hard disk must be formatted after installation
- 3, showing the detailed information for HDD means HDD works fine.

SYSTEM INFO

- **FIRMWARE VERSION:** X15-4-V030003
- **MCU VERSION:** X1-M06-STM8S-T309241
- **SD/HDD INFORMATION:**

DEVIE NAME	CAPACITY (GB)	FREE SPACE	RECORD TIME (HR)
HDD	320.0G	11.4G (34%)	3
MIRROR SD	NONE	NONE	NONE

Capacity: This is the capacity for the hard disk recording after format.

Free Space: the spare space for hard disk for recording

Record capacity: The time means that how long that the hard disk can recording based on the current configuration of the MDVR (like image quality, resolution, frame rate) with the free space.

3.3.2 DIAL STATUS

The data for dial status information

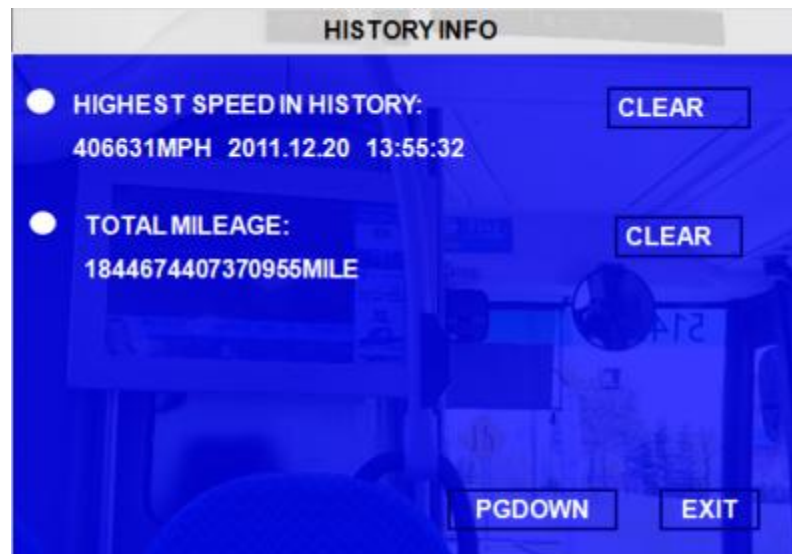
DIAL STATUS

- **MANUFACTURER:** **MODULE:**
- MODULE NAME:**
- SOFTWARE VERSION:**
- HARDWARE VERSION:**
- **SERVICE:** **ROAM:**
- **DIAL STATUS**

DIAL NUM	CONNECT TIME	SEND DATA	RECEIVED DATA
0	0	0	0

3.3.3 HISTORY

The data for history information



Press **【CLEAR】** to delete all the current data.

3.3.4 MODULES

Display the GPS module information.



3.3.5 BATTERY INFO

