

# SYSTEM

System settings – section with system settings such as:

- Time zone;
- Storage;
- File names pattern;
- System information sending interval;
- URL of the server that receives system information;
- NTP server settings;
- Setting the device reboot time;
- Ignition sensor settings;

## Time

Figure 1 – Time

The screenshot shows a configuration page titled "Time". It contains several input fields for time-related settings. The "Timezone" field is set to "GMT+2 Kiev, Kaliningrad, South Africa". The "DST time shift" field is set to "1 hour". Under "DST (Summer time) start", the "Month" is "March", "Week" is "Last", "Day of week" is "Sunday", and "Hour" is "03". Under "DST (Winter time) end", the "Month" is "October", "Week" is "Last", "Day of week" is "Sunday", and "Hour" is "03".

Table 1 – Parameter Description of Time

| Parameter              | Parameter Description                        |
|------------------------|--|
| Timezone               | The time zone that will be set on the device |
| DST time shift         | The magnitude of the seasonal clock shift    |
| DST (Summer time)start | Daylight saving time setting                 |
| DST (Winter time) end  | Set clock to “winter time                    |

## System maintenance

Figure 2 – section System maintenance

### System maintenance



Default storage  
microSD card

Storage file system format  
EXT4 (for Linux)

### Delete files policy

Storage used  
97%

Event files count  
500000

Files disk sharing  
20% event files | 80% recorder video files

### System reboot

Day of week  
Daily

Hour  
02

Minute  
01

### Ignition sensor

Sensor state  
Disabled

Timeout, s  
0

Ignition sensor state

0 - sensor disabled; 1..65000s - timeout

Camera power state configuration  
Disabled

Timeout, s  
0

Ignition ON - cams ON,ignition OFF - cams off

OFF timeout

Table 2 - Parameter Description of System maintenance:

| Parameter                  | Parameter Description   |
|----------------------------|---|
| Storage file system format | Storage system format in the mNVR can be NTFS or EXT4   |
| Delete files policy        | The amount of files(in percents) awter which the deletion begins  |
| Event files count          | The number of files after which the deletion begins   |
| Files disk sharing         | disk quota for files - the ratio of event files to loop files   |
| System reboot              | The time when the device will reboot  |
| Sensor state               | On or off ignition sensor and after turning off the ignition and the set time expires the device is turning off   |
| Timeout                    | Ignition sensor settings. When meaningful > 0 and no ignition after the specified time interval, the device will turn off. This sensor allows you to connect the device directly to the battery |
| Disable IP cameras         | Switching off the cameras in the absence of ignition  |

## Files name pattern

- pattern for setting the name of the created file

Figure 3 - section Files name pattern.

### Files name pattern



Event based files  
cam#n-sen#p-%Y-%m-%d\_%H-%M-%S

Format

Recorder video  
cam#n\_%Y-%m-%d\_%H-%M-%S

Format

Recorder photo  
cam#n\_%Y-%m-%d\_%H-%M-%S

Format

Event video files  
MPEG-4 .mp4

Recorder video files  
MPEG-4 .mp4

Add metadata to photo files  
Disabled

Add metadata to video files  
Disabled

**Table 3** – Description of the pattern for setting the name of the created file

| Pattern | Pattern description   |
|---------|---|
| %%      | sign %  |
| %a      | Local abbreviated name of the day of the week (for example, Sun)  |
| %A      | Local full name of the day of the week (for example Monday)   |
| %b      | Local abbreviated name of the month (for example, Jan)  |
| %B      | Local full name of the month (for example, January)   |
| %c      | Local data and time (for example, thur 18 Mar 2021 10:19:29)  |
| %C      | Century; similarly %Y, except for the last two characters (for example, 21)   |
| %d      | Day of a month (for example, 01)  |
| %D      | Date; similarly %m/%d/%y  |
| %e      | Day of a month, supplemented by spaces; similarly %_d   |
| %F      | Full date ; equivalent %Y-%m-%d   |
| %g      | The last two digits of the year, which corresponds to the week number according to ISO 8601 (look %G)                                   |
| %G      | The year corresponding to the week number in the year according to ISO 8601 (look. %V); usually only makes sense in conjunction with %V |
| %h      | The same, that %b   |
| %H      | Hour (00..23  |
| %I      | Hour (01..12)   |
| %j      | The number of a day in year (001..366)  |
| %k      | Hour (0..23)  |
| %l      | Hour (1..12)  |
| %m      | Month (01..12)  |
| %M      | minute (00..59)   |

| Pattern | Pattern description  |
|---------|--|
| %n      | New line   |
| %N      | nanoseconds (000000000..999999999)                                       |
| %p      | Local equivalent AM or PM; empty if unknown                              |
| %P      | similarly %p, but only in lower case                                     |
| %r      | Local 12-hour time (for example, 11:11:04 PM)                            |
| %R      | 24-hour format of hours and minutes; similarly %H:%M                     |
| %s      | the number of seconds that elapsed from 1970-01-01 00:00:00 UTC          |
| %S      | second (00..60)  |
| %t      | Tabulation   |
| %T      | time; similarly %H:%M:%S   |
| %u      | Day of the week (1..7); 1 means Monday                                   |
| %U      | the number of the week in the year that begins on Sunday (00..53)        |
| %V      | week number in the year beginning Monday, according to ISO 8601 (01..53) |
| %w      | Day of the week (0..6), 0 means Sunday                                   |
| %W      | week number in the year beginning Monday (00..53)                        |
| %x      | Local date display (for example, 31.12.1999)                             |
| %X      | Local time display (for example, 23:13:48)                               |
| %y      | Last two digits of the year (00..99)                                     |
| %Y      | Year   |
| %z      | Time zone in format `+hhmm` ( for example, -0400)                        |
| %:z     | Time zone in format `+hh:mm` ( for example, -04:00)                      |
| %::z    | Time zone in format `+hh:mm:ss` ( for example, -04:00:00)                |
| %:::z   | Часовий пояс з достатньою кількістю двокрапок (наприклад, -04, +05:30)   |
| %Z      | time zone with enough colons (for example, -04, +05:30)                  |

The next parameters of mNVR are also used.

Table 4 - mNVR settings to customize the name of the file being created

| Parameter | Parameter Description |
|-----------|-----------------------|
| #n        | Camera number         |
| #c        | Type of content       |
| #p        | Number of the sensor  |
| #i        | IMEI of the device    |

**Video files extension** - file extension format. MP4 format requires full file download for playback, MKV format supports playback of not fully downloaded files. MKV is recommended for poor communication quality

## Servers configuration

Figure 4 - section servers configuration

## Servers configuration



### Status send server

URL  
https://bitrek.video

Interval  
5 min

### DNS server

URLs  
8.8.8.8;8.8.4.4

Use ; to separate field data

### NTP sever

URL  
ua.pool.ntp.org

PORT  
123

Table 5 - Parameter Description of servers configuration

| Parameter  | Parameter Description  |
|------------|--|
| URL        | The URL of the server that processes and stores system information |
| Interval   | The interval of sending system information to a given server       |
| DNS server | IP address of the Internet server                                  |
| NTP server | Address and port of the NTP time synchronization server            |
| PORT       | Port number  |

## Cameras power management using VIN

Figure 5 - Cameras power management using VIN

## Cams power management using VIN



|   |
|---|
| Power off voltage (8000 - 32000mV)<br>12800 |
| Power on voltage (8000 - 32000mV)<br>13400  |
| Power off time (0 - 65000s)<br>0            |
| Power on time (0 - 65000s)<br>0             |

Table 6 - Cameras power management using VIN parameter description

| Parameter                         | Parameter Description   |
|-----------------------------------|---|
| Power off voltage (8000-32000 mB) | The value of voltage when device is turning off (from 8 to 32V) |
| Power on voltage (8000-32000 mB)  | The value of voltage when device is turning on (from 8 to 32V)  |
| Power off time (0-65000 c)        | Time at the set voltage after which the device switches off     |
| Power on time (0-65000 c)         | Time at the set voltage after which the device switches on      |

To set the default settings, click the **Default** button. To save settings in NVR click **Save settings** button.

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