

# 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

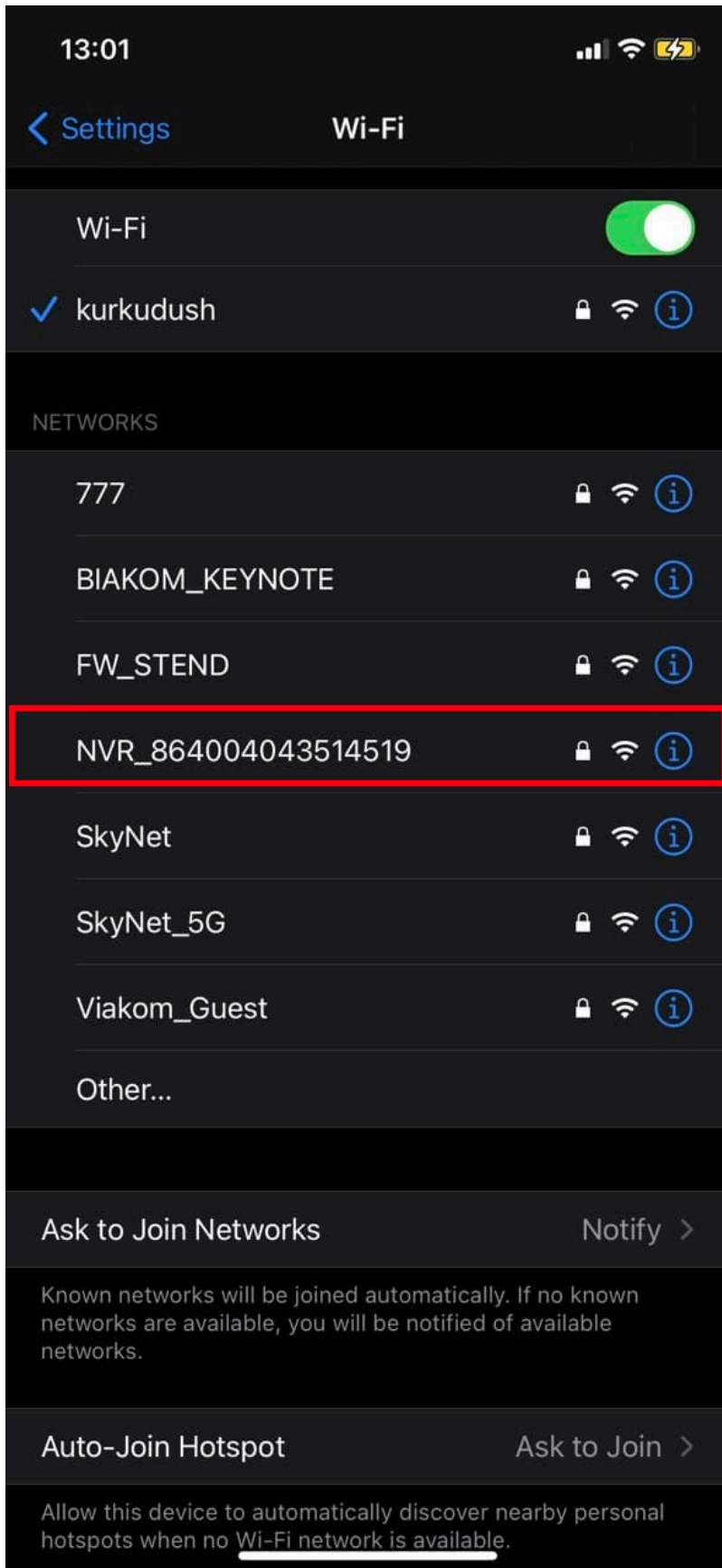
## Getting Started

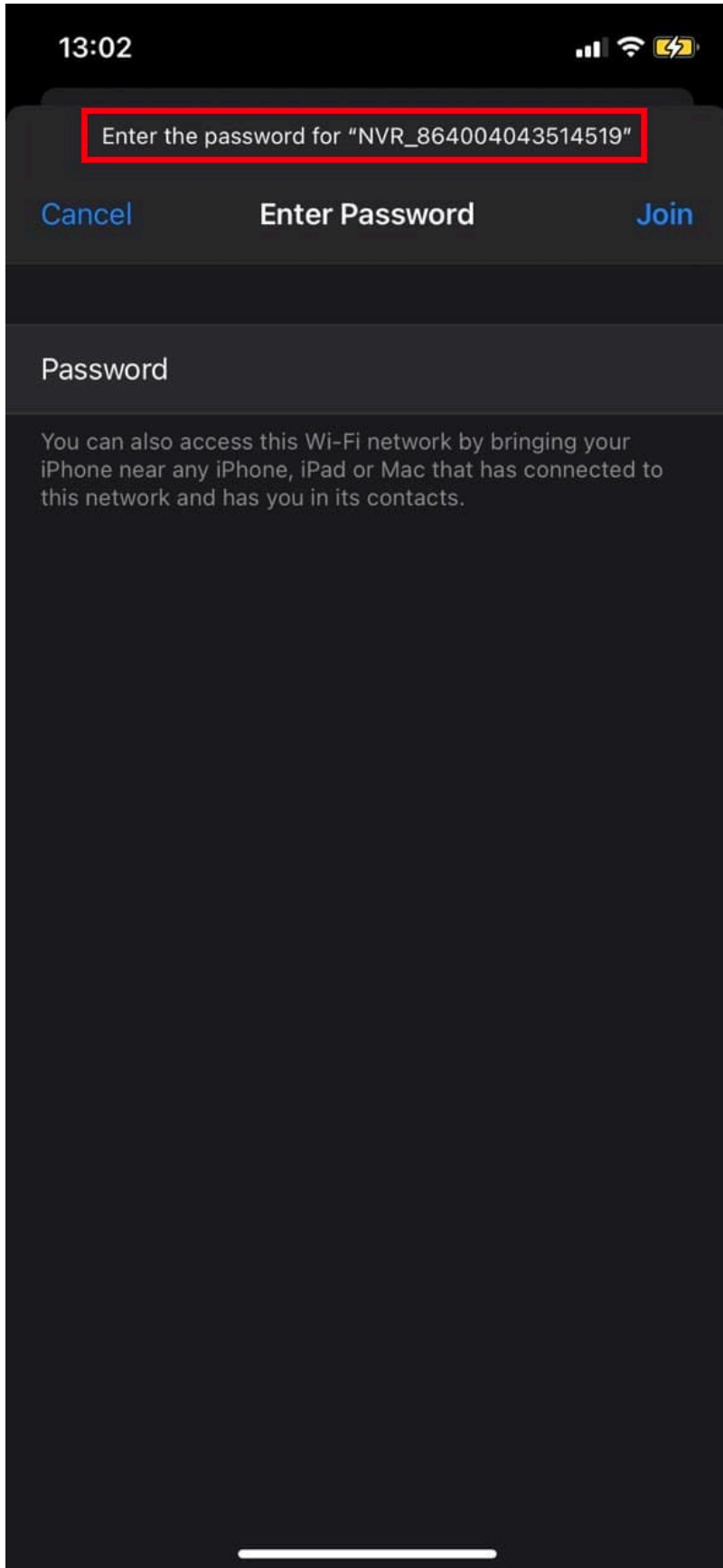
After connecting the device to the power supply, it must be connected to the Internet. You can do this in two ways:

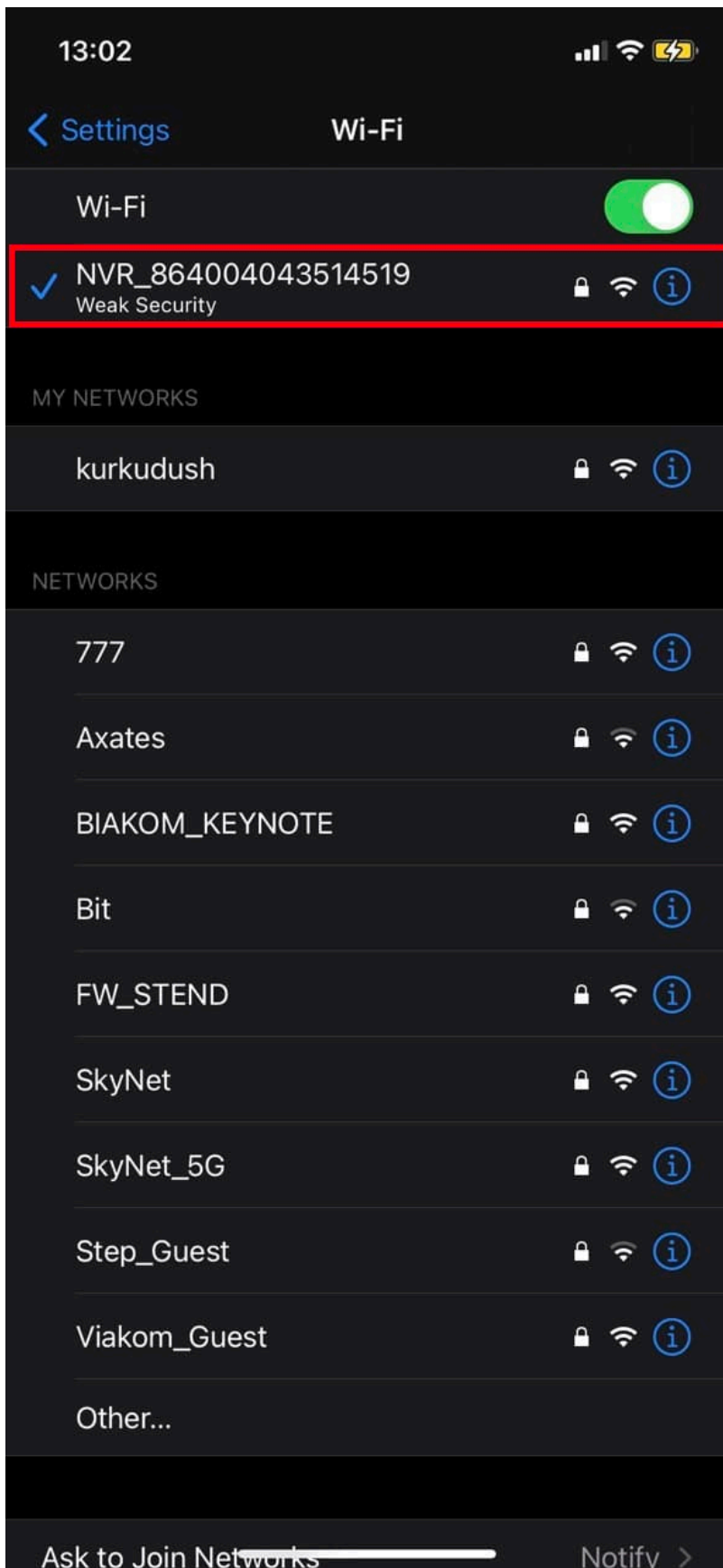
- Using Wi-Fi;
- With the help of the cloud.

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

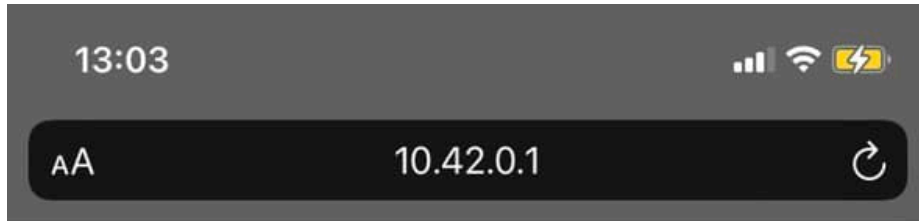
1. find the Wi-Fi device in the list (NVR\_IMEI-unique device number)
2. Then enter the password to Wi-Fi which is printed on the sticker of the device passport, in our case it is "NVR12345"
3. If everything is done correctly, we will see that connected to the network:







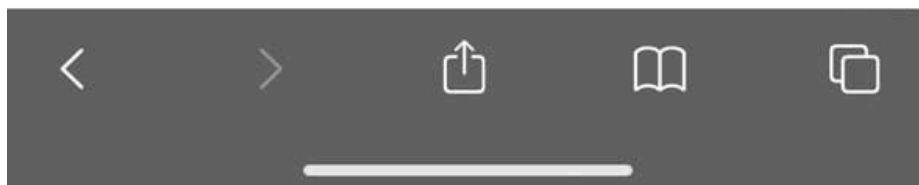
1. Then enter the address "10.42.0.1" in your browser, enter the password and go to the device control menu (On some models of phones, the connection may not be immediate. In this case, you need to wait about 30 seconds and try again)



mNVR web

864004043514519

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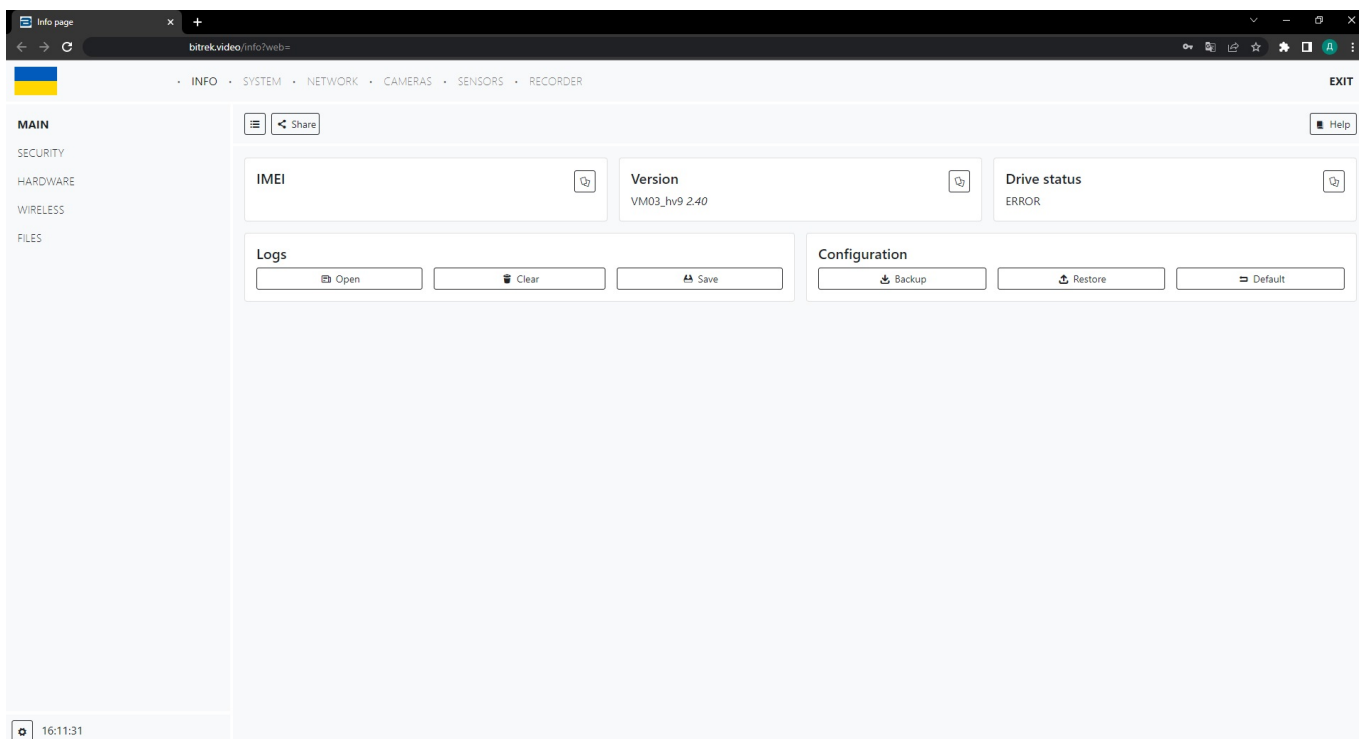
1. The second way: **Using the cloud service <https://device.bitrek.video/>**
2. Go to the [site](#) enter the IMEI and password that is printed on the sticker of the device passport:



Done! We are in the device management menu 

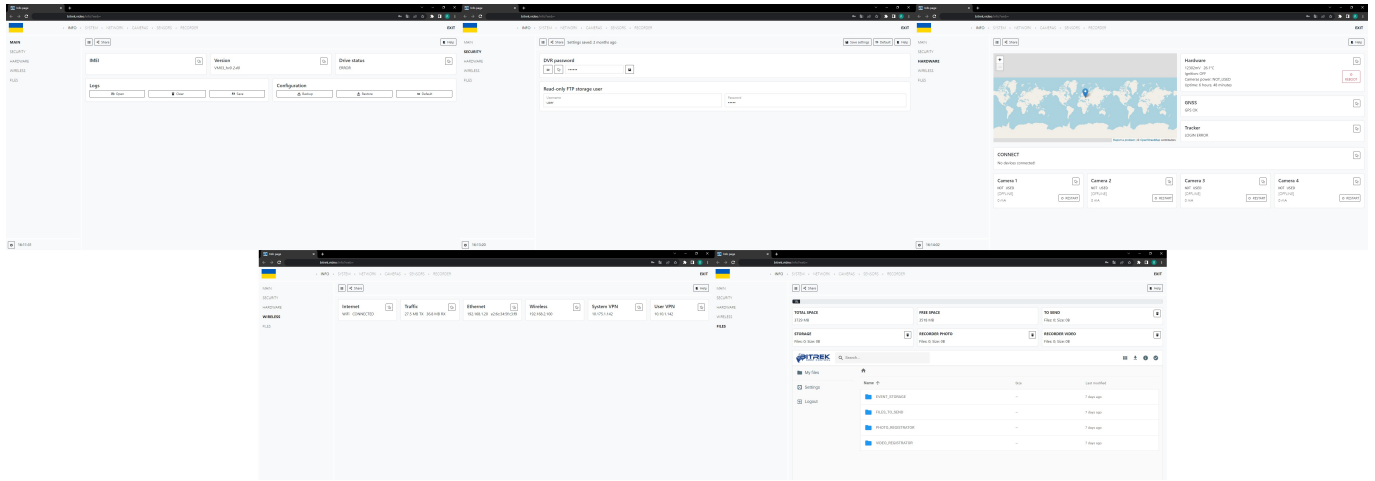
## Working with the WEB interface

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

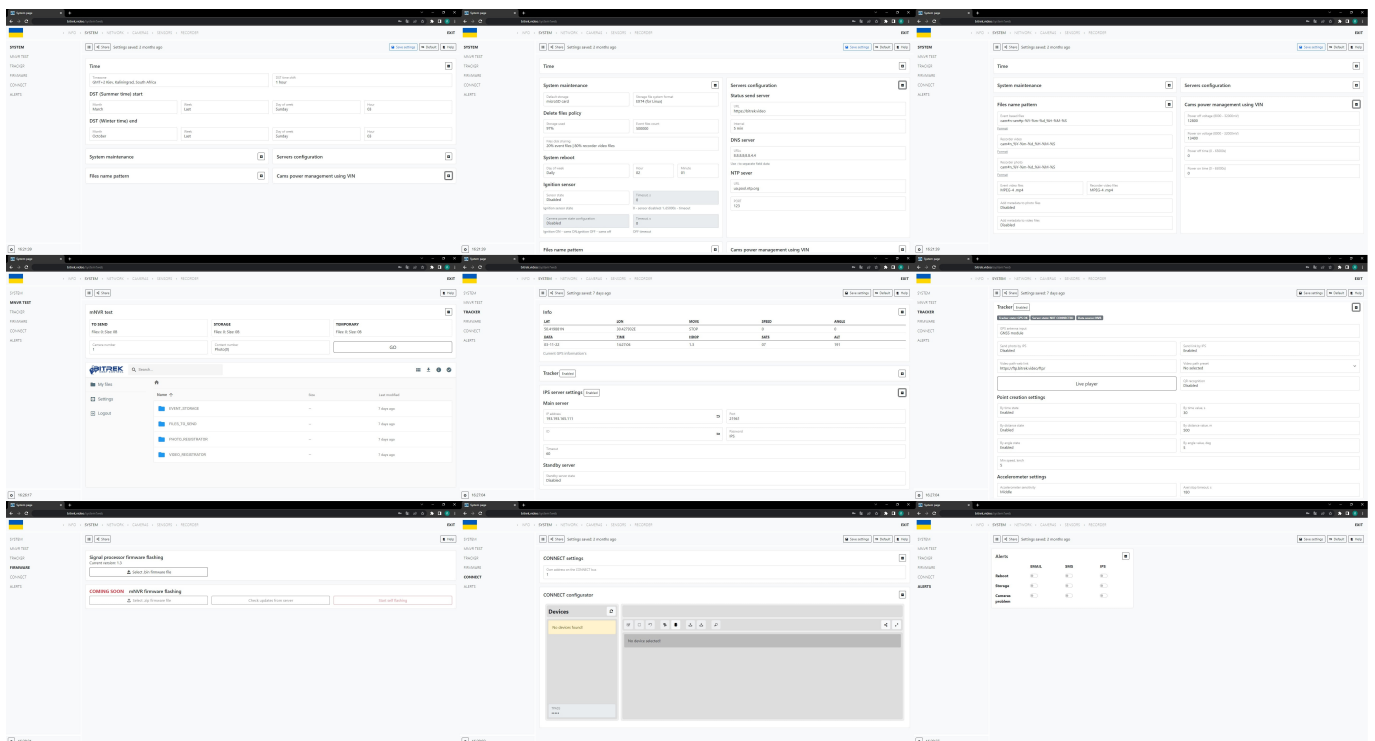


(click on the image for detailed view)

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.

## SYSTEM



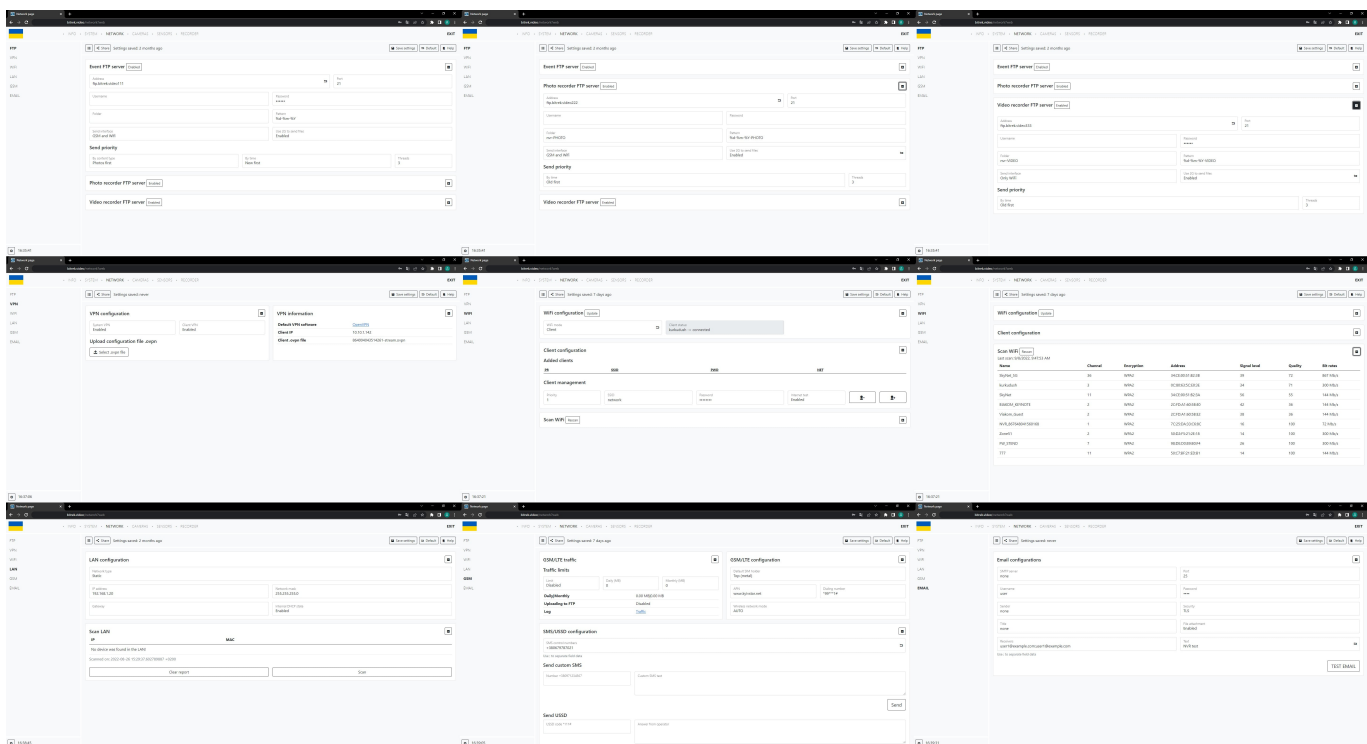
(click on the image for detailed view)

The tab is intended for device system settings such as

- Date and time;
- Storage usage;

- Server configuration;
- File name patterns;
- Camera power management by VIN;
- Device testing;
- Updating the processor of the device;
- Tracker;
- IPS server;
- Setting up trackers through the CONNECT system;
- Receiving notifications (Email, SMS, IPS).

## NETWORK

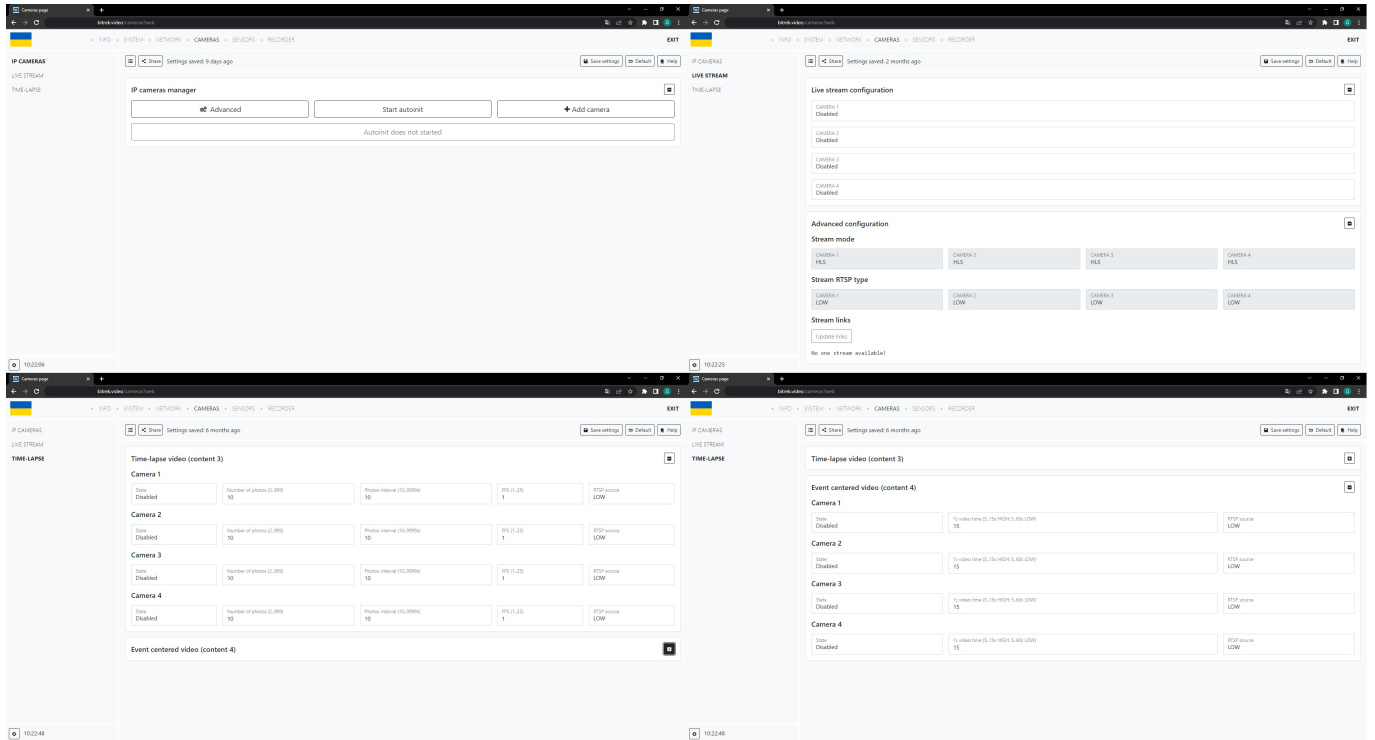


(click on the image for detailed view)

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

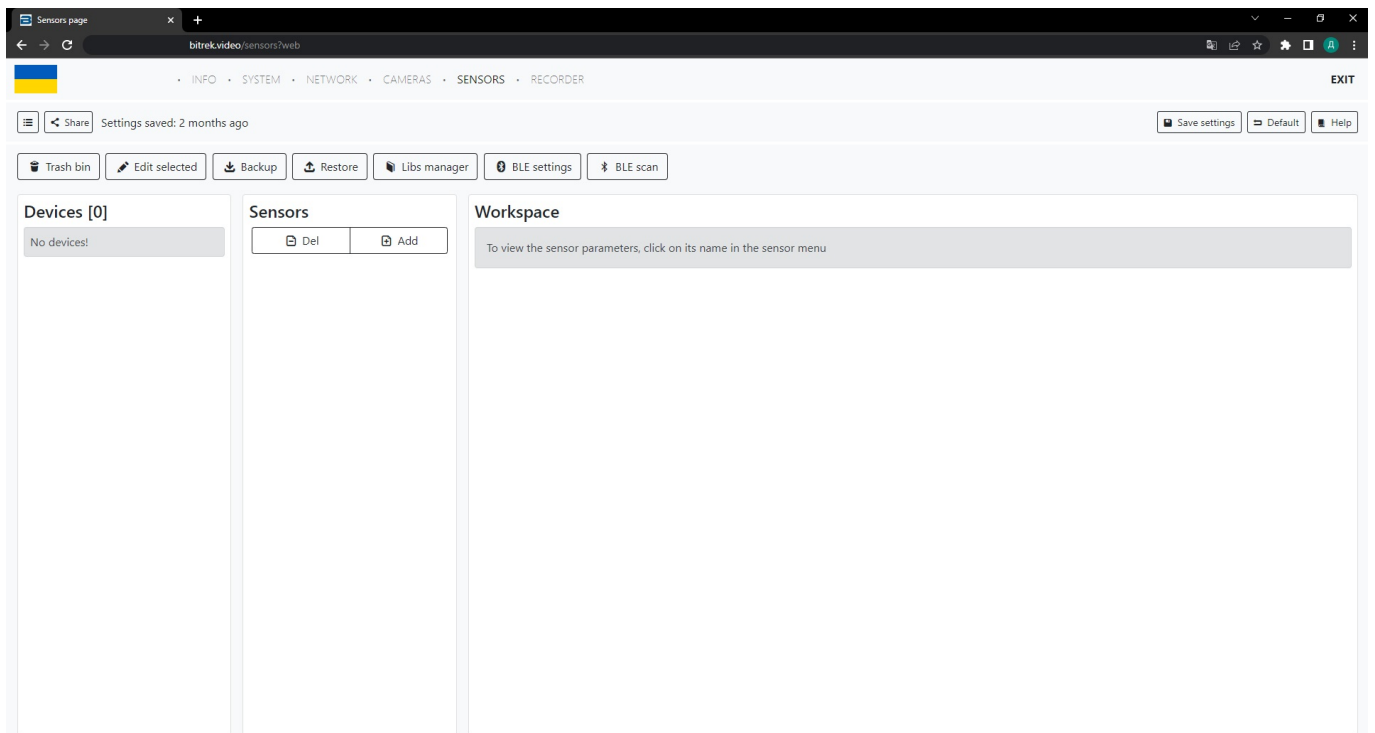


(click on the image for detailed view)

This section allows:

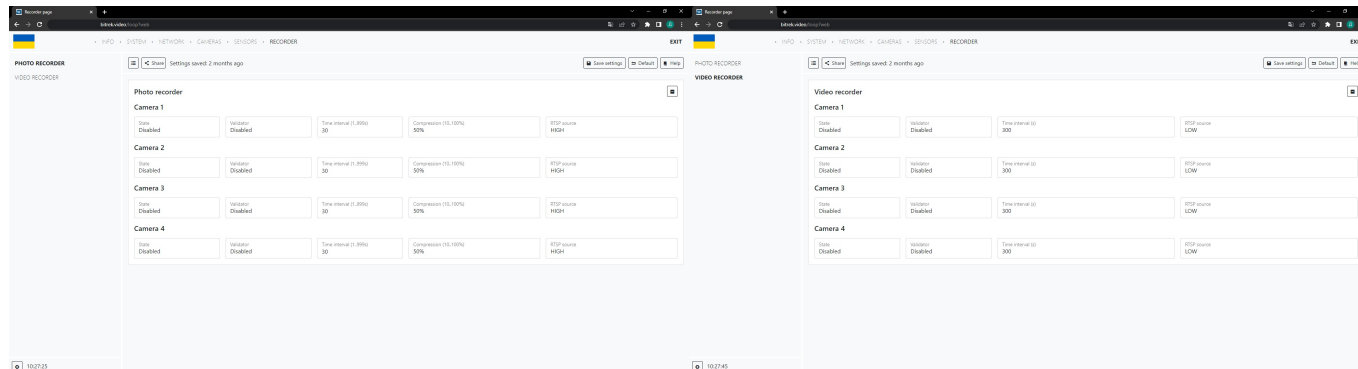
- Add cameras;
- View the list of available cameras;
- View live broadcast using cameras;
- Set up timelapse and video with the event in the center.

## SENSORS



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

## RECORDER

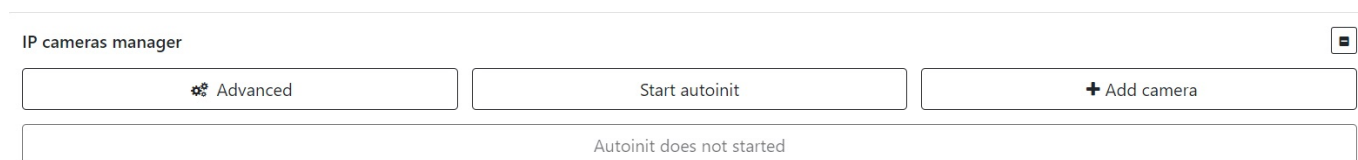


The section allows you to configure the device for photo and video registration

## 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.

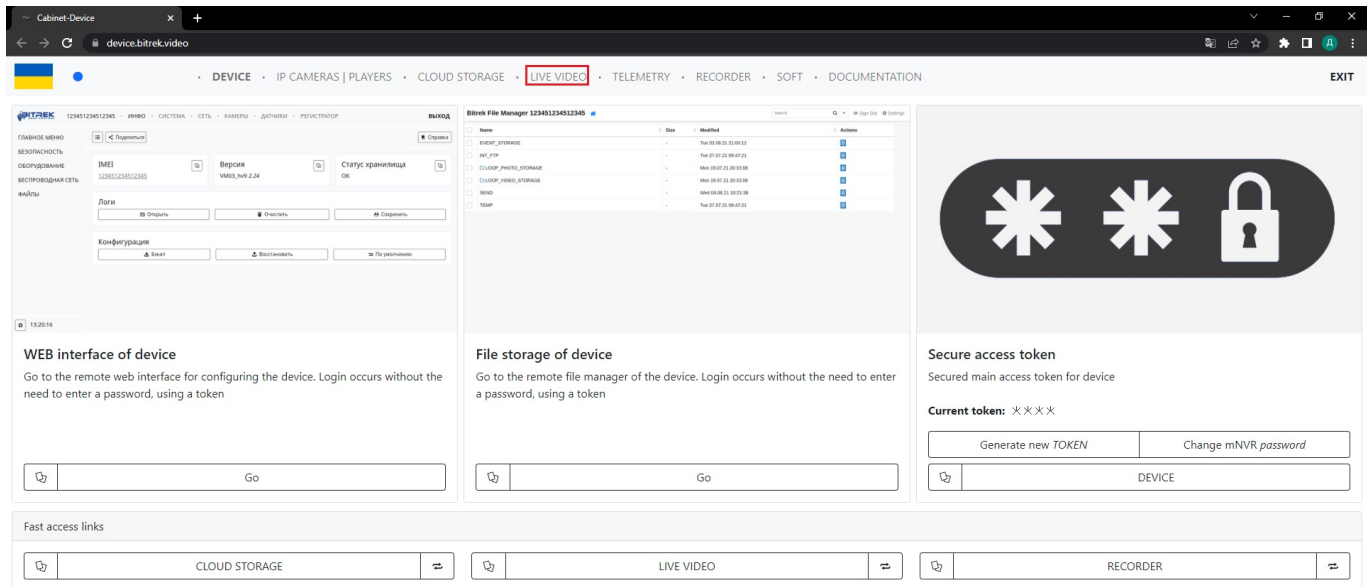
### Конфігурація трансляції

**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

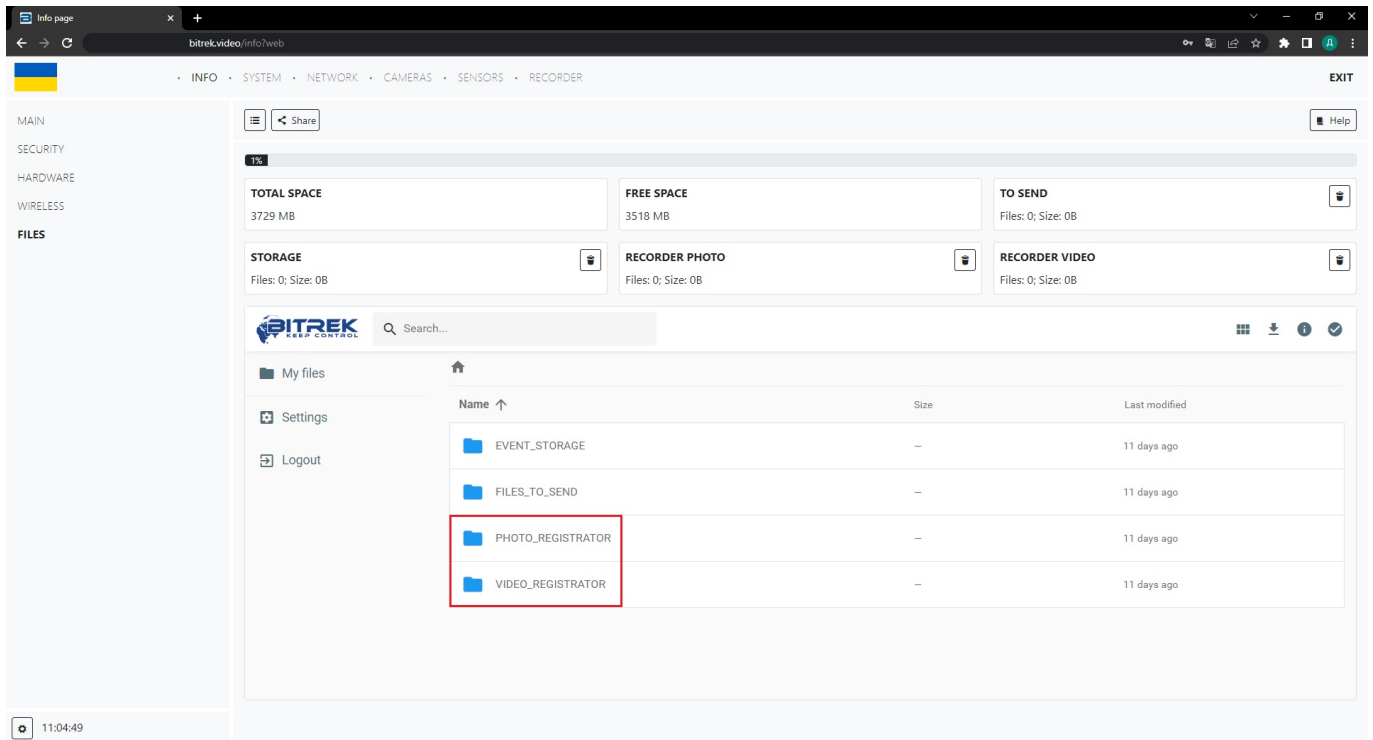


## Setting up the recorder

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

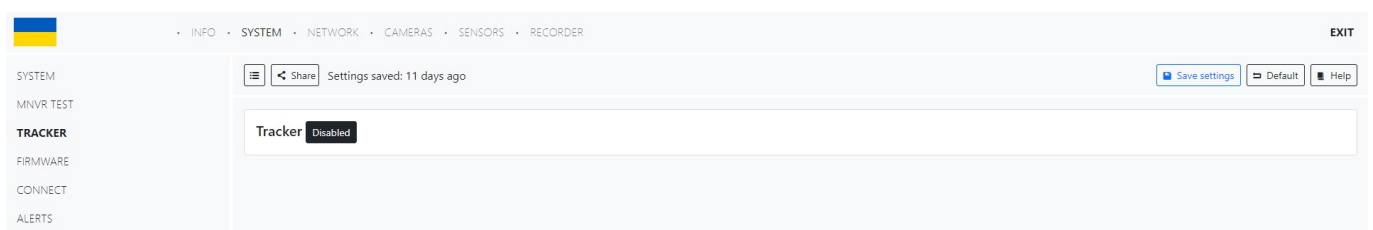


## Sensor settings

## Tracker settings

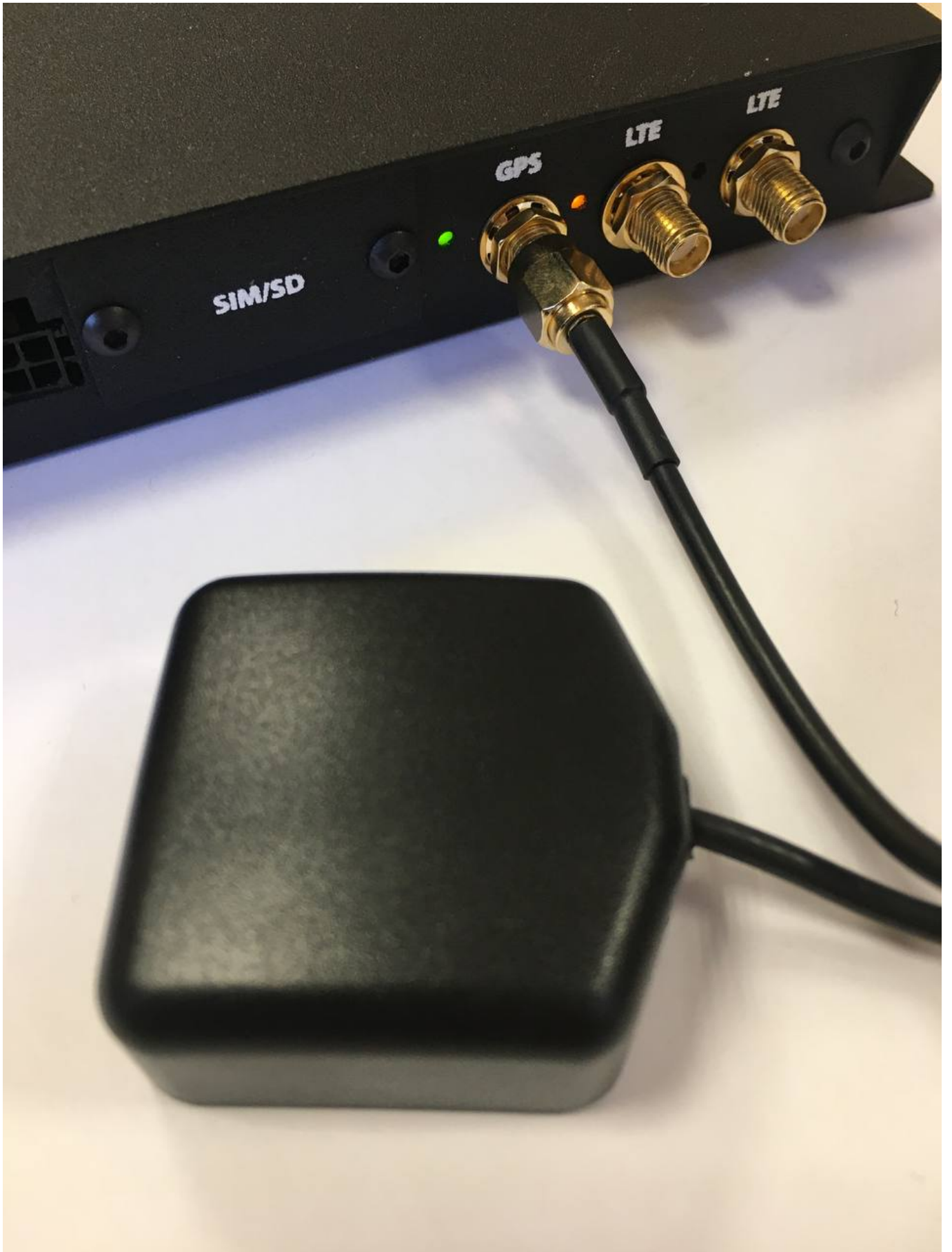
To configure the tracker, you need to go to the appropriate tab in the SYSTEM/Tracker section and turn on the tracker by clicking the corresponding button

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](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	
<b>Accelerometer settings</b>	
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!

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**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:

- 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**  Enabled

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

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

**Photo recorder FTP server**  Enabled

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

- 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
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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
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<b>Daily Monthly</b>	0.00 MB 0.00 MB
<b>Uploading to FTP</b>	Disabled
<b>Log</b>	<a href="#">Traffic</a>

- 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

Use ; to separate field data

Send custom SMS

Number +380971234567

Custom SMS text

Send

Send USSD

USSD code \*111#

Answer from operator

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
<b>Daily Monthly</b>	0.00 MB 0.00 MB	
<b>Uploading to FTP</b>	Disabled	
<b>Log</b>	<a href="#">Traffic</a>	

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](http://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/USSD configuration

SMS control numbers  
+380123456789

Use ; to separate field data

#### Send custom SMS

Number +380971234567  
+380123456789

Custom SMS text  
test

Send

#### Send USSD

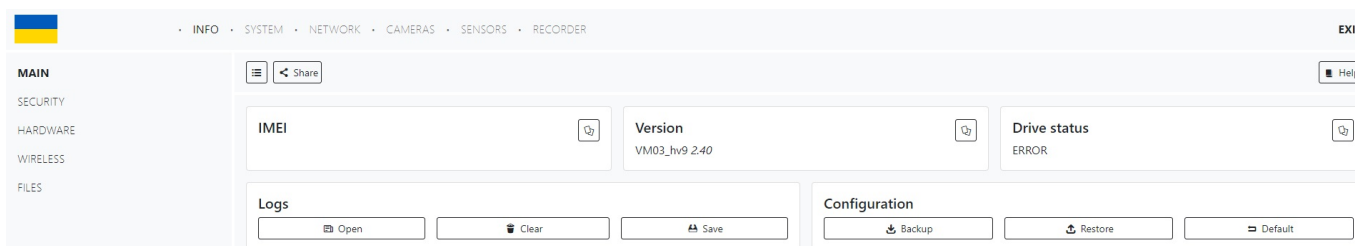
USSD code \*111#  
\*111#

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"



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

# Logs

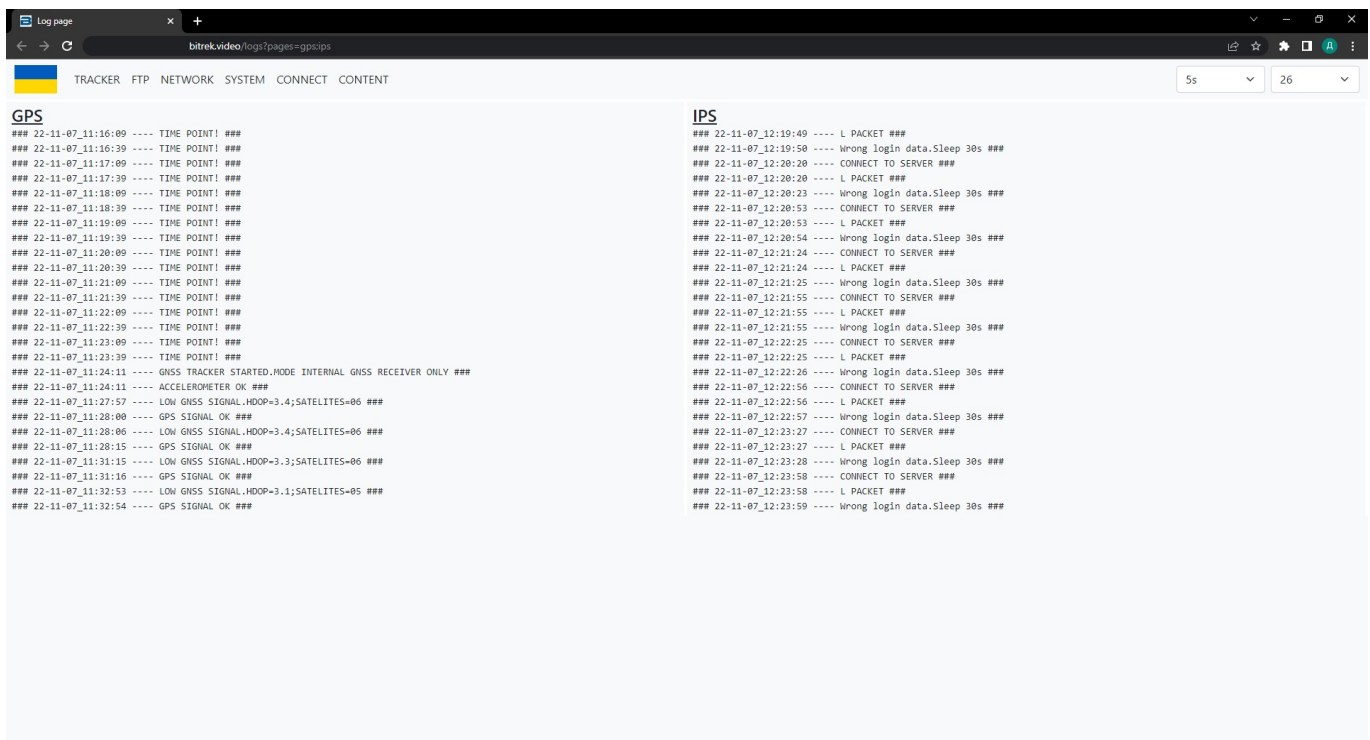


-  TRACKER
-  FTP
-  NETWORK
-  SYSTEM
-  CONNECT
-  CONTENT

## 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.)

**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 VIDEO>#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*
```

## 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

**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#-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 11:27:38#-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**

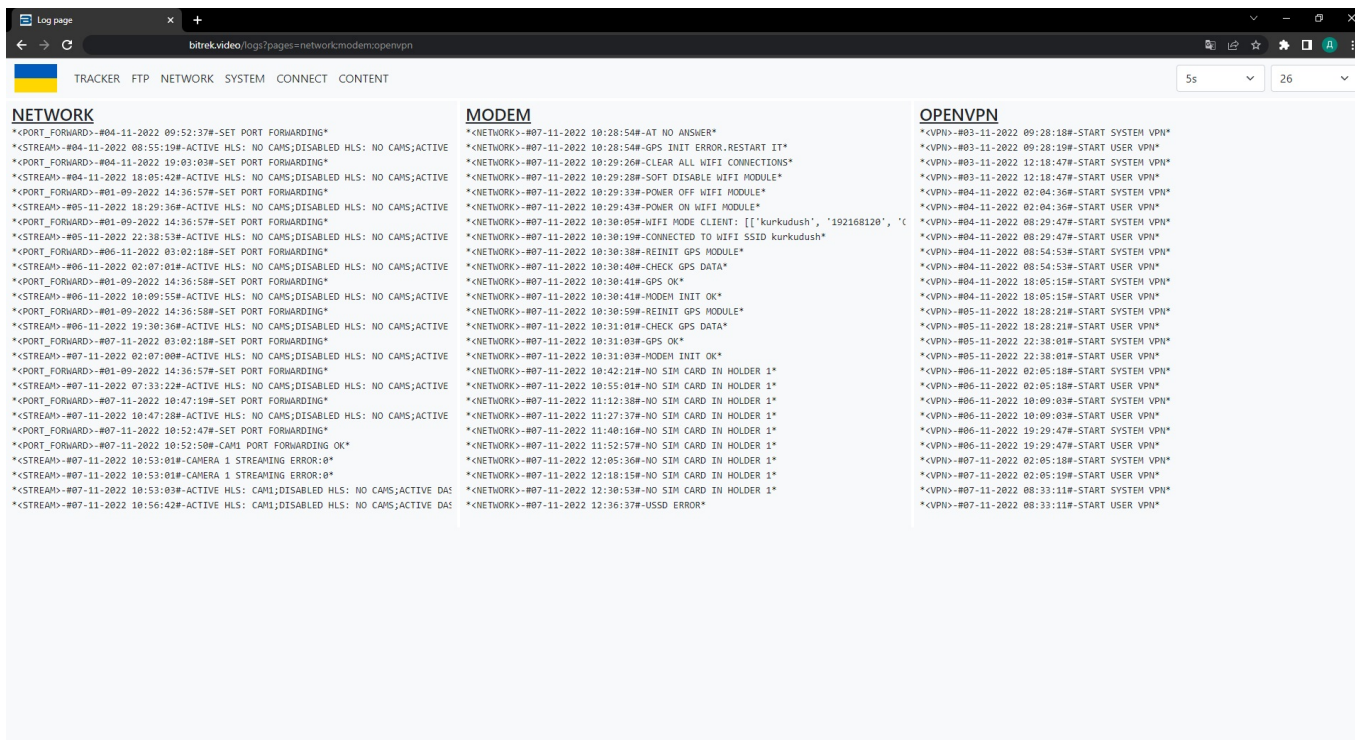
```
*VPN>#03-11-2022 09:28:18#-START SYSTEM VPN*
*VPN>#03-11-2022 09:28:19#-START USER VPN*
*VPN>#03-11-2022 12:18:47#-START SYSTEM VPN*
*VPN>#03-11-2022 12:18:47#-START USER VPN*
*VPN>#04-11-2022 02:04:36#-START SYSTEM VPN*
*VPN>#04-11-2022 02:04:36#-START USER VPN*
*VPN>#04-11-2022 08:29:47#-START 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



# 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

The screenshot shows a web browser window with the address bar displaying 'bitrek.video/logs?pages=mainuartbam\_flash'. The page has a navigation menu with 'TRACKER', 'FTP', 'NETWORK', 'SYSTEM', 'CONNECT', and 'CONTENT'. The main content area is divided into three columns: 'MAIN', 'UART', and 'BAM FLASH'. Each column contains a list of log entries with timestamps and status information.

## CONTENT

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

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

The screenshot shows a web browser window with the address bar displaying 'bitrek.video/logs?pages=cycletimelapse'. The page has a navigation menu with 'TRACKER', 'FTP', 'NETWORK', 'SYSTEM', 'CONNECT', and 'CONTENT'. The main content area is divided into two columns: 'CYCLE' and 'TIMELAPSE'. Each column contains a list of log entries with timestamps and status information.

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