

4G/WIFI/GPS Live Viewing 1080P 3-8 Cam

MNVR Black box with SDD Instructional Manual

The MNVR series is a cost-effective, surveillance and remote monitoring. Using our latest high-speed interface technology, network technology with live viewing GPS positioning. This system comes standard with 3 cameras with the option to add up to (8) eight 1080P cameras. Standard full frame recordings up to 8 cams at one time, Resolution options are CIF/HD1/D1/AHD720P/ADH1080P along with multiple recording formats. Our MNVR system allows for driver tracking and remote monitoring using an IP Server and desktop download-able CMSV6 viewing software. Receive alert triggers like G-Sensor, alarm settings and over speed settings directly to an email or text message. All this when using a remote IP server or remote management, system. MNVR product are simple, elegant, anti-vibration, flexible installations, powerful functions and highly reliable.



* [CLICK HERE FOR QUICK START GUIDES IF YOU HAVE THESE DISCONTINUED 4G MNVR PRODUCTS:](#)



CONTENT

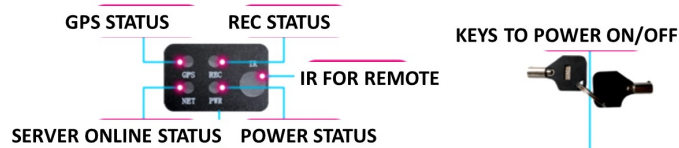
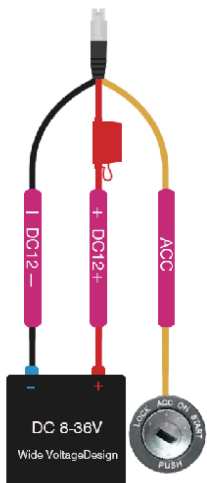
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INCLUDED IN BOX

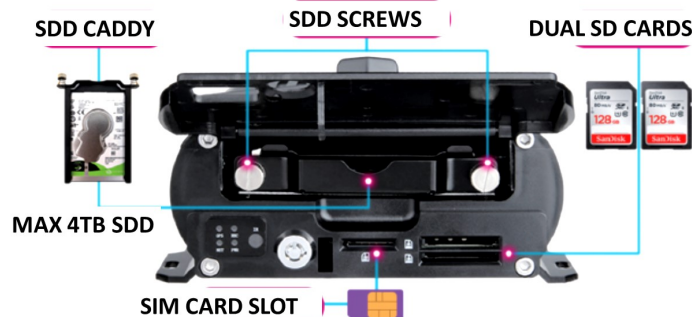
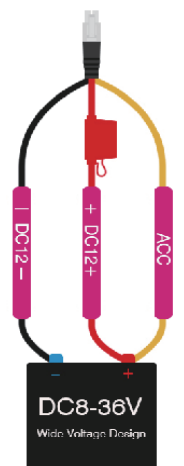


Power Connection

POWER WIRE IN VEHICLE



POWER WIRE IN VEHICLE



4G/GPS Live Viewing 1080P 3 Cam MNVR Black box with SDD with the option to add up-to 8 cameras

LIVE VIEWING

Item	Parameters	Performance
System	OS	Linux 3.10
	Language	English
	Mode Options	IR remote control,Network,Tools APP
Video	Connections	8-Cameras- VGA/HDMMI/USB standard
	Standard	Electrical Level:1.0Vp-p Input/Output Impedance:75Ω NTSC/PAL(Selectable)
Audio	Cameras	up to 8 cameras
	Standard	Electrial Level:2.0Vp-p Input Impedance:4.7K Output Impedance:1.0K
Display	Image Pixel	PAL:704*576,NTSC:704*480
	Terminal	Supports HDMI & VGA connections
	Content	Live video; Date; Time; GPS information; Communication signal;storage information; network status
	Display spilt	1/2/4/8 Image display
A/V Compression	Resolution Modes	Main Stream:120fps 1080P@NTSC/100fps 1080P@PAL Sub-Stream:30fps CIF@NTSC/25fps CIF@PAL
	Recording Mode	Boot, Timing, Alarm
	Audio Compression	G.726
	Resolution	1080P(1920*1080);720P (1280*720);D1(704*576);HD1(704*288);CIF (352*288)
	Bit Rate	32Kbps/40Kbps
	Playback Channel	Local Signal Channel Playback,Browser 1/4/8 Channel Playback
Playback	Search Mode	Time/Date, Channel, Alarm
Storage	SD card	2*SD (2*128GB) 2 6GB MAX
	SSD (Internal)	Max 4 Tera-byte

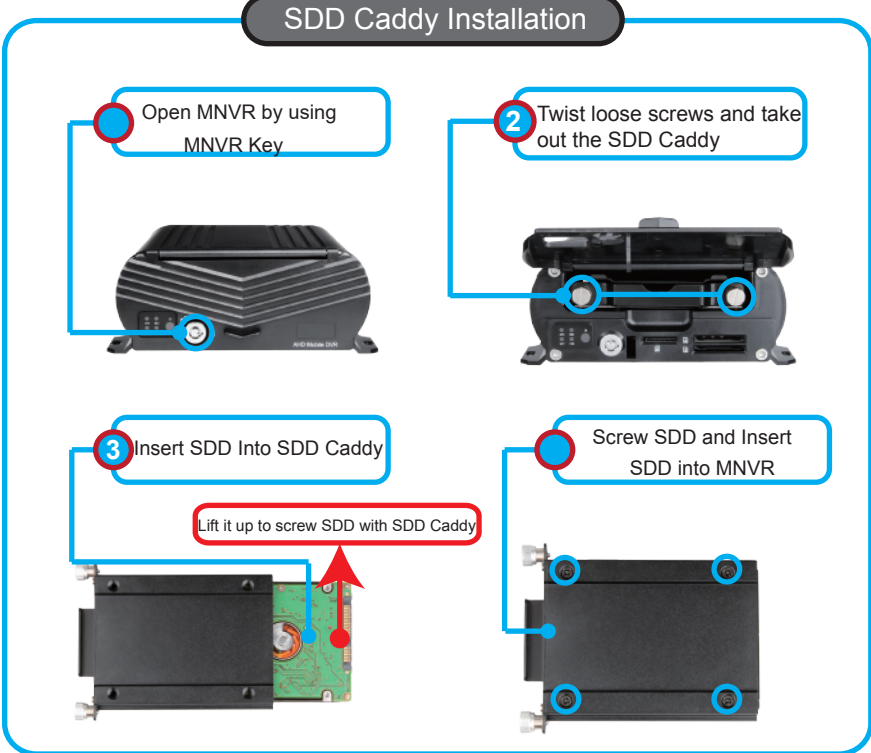
4G/GPS Live Viewing 1080P 3 Cam MNVR Black box with SDD with the option to add up-to 8 cameras

LIVE VIEWING

Item	Parameters	Performance
Satellite Positioning	GPS/BD2 Double Modules	Frequency:L1:1575.42MHz B1:1561.098MHz Sensitivity:Tracking:-165 dBm Cold boot:-148dBm Cold boot time:<33s Hot boot time:6s Accuracy:Single Positioning:3.0m(2DRMS) SBAS:2.5m
Wireless Transmission	3/4G	3G:EVDO/WCDMA/TD-CDMA; 4G:TD-LTE/FDD-LTE
	WIFI	Support 802.11 b/g/n (2.4GHz) Support 802.11 ac (5GHz)
Function Interface	USB	1 USB 2.0 Host Interface
	SIM/UIM	1 Standard SIM/UIM Card Slot
	LAN	10M/100M/1000M Net Interface
	CAN	1*Can
	Serial	2*RS485,2*RS232
	I/O	8CH options、2CH Options
	Power	Input
Output		12V@1A, 5V@1A
Consumption		<9W(No peripheral)
Physical property	Working Temperature	-20℃ - +70℃
	Working Humidity	10%-95%
	Protection Grade	IP43
	Weight	2.3 KG
	Dimension	188mm*148mm*60mm
Certifications	Certifications	CE, FCC, Rohs, ISO9001, E9

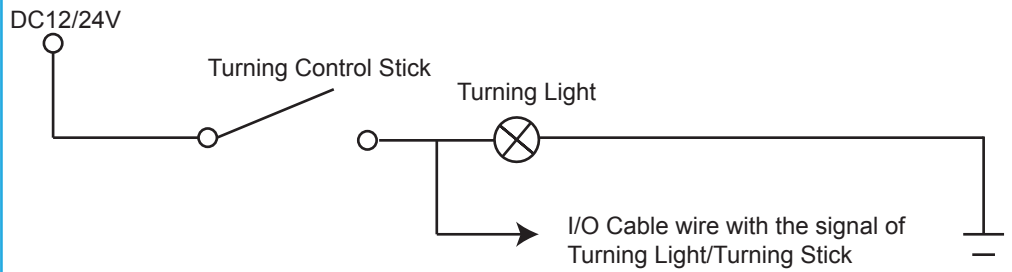


SDD Caddy Installation

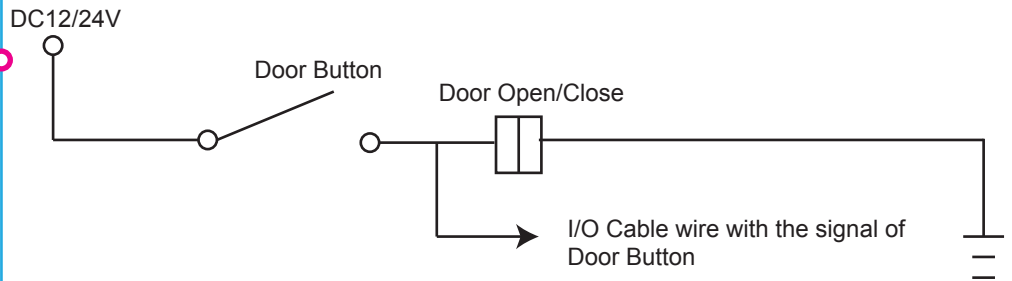


I/O Alarm Sensor Wire

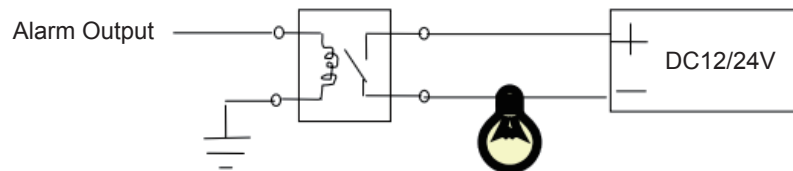
01: I/O Input Wire with Turning light



02: I/O input Wire with Door Button



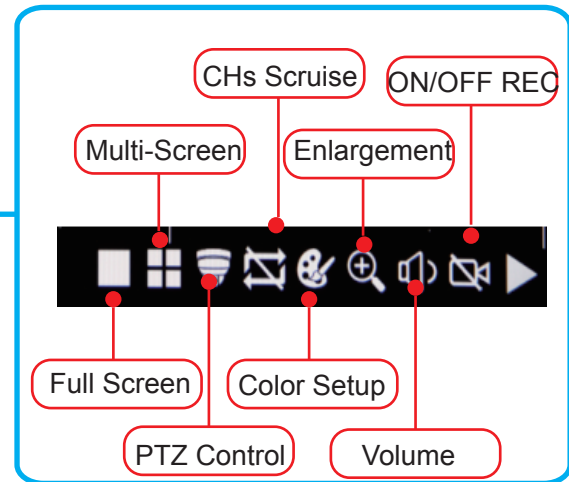
03: I/O Output Wire with Alarm Light etc



Noted: Please kindly refer to Alarm/Motion detection setup for Video Amplifying, Email for alarm trigger

CONTROL BAR

After Start MNVR, See MNVR UI like the Picture below



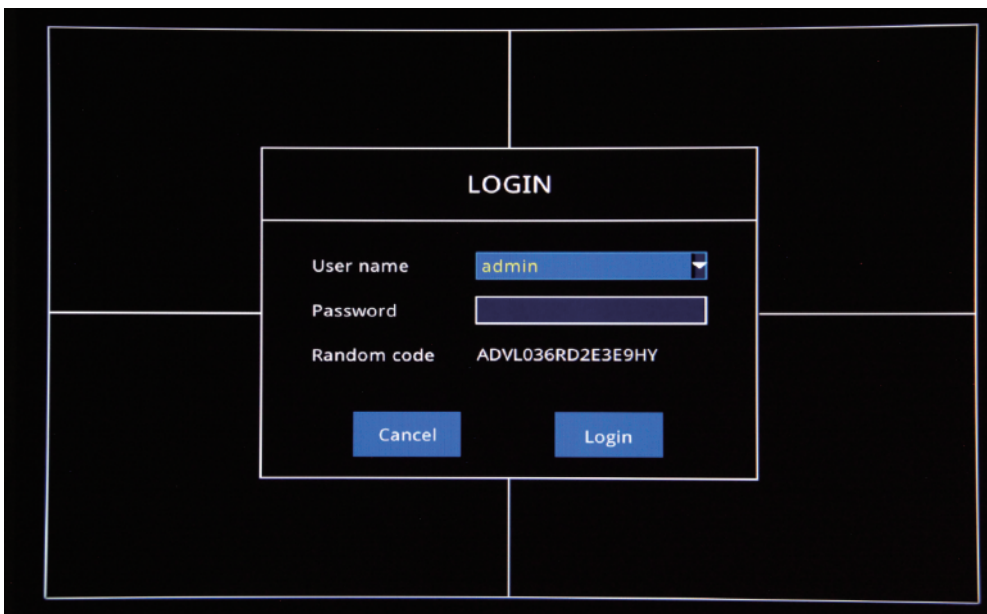
ENLARGEMENT

Click Enlarge button, and Drag Mouse to select a special area to auto enlarge.



PLAYBACK

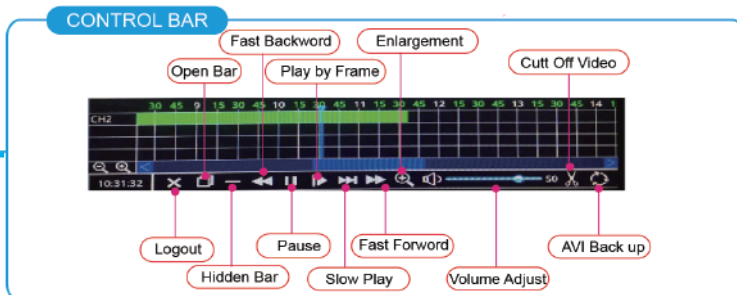
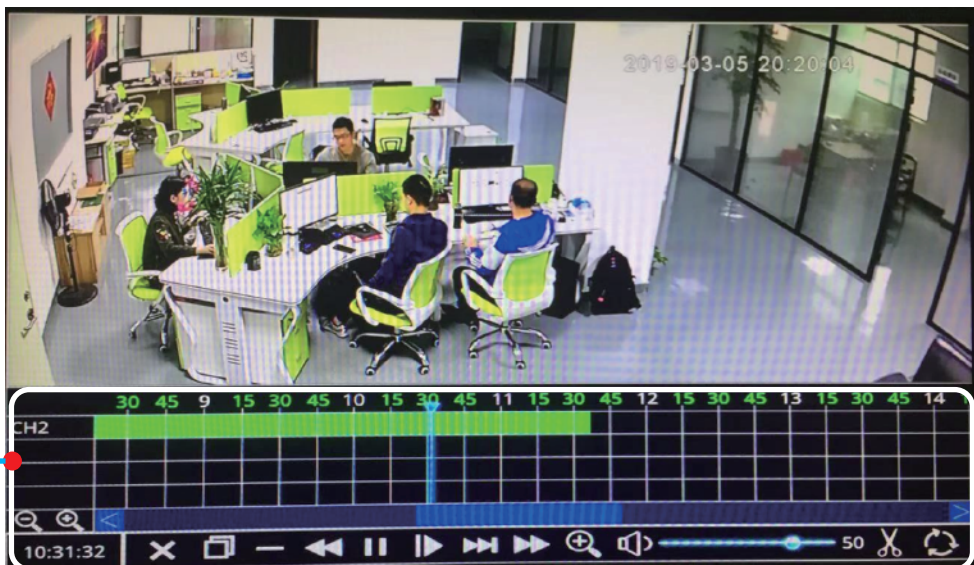
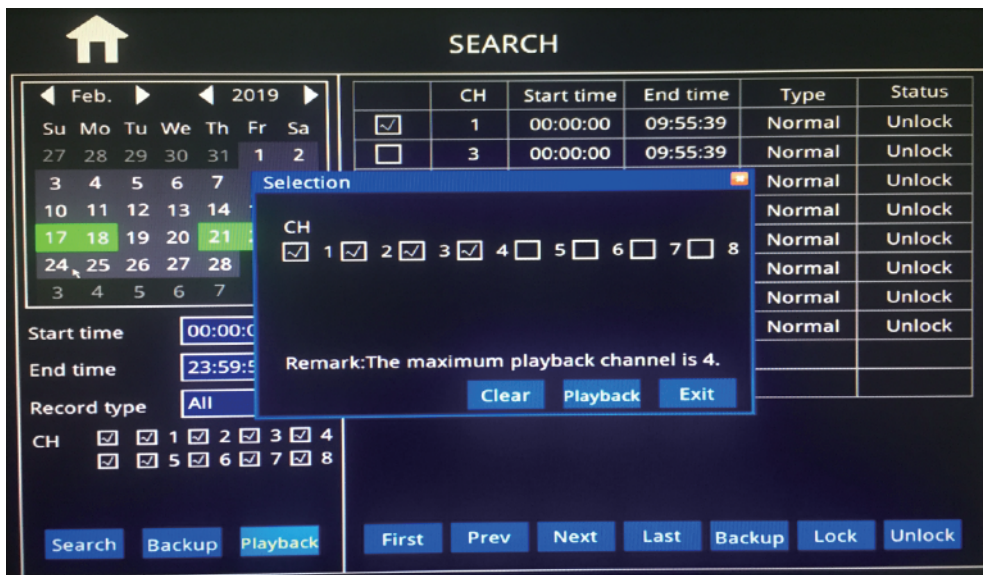
Step-01: Login MNVR Menu, User Name: select the drop down menu to select "User" not Admin, Password: (No Password)

A screenshot of the LOGIN form. The form is titled 'LOGIN' and has three input fields: 'User name' with a dropdown menu showing 'admin', 'Password' with an empty text box, and 'Random code' with the value 'ADVL036RD2E3E9HY'. There are two buttons at the bottom: 'Cancel' and 'Login'.

Step-02: Login "Search"=>Setup Playback time & CHs=> Search Out Video files, Like the Picture belows:



Step-03: Check Video File=> Click "Playback"=>Choose the Playback CHs (Max 4-CH)=> Click "Playback"



Step-01: Insert thumb drive into MNVR's USB Port



Step 02: USB Storage Menu - => **Format thumb drive prior exporting videos**



Step 03: "Search" => Search Recorded videos by date/time, camera view



2-CH Split Screen Setup

A. Default 2-CH Split Screen Setup Guide

Step-01: Login MNVR Main Menu,=>BASIC=>DISPLAY=>Main setup=> Apply

Main Mode

- 1x1: Single Display after Starting
- 2x2: 4-CH Split Display after Starting
- 1x2: 2-CH Split Display after Starting
- 2x1: 2-CH Split Display after Starting

After Setup Main Mode, The Display will auto adjust and then you can setup the video channels for 2-CH display at random.

For Example, CH1&CH3/ CH1&CH2 ect for 2-CH Split Screen.

Step-02: After setup above, Restart MNVR, The Video will be auto 2-CH Split Screen

Mirror Function

Noted: Mirror Function is mainly for Vehicle Cams installation for Left/Right Mirror, Up/Down

Mirror Step: Login in MNVR Menu=>Advance=>Channel=Camera

CH	Mirror	Flip	Resolution
1	<input type="checkbox"/>	<input type="checkbox"/>	Auto
2	<input type="checkbox"/>	<input type="checkbox"/>	Auto
3	<input type="checkbox"/>	<input type="checkbox"/>	Auto
4	<input type="checkbox"/>	<input type="checkbox"/>	Auto

NOTE

Mirror: Left/Right Mirror

Flip:Up/Down Mirror

Copy CH: 1 To CH: All Copy

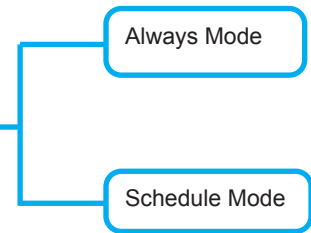
Motion Detection Setup

Step-01: Login MNVR GUI=>"Basic"=>"Record"=>Mode: Schedule

CH	Enable	Audio	Mode
1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Always
2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Always
3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Always
4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Always

Copy CH: 1 To CH: All Copy

Default Apply



Step-02: Schedule=> Setup "Alarm" Time in Red

CH: 1 Manual Normal Alarm

	0	2	4	6	8	10	12	14	16	18	20	22
Sun.												
Mon.												
Tue.												
Wed.												
Thu.												
Fri.												
Sat.												

Copy CH: 1 To CH: All Copy

Default Apply

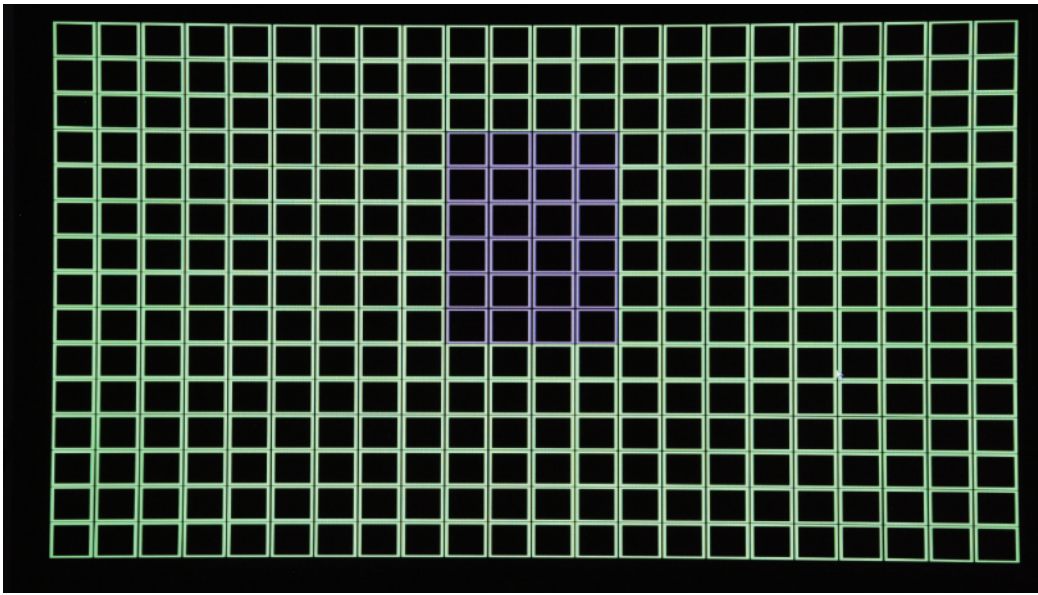
Step-03: "Advance"=>"Alarm"=>"Motion"=> Check Motion CHs and Sensitivity (1=Highest)

CH	Enable	Sensitivity	Area	Schedule	Trigger
1	<input checked="" type="checkbox"/>	2	Settings	Settings	Settings
2	<input checked="" type="checkbox"/>	2	Settings	Settings	Settings
3	<input checked="" type="checkbox"/>	2	Settings	Settings	Settings
4	<input type="checkbox"/>	1(Highest)	Settings	Settings	Settings

Copy CH: 1 To CH: All Copy


Default Apply

Step-04: Click Area "Settings" to Setup Motion Detection Area




NOTE

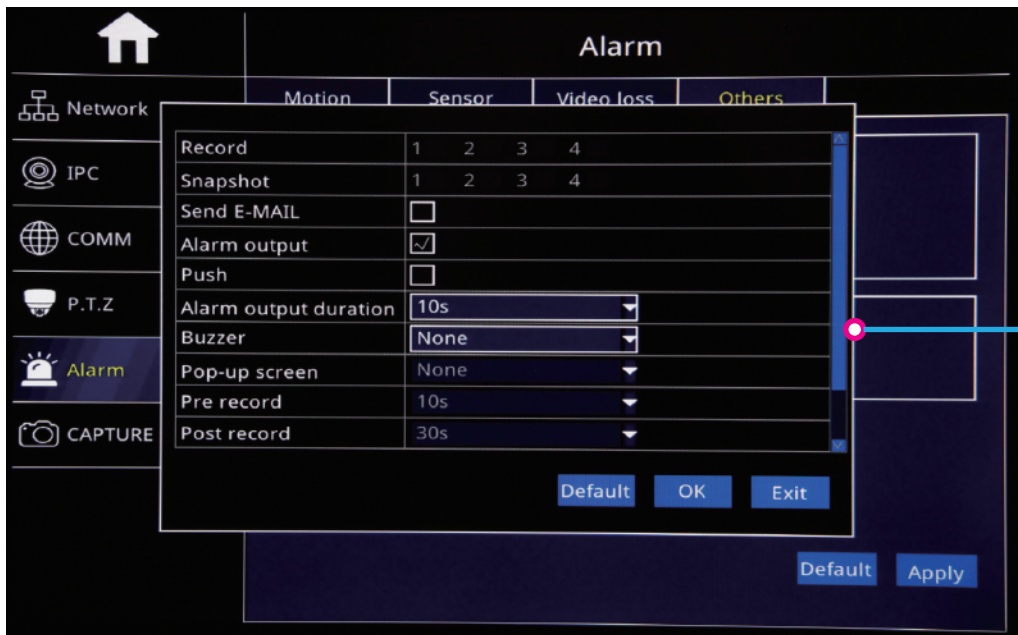
MOTION AREA COLOR



NO-MOTION AREA COLOR



Step-05: Click Trigger "Settings" to Setup Alarm linkage function



NOTE

1. Record: While alarm trigger, MNVR will auto upload the video of the checked channel to server
2. Snapshot: While Alarm trigger, MNVR will auto upload snapshot of checked channel to server
3. Send Email: While alarm trigger, MNVR will auto send email to customer
4. Alarm Output: Enable alarm output, like alarm light
5. Pop-Up Screen: While alarm trigger, MNVR will auto amplify the video to be full screen.

DST Time Setup

Login MNVR Menu => "Basic" => "Date/Time" => "DST" To Setup DST Time



Record Setup

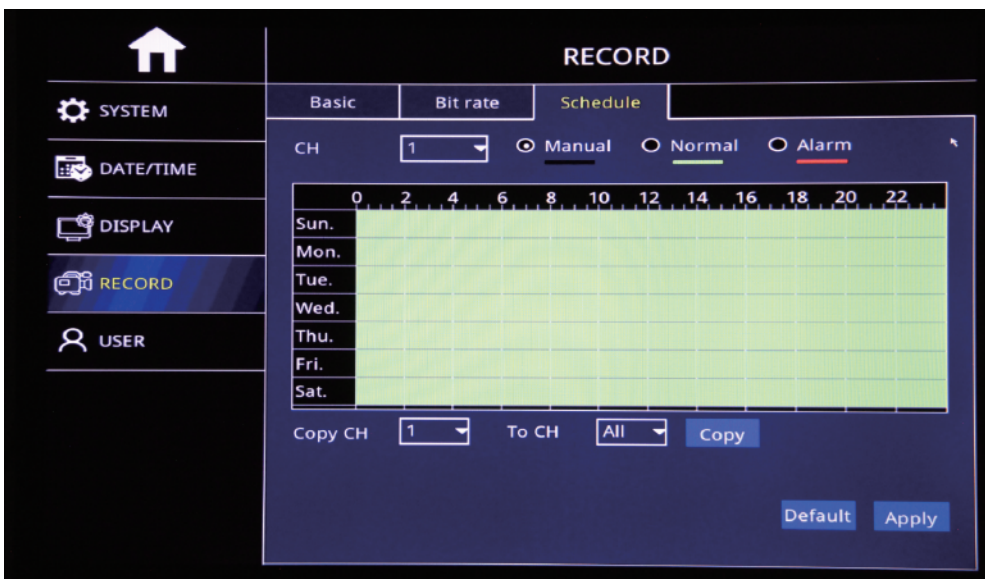
Step-01: Login MNVR Menu=>"Basic"=>"RECORD"=>"BASIC" To Settle Channels & Audio Setup



Step-02: Login "Bit Rate"=>Setup Record Stream



Step-03: Login "Schedule"=>Setup Alarm Record & Manual Record Mode

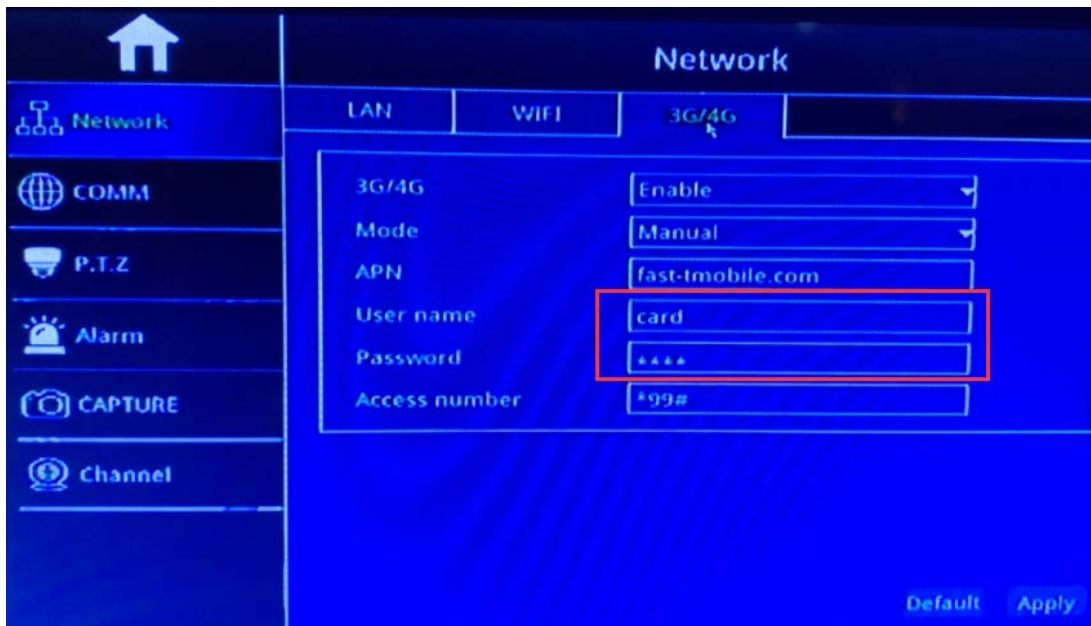


WIFI / Hot Spot 3G/4G/LTE Setup

Step-01: WIFI / Hot Spot Process: Login MNVR Menu=>"ADVANCE"=>"NETWORK"=>"WIFI"=>"Enable" to auto search out WIFI SSID=>Click the WIFI SSID=> Input Password=> Connect WIFI



Step-02: NETWORK - 3G/4G/LTE Setup=>"3G/4G"=>"Switch: Enable"=>"Mode:Manual"=> Input "APN" (see chart options for correct ATT or TMobile Sim card service) - Enter card for both User name / Password SAVE changes - Enter Access Number:*99# - APPLY -Save



USA CARRIER APN LIST

4G Carrier	APN
T-Mobile	3gnet or fast.t-mobile
AT&T	broadband or ntxtgenphone

Step-03: After 3G/4G Setup, On remote, Press "Info" Button to check network and CMSV connection Status

3G/4G: ENABLED

Module Status: Normal

SIM Card: Valid

Signal: Good

IP Address will be whatever your SIM card IP is using



Login- MDVR Menu=>Advance Tab=>COMM=>CMS Change the server IP and Port #s=> SAVE- Restart Device if correct IP address is not shown on your device.

CMS-Enable

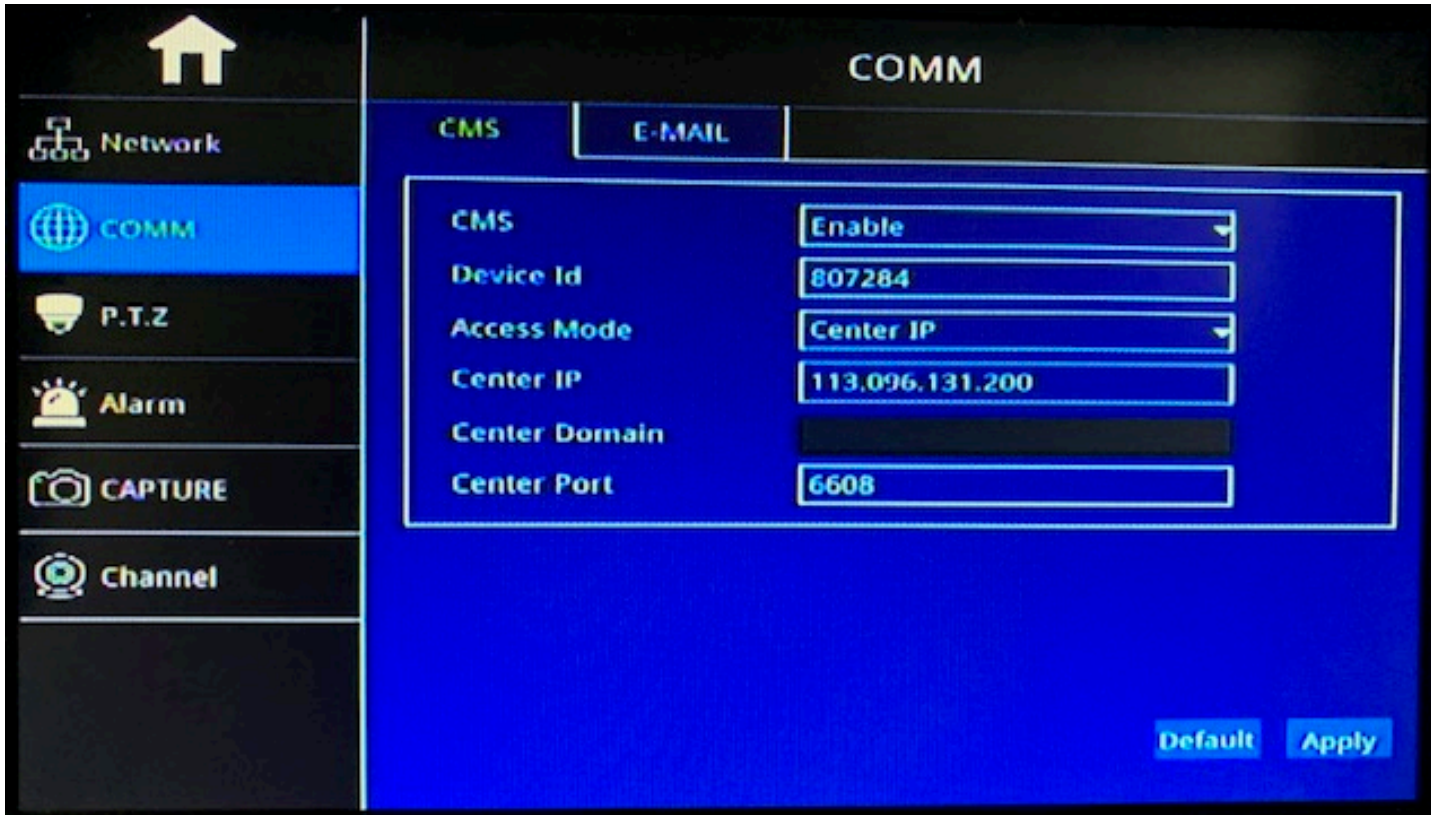
Enter YOUR Device ID located on your black box labeled as :EX:

Account #

USE THIS Center IP- 113.096.131.200

Leave Center Domain blank

Center Port- 6608



Email Setup

Function Description: When Alarm Trigger, The MNVR will Auto Send Email to users

Step-01: Login MNVR Menu=>"ADVANCE"=>"COMM"=>"E-MAIL"=>"E-mail: Enable"=>Input Media Server(SMTP)
=> Port=> Connection Security: "None,SSL/TLS" Optional=> User Name: Sender's Email address=> Password:
Sender's Email Password=> To: User's/Reciever's Email Address=>CC:Copy Email's Address

The screenshot shows the 'COMM' menu with the 'E-MAIL' sub-menu selected. The configuration fields are as follows:

Field	Value
E-MAIL	Enable
Mail server(SMTP)	
Port	0
Connection security	None
User name	
Password	
To	
CC	
Sending interval	Immediately

Buttons: Test, Default, Apply

NOTE

After Setup the info, Please kindly click "Test" button to send a test alarm email to you and verify all the setup well.

Step-02:Login MNVR Menu=>"ADVANCE"=>"ALARM"=>"Motion/Sensor/Video Loss/ Other" Alarm Setup=>"Trigger"
=>Check "Email" Button.

The screenshot shows the 'Alarm' menu with the 'Others' sub-menu selected. The configuration fields are as follows:

Field	Value
Record	1 2 3 4
Snapshot	1 2 3 4
Send E-MAIL	<input type="checkbox"/>
Alarm output	<input checked="" type="checkbox"/>
Push	<input type="checkbox"/>
Alarm output duration	10s
Buzzer	None
Pop-up screen	None
Pre record	10s
Post record	30s

Buttons: Default, OK, Exit (in the sub-menu); Default, Apply (in the main menu)