

Quick start on mNVR BITREK connection



Complete set

In the box you will find:

- mNVR BITREK device
- Warranty card
- GPS antenna
- Wifi antenna
- 2 LTE antennas
- Power cord
- CONNECT bus cable
- Cable sensors
- Wrench



Connection

1. Using a wrench, unscrew the screws and remove the spare bar: 
2. After installing the SIM card, connect the antennas to the device: 
3. After connecting the antennas to the device, you need to connect it to the power supply 
 1. If you need to connect it to the CONNECT bus then use the following cable 
 2. If before 12V power then use the following cable (yellow +, black -) 

Example of power connection:



After connecting to the power supply, it takes 1-2 minutes to download the device.

After downloading, make sure that the indication was successful

| Indicator color | Location | Value | Status |
|-----------------|------------------|--------------------------------|--|
| red | from the cameras | CAN power and status indicator | should be lit continuously if CAN is connected, flashes if CAN is not connected, if not lit - then power problems or CAN |

| Indicator color | Location | Value | Status |
|-----------------|-------------------|--------------------|---|
| blue | from the antennas | Wi-Fi indicator | first blinks frequently searching for a network, then blinks less often if an access point is found |
| yellow | from the antennas | Internet indicator | glows in the presence of the Internet |
| green | from the antennas | GPS indicator | Does not glow in the absence of GPS |
| orange | from the antennas | Modem indicator | flashing |

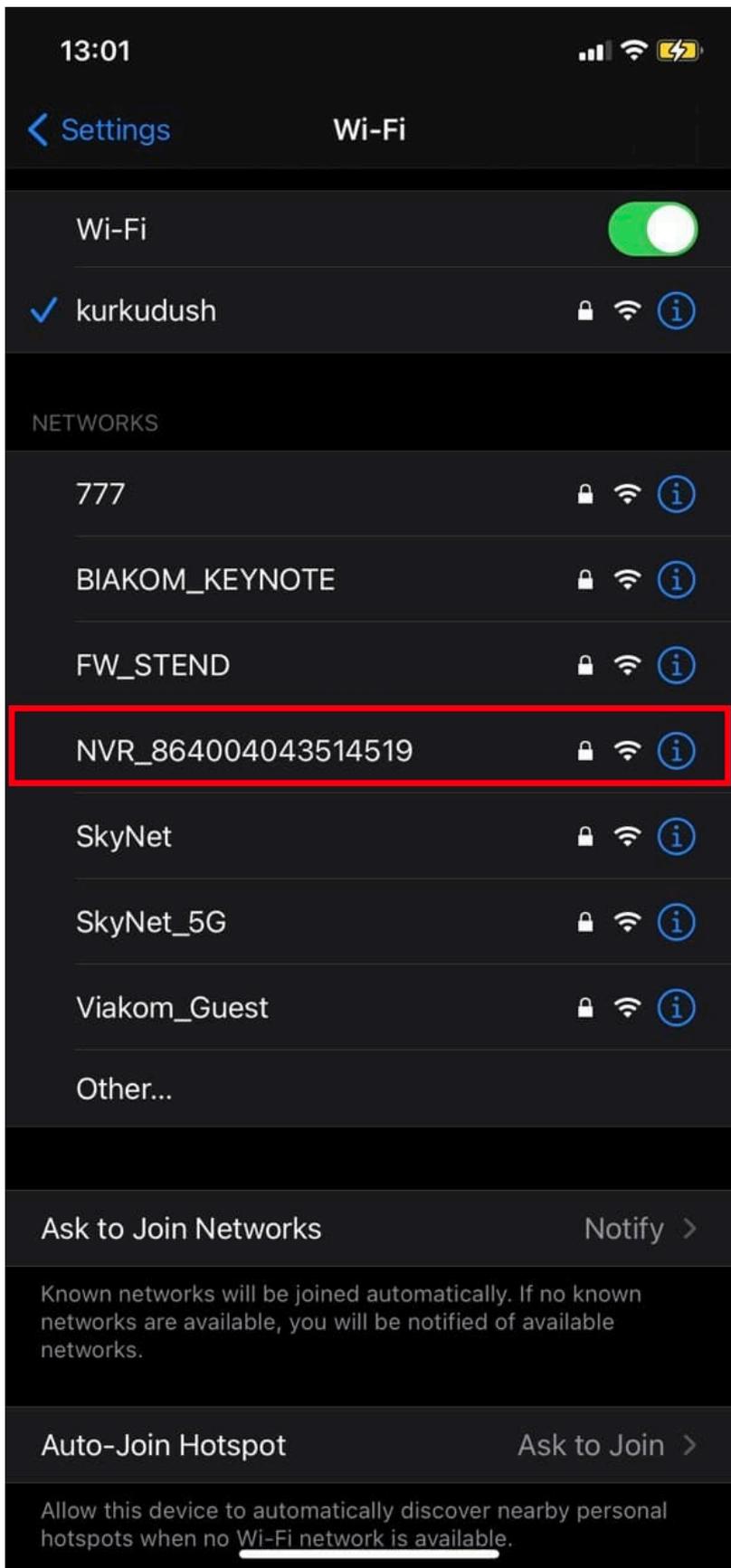
Getting Started

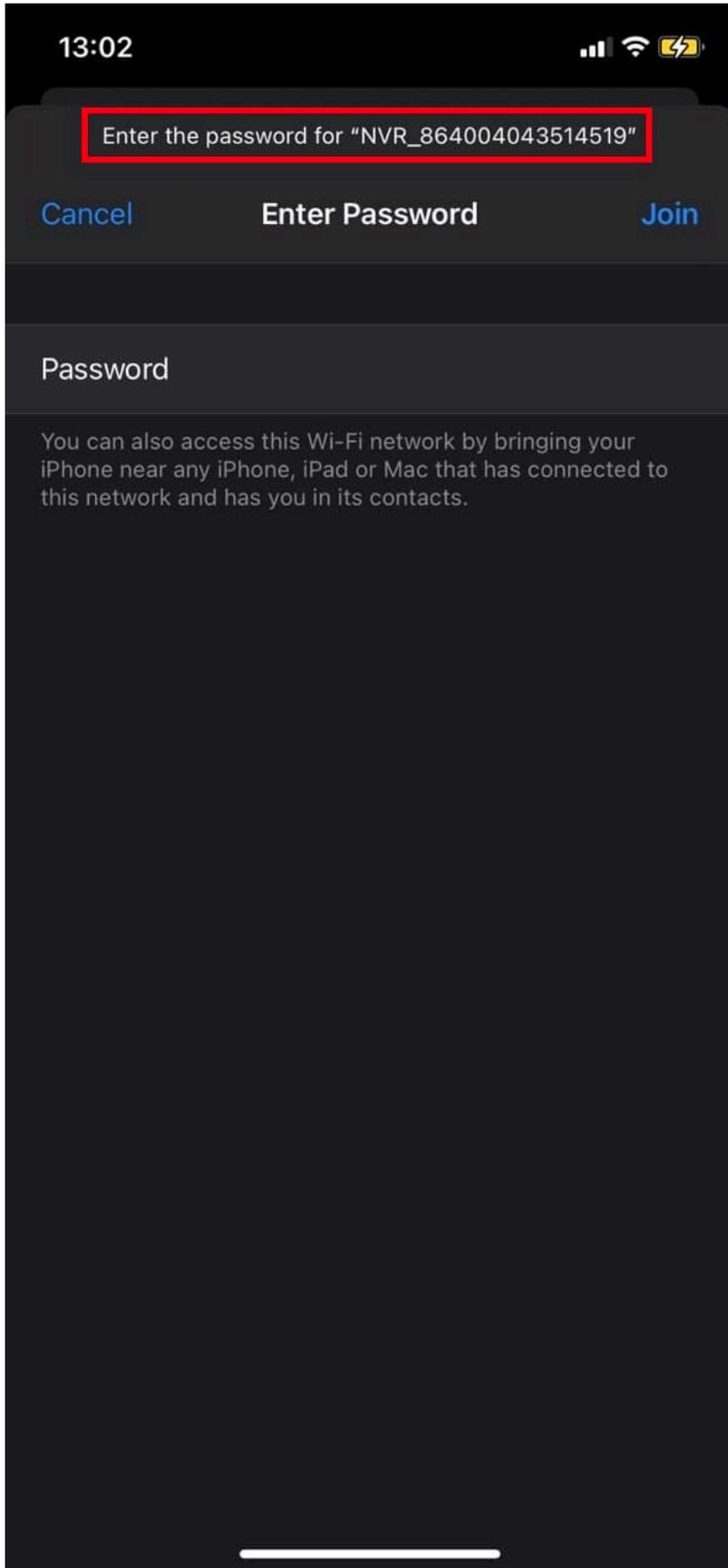
After connecting the device to the power supply, it must be connected to the Internet. You can do this in two ways:

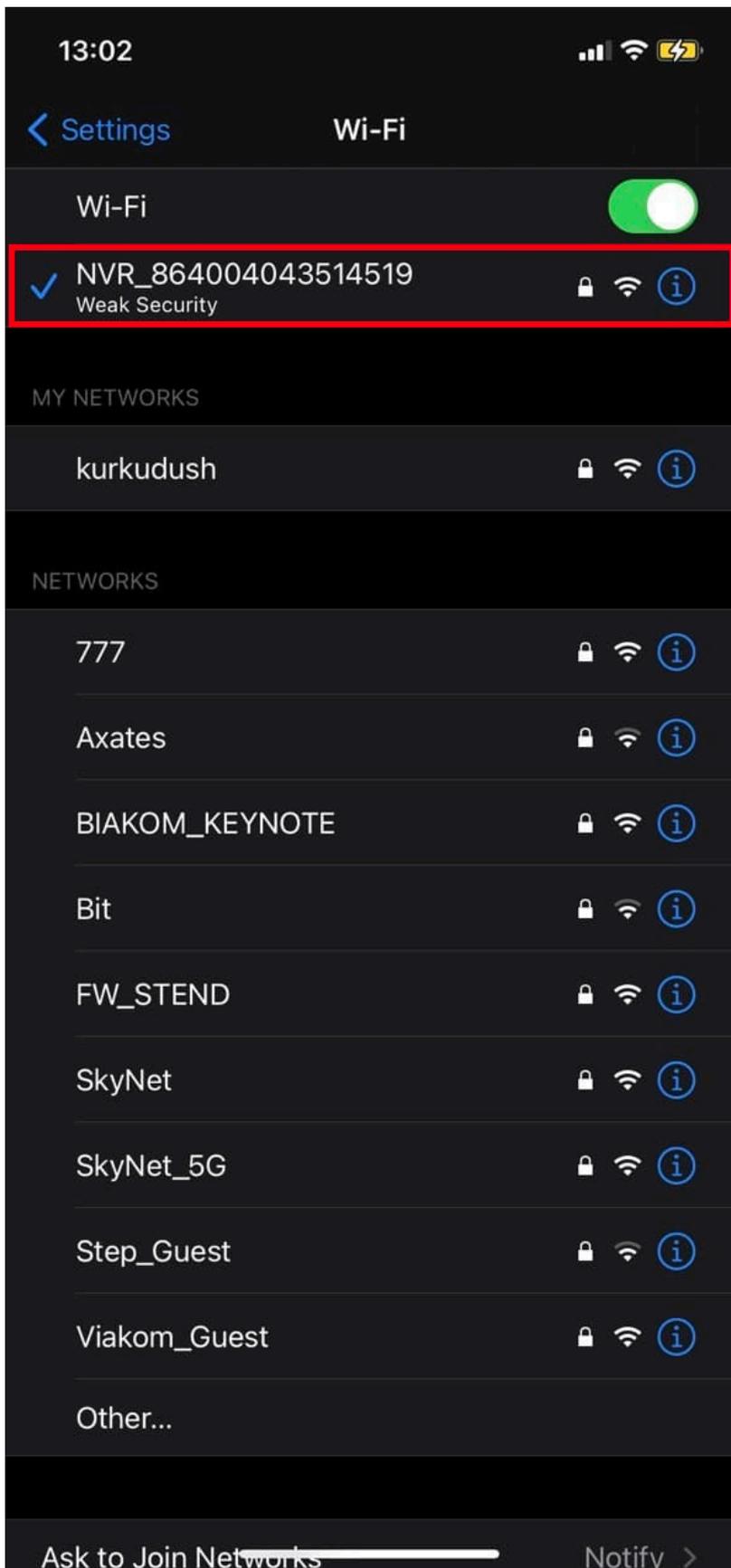
- Using Wi-Fi;
- With the help of the cloud.

1. The first way: **Using WI-Fi**

1. find the Wi-Fi device in the list (NVR_IMEI-unique device number)
2. Then enter the password to Wi-Fi which is printed on the sticker of the device passport, in our case it is "NVR12345"
3. If everything is done correctly, we will see that connected to the network:







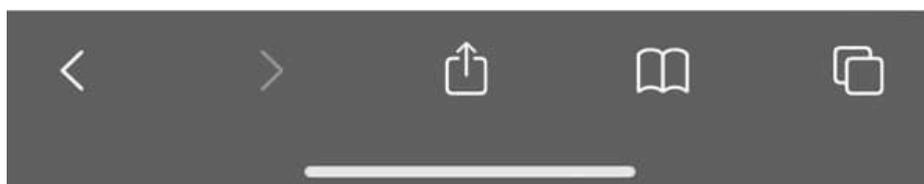
1. Then enter the address "10.42.0.1" in your browser, enter the password and go to the device control menu (On some models of phones, the connection may not be immediate. In this case, you need to wait about 30 seconds and try again)



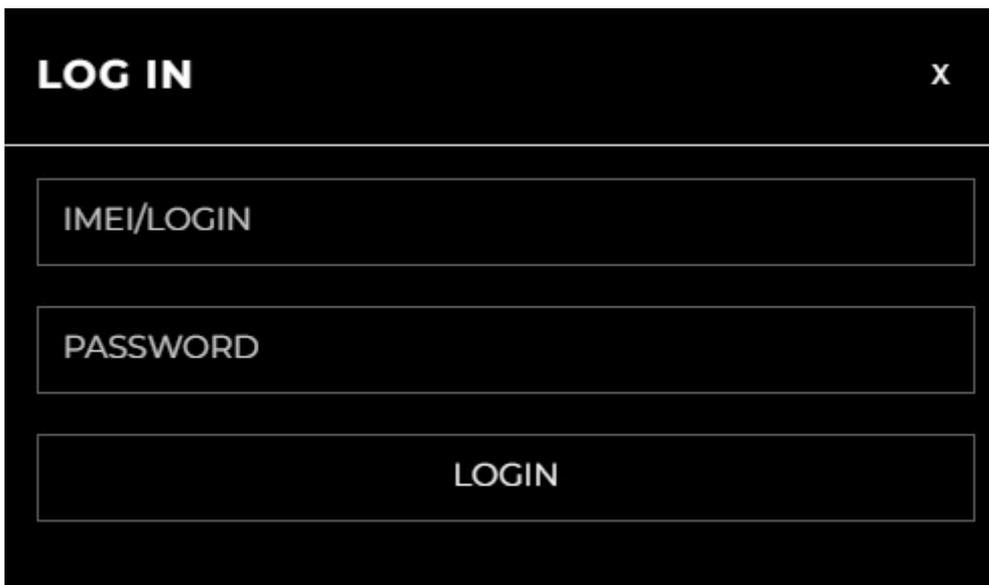
mNVR web

864004043514519

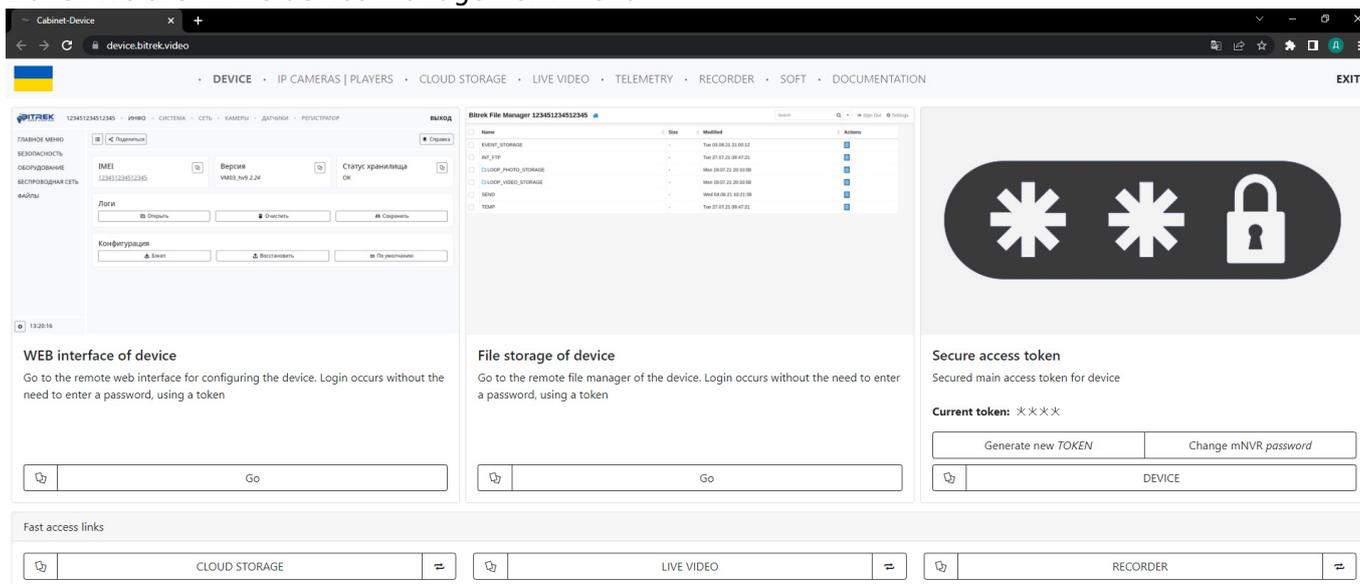
© Bitrek VideoMonitoring 2022



1. The second way: **Using the cloud service <https://device.bitrek.video/>**
2. Go to the [site](#) enter the IMEI and password that is printed on the sticker of the device passport:

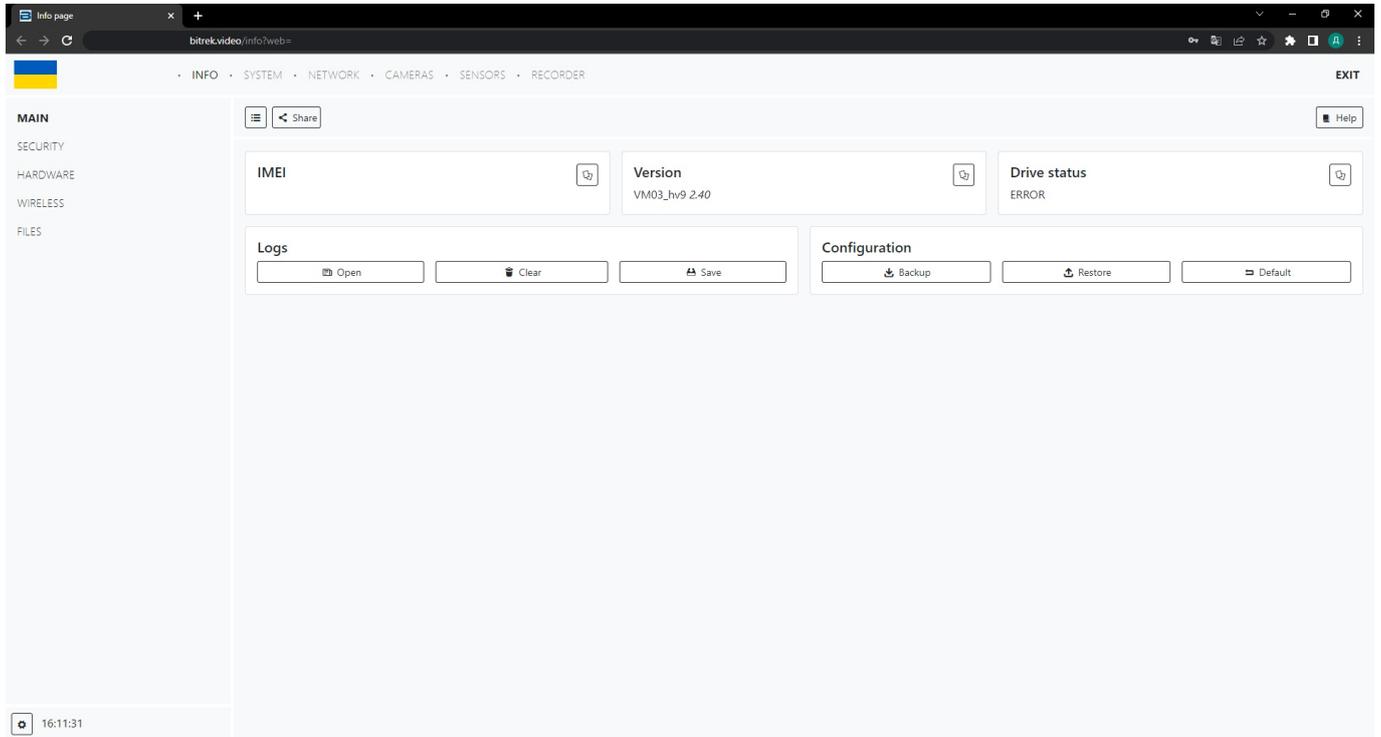


Done! We are in the device management menu



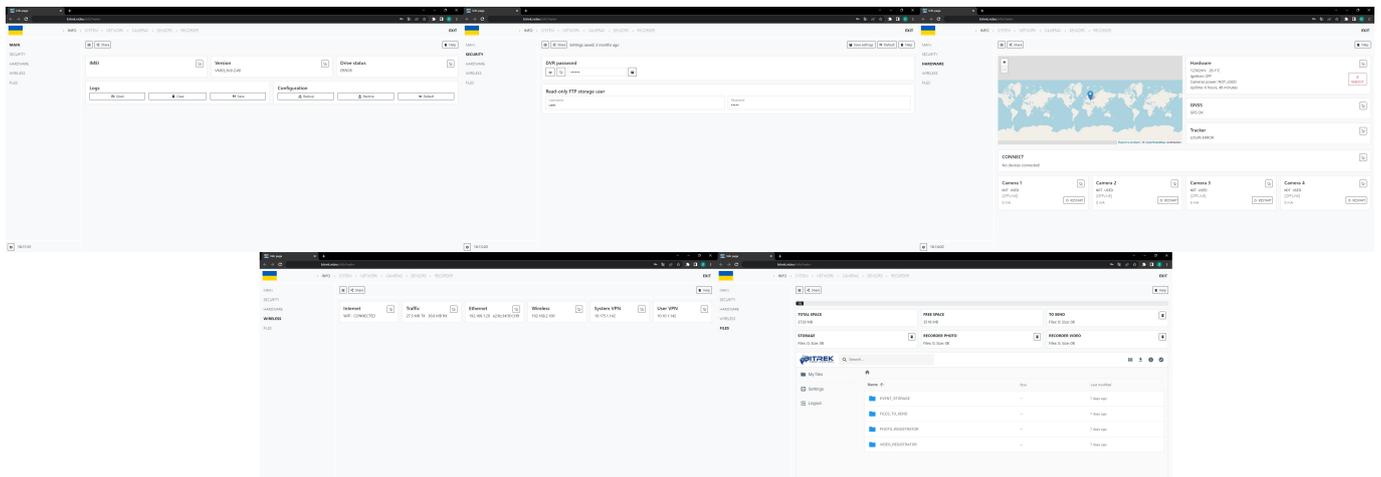
Working with the WEB interface

Go to the WEB interface page of the device by clicking on the corresponding icon on the photo



Here we can see the main tabs such as: **INFO, SYSTEM, NETWORK, CAMERAS, SENSORS, RECORDER** and auxiliary tabs for each of the sections located on the left. Let's go through each of the tabs briefly

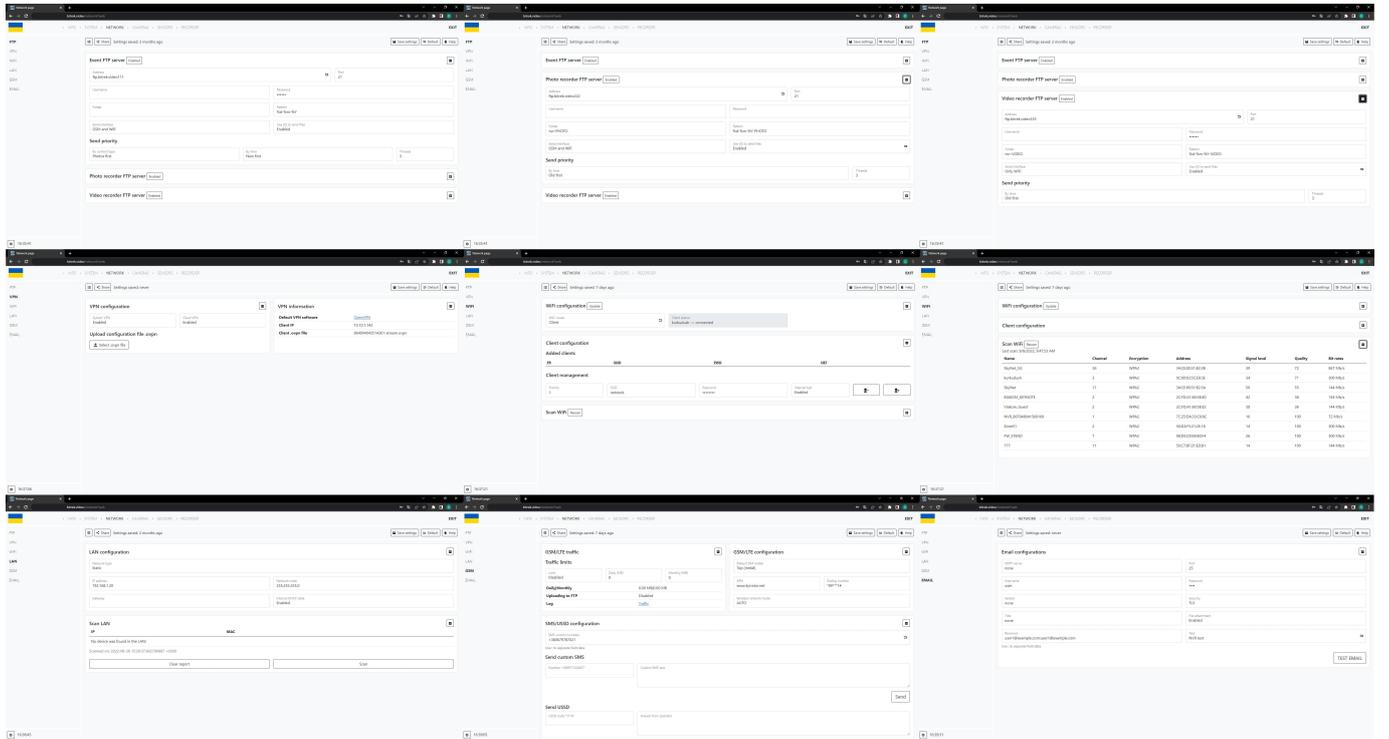
INFO



(click on the image for detailed view)

This tab is mainly for:

- Viewing information about your device;
- Logs of your device;
- Device configuration with the ability to download and transfer to other devices;
- Change the password of your device for security purposes;
- View files in the storage of your device.

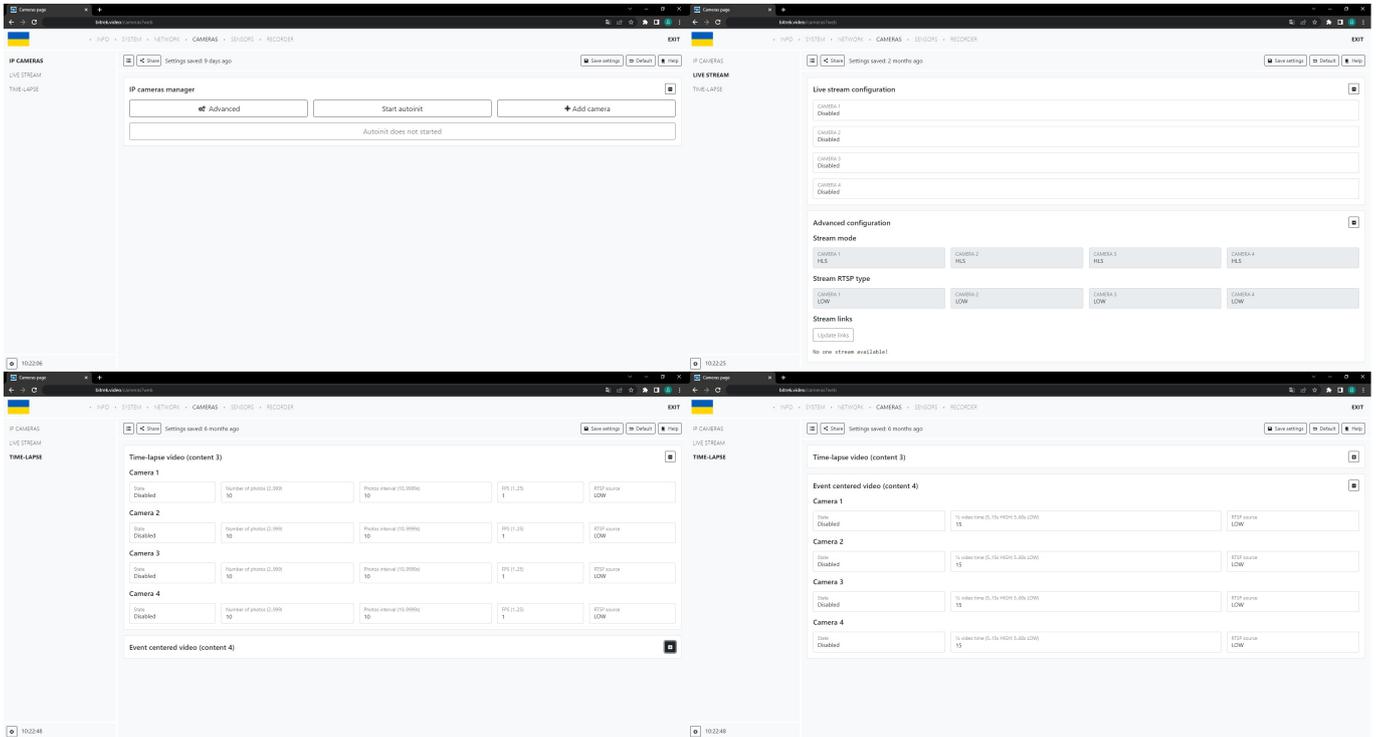


(click on the image for detailed view)

The tab is intended for device network settings such as:

- Event servers for FTP and for photo and video registrar;
- VPN configuration settings;
- Wi-Fi configuration and access point settings;
- LAN network settings;
- GSM/LTE network settings and traffic usage;
- Email settings.

CAMERAS

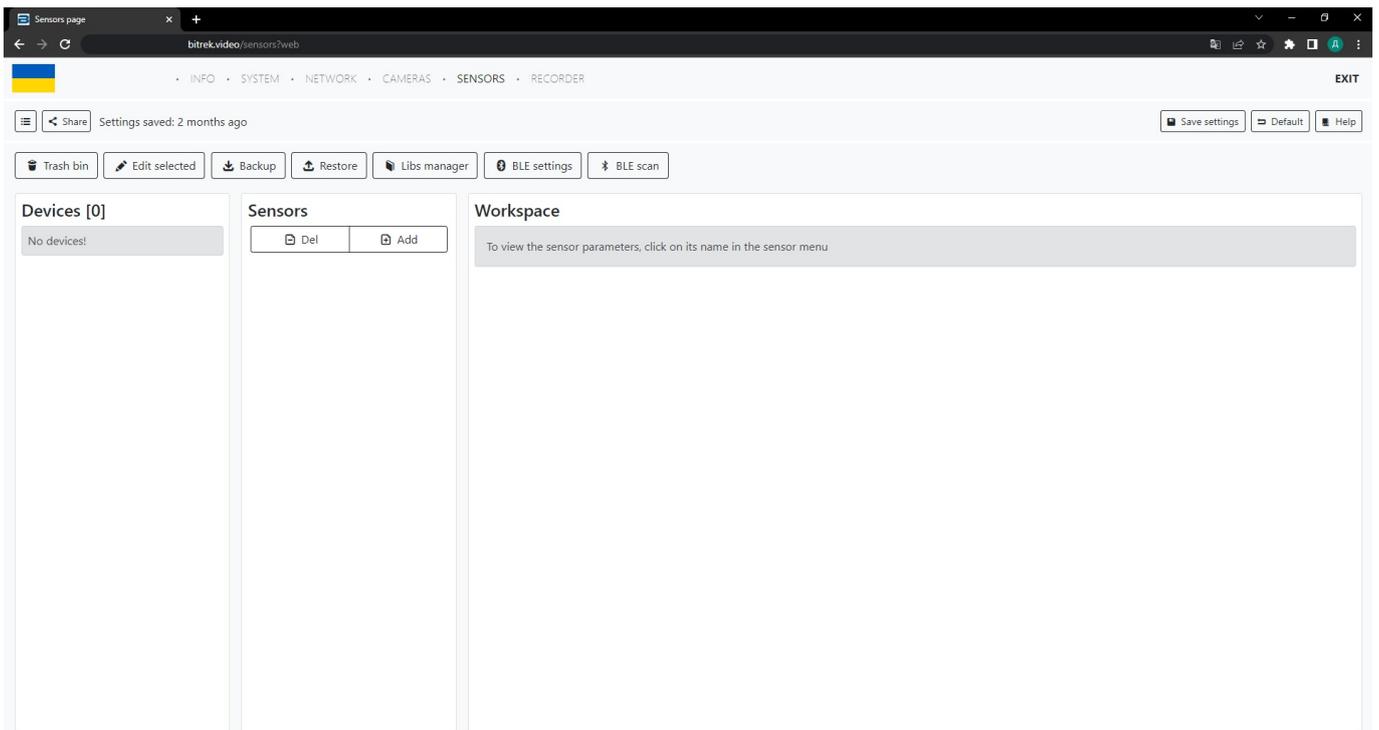


(click on the image for detailed view)

This section allows:

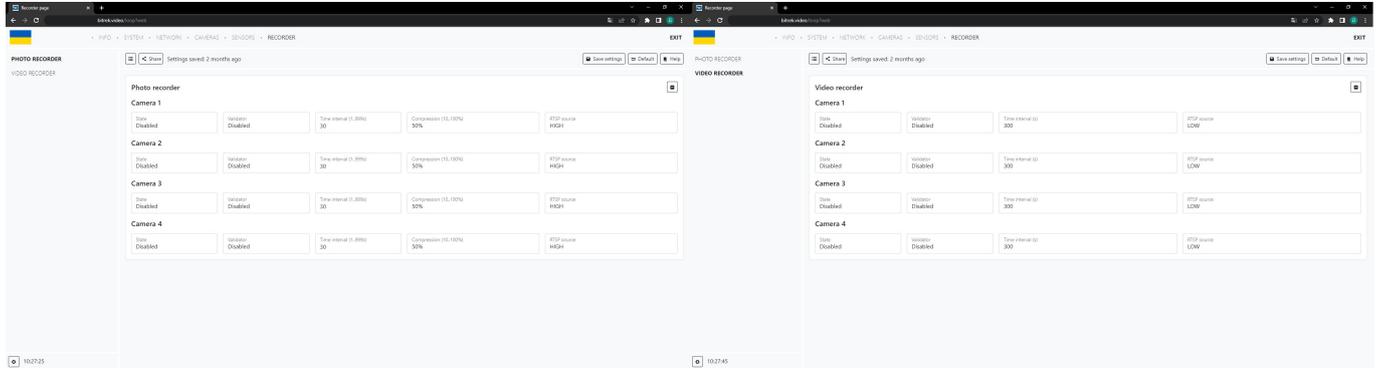
- Add cameras;
- View the list of available cameras;
- View live broadcast using cameras;
- Set up timelapse and video with the event in the center.

SENSORS



The section allows you to work with sensors, namely to add, edit and work with different types of sensors

RECORDER

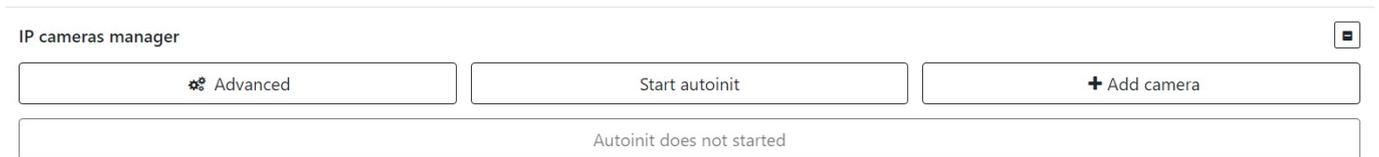


The section allows you to configure the device for photo and video registration

Camera settings

First you need to make sure that the camera is in good condition and connected to the device. If you have a **Dahua** camera, click the **“Start Auto Init”** button.

Note: Autoinit works **only with Bitrek-Dahua cameras**.



In most cases, autoinit will detect and add the camera for you, however, if this does not happen, you can try to add it manually by clicking the **“Add”** or **“Advanced”** button and specifying the desired parameters.

IP camera advanced adding



Leave the field empty for the default value

Warning: Adding a camera in place of an existing one will overwrite its settings!

Camera number
1

Power state
ON

Sound state
OFF

Name
IP camera 1

IP
192.168.1.10

Gateway
192.168.1.20

Max current, mA
600

Manufacturer
DAHUA

Username
admin

Password
admin1234

Communication protocol
TCP

HIGH link
rtsp://admin:admin1234@192.168.1.10:554/cam/realmonitor?c

LOW link
rtsp://admin:admin1234@192.168.1.10:554/cam/realmonitor?c

HIGH snap link
http://admin:admin1234@192.168.1.10/onvifsnapshot/media_:

LOW snap link
http://admin:admin1234@192.168.1.10/onvifsnapshot/media_:

Discard Save

IMPORTANT! Do not forget to **save settings** by clicking the appropriate button.

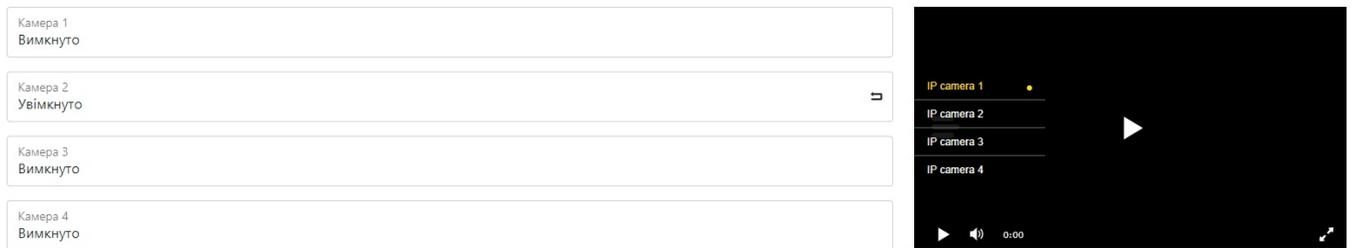
Note: If after the performed operations the camera is not added try:

- Check the cable for serviceability;
- Check the connection (if the camera is connected, the diode at the connection point will blink green rapidly);
- Check the camera for proper operation

Live streaming settings

After connecting and configuring the camera, you can also set up a live broadcast. To do this, go to the appropriate tab, in the broadcast configuration section, enable the desired camera, and in the player, click on the menu on the side and select the desired camera to view the broadcast.

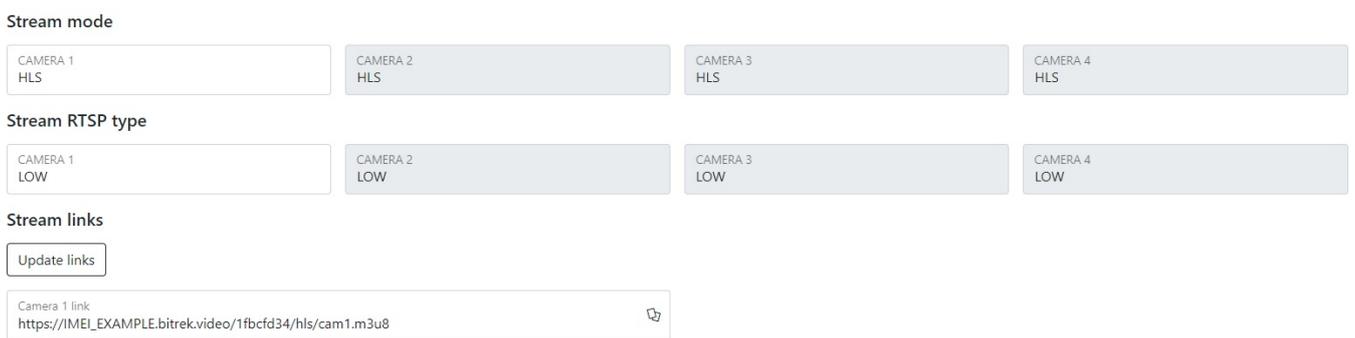
Конфігурація трансляції



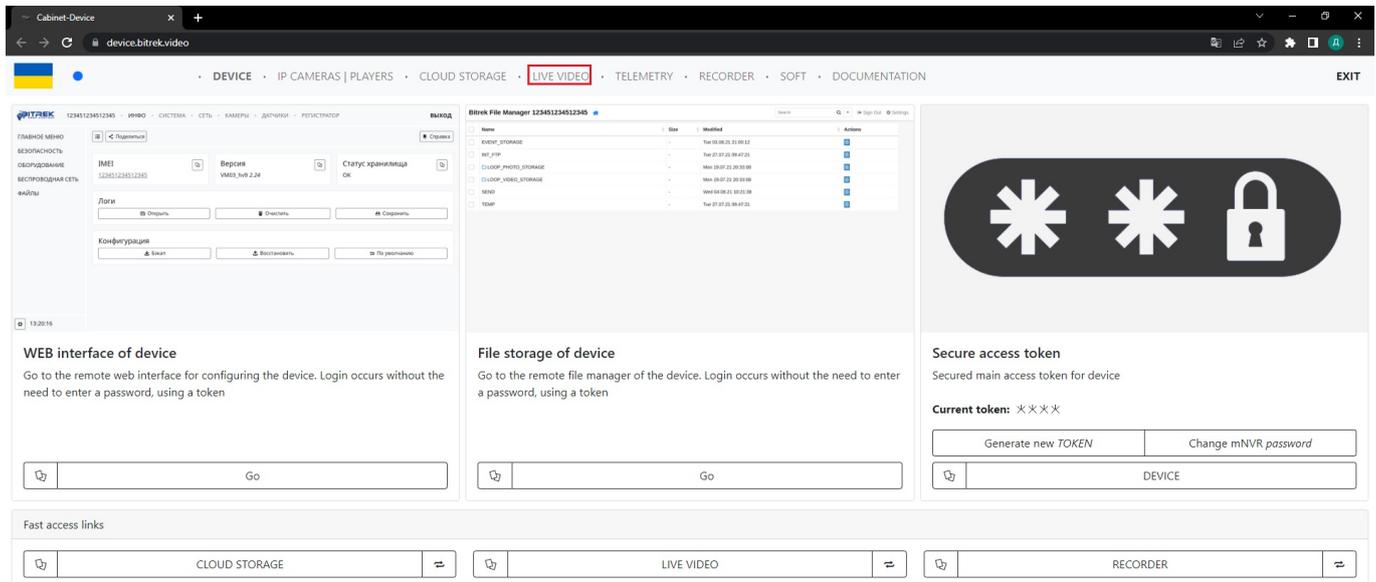
IMPORTANT! Do not forget to **save the settings** by clicking the corresponding button.

Note: You can also configure the streaming mode by selecting the type of stream (DASH, HLS) and the display quality (1 stream - better quality, 2 stream - worse quality) when using the free Bitrek VPN in the standard version uses 2 stream. To use 1 stream, please contact your service provider.

Advanced configuration



Note: After setting up the stream, you can also view the live stream in the control panel in the **“STREAM VIDEO “** section

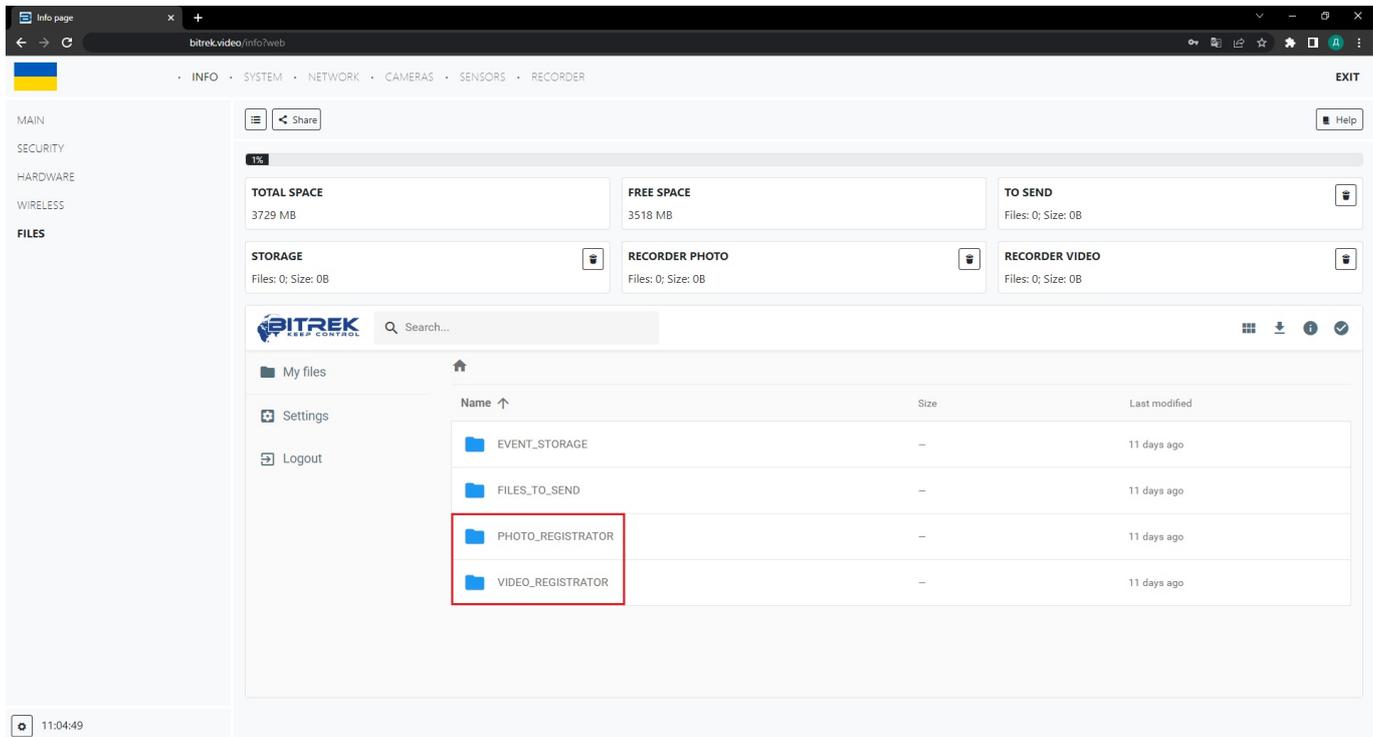


Setting up the recorder

After setting up the camera and sensors, you can also set up the photo and video recorder. To do this, you need to:

1. Go to the appropriate tab;
2. Turn on the required camera;
3. Select the sensor validator;
4. Set the shooting interval;
5. Degree of compression (the higher the percentage, the better the quality);
6. RTSP source (1 stream - higher quality, 2 stream - worse quality).

Note: Multimedia will be sent to the ..._REGISTRATOR folder in the INFO/FILES section

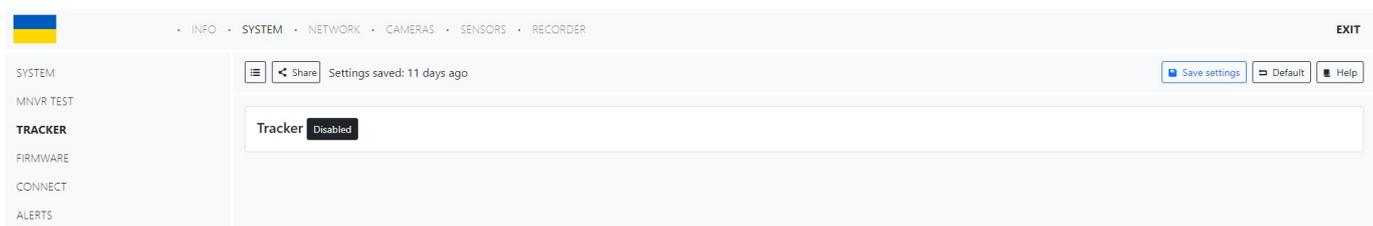


Sensor settings

Tracker settings

To configure the tracker, you need to go to the appropriate tab in the SYSTEM/Tracker section and turn on the tracker by clicking the corresponding button

After that you will need to select the type of GPS antenna, now you can connect or set the GPS as follows:



- GNSS module
- Static coordinates
- CAN GNSS module
- CAN GNSS / internal GNSS

1) For GNSS module you just need to connect it to the device



And in the drop-down list select **GNSS module**, the position determination will be automatic

| Info | | | | |
|------------|------------|------|-------|-------|
| LAT | LOX | MOVE | SPEED | ANGLE |
| 50.419895N | 30.428045E | STOP | 0 | 0 |
| DATA | TIME | HDOP | SATS | ALT |
| 07-11-22 | 09:11:36 | 1.2 | 07 | 183 |

Current GPS information's

Tracker Enabled

Tracker state: GPS OK Server state: LOGIN ERROR Data source: NVR

GPS antenna input
GNSS module

GNSS module

Static coordinates
CAN GNSS module only
CAN GNSS/internal GNSS

2) For static coordinates, select **Static coordinates** in the drop-down list and enter the coordinates manually

Tracker Enabled

Tracker state: GPS OK Server state: LOGIN ERROR Data source: NVR

GPS antenna input
Static coordinates

Static longitude
50.450962

Static latitude
30.522665

3) For CAN GNSS you need to connect the module via CAN, select the device that you connected in the list and specify its address

Tracker Enabled

Tracker state: GPS OK Server state: LOGIN ERROR Data source: NVR

GPS antenna input
CAN GNSS module only

Choose device
No selected

Enter device address (DEC)
1

4) For CAN GNSS / internal GNSS, the situation is the same as in step 3

After successful configuration of the module in the **Info** tab you can see the current GPS information about your location

When configuring the GPS module, you can also configure the following options for it:

- Sending photos via IPS
- Sending links via IPS
- Pre-configure video link
- Link to video
- QR code recognition

Tracker Enabled

Tracker state: GPS OK Server state: LOGIN ERROR Data source: NVR

GPS antenna input
GNSS module

Send photo by IPS
Disabled

Send link by IPS
Enabled

Video path web link
https://ftp.bitrek.video/ftp/IMEI_example/folder_example/file_example.jpg

Video path preset
No selected

Live player

QR recognition
Disabled

We recommend using the default format that is installed in the standard firmware (photo above)

Send photos via IPS - enable/disable the function of sending files to your IPS server **Send links via IPS** - enable/disable the function of sending files to your IPS server using a link

Note: We recommend sending only links, because separately photos are also sent to FTP, as a result of which they are duplicated, to avoid this, free up memory and not load the device unnecessarily, we recommend leaving these options **by default**.

Presetting the link to the video - if you have paid for FTP access, you can select the server to which you can go by specifying the link to the video in the appropriate field (you need to specify the server address, device ID, file package and its name, for example:

https://ftp.bitrek.video/ftp/IMEI/IMEI/file_example.jpg

Recognition of QR codes - we recommend leaving this option disabled if you do not use it

Setting up point creation

You can configure the creation of points for the track of your vehicle using parameters such as:

- Time
- Distance
- Angle
- Speed

Time - The point will be constantly created after the period of time that you set in the field “**In time, s**”

Distance - The point will be created after the vehicle has passed the distance that was specified in the “**By distance, m**” field

Angle - The point will be created after the vehicle turns the angle that was specified in the “**By angle, deg**” field

Speed - The minimum speed value at which the construction of points will start, if the value is less than the specified one, the device will switch to the parking mode

Setting the sensitivity of the motion sensor

You can configure the sensitivity of motion, which depends on the position of the device, for example, if the device will shake a lot - it is recommended to set a low sensitivity, if it will be almost motionless, then vice versa high

Stop timeout - the time at which the vehicle can stand and the track of points is not reset (for example, when the vehicle is at a traffic light)

Point creation settings

| | |
|-------------------------------------|-----------------------------|
| By time state Enabled | By time value, s 30 |
| By distance state Enabled | By distance value, m 500 |
| By angle state Enabled | By angle value, deg 5 |
| Min speed, km/h 5 | |
| Accelerometer settings | |
| Accelerometer sensitivity Middle | Axel stop timeout, s 180 |

Configuring the IPS server

You can configure the IPS server to send telemetry to services such as Wialon and others.

To do this, enter the new server in the field:

1. IP address
2. Port
3. ID
4. Password
5. Timeout

If you also have a backup server, you need to enable it in the corresponding menu and specify the address and port. If there is no connection with the main server for more than you set in the *Timeout* field, the data will be sent to the backup server

Note: Do not forget to **save settings** by clicking the appropriate button!

LAN settings

To connect the device to a LAN network, you must first connect the device via LAN cable from the router



Then go to the **NETWORK/LAN** tab where you can select the network type:

1. Automatic(DHCP)
2. Or set it manually (static) by entering the IP address of the device, subnet mask, gateway, and internal DHCP state (turn off if you connect a router that has its own DHCP server)

LAN configuration

| | |
|----------------------------|--------------------------------|
| Network type Static | |
| IP address 192.168.1.20 | Network mask 255.255.255.0 |
| Gateway | Internal DHCP state Enabled |

Scan LAN

| IP | MAC |
|---|------|
| No device was found in the LAN! | |
| Scanned on: 2022-08-26 15:29:37.602789887 +0200 | |
| Clear report | Scan |

Storage settings (FTP)

You can save space on your device by sending data to the server. To do this, go to the NETWORK/FTP section and enable the required server from the list. There are three types in total:

1. **FTP event server** for sending files that will be sent to your device if some event occurs (for example, if your sensor is configured for it);

Event FTP server

| | | |
|--------------------------------|---------------------------------|------------|
| Address ftp.bitrek.video111 | | Port 21 |
| Username IMEI_example | Password ***** | |
| Folder folder_example | Pattern %d-%m-%Y | |
| Send interface GSM and Wifi | Use 2G to send files Enabled | |

Send priority

| | | |
|---------------------------------|----------------------|--------------|
| By content type Photos first | By time New first | Threads 3 |
|---------------------------------|----------------------|--------------|

2. **FTP server for the photo recorder** to send photos that will be captured by your *pre-configured photo recorder*;

Photo recorder FTP server

| | | |
|--------------------------------|---------------------------------|------------|
| Address ftp.bitrek.video222 | | Port 21 |
| Username IMEI_example | Password ***** | |
| Folder folder_example | Pattern %d-%m-%Y-PHOTO | |
| Send interface GSM and Wifi | Use 2G to send files Enabled | |

Send priority

| | |
|----------------------|--------------|
| By time Old first | Threads 3 |
|----------------------|--------------|

3. **FTP server for video recorder** to send videos that will be recorded by your *pre-configured video recorder*.

Video recorder FTP server Enabled ▢

| | |
|--------------------------------|---------------------------------|
| Address ftp.bitrek.video333 | Port 21 |
| Username IMEI_example | Password |
| Folder folder_example | Pattern %d-%m-%Y-VIDEO |
| Send interface Only WiFi | Use 2G to send files Enabled |

Send priority

| | |
|----------------------|--------------|
| By time Old first | Threads 3 |
|----------------------|--------------|

You can adjust your server settings using the appropriate parameters:

- Setting *address* and specifying *port* to which your media data will be sent;
- Create *folder* to which files will be sent;
- Select the *network type* in which the data will be sent (via Wi-Fi, if you want to save SIM card traffic or you do not have it installed, or GSM data (if a SIM card is installed));
- If a SIM card is installed, you can also *enable the use of 2G* for sending files, this will ensure sending files in places with poor connection, while the download speed will be slower and the time will be shorter. Please take this into account when setting up the server;
- Set the priority of sending files by time (older files first or vice versa).

Please note: the speed of data download depends on the quality of the network in which the device is located, the worse the signal quality, the more time it will take to send files. Please take this into account when setting up the server.

Note: Do not forget to **save settings** by clicking the appropriate button.

GSM network settings

There are several GSM settings on the device:

- GSM/LTE traffic;

GSM/LTE traffic ▢

Traffic limits

| | | |
|-------------------|-----------------|-------------------|
| Limit Disabled | Daily (MB) 0 | Monthly (MB) 0 |
|-------------------|-----------------|-------------------|

| | |
|-------------------------|-------------------------|
| Daily Monthly | 0.00 MB 0.00 MB |
| Uploading to FTP | Disabled |
| Log | Traffic |

- GSM/LTE configuration;

GSM/LTE configuration



| | |
|-----------------------------------|----------------------------|
| Default SIM holder Top (metal) | |
| APN www.kyivstar.net | Dialing number *99***1# |
| Wireless network mode AUTO | |

- SMS/USSD configuration.

SMS/USSD configuration



| | |
|---|----------------------|
| SMS control numbers +380123456789 | |
| <small>Use ; to separate field data</small> | |
| Send custom SMS | |
| Number +380971234567 | Custom SMS text |
| <input type="button" value="Send"/> | |
| Send USSD | |
| USSD code *111# | Answer from operator |
| <input type="button" value="Send"/> | |

GSM/LTE traffic settings

You can configure the traffic limit on the device to save it, for this you need to go to the NETWORK/GSM tab, enable the limit using the corresponding button and set a limit for the use of traffic by the device per day or per month.

The example shows a traffic limit of no more than 2GB per day and 65GB per month

GSM/LTE traffic



Traffic limits

| | | |
|-------------------------|-------------------------|-----------------------|
| Limit Enabled | Daily (MB) 2000 | Monthly (MB) 65000 |
| Daily Monthly | 0.00 MB 0.00 MB | |
| Uploading to FTP | Disabled | |
| Log | Traffic | |

Note: do not forget to **save settings** by clicking the appropriate button.

GSM/LTE configuration

You can configure:

- SIM card position on the device top or bottom(depending on how you installed the SIM card)
- APN (by default www.kyivstar.net)
- Dialing number
- Network mode in which the device will work (by default, the network mode is set automatically, but you can set this parameter manually)

SMS/USSD configuration

The device allows you to configure sending SMS by the user for example to receive the number from which the SMS is sent. And send USSD codes for example *111# to check the account on the SIM card.

SMS/USDD configuration

SMS control numbers
+380123456789

Use ; to separate field data

Send custom SMS

Number +380971234567
+380123456789

Custom SMS text
test

Send

Send USSD

USSD code *111#
*111#

Answer from operator
"Na rahunku 2235.41 gm."

Send

View logs

mNVR provides the ability to view logs on the device to diagnose problems. To do this, go to the tab "INFO/LOGS/OPEN"

INFO · SYSTEM · NETWORK · CAMERAS · SENSORS · RECORDER

EXIT

MAIN

SECURITY

HARDWARE

WIRELESS

FILES

IMEI

Version
VM03_hv9 2.40

Drive status
ERROR

Logs

Open Clear Save

Configuration

Backup Restore Default

In the window that opens, you need to select the desired section and click on it

Logs

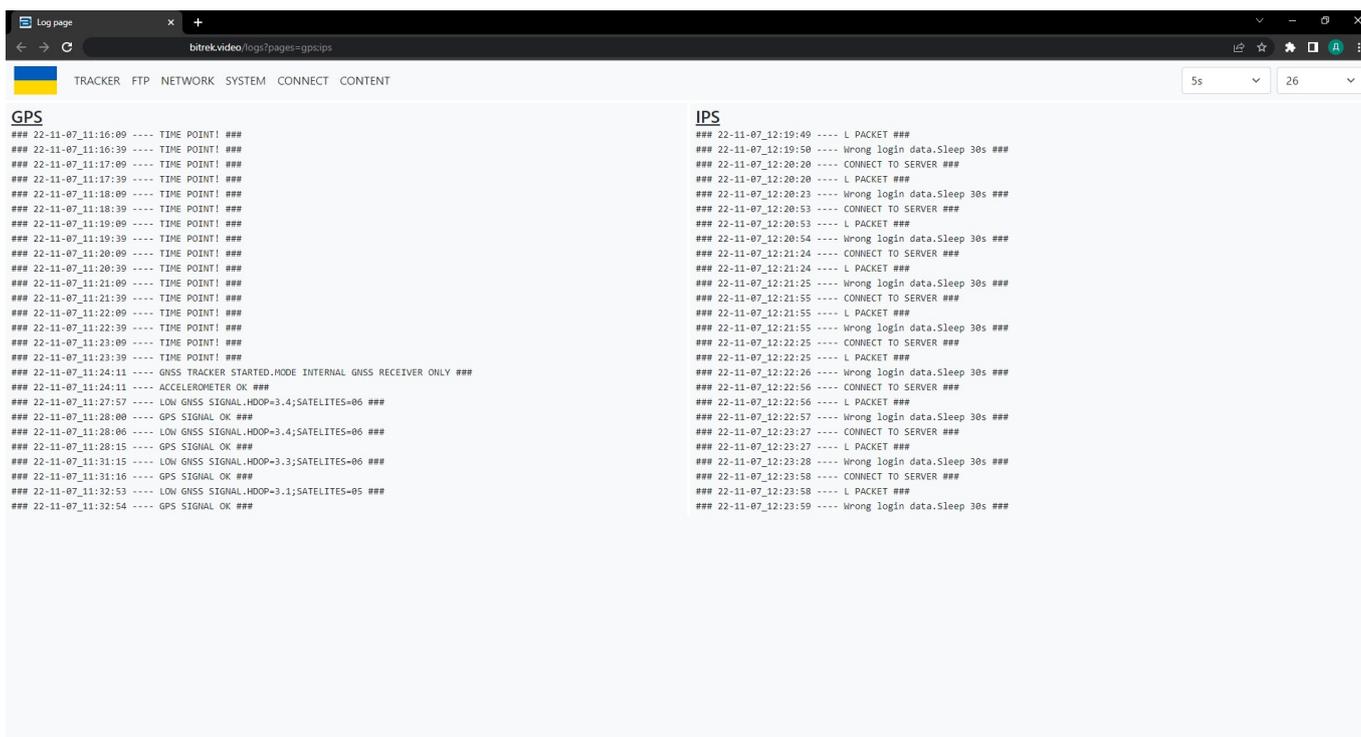


-  TRACKER
-  FTP
-  NETWORK
-  SYSTEM
-  CONNECT
-  CONTENT

TRACKER

The **GPS** section contains information about your GPS tracker

The **IPS** section contains information about the status of your IPS server



FTP

In section **FTP** information about the status of connection to the FTP server

In the **INT FTP** section, information about the status of your internal storage (SD card, SSD drive, etc.)

Log page bitrek.video/logs?pages=ftp

TRACKER FTP NETWORK SYSTEM CONNECT CONTENT

5s 26

FTP

```
*EVENT FILES>#06-11-2022 11:10:36#-CONNECTION TO SERVER ftp.bitrek.video OK*
*EVENT FILES>#06-11-2022 19:28:00#-NO CONNECTION TO SERVER ftp.bitrek.video*
*EVENT FILES>#06-11-2022 19:29:00#-NO CONNECTION TO SERVER ftp.bitrek.video*
*EVENT FILES>#06-11-2022 20:30:09#-CONNECTION TO SERVER ftp.bitrek.video OK*
*EVENT FILES>#07-11-2022 02:02:51#-NO CONNECTION TO SERVER ftp.bitrek.video*
*EVENT FILES>#07-11-2022 02:03:51#-NO CONNECTION TO SERVER ftp.bitrek.video*
*EVENT FILES>#07-11-2022 02:04:51#-NO CONNECTION TO SERVER ftp.bitrek.video*
*EVENT FILES>#07-11-2022 02:05:51#-NO CONNECTION TO SERVER ftp.bitrek.video*
*EVENT FILES>#07-11-2022 02:06:52#-CONNECTION TO SERVER ftp.bitrek.video OK*
*EVENT FILES>#07-11-2022 07:30:45#-NO CONNECTION TO SERVER ftp.bitrek.video*
*EVENT FILES>#07-11-2022 07:31:45#-NO CONNECTION TO SERVER ftp.bitrek.video*
*EVENT FILES>#07-11-2022 07:33:02#-NO CONNECTION TO SERVER ftp.bitrek.video*
*EVENT FILES>#07-11-2022 08:34:04#-CONNECTION TO SERVER ftp.bitrek.video OK*
*EVENT FILES>#07-11-2022 11:24:59#-NO CONNECTION TO SERVER ftp.bitrek.video111*
*LOOP PHOTO>#07-11-2022 11:24:59#-NO CONNECTION TO SERVER ftp.bitrek.video222*
*LOOP VIDEO>#07-11-2022 11:24:59#-NO CONNECTION TO SERVER ftp.bitrek.video333*
*EVENT FILES>#07-11-2022 11:25:59#-NO CONNECTION TO SERVER ftp.bitrek.video111*
*LOOP PHOTO>#07-11-2022 11:25:59#-NO CONNECTION TO SERVER ftp.bitrek.video222*
*LOOP VIDEO>#07-11-2022 11:25:59#-NO CONNECTION TO SERVER ftp.bitrek.video333*
*LOOP PHOTO>#07-11-2022 11:26:15#-NO CONNECTION TO SERVER ftp.bitrek.video222*
*LOOP VIDEO>#07-11-2022 11:26:15#-NO CONNECTION TO SERVER ftp.bitrek.video333*
*LOOP PHOTO>#07-11-2022 11:27:15#-NO CONNECTION TO SERVER ftp.bitrek.video222*
*LOOP VIDEO>#07-11-2022 11:27:15#-NO CONNECTION TO SERVER ftp.bitrek.video333*
*LOOP PHOTO>#07-11-2022 11:27:43#-NO CONNECTION TO SERVER ftp.bitrek.video333*
*LOOP VIDEO>#07-11-2022 11:28:43#-NO CONNECTION TO SERVER ftp.bitrek.video333*
*EVENT FILES>#07-11-2022 11:29:06#-CONNECTION TO SERVER ftp.bitrek.video OK*
```

INT FTP

NETWORK

In section **NETWORK** information about the status of devices that can be connected: cameras, etc.

In the **MODEM** section you can see the status of your modem, such as the status of connection to Wi-Fi, LAN network, or SIM card status

In the **OPEN VPN** section you can see the status of your VPN server

Log page bitrek.video/logs?pages=networkmodem:openvpn

TRACKER FTP NETWORK SYSTEM CONNECT CONTENT

5s 26

NETWORK

```
*PORT_FORWARD>#04-11-2022 09:52:37#-SET PORT FORWARDING*
*STREAM>#04-11-2022 08:55:19#-ACTIVE HLS: NO CAMS;DISABLED HLS: NO CAMS;ACTIVE
*PORT_FORWARD>#04-11-2022 19:03:03#-SET PORT FORWARDING*
*STREAM>#04-11-2022 18:05:42#-ACTIVE HLS: NO CAMS;DISABLED HLS: NO CAMS;ACTIVE
*PORT_FORWARD>#01-09-2022 14:36:57#-SET PORT FORWARDING*
*STREAM>#05-11-2022 18:29:36#-ACTIVE HLS: NO CAMS;DISABLED HLS: NO CAMS;ACTIVE
*PORT_FORWARD>#01-09-2022 14:36:57#-SET PORT FORWARDING*
*STREAM>#05-11-2022 22:38:53#-ACTIVE HLS: NO CAMS;DISABLED HLS: NO CAMS;ACTIVE
*PORT_FORWARD>#06-11-2022 03:02:18#-SET PORT FORWARDING*
*STREAM>#06-11-2022 02:07:01#-ACTIVE HLS: NO CAMS;DISABLED HLS: NO CAMS;ACTIVE
*PORT_FORWARD>#01-09-2022 14:36:58#-SET PORT FORWARDING*
*STREAM>#06-11-2022 10:00:55#-ACTIVE HLS: NO CAMS;DISABLED HLS: NO CAMS;ACTIVE
*PORT_FORWARD>#01-09-2022 14:36:58#-SET PORT FORWARDING*
*STREAM>#06-11-2022 19:30:36#-ACTIVE HLS: NO CAMS;DISABLED HLS: NO CAMS;ACTIVE
*PORT_FORWARD>#07-11-2022 03:02:18#-SET PORT FORWARDING*
*STREAM>#07-11-2022 02:07:00#-ACTIVE HLS: NO CAMS;DISABLED HLS: NO CAMS;ACTIVE
*PORT_FORWARD>#01-09-2022 14:36:57#-SET PORT FORWARDING*
*STREAM>#07-11-2022 07:33:22#-ACTIVE HLS: NO CAMS;DISABLED HLS: NO CAMS;ACTIVE
*PORT_FORWARD>#07-11-2022 10:47:19#-SET PORT FORWARDING*
*STREAM>#07-11-2022 10:47:28#-ACTIVE HLS: NO CAMS;DISABLED HLS: NO CAMS;ACTIVE
*PORT_FORWARD>#07-11-2022 10:52:47#-SET PORT FORWARDING*
*PORT_FORWARD>#07-11-2022 10:52:50#-CAM1 PORT FORWARDING OK*
*STREAM>#07-11-2022 10:53:01#-CAMERA 1 STREAMING ERROR:0*
*STREAM>#07-11-2022 10:53:01#-CAMERA 1 STREAMING ERROR:0*
*STREAM>#07-11-2022 10:53:03#-ACTIVE HLS: CAM1;DISABLED HLS: NO CAMS;ACTIVE DA
*STREAM>#07-11-2022 10:56:42#-ACTIVE HLS: CAM1;DISABLED HLS: NO CAMS;ACTIVE DA
```

MODEM

```
*NETWORK>#07-11-2022 10:28:54#-AT NO ANSWER*
*NETWORK>#07-11-2022 10:28:54#-GPS INIT ERROR_RESTART IT*
*NETWORK>#07-11-2022 10:29:26#-CLEAR ALL WIFI CONNECTIONS*
*NETWORK>#07-11-2022 10:29:28#-SOFT DISABLE WIFI MODULE*
*NETWORK>#07-11-2022 10:29:33#-POWER OFF WIFI MODULE*
*NETWORK>#07-11-2022 10:29:43#-POWER ON WIFI MODULE*
*NETWORK>#07-11-2022 10:30:05#-WIFI MODE CLIENT: [{"kurkudush", "192168120"}, {"
*NETWORK>#07-11-2022 10:30:19#-CONNECTED TO WIFI SSID kurkudush*
*NETWORK>#07-11-2022 10:30:38#-REINIT GPS MODULE*
*NETWORK>#07-11-2022 10:30:40#-CHECK GPS DATA*
*NETWORK>#07-11-2022 10:30:41#-GPS OK*
*NETWORK>#07-11-2022 10:30:41#-MODEM INIT OK*
*NETWORK>#07-11-2022 10:30:59#-REINIT GPS MODULE*
*NETWORK>#07-11-2022 10:31:01#-CHECK GPS DATA*
*NETWORK>#07-11-2022 10:31:03#-GPS OK*
*NETWORK>#07-11-2022 10:31:03#-MODEM INIT OK*
*NETWORK>#07-11-2022 10:42:21#-NO SIM CARD IN HOLDER 1*
*NETWORK>#07-11-2022 10:55:01#-NO SIM CARD IN HOLDER 1*
*NETWORK>#07-11-2022 11:27:37#-NO SIM CARD IN HOLDER 1*
*NETWORK>#07-11-2022 11:40:16#-NO SIM CARD IN HOLDER 1*
*NETWORK>#07-11-2022 11:52:57#-NO SIM CARD IN HOLDER 1*
*NETWORK>#07-11-2022 12:05:36#-NO SIM CARD IN HOLDER 1*
*NETWORK>#07-11-2022 12:18:15#-NO SIM CARD IN HOLDER 1*
*NETWORK>#07-11-2022 12:30:53#-NO SIM CARD IN HOLDER 1*
*NETWORK>#07-11-2022 12:36:37#-USSD ERROR*
```

OPENVPN

```
*VPN>#03-11-2022 09:28:18#-START SYSTEM VPN*
*VPN>#03-11-2022 09:28:19#-START USER VPN*
*VPN>#03-11-2022 12:18:47#-START SYSTEM VPN*
*VPN>#03-11-2022 12:18:47#-START USER VPN*
*VPN>#04-11-2022 02:04:36#-START SYSTEM VPN*
*VPN>#04-11-2022 02:04:36#-START USER VPN*
*VPN>#04-11-2022 08:29:47#-START SYSTEM VPN*
*VPN>#04-11-2022 08:29:47#-START USER VPN*
*VPN>#04-11-2022 08:54:53#-START SYSTEM VPN*
*VPN>#04-11-2022 08:54:53#-START USER VPN*
*VPN>#04-11-2022 10:05:15#-START SYSTEM VPN*
*VPN>#04-11-2022 10:05:15#-START USER VPN*
*VPN>#05-11-2022 18:28:21#-START SYSTEM VPN*
*VPN>#05-11-2022 18:28:21#-START USER VPN*
*VPN>#05-11-2022 22:38:01#-START SYSTEM VPN*
*VPN>#05-11-2022 22:38:01#-START USER VPN*
*VPN>#06-11-2022 02:05:18#-START SYSTEM VPN*
*VPN>#06-11-2022 02:05:18#-START USER VPN*
*VPN>#06-11-2022 10:09:03#-START SYSTEM VPN*
*VPN>#06-11-2022 10:09:03#-START USER VPN*
*VPN>#06-11-2022 19:29:47#-START SYSTEM VPN*
*VPN>#06-11-2022 19:29:47#-START USER VPN*
*VPN>#07-11-2022 02:05:18#-START SYSTEM VPN*
*VPN>#07-11-2022 02:05:19#-START USER VPN*
*VPN>#07-11-2022 08:33:11#-START SYSTEM VPN*
*VPN>#07-11-2022 08:33:11#-START USER VPN*
```

SYSTEM

The **STARTUP** section shows the success status of the system boot, file system check, etc.

Section **SETTINGS** checks all functions of your device (WIFI, VPN, VPN, GSM, tracker, cameras, etc.)

SCRIPT ERRORS errors that may occur when setting up the device

The screenshot shows a web browser window with the URL `bitrek.video/logs/?pages=network:modem:openvpn`. The browser interface includes a navigation bar with tabs for TRACKER, FTP, NETWORK, SYSTEM, CONNECT, and CONTENT. The main content area is divided into three columns: NETWORK, MODEM, and OPENVPN. Each column contains a list of log entries with timestamps and status messages. For example, the NETWORK section shows messages like `*<PORT_FORWARD>-#04-11-2022 09:52:37#-SET PORT FORWARDING*` and `*<STREAM>-#04-11-2022 08:55:19#-ACTIVE HLS: NO CAMS;DISABLED HLS: NO CAMS;ACTIVE*`. The MODEM section shows messages like `*<NETWORK>-#07-11-2022 10:28:54#-AT NO ANSWER*` and `*<NETWORK>-#07-11-2022 10:29:20#-CLEAR ALL WIFI CONNECTIONS*`. The OPENVPN section shows messages like `*<VPN>-#03-11-2022 09:28:18#-START SYSTEM VPN*` and `*<VPN>-#03-11-2022 12:18:47#-START USER VPN*`. The browser interface also shows a search bar with '5s' and a page number '26'.

CONNECT

The **MAIN** section checks the health of the main CONNECT system script

Section **UART** checks the health of devices and cameras connected via UART

BAM FLASH shows the progress of the tracker firmware using BAM

Log page bitrek.video/logs?pages=mainuart:bam_flash

TRACKER FTP NETWORK SYSTEM CONNECT CONTENT

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| MAIN | UART | BAM FLASH |
|---|---|-----------|
| *<CONTENT>-#03-11-2022 12:49:19#-START MAIN SCRIPT* | *<CONNECT>-#04-11-2022 04:17:07#-{'TIME_START': 1667528225.443852, 'TIME_CV': 0.6 | |
| *<CONTENT>-#03-11-2022 12:49:46#-START MAIN SCRIPT* | *<CONNECT>-#04-11-2022 08:53:20#-IP CAMS STATE: CAM1-OFF;CAM2-OFF;CAM3-OFF;CAM4-C | |
| *<CONTENT>-#03-11-2022 12:50:14#-START MAIN SCRIPT* | *<CONNECT>-#04-11-2022 18:03:40#-IP CAMS STATE: CAM1-OFF;CAM2-OFF;CAM3-OFF;CAM4-C | |
| *<CONTENT>-#03-11-2022 12:51:46#-START MAIN SCRIPT* | *<CONNECT>-#05-11-2022 18:26:47#-IP CAMS STATE: CAM1-OFF;CAM2-OFF;CAM3-OFF;CAM4-C | |
| *<CONTENT>-#03-11-2022 12:52:01#-START MAIN SCRIPT* | *<CONNECT>-#05-11-2022 22:36:27#-IP CAMS STATE: CAM1-OFF;CAM2-OFF;CAM3-OFF;CAM4-C | |
| *<CONTENT>-#03-11-2022 12:52:16#-START MAIN SCRIPT* | *<CONNECT>-#06-11-2022 02:03:00#-IP CAMS STATE: CAM1-OFF;CAM2-OFF;CAM3-OFF;CAM4-C | |
| *<CONTENT>-#03-11-2022 12:52:32#-START MAIN SCRIPT* | *<CONNECT>-#06-11-2022 10:07:31#-IP CAMS STATE: CAM1-OFF;CAM2-OFF;CAM3-OFF;CAM4-C | |
| *<CONTENT>-#03-11-2022 12:54:33#-START MAIN SCRIPT* | *<CONNECT>-#06-11-2022 19:28:09#-IP CAMS STATE: CAM1-OFF;CAM2-OFF;CAM3-OFF;CAM4-C | |
| *<CONTENT>-#03-11-2022 12:54:55#-START MAIN SCRIPT* | *<CONNECT>-#07-11-2022 02:02:59#-IP CAMS STATE: CAM1-OFF;CAM2-OFF;CAM3-OFF;CAM4-C | |
| *<CONTENT>-#03-11-2022 12:55:46#-START MAIN SCRIPT* | *<CONNECT>-#07-11-2022 07:30:54#-IP CAMS STATE: CAM1-OFF;CAM2-OFF;CAM3-OFF;CAM4-C | |
| *<CONTENT>-#03-11-2022 12:56:09#-START MAIN SCRIPT* | *<CONNECT>-#07-11-2022 10:47:28#-IP CAMS STATE: CAM1-OFF;CAM2-OFF;CAM3-OFF;CAM4-C | |
| *<CONTENT>-#03-11-2022 12:56:38#-START MAIN SCRIPT* | *<CONNECT>-#07-11-2022 10:47:35#-CAM1 ON* | |
| *<CONTENT>-#03-11-2022 12:56:52#-START MAIN SCRIPT* | *<CONNECT>-#07-11-2022 10:47:36#-CAM 2, 3, 4 OFF* | |
| *<CONTENT>-#03-11-2022 12:57:12#-START MAIN SCRIPT* | *<CONNECT>-#07-11-2022 10:48:42#-CAM2 ON* | |
| *<CONTENT>-#03-11-2022 12:57:27#-START MAIN SCRIPT* | *<CONNECT>-#07-11-2022 10:48:43#-CAM 1, 3, 4 OFF* | |
| *<CONTENT>-#03-11-2022 12:57:58#-START MAIN SCRIPT* | *<CONNECT>-#07-11-2022 10:50:04#-CAM3 ON* | |
| *<CONTENT>-#04-11-2022 02:02:52#-START MAIN SCRIPT* | *<CONNECT>-#07-11-2022 10:50:05#-CAM 1, 2, 4 OFF* | |
| *<CONTENT>-#04-11-2022 08:53:11#-START MAIN SCRIPT* | *<CONNECT>-#07-11-2022 10:51:26#-CAM4 ON* | |
| *<CONTENT>-#04-11-2022 18:03:32#-START MAIN SCRIPT* | *<CONNECT>-#07-11-2022 10:51:27#-CAM 1, 2, 3 OFF* | |
| *<CONTENT>-#05-11-2022 18:26:38#-START MAIN SCRIPT* | *<CONNECT>-#07-11-2022 10:52:47#-CAM1 ON* | |
| *<CONTENT>-#05-11-2022 22:36:18#-START MAIN SCRIPT* | *<CONNECT>-#07-11-2022 10:53:01#-IP CAMS STATE: CAM1-ON;CAM2-OFF;CAM3-OFF;CAM4-O | |
| *<CONTENT>-#06-11-2022 02:02:51#-START MAIN SCRIPT* | *<CONNECT>-#07-11-2022 10:53:01#-CAM2 OFF* | |
| *<CONTENT>-#06-11-2022 10:07:22#-START MAIN SCRIPT* | *<CONNECT>-#07-11-2022 10:53:03#-{'TIME_START': 166781181.5840366, 'TIME_CV': 14 | |
| *<CONTENT>-#06-11-2022 19:28:00#-START MAIN SCRIPT* | *<CONNECT>-#07-11-2022 10:53:03#-CAM3 OFF* | |
| *<CONTENT>-#07-11-2022 02:02:51#-START MAIN SCRIPT* | *<CONNECT>-#07-11-2022 10:53:04#-CAM4 OFF* | |
| *<CONTENT>-#07-11-2022 07:30:45#-START MAIN SCRIPT* | *<CONNECT>-#07-11-2022 11:24:16#-IP CAMS STATE: CAM1-ON;CAM2-OFF;CAM3-OFF;CAM4-O | |

CONTENT

Section **CYCLE** shows the progress of camera recording in loop mode

Section **TIMELAPSE** shows the progress of recording cameras in time-lapse mode

Log page bitrek.video/logs?pages=cycle:timelapse

TRACKER FTP NETWORK SYSTEM CONNECT CONTENT

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| CYCLE | TIMELAPSE |
|--|--|
| *<LOOP_START>-#03-11-2022 12:57:40#-ACTIVE VIDEO: NO CAMS;DISABLED VIDEO: CAM1 CAM2 CAM3 CAM4;ACTIVE PHOTO: NO CAMS;DISABL | *<TL_START>-#03-11-2022 12:50:11#-ACTIVE ECV:;DISABLED ECV: CAM1 CAM2 CAM3 CAM4;ACTIVE TL:;DISABLED TL: CAM1 CAM2 CAM3 CAM |
| *<LOOP_START>-#03-11-2022 12:58:13#-ACTIVE VIDEO: NO CAMS;DISABLED VIDEO: CAM1 CAM2 CAM3 CAM4;ACTIVE PHOTO: NO CAMS;DISABL | *<TL_START>-#03-11-2022 12:51:42#-ACTIVE ECV:;DISABLED ECV: CAM1 CAM2 CAM3 CAM4;ACTIVE TL:;DISABLED TL: CAM1 CAM2 CAM3 CAM |
| *<LOOP_START>-#03-11-2022 12:58:24#-ACTIVE VIDEO: NO CAMS;DISABLED VIDEO: CAM1 CAM2 CAM3 CAM4;ACTIVE PHOTO: NO CAMS;DISABL | *<TL_START>-#03-11-2022 12:51:57#-ACTIVE ECV:;DISABLED ECV: CAM1 CAM2 CAM3 CAM4;ACTIVE TL:;DISABLED TL: CAM1 CAM2 CAM3 CAM |
| *<LOOP_START>-#04-11-2022 02:03:38#-ACTIVE VIDEO: NO CAMS;DISABLED VIDEO: CAM1 CAM2 CAM3 CAM4;ACTIVE PHOTO: NO CAMS;DISABL | *<TL_START>-#03-11-2022 12:52:13#-ACTIVE ECV:;DISABLED ECV: CAM1 CAM2 CAM3 CAM4;ACTIVE TL:;DISABLED TL: CAM1 CAM2 CAM3 CAM |
| *<LOOP_START>-#04-11-2022 02:03:11#-ACTIVE VIDEO: NO CAMS;DISABLED VIDEO: CAM1 CAM2 CAM3 CAM4;ACTIVE PHOTO: NO CAMS;DISABL | *<TL_START>-#03-11-2022 12:52:28#-ACTIVE ECV:;DISABLED ECV: CAM1 CAM2 CAM3 CAM4;ACTIVE TL:;DISABLED TL: CAM1 CAM2 CAM3 CAM |
| *<LOOP_START>-#04-11-2022 08:52:57#-ACTIVE VIDEO: NO CAMS;DISABLED VIDEO: CAM1 CAM2 CAM3 CAM4;ACTIVE PHOTO: NO CAMS;DISABL | *<TL_START>-#03-11-2022 12:54:30#-ACTIVE ECV:;DISABLED ECV: CAM1 CAM2 CAM3 CAM4;ACTIVE TL:;DISABLED TL: CAM1 CAM2 CAM3 CAM |
| *<LOOP_START>-#04-11-2022 08:53:27#-ACTIVE VIDEO: NO CAMS;DISABLED VIDEO: CAM1 CAM2 CAM3 CAM4;ACTIVE PHOTO: NO CAMS;DISABL | *<TL_START>-#03-11-2022 12:54:51#-ACTIVE ECV:;DISABLED ECV: CAM1 CAM2 CAM3 CAM4;ACTIVE TL:;DISABLED TL: CAM1 CAM2 CAM3 CAM |
| *<LOOP_START>-#04-11-2022 18:03:19#-ACTIVE VIDEO: NO CAMS;DISABLED VIDEO: CAM1 CAM2 CAM3 CAM4;ACTIVE PHOTO: NO CAMS;DISABL | *<TL_START>-#03-11-2022 12:55:42#-ACTIVE ECV:;DISABLED ECV: CAM1 CAM2 CAM3 CAM4;ACTIVE TL:;DISABLED TL: CAM1 CAM2 CAM3 CAM |
| *<LOOP_START>-#04-11-2022 18:03:47#-ACTIVE VIDEO: NO CAMS;DISABLED VIDEO: CAM1 CAM2 CAM3 CAM4;ACTIVE PHOTO: NO CAMS;DISABL | *<TL_START>-#03-11-2022 12:56:06#-ACTIVE ECV:;DISABLED ECV: CAM1 CAM2 CAM3 CAM4;ACTIVE TL:;DISABLED TL: CAM1 CAM2 CAM3 CAM |
| *<LOOP_START>-#05-11-2022 18:26:26#-ACTIVE VIDEO: NO CAMS;DISABLED VIDEO: CAM1 CAM2 CAM3 CAM4;ACTIVE PHOTO: NO CAMS;DISABL | *<TL_START>-#03-11-2022 12:56:33#-ACTIVE ECV:;DISABLED ECV: CAM1 CAM2 CAM3 CAM4;ACTIVE TL:;DISABLED TL: CAM1 CAM2 CAM3 CAM |
| *<LOOP_START>-#05-11-2022 22:36:04#-ACTIVE VIDEO: NO CAMS;DISABLED VIDEO: CAM1 CAM2 CAM3 CAM4;ACTIVE PHOTO: NO CAMS;DISABL | *<TL_START>-#03-11-2022 12:56:48#-ACTIVE ECV:;DISABLED ECV: CAM1 CAM2 CAM3 CAM4;ACTIVE TL:;DISABLED TL: CAM1 CAM2 CAM3 CAM |
| *<LOOP_START>-#05-11-2022 22:36:34#-ACTIVE VIDEO: NO CAMS;DISABLED VIDEO: CAM1 CAM2 CAM3 CAM4;ACTIVE PHOTO: NO CAMS;DISABL | *<TL_START>-#03-11-2022 12:57:10#-ACTIVE ECV:;DISABLED ECV: CAM1 CAM2 CAM3 CAM4;ACTIVE TL:;DISABLED TL: CAM1 CAM2 CAM3 CAM |
| *<LOOP_START>-#06-11-2022 02:02:38#-ACTIVE VIDEO: NO CAMS;DISABLED VIDEO: CAM1 CAM2 CAM3 CAM4;ACTIVE PHOTO: NO CAMS;DISABL | *<TL_START>-#03-11-2022 12:57:22#-ACTIVE ECV:;DISABLED ECV: CAM1 CAM2 CAM3 CAM4;ACTIVE TL:;DISABLED TL: CAM1 CAM2 CAM3 CAM |
| *<LOOP_START>-#06-11-2022 02:03:09#-ACTIVE VIDEO: NO CAMS;DISABLED VIDEO: CAM1 CAM2 CAM3 CAM4;ACTIVE PHOTO: NO CAMS;DISABL | *<TL_START>-#03-11-2022 12:57:54#-ACTIVE ECV:;DISABLED ECV: CAM1 CAM2 CAM3 CAM4;ACTIVE TL:;DISABLED TL: CAM1 CAM2 CAM3 CAM |
| *<LOOP_START>-#06-11-2022 02:03:09#-ACTIVE VIDEO: NO CAMS;DISABLED VIDEO: CAM1 CAM2 CAM3 CAM4;ACTIVE PHOTO: NO CAMS;DISABL | *<TL_START>-#04-11-2022 02:02:33#-ACTIVE ECV:;DISABLED ECV: CAM1 CAM2 CAM3 CAM4;ACTIVE TL:;DISABLED TL: CAM1 CAM2 CAM3 CAM |
| *<LOOP_START>-#06-11-2022 10:07:38#-ACTIVE VIDEO: NO CAMS;DISABLED VIDEO: CAM1 CAM2 CAM3 CAM4;ACTIVE PHOTO: NO CAMS;DISABL | *<TL_START>-#04-11-2022 18:03:13#-ACTIVE ECV:;DISABLED ECV: CAM1 CAM2 CAM3 CAM4;ACTIVE TL:;DISABLED TL: CAM1 CAM2 CAM3 CAM |
| *<LOOP_START>-#06-11-2022 19:27:48#-ACTIVE VIDEO: NO CAMS;DISABLED VIDEO: CAM1 CAM2 CAM3 CAM4;ACTIVE PHOTO: NO CAMS;DISABL | *<TL_START>-#05-11-2022 18:26:18#-ACTIVE ECV:;DISABLED ECV: CAM1 CAM2 CAM3 CAM4;ACTIVE TL:;DISABLED TL: CAM1 CAM2 CAM3 CAM |
| *<LOOP_START>-#06-11-2022 19:28:16#-ACTIVE VIDEO: NO CAMS;DISABLED VIDEO: CAM1 CAM2 CAM3 CAM4;ACTIVE PHOTO: NO CAMS;DISABL | *<TL_START>-#05-11-2022 22:35:57#-ACTIVE ECV:;DISABLED ECV: CAM1 CAM2 CAM3 CAM4;ACTIVE TL:;DISABLED TL: CAM1 CAM2 CAM3 CAM |
| *<LOOP_START>-#07-11-2022 02:02:37#-ACTIVE VIDEO: NO CAMS;DISABLED VIDEO: CAM1 CAM2 CAM3 CAM4;ACTIVE PHOTO: NO CAMS;DISABL | *<TL_START>-#06-11-2022 02:02:32#-ACTIVE ECV:;DISABLED ECV: CAM1 CAM2 CAM3 CAM4;ACTIVE TL:;DISABLED TL: CAM1 CAM2 CAM3 CAM |
| *<LOOP_START>-#07-11-2022 02:03:09#-ACTIVE VIDEO: NO CAMS;DISABLED VIDEO: CAM1 CAM2 CAM3 CAM4;ACTIVE PHOTO: NO CAMS;DISABL | *<TL_START>-#06-11-2022 10:07:00#-ACTIVE ECV:;DISABLED ECV: CAM1 CAM2 CAM3 CAM4;ACTIVE TL:;DISABLED TL: CAM1 CAM2 CAM3 CAM |
| *<LOOP_START>-#07-11-2022 07:30:33#-ACTIVE VIDEO: NO CAMS;DISABLED VIDEO: CAM1 CAM2 CAM3 CAM4;ACTIVE PHOTO: NO CAMS;DISABL | *<TL_START>-#06-11-2022 19:27:41#-ACTIVE ECV:;DISABLED ECV: CAM1 CAM2 CAM3 CAM4;ACTIVE TL:;DISABLED TL: CAM1 CAM2 CAM3 CAM |
| *<LOOP_START>-#07-11-2022 07:31:01#-ACTIVE VIDEO: NO CAMS;DISABLED VIDEO: CAM1 CAM2 CAM3 CAM4;ACTIVE PHOTO: NO CAMS;DISABL | *<TL_START>-#07-11-2022 02:02:32#-ACTIVE ECV:;DISABLED ECV: CAM1 CAM2 CAM3 CAM4;ACTIVE TL:;DISABLED TL: CAM1 CAM2 CAM3 CAM |
| *<LOOP_START>-#07-11-2022 10:47:35#-ACTIVE VIDEO: NO CAMS;DISABLED VIDEO: CAM1 CAM2 CAM3 CAM4;ACTIVE PHOTO: NO CAMS;DISABL | *<TL_START>-#07-11-2022 07:30:26#-ACTIVE ECV:;DISABLED ECV: CAM1 CAM2 CAM3 CAM4;ACTIVE TL:;DISABLED TL: CAM1 CAM2 CAM3 CAM |
| *<LOOP_START>-#07-11-2022 10:53:11#-ACTIVE VIDEO: NO CAMS;DISABLED VIDEO: CAM1 CAM2 CAM3 CAM4;ACTIVE PHOTO: NO CAMS;DISABL | *<TL_START>-#07-11-2022 10:47:26#-ACTIVE ECV:;DISABLED ECV: CAM1 CAM2 CAM3 CAM4;ACTIVE TL:;DISABLED TL: CAM1 CAM2 CAM3 CAM |
| *<LOOP_START>-#07-11-2022 11:24:24#-ACTIVE VIDEO: NO CAMS;DISABLED VIDEO: CAM1 CAM2 CAM3 CAM4;ACTIVE PHOTO: NO CAMS;DISABL | *<TL_START>-#07-11-2022 10:52:57#-ACTIVE ECV:;DISABLED ECV: CAM1 CAM2 CAM3 CAM4;ACTIVE TL:;DISABLED TL: CAM1 CAM2 CAM3 CAM |

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