

MDS User Manual



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Overview

Introduction

The MDS table is the professional tablet for the officer manage the evidence on the vehicle. The officer can activate recording by the button and edit the evidence meta data during playback efficiently.

The 7 inch screen can be installed easily on vehicle, and it's Android based which can be used to develop other application.

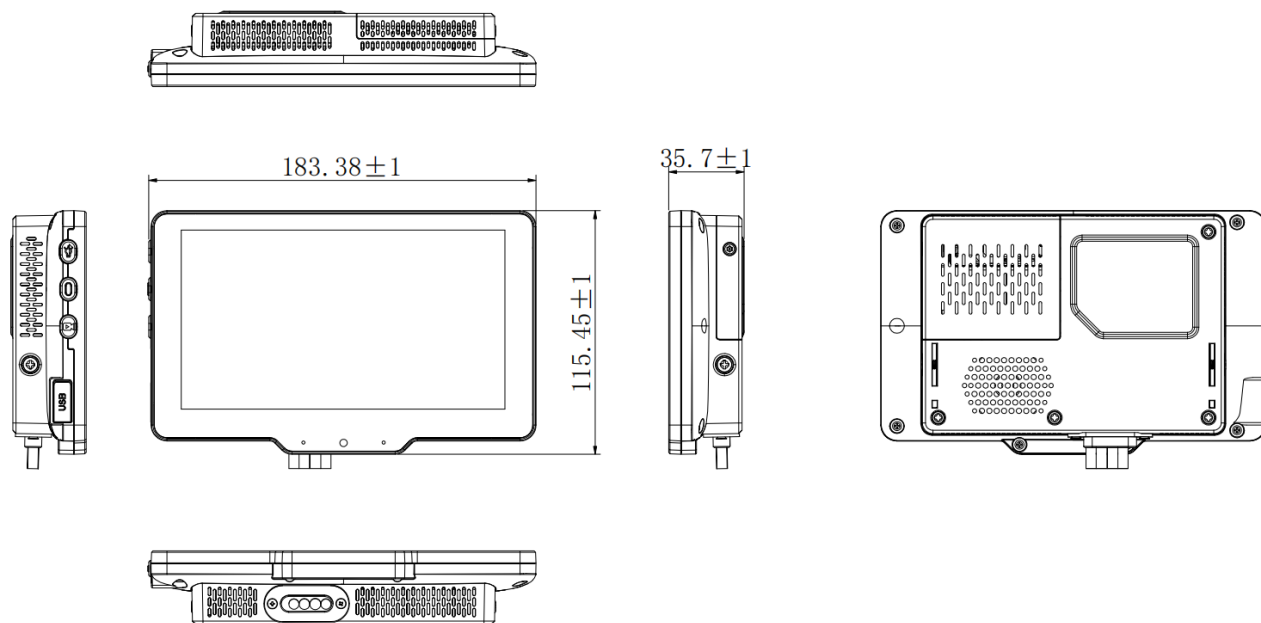
MDS spec

Product name		
	MDS(Mobile Dashboard Screen)	
Interface		
	OS	Android 11
	Resolution	1024*600
	Brightness	400cd/m²
	Touchable	Support
	Screen Ratio	16:9
Power		
	Power Input	DC12V
	Maximum typical power consumption	8W
Button&Light		
	Power Button	Turn light off
	Red Button	Activate recording
	Mute Button	Mute audio
Physical Characteristics		
	Screen Size	7 inch

	Product Size (L x W x H)	182mm*115mm*35mm
	Working Temperature	-30°C-70°C
	Working Humidity	90% non-condensing

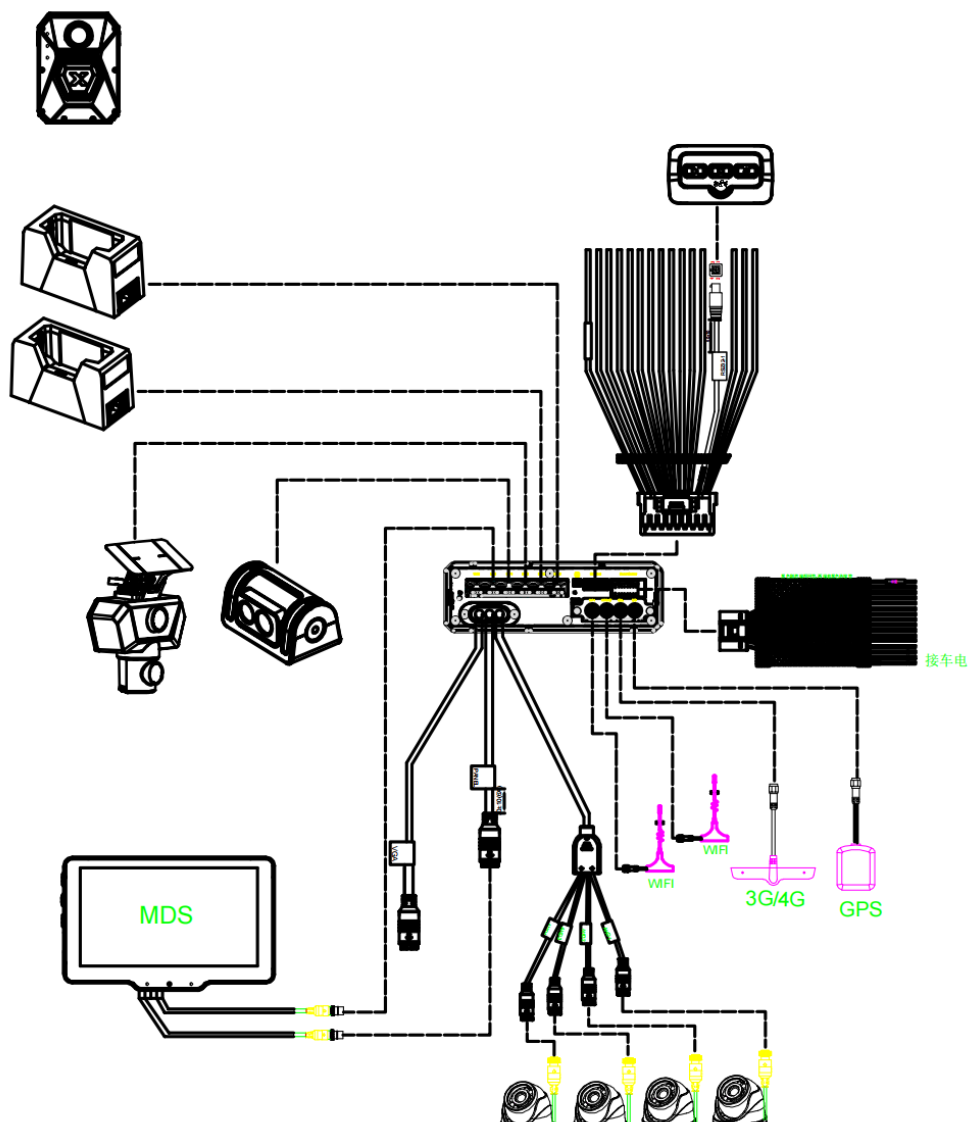
MDS Size

(Unit: mm)



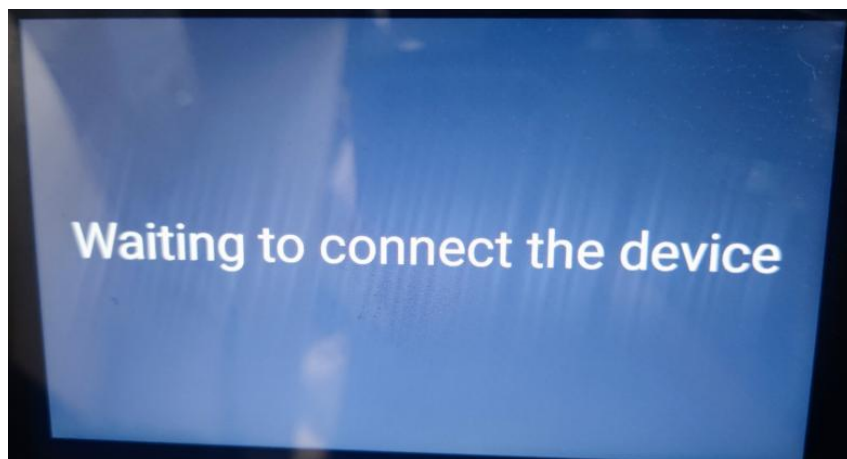
System diagram





Setup the system

Connect the MDS to MDVR, the screen will show below in the first time:



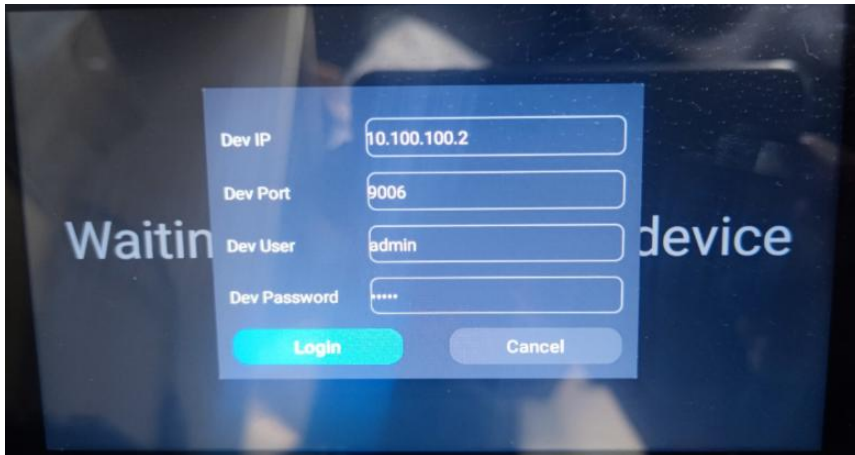
Press the screen for 3s, the login window pop up, input:

Dev IP: 10.100.100.2 (The IP is fixed)

Dev Port: 9006 (Fixed)

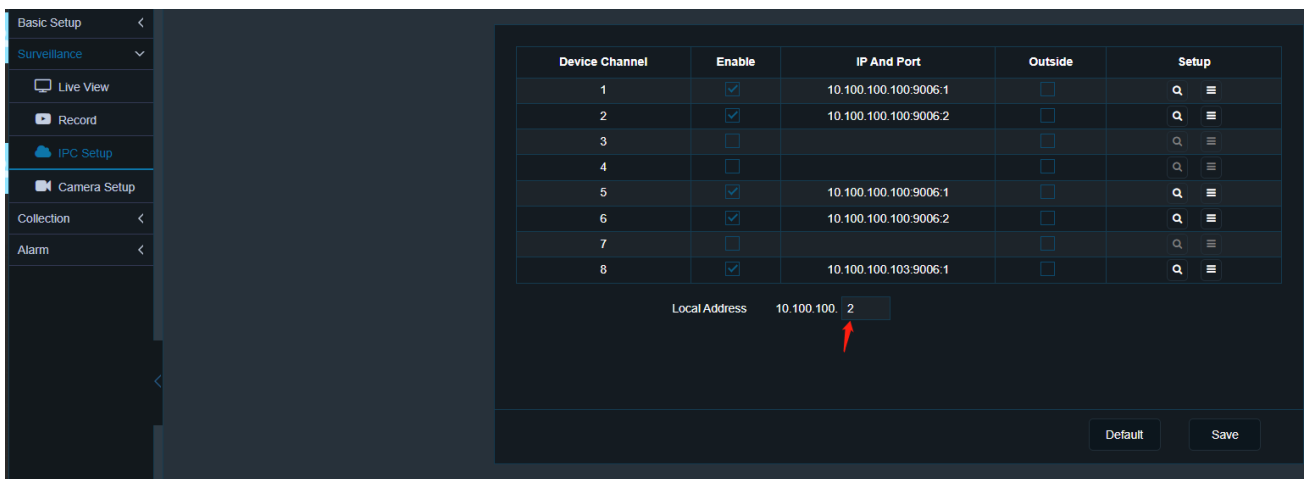
Dev User: MDVR configure page user name ("admin" in default)

Dev Password: MDVR configure page password ("admin" in default)



Note: Please ensure you have updated the MDVR and MDS to the right version. If no login success, please check the MDVR configure below:

Ensure the Local Address is 10.100.100.2



Button function



Light control

Can turn on/off the screen light, enter or exit the covert mode.

Record button

Activate the button alarm, linkage the MDVR recording. Currently, the MDVR Button Alarm is not supported when running the vigilant view APP.

Record Status light

It shows the recording status.

When the MDVR is alarm recording, it is solid red;

When the MDVR is no alarm recording (include no recording or background recording, not activated by alarms), it is solid green;

When the MDVR is in post-recording, it is blinking red.

UI

Soft record button

When all channels are not in the alarm video state, the software video button is

displayed as  state.

At this time, you can click the icon to trigger Button Alarm, and then start the recording of the channel according to the video linkage function of the alarm linkage setting. Note: The channel recording will be opened only when the alarm linkage video is configured, but not for all channels.

IO Alarm Speed Alarm Urgent Alarm Button Linkage			
Name	Enable	Alarm Type	Linkage
Button	☒	Alarm	Setup
Remote Activate	☒	Alarm	Setup

Button Alarm Linkage

Channel

☒ 1
☒ 2
☒ 3
☒ 4
☒ 5
☒ 6
☒ 7
☐ 8

Prerecording

(0 ~ 3600)Second

?

Post Recording

(0 ~ 18000)Second

?

Lock

☒

Paired BWC Record

☒

Linkage IO Output

☒ 1
☐ 2

Output Delay Time

(0 ~ 18000)Second

Linkage Screen

Alarm Snap

☐

Cancel

OK

If any channel is in the alarm recording state, the software video button is displayed as  state.

If you need to stop recording, you can hold down the button for 3s, which will stop the alarm recording of all channels, and will not enter post-recording status. If it is the channel recording triggered by Button Alarm, gun draw alarm, and BWC linkage alarm, the alarm state will be stopped when long pressing the soft button to stop recording; If recording is triggered by IO, the IO alarm will not be stopped.

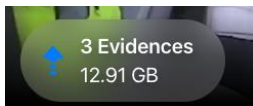
The soft record button is removable, you can press and drag it to any place in the screen.

It will always be displayed on the screen, unless it is displayed in the Vigilant View APP.

Menu button

In the live view page, when clicking on the screen, three menu buttons will be displayed at the bottom of the page: the Evidence button, the MDVR status button, and the User button

Evidence info



The button displays the number of events and the size of the evidence file. If

MDVR is uploading evidence, the upload icon  on the left will be displayed; Otherwise it will not be shown

MDVR Status info

It shows the 4G status, WiFi status, server connection status and disk occupancy status of MDVR.



4G Status: Show 4G signal strength and connection status. The last icon means the MDVR not connect to the cellular network.



WiFi Status: Show WiFi signal strength and connection status. The last icon means the MDVR not connected to WiFi.



Server Connection Status: Displays the connection status and network type between the MDVR and the server.

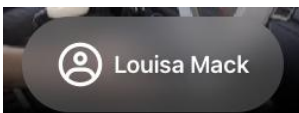


The first three ICONS indicate that the MDVR is connected to the server, and correspond to WiFi connection, 4G connection, or in-car router network cable connection. The fourth icon indicates that the server is configured but not connected, and the fifth icon indicates that no server information is configured.

Disk Occupancy Status: It represents the percentage of locked video usage. If the video is unlocked and can be overwritten, it is not in the occupied state.



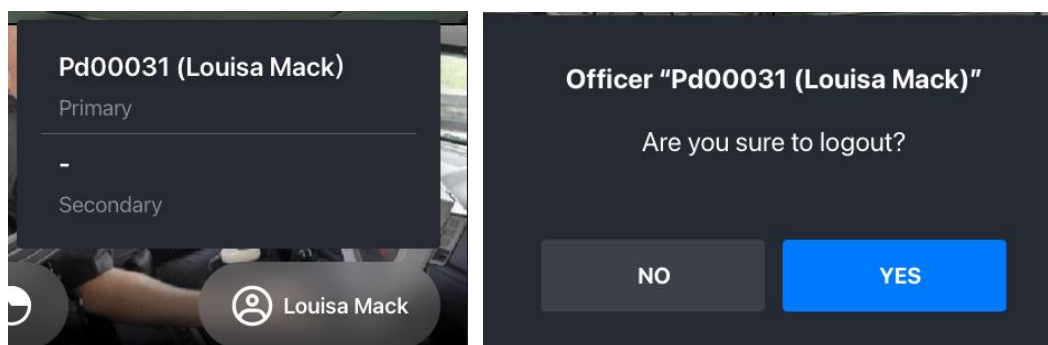
User info



After a user logs in, the user information is displayed on the button. A maximum of two users can log in at the same time. The evidence is associated with the login user. After the evidence is reported to VEMS, the user has the permission to view the evidence.

Click the button to show the users and do more operations, such as log in or log out.

After login, it will show the user ID and user name. You can log out by click the user info.

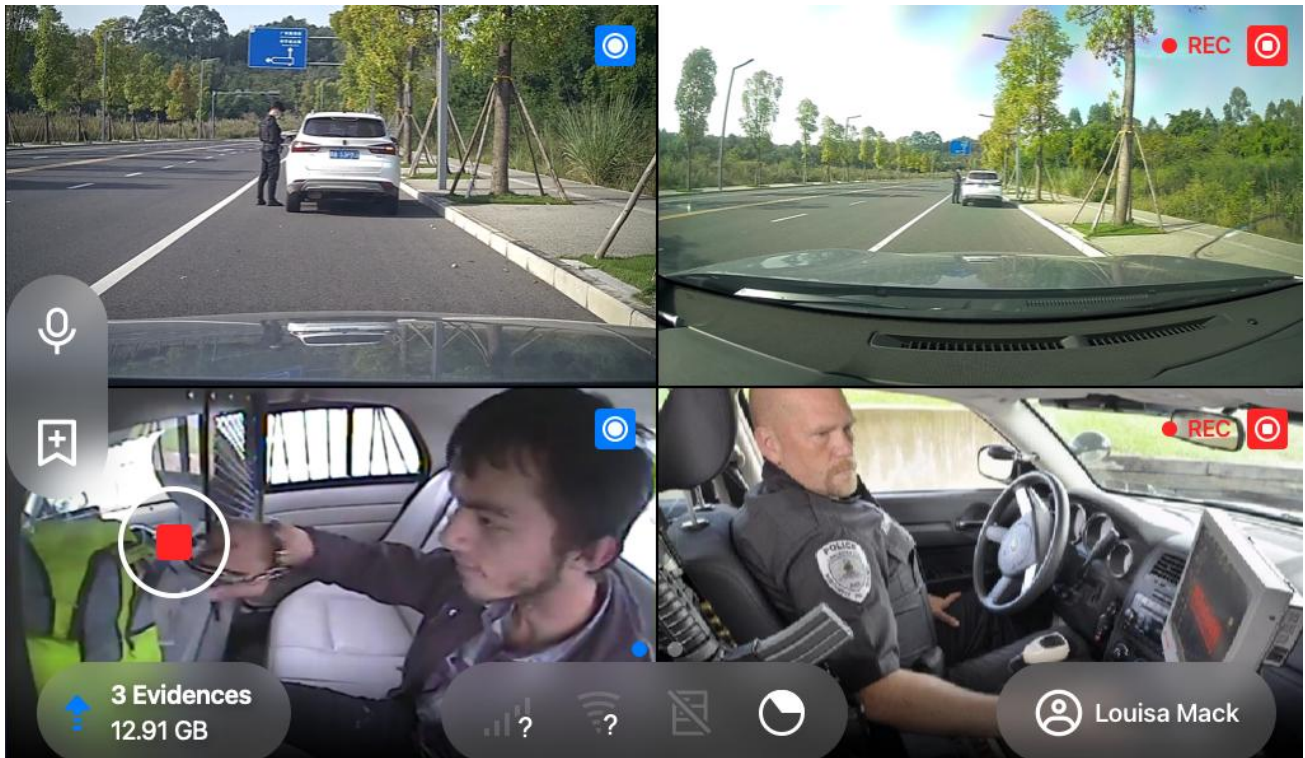


When you need to login, you can click the "-", and it will show a login dialog, after enter the user ID and password, you can login to the MDVR.

The image shows a dark-themed 'Officer Login' dialog box. It has two input fields: 'Officer ID' and 'Password'. Below the fields are two buttons: a blue 'Login' button and a grey 'cancel' button.

The user account is the same with VEMS. After registered on VEMS, the account information will send to MDVR, then you can login with the new account.

Live view page

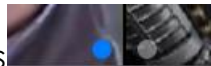


Real-time monitor

The real-time monitoring screen will be displayed in 4 split screens by default, and the live view video can be viewed through the network stream. Multi-channels are displayed with sub-stream, single channel is displayed with main-stream. You can double click the channel to switch multi-channels and single channel.

Slip to switch channels

If you want to switch channels, you just need to slip from left to right, or from right to left. At the bottom of the screen, there is a circle of the number of pages, you can see the current number of screens



Single-channel record button

Every channel has a single-channel record button. When the channel is not

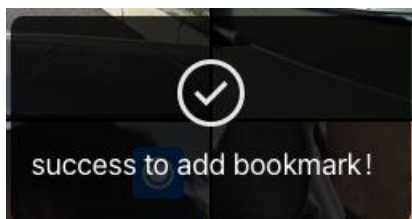
recording, the button is like this:  , you can click the button to start recording a single channel. When the channel is recording, the button will change to the recording state  , you can click the button to stop the recording

Mute/Un-mute audio

The current audio status is displayed on the screen. When a police officer needs to mute at a special time, he can click the mute button on the screen  and unmute it when he clicks again . You can mute whether you are recording or not

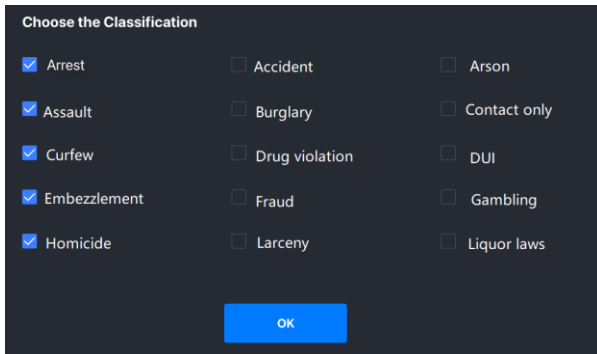
Add bookmark

You can quickly add a bookmark by clicking the Add Bookmark button  while you are recording a live view video. Not allowed to click when not recording . A box will pop up when the bookmark is added successfully



Set evidence classification

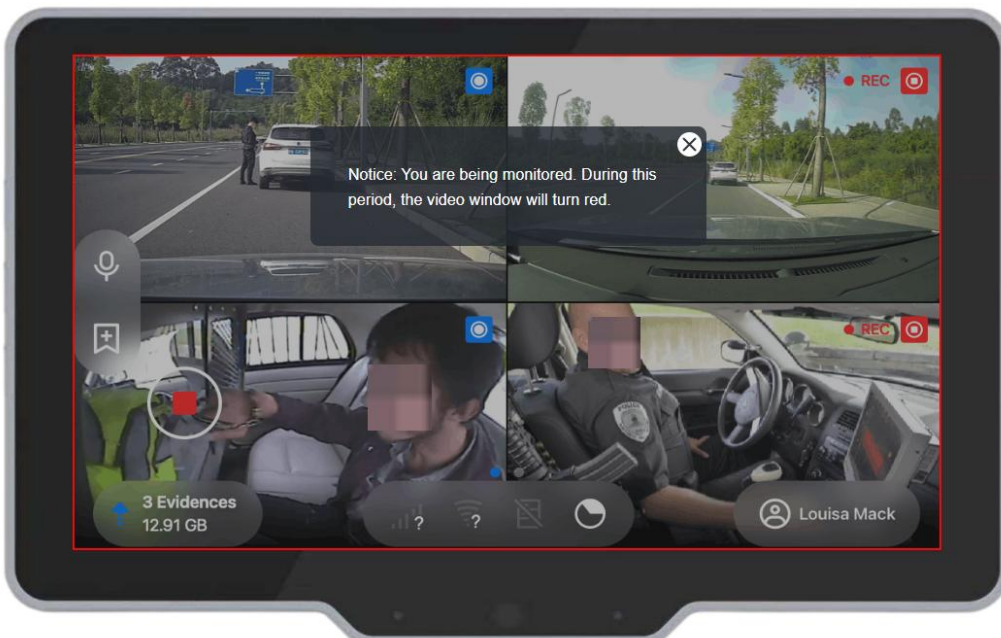
After the alarm recording, the dialog of classification will show. You can choose the right classification for the event and click "save" button. If the alarm is over but going into the post-recording status, the dialog will not show. It will disappear after the alarm recording is stopped 1 minute later.



Note: The classifications are stored in MDVR. The classifications are synchronized from VEMS (Evidence Server). If there is not any classification, then no dialog of classification to show. When MDVR is reset to factory settings, it will remove all of the classifications.

Reminder

When V3N is being monitored remotely, if the MDS is on the Live page, it will remind the officer that it is being monitored.



- A pop-up reminder box will inform the police officer that they are being monitored, and it will beep twice. You can close the reminder box by

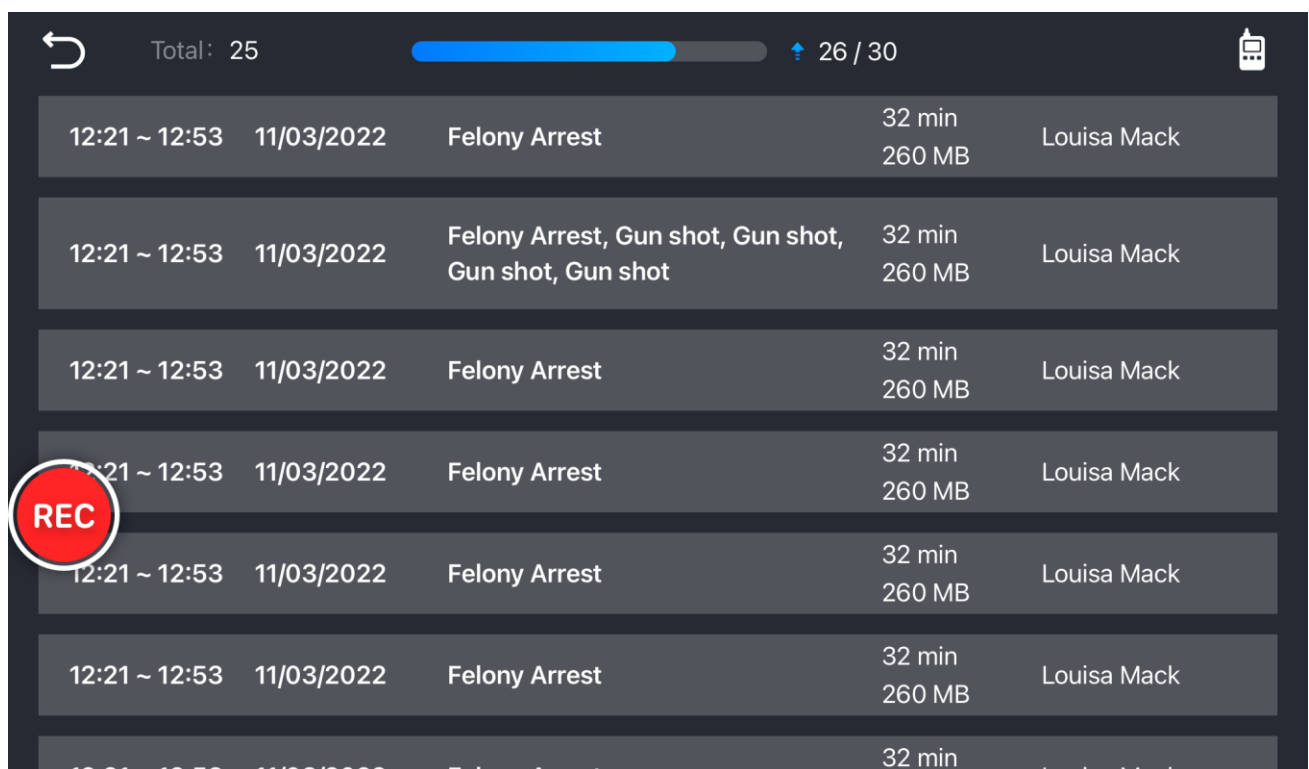
clicking anywhere on the screen.

The border of the Live window will be displayed red during monitoring, and the red border will automatically disappear when it is not monitored.

If the MDS is not in the Live window (for example, in the video playback window) when being monitored, there will be no reminder, but when it returns to the Live window, it will remind you.

Evidence list page

You can click the Evidence info button from live view page, then the evidence list page will show. You can click the back button on the left top side  to the live view page.



	Total: 25		 26 / 30	
12:21 ~ 12:53	11/03/2022	Felony Arrest	32 min 260 MB	Louisa Mack
12:21 ~ 12:53	11/03/2022	Felony Arrest, Gun shot, Gun shot, Gun shot, Gun shot	32 min 260 MB	Louisa Mack
12:21 ~ 12:53	11/03/2022	Felony Arrest	32 min 260 MB	Louisa Mack
12:21 ~ 12:53	11/03/2022	Felony Arrest	32 min 260 MB	Louisa Mack
12:21 ~ 12:53	11/03/2022	Felony Arrest	32 min 260 MB	Louisa Mack
12:21 ~ 12:53	11/03/2022	Felony Arrest	32 min 260 MB	Louisa Mack
12:21 ~ 12:53	11/03/2022	Felony Arrest	32 min 260 MB	Louisa Mack

Evidence list

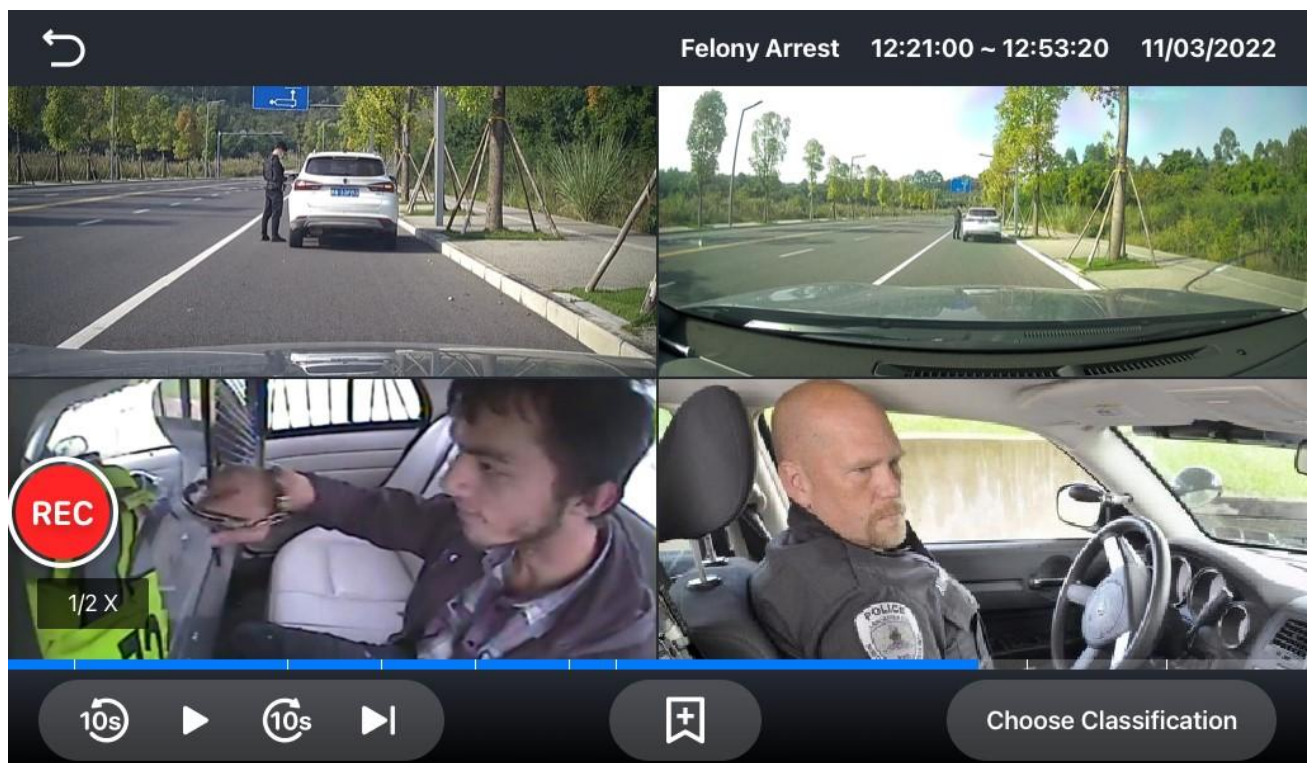
On this page, it will show the evidence list order by time and date desc, include the start time, end time, date, classification, duration, file size, and user information. We can only look at evidence that links registered officers. If the evidence is not linked to a police officer, anyone can view it.

Click the icon in the upper right corner to access the Vigilant View APP.

Upload status

At the top of this page, there is a total count of evidence list, and the upload status of evidence. Usually, one piece of evidence corresponds to multiple files, and the upload status is calculated by the number of files.

Evidence playback page



In the evidence list page, click any evidence to enter the playback page. You can click the back button on the left top side  to the evidence list page.

At the top of the page, the classification of evidence, start time, end time, and date are displayed. In the middle is a video playback, and below it are progress bars, video controls and evidence action buttons

Play control

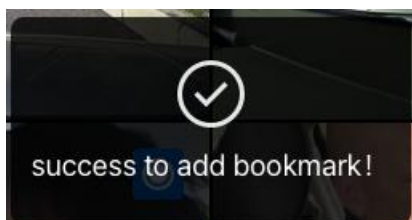
You can double-click the video playback window to enlarge the video playback window and click to select an audio channel to play. If a sub-stream exists, the sub-stream is played first. If there is no sub-stream, it will be played through the main stream, but the multi-channel main stream will be played out.

During playback, you can press the button to fast forward 10s, fast back 10s, pause playback, slow down (the slowest is 1/16 times the speed of playback).



Add bookmark

You can quickly add a bookmark by clicking the Add Bookmark button  while you are playing back an evidence video. A box will pop up when the bookmark is added successfully



Set evidence classification

You can quickly add a bookmark by clicking the Choose Classification button

Choose Classification

while you are playing back an evidence video. A classification dialog page will pop up to choose the classification of the evidence. After choose and save the evidence classification, it will show at the top.

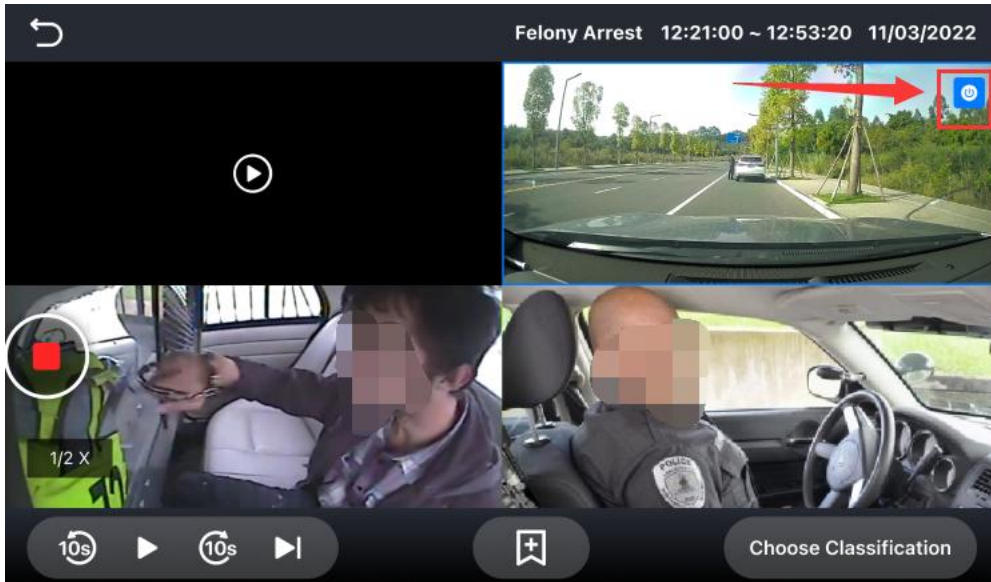
Insufficient Video Playback Resources Reminder

Due to the limitation of MDS hardware resources, MDS supports up to 3 channels of 1080P playback. If there are more than 3 channels, playback will be stuck. To prevent users from thinking that there is a problem with the video, when the MDS hardware resources are insufficient and the video is stuck, a reminder box will pop up to remind the user. Users can choose to close some channels to release hardware resources and ensure smooth playback.

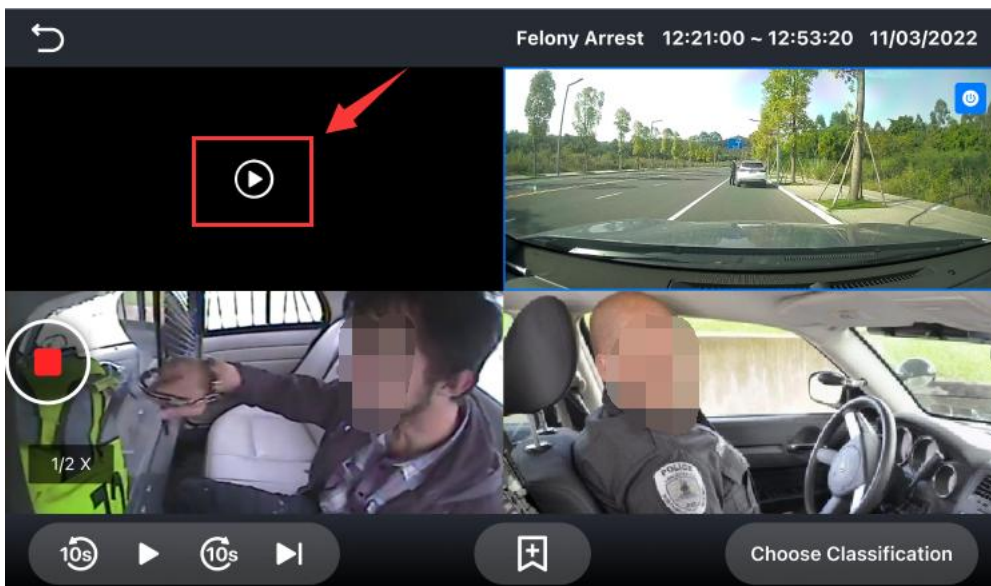
1. During the evidence playback or device playback process, if MDS detects that the hardware resources are insufficient, a reminder box will pop up to remind the user



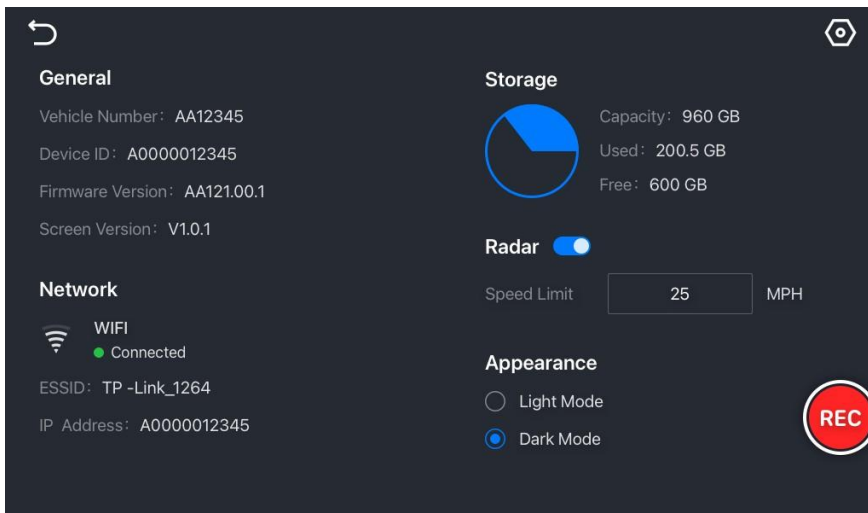
2. Users can select a channel (click on the channel window) and click the close button to close the channel, reducing hardware resource consumption and alleviating playback stuttering issues.



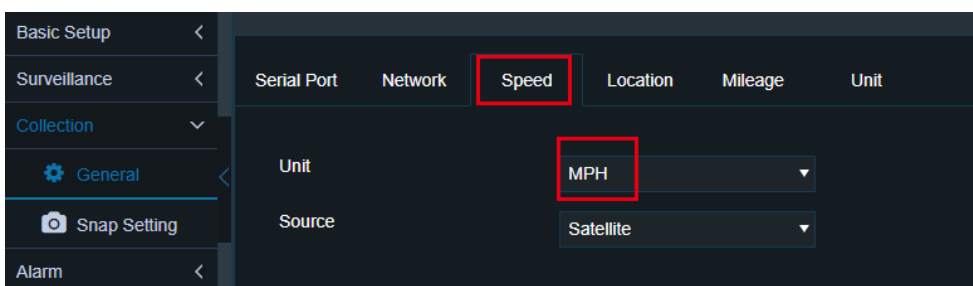
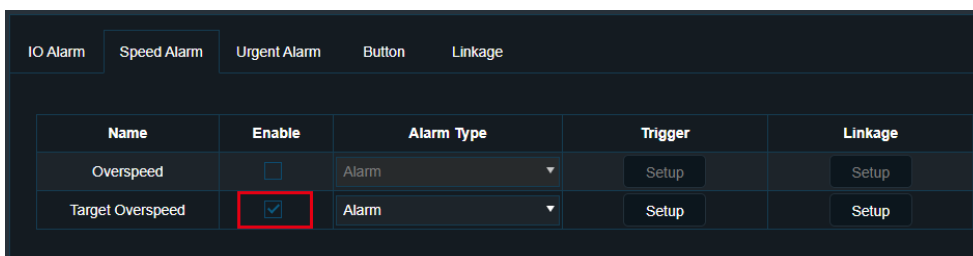
3. If the user needs to open a closed channel, they can click the play button to open the video



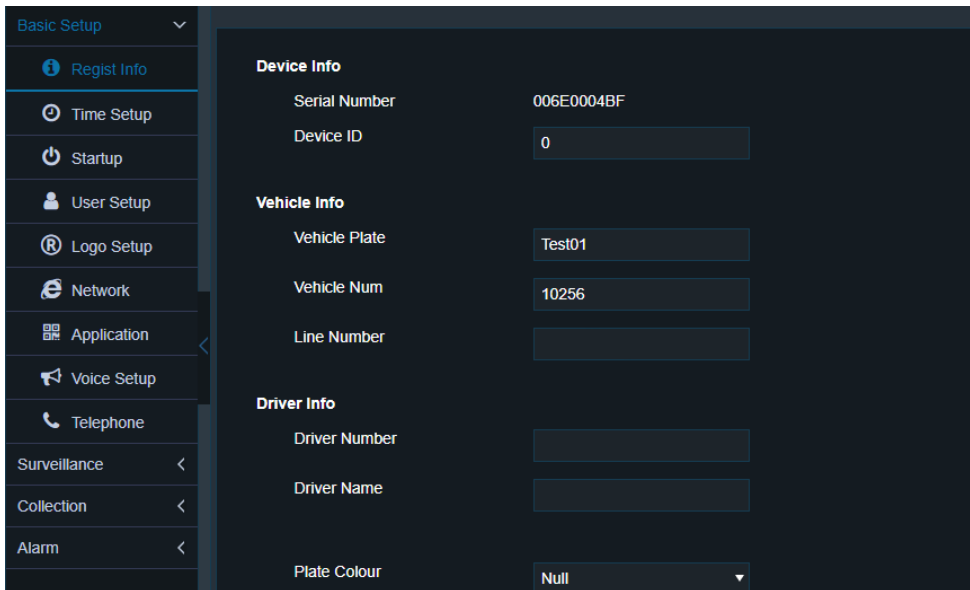
Status page



Here you will see some basic information such as license plate number, MDVR device ID, MDVR firmware version number, MDS firmware version number. The WiFi network connection status of the MDVR will be seen in the lower left corner. The disk usage status is displayed in the upper right corner. If the radar detection alarm is turned on, the speed limit value of the radar detection can be set. If the alarm is not turned on, it cannot be set. The radar speed unit is consistent with the MDVR speed unit.



Click the icon in the upper right corner , log in to the MDVR account and go to the MDVR Settings page.



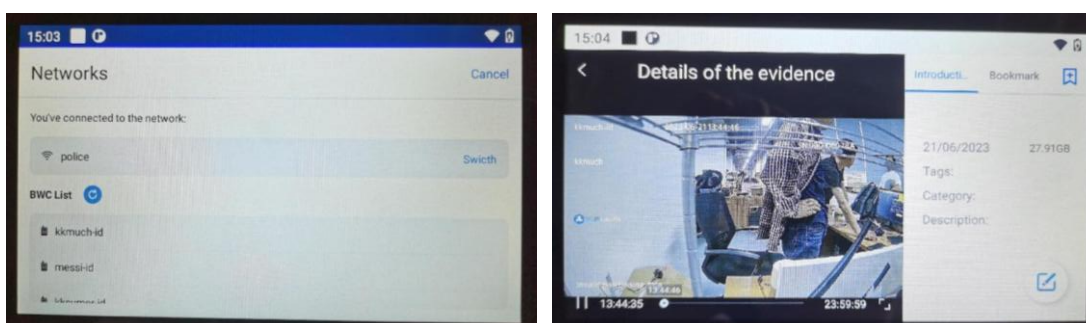
The current version does not support theme Settings.

Vigilant View APP

Click the icon in the upper right corner in Evidence list page to access the Vigilant View APP.

For details, refer to the Vigilant View APP operation manual.

Long press the light control button to return to the MDS Evidence list page from the Vigilant View APP.

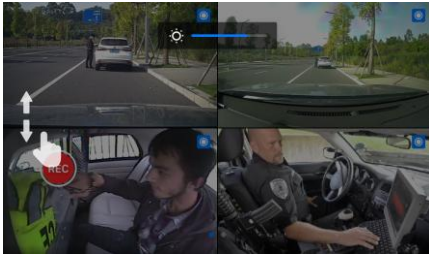


Note: When the Vigilant View APP is in use, the MDS is on the WiFi network, and the wired network with MDVR will be disconnected, so recording cannot be enabled through the REC button and the soft record button.

Brightness adjustment

The current version only supports manual brightness adjustment, which can be adjusted in the live view page, and the evidence playback page.

Swipe up and down on the left side of the screen, swipe up to brighten and slide down to darken.



Volume adjustment

To avoid audio loops, the live preview page does not play audio by default. The volume can only be manually set by swiping up and down on the right side of the playback screen. Swipe up to increase volume, slide down to decrease volume.



Upgrade

MDS auto upgrade

The current version supports only automatic MDS upgrade. Create an “autoupgrade” folder in the root directory of the USB flash drive and place the

upgrade file in the folder. Note that the name of the upgrade file must start with "TP4_".

CentOS 7 x8 (F:) > autoupgrade

在 autoupgrade 中搜索

名称	修改日期	类型	大小
 TP4_LE_TP4_E0010_V3.5.6_R23062806.STM	2023/7/3 15:30	STM 文件	788,134 KB

In general, the upgrade will start 5 minutes after the USB is plugged in MDS. You can scroll down from the top of the MDS screen and a system status bar will appear. When a USB flash drive is detected, the system status bar will show this icon:

