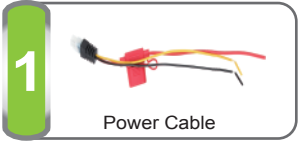
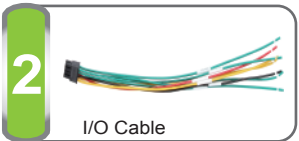


INCLUDED IN BOX



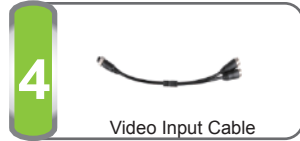
Power Cable



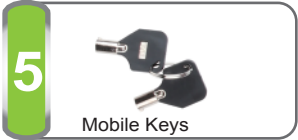
I/O Cable



Remote Control



Video Input Cable



Mobile Keys



4G / GPS / WIFI Antenna



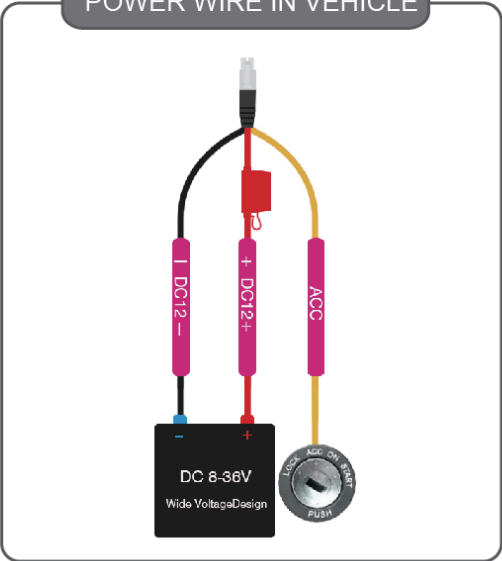
SDD CADDY SCREWS



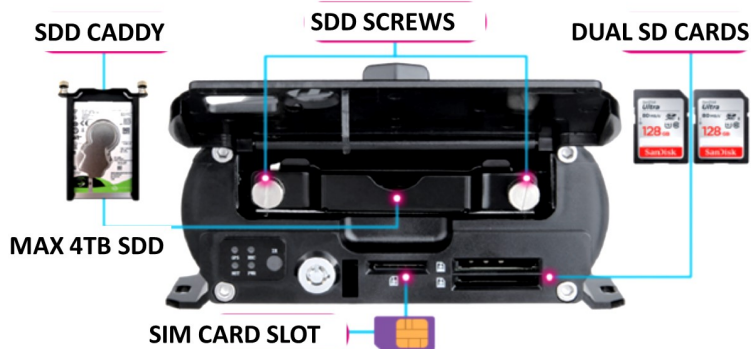
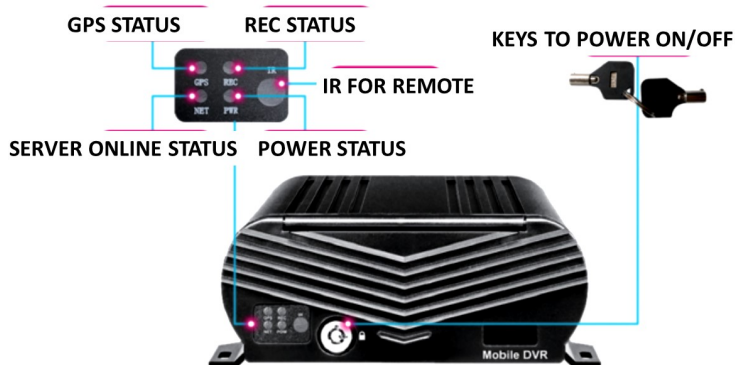
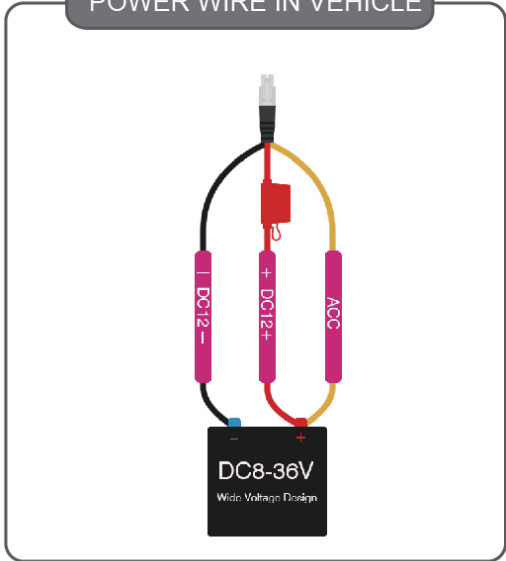
QR Code Manual Page

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 |
| | Control Mode | IR remote control, Network, Tools APP |
| Video | Input/output | 8-CH AHD Input - 1-CH CV S 1-CH VGA Output |
| | Standard | Electrical Level:1.0Vp-p Input/Output Impedance:75Ω NTSC/PAL(Selectable) |
| Audio | Input&Output | 8CH input, 8CH output |
| | 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 External Displays |
| | Content | Live video; Date; Time; GPS information; Communication signal;storage information; network status |
| | Display spilt | 1/2/4/8 Image display |
| A/V Compression | Frame Rate | Main Stream:120fps 1080P@NTSC/100fps 1080P@PAL Sub-Stream:30fps CIF@NTSC/25fps CIF@PAL |
| | Recording Mode | Boot, Timing, Alarm |
| | Video Compression | H.264.Variable Bit Rate(VBR)/Constant Bit Rate(CBR) |
| | 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 | Playback Channel | Local Signal Channel Playback,Browser 1/4/8 Channel Playback |
| | Search Mode | Time/Date, Channel, Alarm |
| Storage | SD card | 2*SD (2*128GB) 2 6GB MAX |
| | SSD (Internal) | Max 4 Tera-byte |

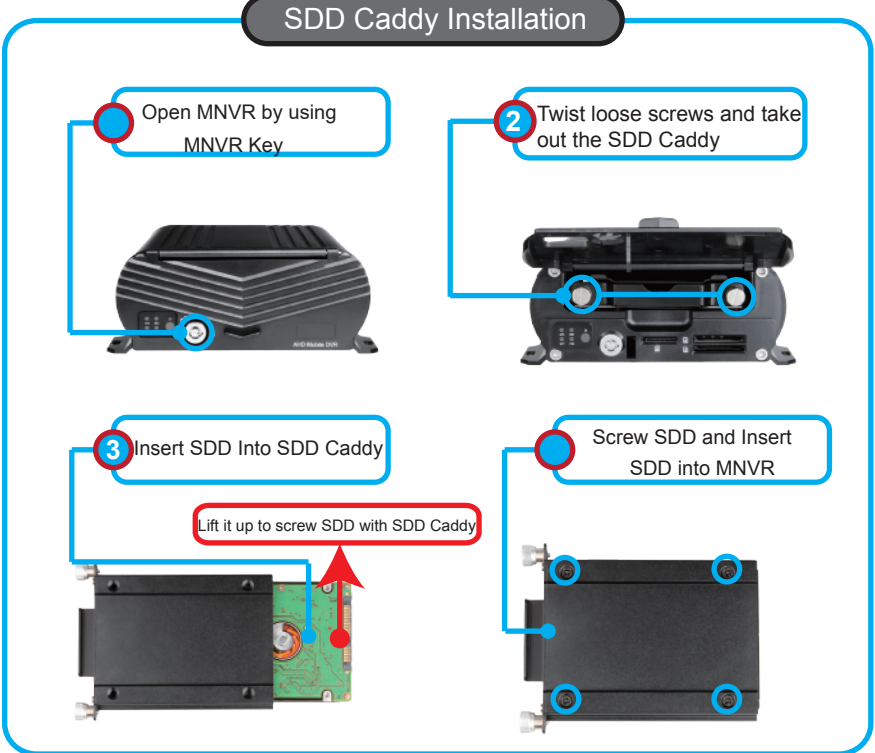
4G/GPS Live Viewing 1080P 3 Cam MNVR Black box with SDD with the option to add up-to 8 cameras

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 Input、2CH Output |
| | 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 G |
| | Dimension | 188mm 148mm 60mm |
| Certifications | Certifications | CE, FCC, Rohs, ISO9001, E9 |

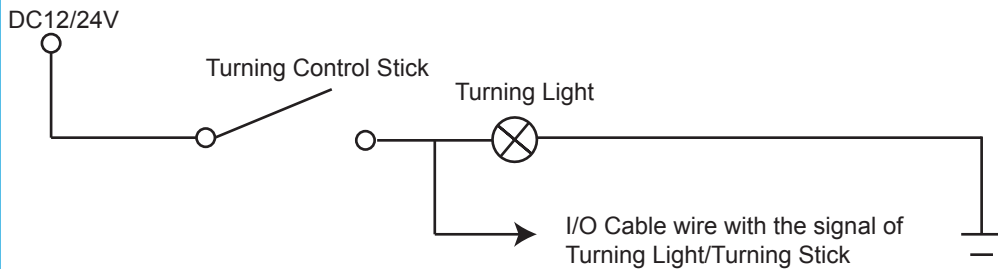


SDD Caddy Installation

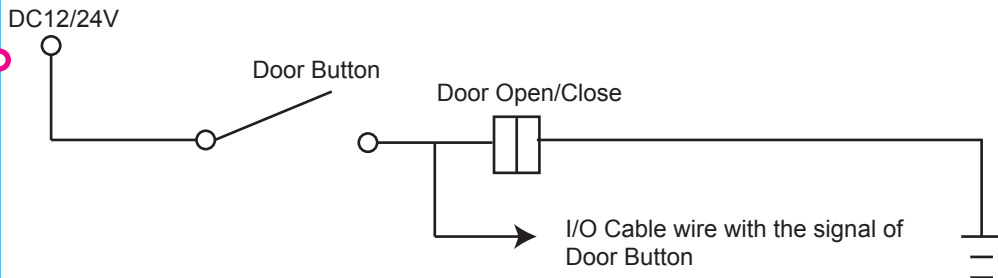


I/O Alarm Sensor Wire

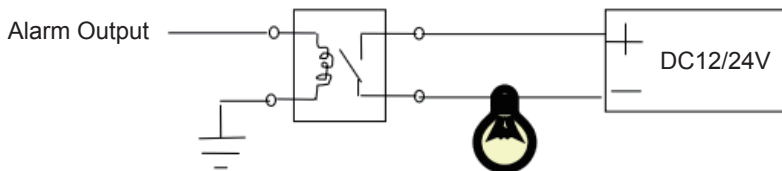
01: I/O Input Wire with Turning light



02: I/O input Wire with Door Button



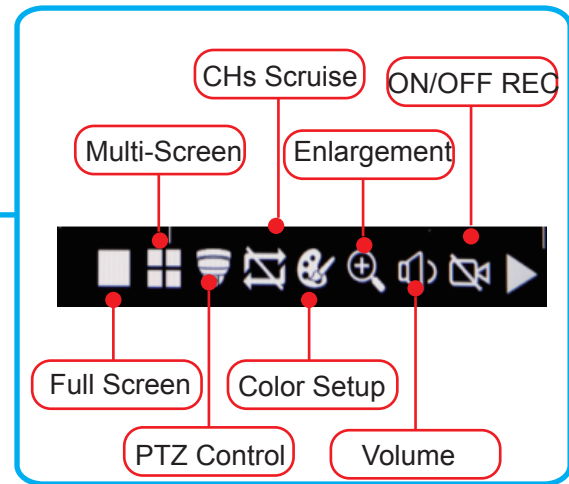
03: I/O Output Wire with Alarm Light etc



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



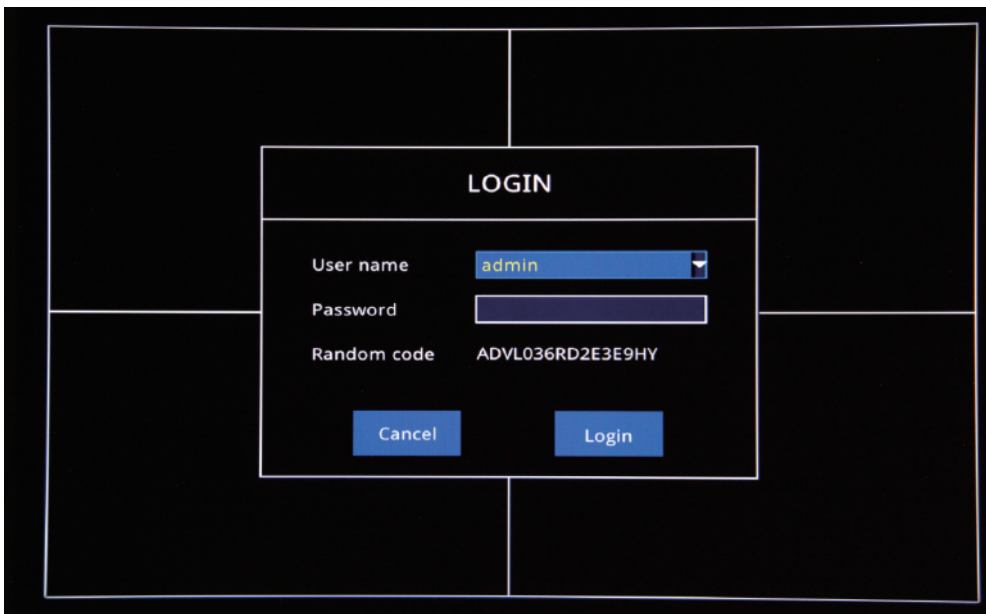
ENLARGEMENT

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



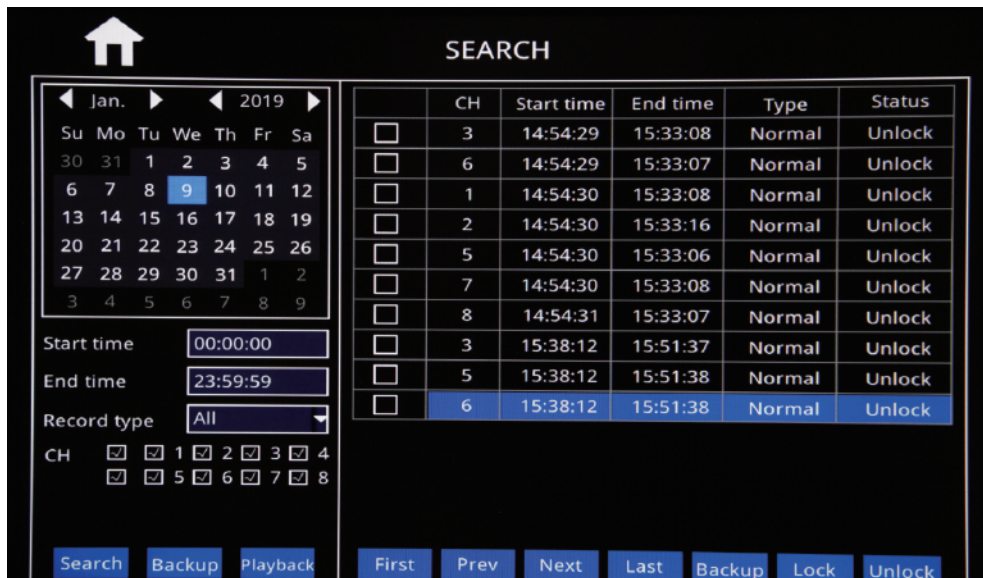
PLAYBACK

Step-01: Login MNVR Menu, User Name: admin, Password: Null (No Password)

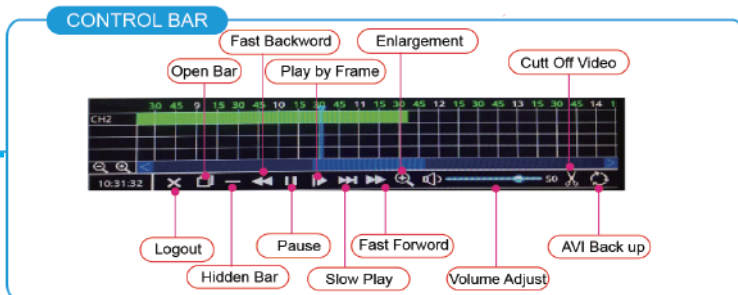
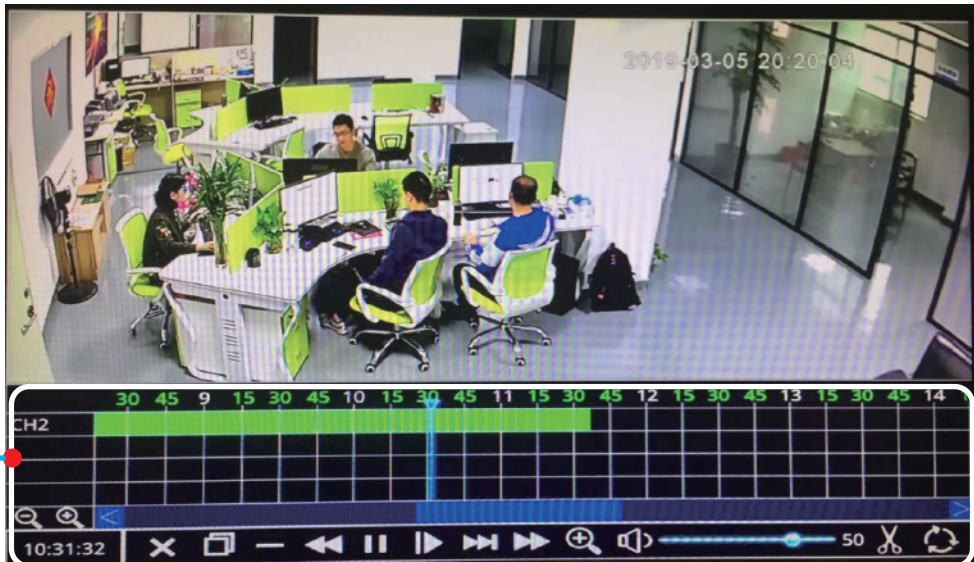
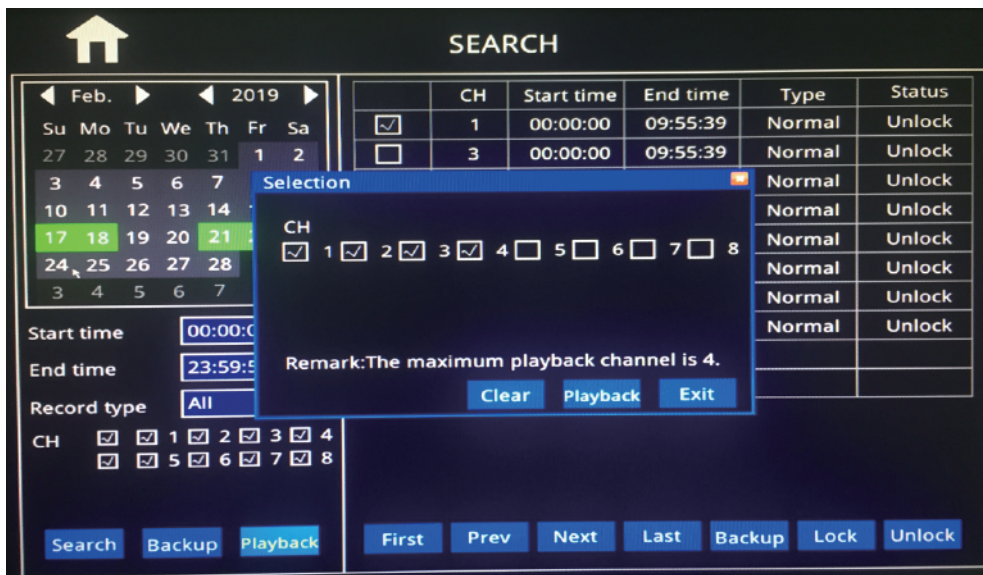


| LOGIN | |
|-------------|------------------|
| User name | admin |
| Password | |
| Random code | ADVL036RD2E3E9HY |
| Cancel | Login |

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



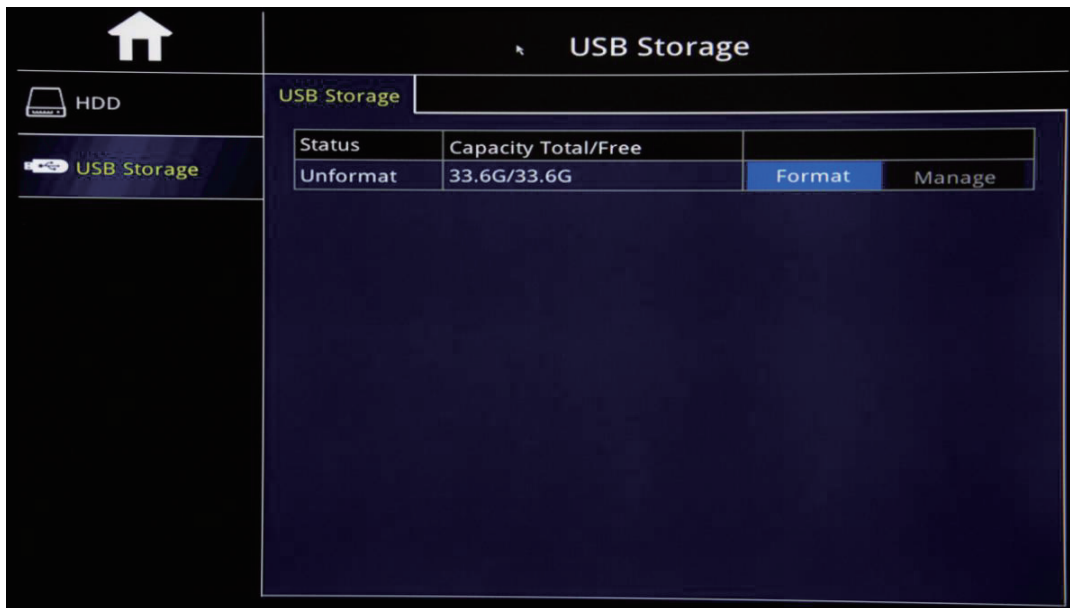
Step-03: Check Video File=> Click "Playback"=>Choose the Playback CHs (Max 4-CH)=> Click "Playback"



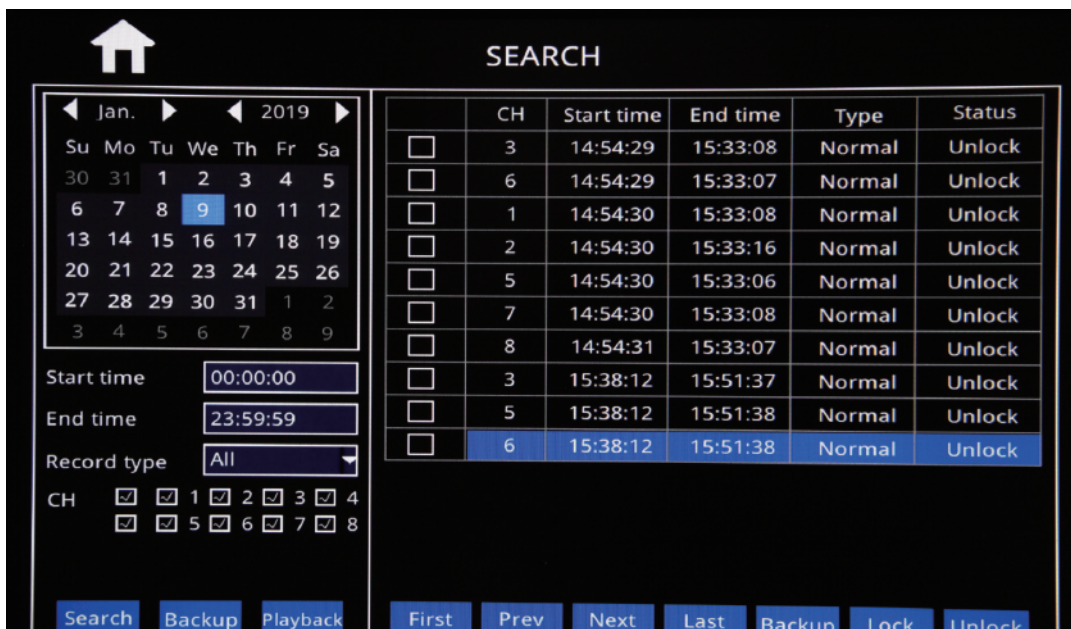
Step-01: Insert thumb drive into MNVR's USB Port



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



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



Step 04: Check the box of the video recordings that you would like to export.
 Step 05: Once thumb drive is connected via USB port, Select backup. It will show "Export Complete" once video has been exported to thumb drive.
 Step 06: Insert thumb drive into PC to view recordings. *refer to SD_HDD MNVR video software process and software download manuals.