

HAIVISION



Haivision Pro3xx

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User's Guide

www.haivision.com

Edition Notice

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About Haivision

Founded in 2004, Haivision is now a market leader in enterprise video and video streaming technologies. We help the world's top organizations communicate, collaborate and educate. Recognized as one of the most influential companies in video by Streaming Media and one of the fastest growing companies by Deloitte's Technology Fast 500, organizations big and small rely on Haivision solutions to deliver video. Headquartered in Montreal, Canada, and Chicago, USA, we support our global customers with regional offices located throughout the United States, Europe, Asia and South America.

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About This Document

Conventions

The following conventions are used to help clarify the content.

Typographic Conventions and Elements

<i>Italics</i>	Used for the introduction of new terminology, for words being used in a different context, and for placeholder or variable text.
bold	Used for strong emphasis and items that you click, such as buttons.
<code>Monospaced</code>	Used for code examples, command names, options, responses, error messages, and to indicate text that you enter.
>	In addition to a math symbol, it is used to indicate a submenu. For instance, File > New where you would select the New option from the File menu.
...	Indicates that text is being omitted for brevity.

Action Alerts

The following alerts are used to advise and counsel that special actions should be taken.



Tip

Indicates highlights, suggestions, or helpful hints.



Note

Indicates a note containing special instructions or information that may apply only in special cases.



Important

Indicates an emphasized note. It provides information that you should be particularly aware of in order to complete a task and that should not be disregarded. This alert is typically used to prevent loss of data.

⚠ Caution

Indicates a potentially hazardous situation which, if not avoided, may result in damage to data or equipment. It may also be used to alert against unsafe practices.

⚠ Warning

Indicates a potentially hazardous situation that may result in physical harm to the user.

Getting Service Support

For more information regarding service programs, training courses, or for assistance with your support requirements, contact Haivision Technical Support using our Support Portal at: <https://support.haivision.com>.

This guide describes how to use the Havision Pro300 series device.

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Preface

- [Operating Environment](#)
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Operating Environment

- Ensure that the environment corresponds to the conditions mentioned below:
 -  Only use at altitude not exceeding 2000 meters.
 -  Only use in not-tropical climate regions.
 - Ambient operating temperature (with internal battery): 0°C to 45°C (0°C to 35°C when unit placed in backpack).
 - Ambient operating temperature (with DC adapter): 0°C to 40°C (for the DC adapter).
 - Ambient operating humidity: 10% to 85% (no condensation).

Important

Operating the unit out of these ranges may cause damage and void the warranty.

- Protect the unit against rain, dust, and shocks.
- Avoid long exposure to direct sunlight.
- Do not obstruct the air inlets and outlets.



Caution - Safety Precautions

- Only use the DC adapter and the power cord provided by Haivision. Using another DC adapter and power cord can damage the device and void the warranty.

Safety and Health Precautions



Handling the Unit

- To avoid any injury during the installation, observe local health and safety requirements and guidelines for manual material handling.
- The unit must be handled carefully and thoughtfully to prevent safety hazards and damage.



Servicing the Unit

- Only trained and approved service engineers are permitted to service this unit.
- Unauthorized maintenance or the use of non-approved replacements may affect the unit specifications and invalidate any warranties.



Electronic and Radio Interference

- To avoid any interference with electronic devices contained in vehicles, keep the unit away from the vehicle's dashboard.
- When connected to wireless networks (3G/4G/5G or Wi-Fi), the unit emits microwaves that can interfere with other electronic devices.
- The operation of this equipment in a residential environment could cause radio interference.



Safety Precautions

- Do not use the unit in any place where the use of mobile phones is usually banned: airplanes, hospitals, and areas with potentially explosive atmosphere (e.g. gas stations, repair shops, fuel or chemical storage areas).
- In accordance with IEC 62368-1:2014 standard, devices must be connected to PS2 power sources. Consequently, only PD2 type external batteries must be used. Pro Series devices are delivered with a design PS2 type power block.



Coin Battery Safety Precautions

- Lithium battery (ref: BR1225A)
- There is a risk of explosion if the battery is replaced by an incorrect type.



Health Precautions

Operating the unit is not recommended for:

- People with electronic implants (e.g. pacemakers, insulin pumps, implanted pulse generators, hearing aids).
- Pregnant women, old people, children, teenagers and people suffering from epilepsy.

Compliance

Before using the unit, please inform yourself about laws and regulations in force in the country in which you use it. Please refer to the sticker pasted on the unit to know its version.

The declaration of conformity is available upon request. Should you need it, please contact Haivision.

Federal Communications Commission Statement

Model: Pro360-5G

Contains FCC ID: 2ASIK-EM91

Contains FCC ID: 2ASIK-CB178NF

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. this device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device must be professionally installed

The Company "HAIVISION" is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

This portable equipment with its antenna complies with FCC's radiation exposure limits set forth for an uncontrolled environment. This equipment has shown compliance with FCC's Specific Absorption Rate (SAR) limits. To maintain compliance, follow the instructions below:

1. This transmitter must not be co-located or operating with any other antenna or transmitter;
2. A minimum distance of 15 mm between the user and the antenna must be kept in order to comply with FCC SAR requirement.

Industry Canada statement

Model: Pro360-5G

CAN ICES-3 (B)/NMB-3 (B)

Contains IC: 21415-EM91

Contains IC: 21415-CB178NF

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science

and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This portable equipment with its antenna complies with RSS102's radiation exposure limits set forth for an uncontrolled environment. This equipment has shown compliance with RSS102's Specific Absorption Rate (SAR) limits. To maintain compliance, follow the instructions below :

1. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. A minimum distance of 15 mm between the user and the antenna must be kept in order to comply with IC SAR requirement.

Cet équipement portable avec ses antennes est conforme aux limites d'expositions de la CNR102 applicables pour un environnement non contrôlé. Cet équipement a démontré la conformité aux limites de Débit d'Absorption Spécifique (DAS). Pour maintenir la conformité suivez les instructions ci-dessous:

1. Cet émetteur ne doit pas être co-localisé ou opérer en conjonction avec toute autre antenne ou émetteur.
2. Une distance minimale de 15 mm entre l'utilisateur et l'antenne doit être respectée afin de se conformer à l'exigence SAR de IC.

WI-FI 5GHz

Operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

La bande 5150-5 250 MHz est réservée uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

Device Disposal

Waste Electrical and Electronic Equipment (WEEE) Disposal



In accordance with the European Union (EU) WEEE Directive, Haivision products that fall within the scope of the WEEE, are labeled with the above symbol, and customers are encouraged to responsibly recycle their equipment at the time of disposal. Haivision also offers its customers the option of returning Haivision equipment to facilitate its environmentally sound disposal.

For more information, please visit our website at: <https://www.haivision.com/environment>.

Product Presentation

The Pro3 Series is a range of camera mounted mobile encoders & transmitters allowing video professionals to broadcast news, sports, or field events from any location around the world. This solution supports video live transmission, record and forward over unmanaged networks - such as 3G/4G-LTE and 5G cellular network, LAN/WAN, or public internet.



With its large set of professional audio and video interfaces, the Pro3 Series supports the best state-of-the-art H.265/HEVC and H.264/AVC hardware encoder by offering premium video quality with less data usage and low end-to-end latency.

On the transmission side, the solution features multiple world-wide compliant embedded cellular modems with high efficiency patented custom antenna array: up to x6 3G/4G/5G or x8 3G/4G modems. Additional extension links such as built-in Wi-Fi, Dual Gigabit Ethernet for streaming over LAN/WAN, BGAN, GX or Ka band Satellite are also natively supported, and controlled by our SST (Safe Stream Transport) technology. This award-winning technology powered by Haivision is an intelligent IP bonding stack offering a set of powerful contribution network protocols. It ensures the delivery of video even in the midst of unpredictable and unmanaged network conditions by:

- Aggregating simultaneously multiple network connections,
- Dynamically adapting the video bitrate according to the network bandwidth fluctuations,
- Protecting stream content,
- Supporting retransmission of lost data.

The Pro3 Series is organized as illustrated in the following chart.

	Pro340	Pro360-5G	Pro380
Embedded Cellular Modems	4	6	8
Cellular Networks	3G/4G	3G/4G/5G	3G/4G

Front Panel



A	Touchscreen	E	USB 3.0 port
B	Activity indicator	F	Power button
C	SD card slot	G	Link indicator
D	Intercom mini-XLR (headphone, micro)	H	<i>Pro340 and Pro380 only:</i> Remote antennas (MCX connectors)

Rear Panel



A	Auto-start switch	G	Ethernet 2
----------	-------------------	----------	------------

B	3G-SDI input	H	DC input (18-V nominal)
C	3G-SDI output	I	Micro-SIM card slots (8x for Pro380, 6x for Pro360-5G, and 4 for Pro340)
D	HDMI 1.4 input	J	Analog audio input/output (left, channel 1)
E	HDMI 1.4 output	K	Analog audio input/output (right, channel 2)
F	Ethernet 1		

Left and Right Sides



- A** Camera Mounting Plate (Gold Mount, V-Mount)
- B** Battery Mounting Plate (Gold Mount, V-Mount)

Indicator Definition

The front of the unit contains LED indicators to provide you with status information.



A Activity Indicator

Status	Meaning
 Fixed Green	The unit is starting.
Flashing Green	Live, Record or Forward in progress.
 Off	No Live, Record or Forward in progress.

B Link Indicator

Status	Meaning
 Fixed Green	The unit is starting. The unit is connected to a destination.
 Off	The unit is not connected to a destination.

Installing the Unit

1. Install the external battery onto the unit side or connect the AC/DC adapter and the power cable.
2. Insert a SD card (if not already installed). It is recommended to use FAT32 or exFAT formats and class 10 SD card.
3. Remove the SIM card cover and insert a SIM card into a slot according to indications written on the cover.
4. For Ethernet transmission, connect the Ethernet cable to ETH1.
5. Connect video input cables (SDI or HDMI).



Connecting a Quad Antenna to the Unit

Note

For Pro340 and Pro380 only: connecting a Quad Antenna is not mandatory for the unit's use.

You can connect up to two Quad Antennas to the MCX connectors on the front of the device.



- A** Quad antenna using modems 1, 2, 3, and 4.
- B** Quad antenna using modems 5, 6, 7, and 8.

Note

- When plugging in a Quad Antenna, the unit automatically switches from its enabled antennas to the Quad Antenna's external antenna arrays.
- If only one Quad Antenna is connected to the unit, you need to disable the modems that are not used. (Please see [Enabling / Disabling a Cellular Modem](#).)
- When restarting the unit, the configuration that you applied to modems is kept.

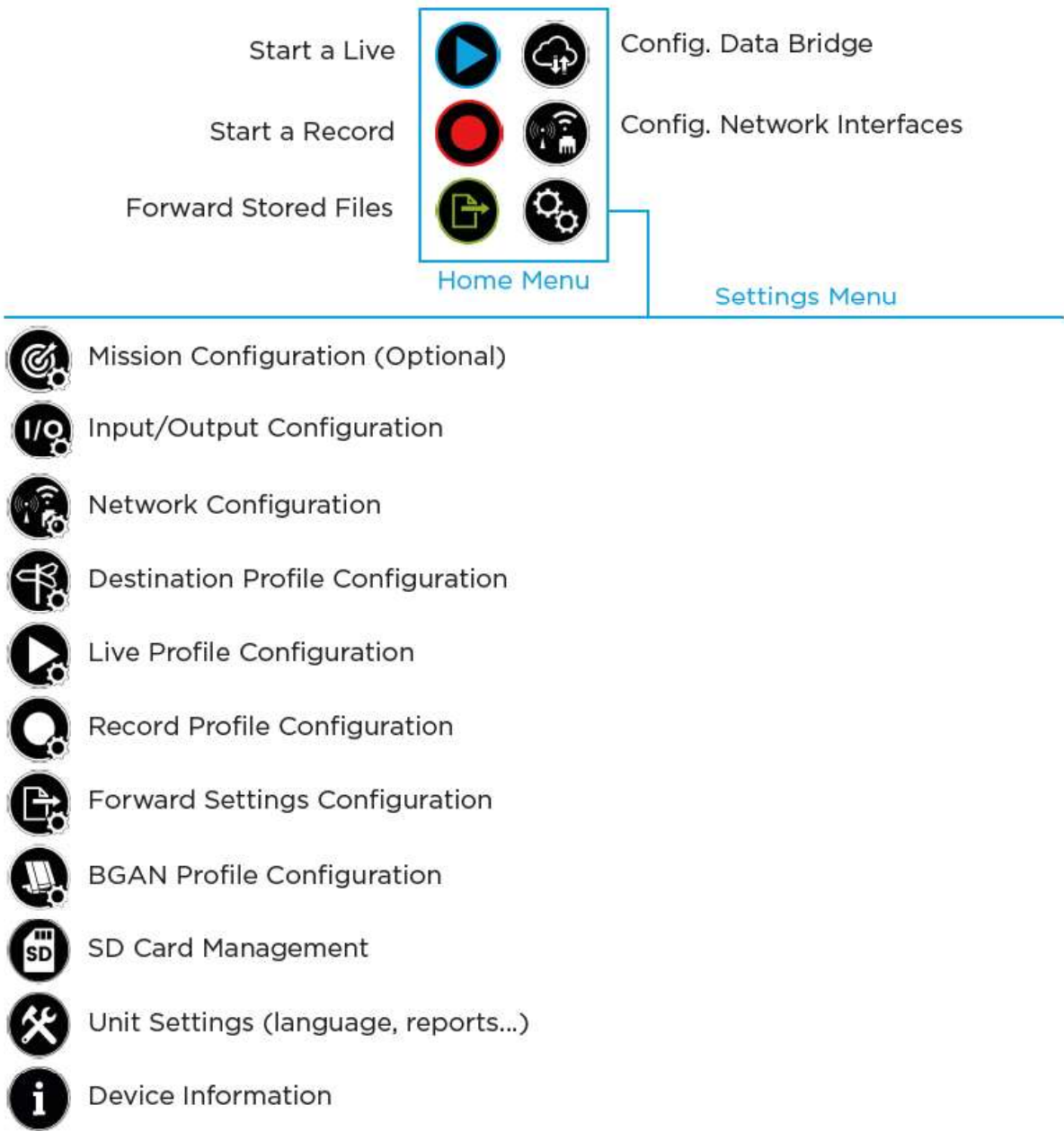
Unit Front Panel

The unit front panel allows you to:

- Configure the unit
- Start / stop live
- Start / stop record
- Forward stored files

Menus

The diagram below shows the different options accessible from the **Home** and **Settings** menus.



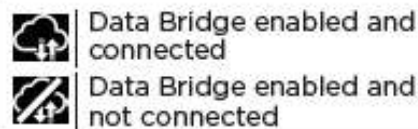
Icons

On the front panel screen, some icons indicate the unit state.

Video Return



Data Bridge



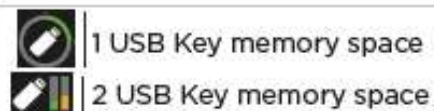
Missions



Live at Startup



USB Keys



Unit Geolocation



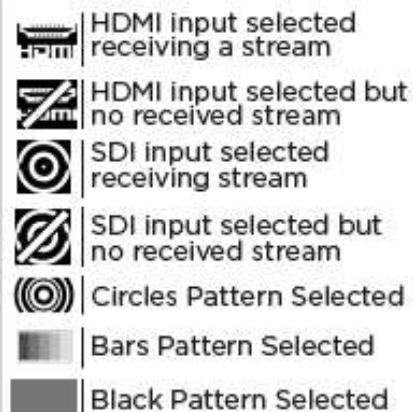
Ethernet Connection



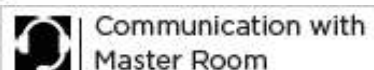
WiFi Connection



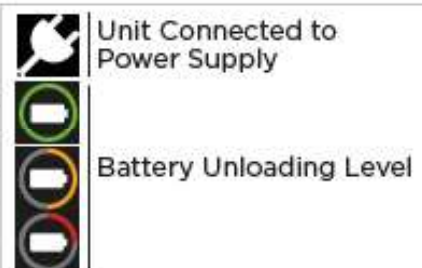
Video Source



Intercom



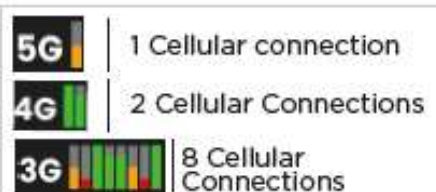
Power Supply / Battery Status



Mass Storage Status (SD Card)



Cellular Connection Signal Level



Error Icons

 Error with Modem Connection

 Error with Ethernet connection

Launching the Web Interface

The web interface allows you to:

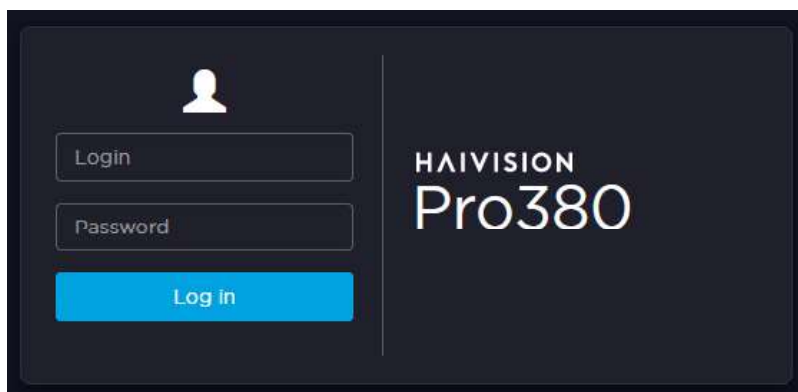
- Configure the unit
- Start / stop live
- Start / stop record
- Forward stored files

To access the **Web** interface, use an Ethernet connection or a Wi-Fi connection.

Ethernet Connection

1. From the unit panel **Home** menu, select . The screen displays the IP address assigned to the unit (by default in DHCP mode).
2. Launch a web browser on your computer and enter the unit IP address and append " :8888 " to it. Example: 10.50.1.139:8888

The login screen opens:

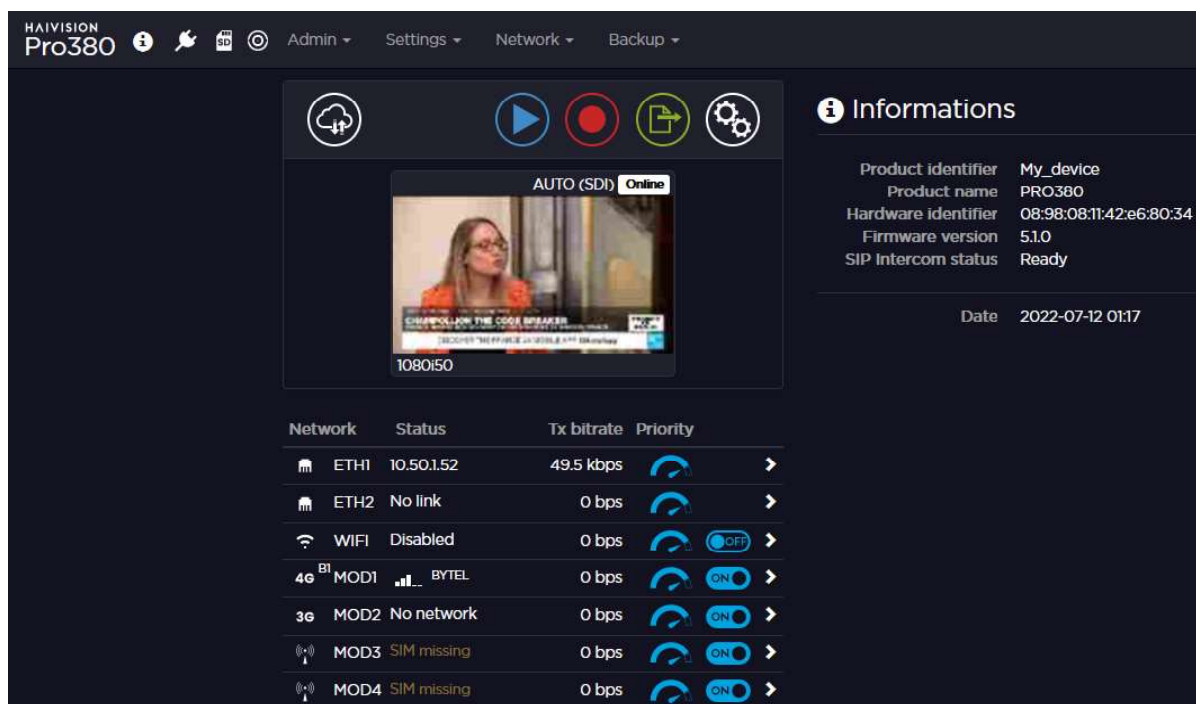


3. Enter the login and password.

Important

It is highly recommended to modify the default password.

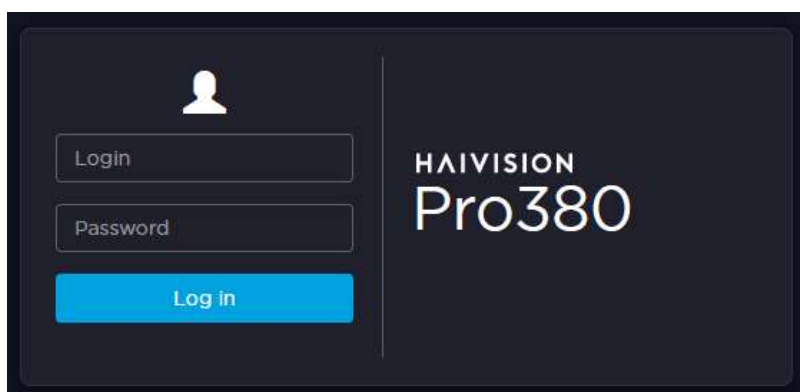
The web interface opens:



Wi-Fi Connection (Access Point Mode)

1. From the Unit Panel, configure the unit as a Wi-Fi Access Point (see [Configuring a Wi-Fi Interface](#) for details).
2. On your Wi-Fi client device (computer, notebook, smartphone), go to the Wi-Fi settings menu, and select the Wi-Fi access point that you configured.
3. Enter the password that you defined.
4. In a Web Browser, enter the unit URL: <http://192.168.30.10:8888> (default IP address if it has not been changed).

The login screen opens:

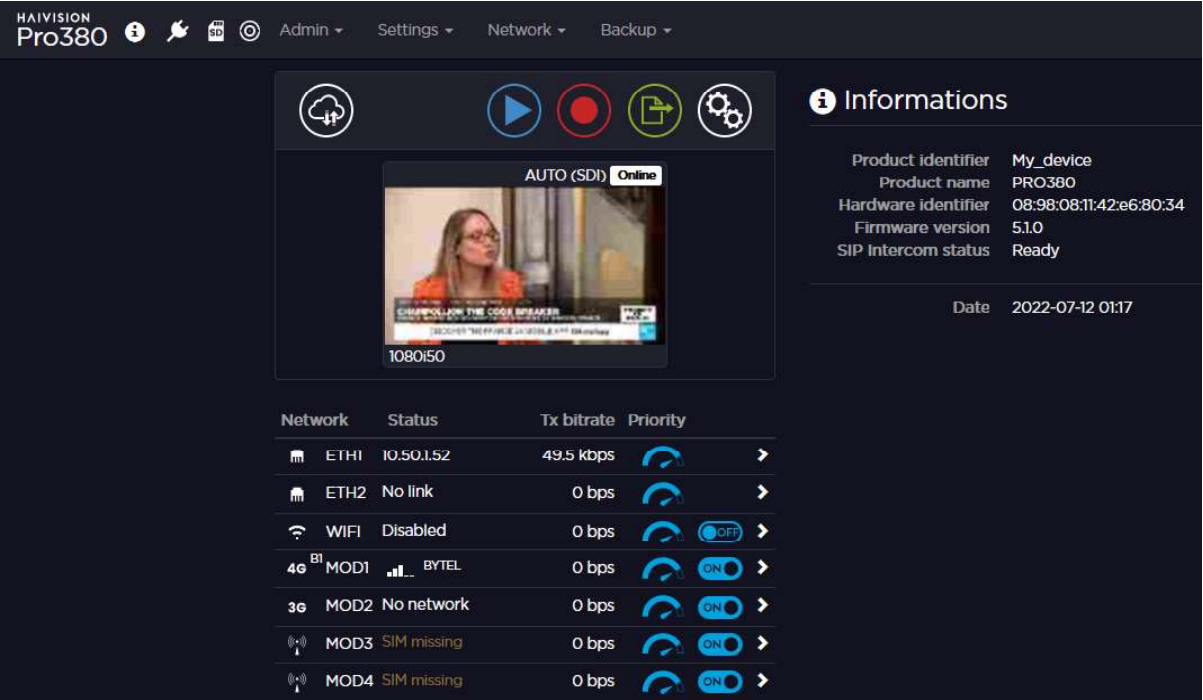


5. Enter the login and password.

Note

It is highly recommended to modify the password.

The unit’s web interface opens.



Configuring an Ethernet Interface

Devices connected to a local LAN transmitter are remotely controllable from the Media Control Room.

The unit can operate in different Ethernet modes:

- **DHCP** – Use the unit in a domain that has a DHCP server. The DHCP server assigns the IP address, subnet mask, and default gateway to the equipment. *DHCP is the default configuration mode for Ethernet.*
- **STATIC** – Connect the unit to a domain without using a DHCP server. In this mode, the network administrator must set the Ethernet interface's IP settings (IP address, netmask, and gateway).
- **GATEWAY** – Connect a host to the unit (for instance, a laptop). The unit acts as a DHCP server and assigns an IP address to the connected host. The unit automatically detects from the netmask the range of IP addresses that it can use for assigning an IP address to the host connected.

Factory Settings According to Selected Mode

Interface	MODE	IP Address	Netmask	Gateway
Ethernet 1	DHCP *	Assigned by DHCP server		
	STATIC	192.168.1.10	255.255.255.0	192.168.1.1
Ethernet 2	DHCP *	Assigned by DHCP server		
	STATIC	192.168.20.10	255.255.255.0	192.168.20.1
	GATEWAY	192.168.20.10	255.255.255.0	
	OFF	N/A	N/A	N/A

* Default configuration.

Note

When the OFF option is selected, Ethernet mode is disabled. Configuring an Ethernet interface may disconnect the unit.

See the sections below to configure the Ethernet Interface.

Unit Panel

1. From the **Home** menu, tap  > **ETH** > **Mode**.
2. Tap on a new mode.
3. The selected mode appears:

- When selecting DHCP mode, settings are automatically retrieved.
- When selecting STATIC mode, you need to enter network settings.
- When selecting GATEWAY mode, you need to enter the IP Address, the netmask, and the DNS server address.

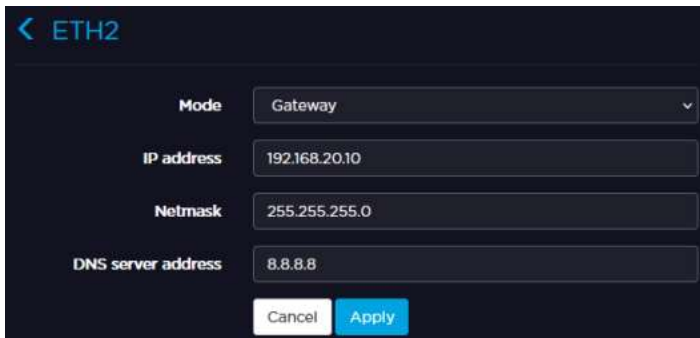
- Tap .
- Tap on settings fields to be modified.
- Use the keyboard to enter new settings and tap  to confirm.
- Tap  to scroll down and tap  to save new settings.

Note

Configuring Ethernet interface may disconnect the unit.

Web Interface

- On the Web Interface, click  on the desired Ethernet line.



- In the **Mode** field, select the configuration mode according to the Ethernet connection used:
 - DHCP
 - STATIC
 - GATEWAY (only for Ethernet 2)
 - OFF (only for Ethernet 2)
- According to the Ethernet connection, modify the settings if required:
 - If Static mode is selected, IP Address, Netmask and Gateway.
 - if Gateway mode is selected, IP Address and Netmask.
- Click **Apply** to save these settings.

Note

Applying new Ethernet settings will disconnect the unit from the web interface.

Configuring a Wi-Fi Interface

The unit can operate either as a Wi-Fi Access Point, or a Wi-Fi Client.

- [Enabling/Disabling the Wi-Fi Interface](#)
- [Configuring a Wi-Fi Access Point](#)
- [Configuring a Wi-Fi Client Interface](#)

Enabling/Disabling the Wi-Fi Interface

Note

By default, the Wi-Fi network is disabled.

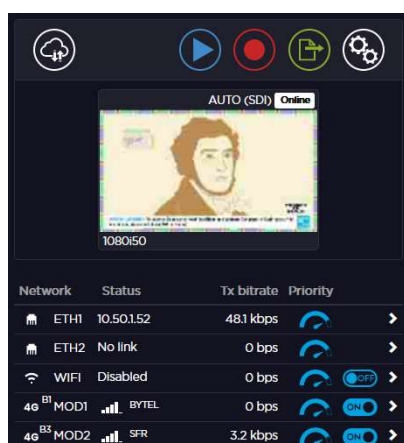
See the sections below to configure the Wi-Fi Interface .

Unit Panel

1. From the **Home** menu, tap  > **WiFi**.
2. Tap the Wi-Fi line to access the settings menu.
3. Tap  to enable the Wi-Fi.
The button turns into  , and the Wi-Fi network is enabled.

Web Interface

- Click  or  on the Wi-Fi line to enable or disable the Wi-Fi network.



Note

If you disable Wi-Fi you may lose the web interface connection.

Configuring a Wi-Fi Access Point

By default, the Wi-Fi network is disabled. Enable it first as described in [Enabling/Disabling the Wi-Fi Interface](#).

When configured in Wi-Fi access point mode, the unit can be controlled remotely from a smartphone, tablet or laptop.

See the sections below to configure the Wi-Fi access point.

Unit Panel

1. From the **Home** menu, tap .
2. Tap the Wi-Fi line to access the Wi-Fi settings menu.
3. Tap the **Mode** field.
4. Select the **Access Point** mode.
5. Tap  to scroll down.
6. Tap .
7. Define the Wi-Fi settings:
 - **Network Name:** (automatically formatted as follows: "Pro_" followed by the unit hardware ID.)
 - **Frequency Band:** 2.4GHz or 5.0GHz.
 - **Channel:** Select the channel used (dynamic list according to the frequency band).
 - 2.4GHz: channel 1 to 11.
 - 5.0GHz: channel 36, 40, 44 and 48.

Note

In Access Point mode, 5GHz band is not available for Armenia, Belarus, Kazakhstan, Kyrgyzstan and Russia.

- **Password:** By default: Password.

8. Tap  and select **ADVANCED+**.
9. Define IP settings (**IP Address**, **Netmask** and **DNS server address**).
10. Tap .

An icon indicates that the Wi-Fi Access Point is configured:



A Wi-Fi Access Point is configured.

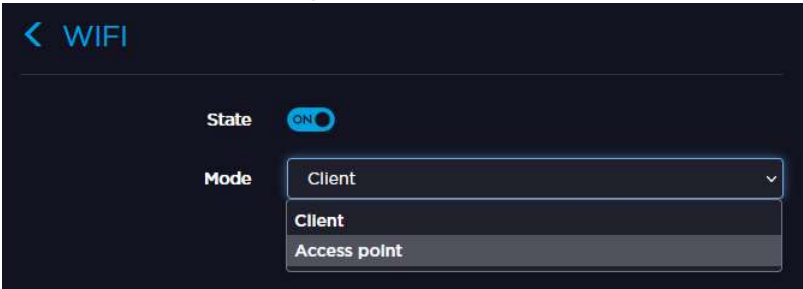


At least one client is connected to the Access Point.

Web Interface

1. Click on the Wi-Fi line to open the Wi-Fi interface.

2. From the **Mode** scrolling list, select **Access Point**.



3. Define the Wi-Fi settings.

- **Network name:** (automatically formatted as follows: "ProductSeries_" followed by the unit hardware ID.)
- **Frequency Band:** 2.4GHz or 5.0GHz.
- **Channel:** Select the channel used (dynamic list according to the frequency band).
 - 2.4GHz: channel 1 to 11.
 - 5.0GHz: channel 36, 40, 44 and 48.

Note

In Access Point mode, 5GHz band is not available for Armenia, Belarus, Kazakhstan, Kyrgyzstan and Russia.

- **Password:** By default: Password. Click on to reset it.
- Enter the **IP Address**, the **Netmask** and the **DNS Server Address**.

4. Click **Apply**.

Network	Status	Tx bitrate	Priority
ETH1	172.30.241.164	9.0 kbps	>
ETH2	No link	0 bps	>
WIFI	192.168.30.10	0 bps	

Configuring a Wi-Fi Client Interface

By default, the Wi-Fi network is disabled. Enable it first as described in [Enabling/Disabling the Wi-Fi Interface](#).

To configure a Wi-Fi Client interface, refer to the following:

- [Scanning for a Wireless Network](#)
- [Manually Adding a Network](#)

Scanning for a Wireless Network

To scan for a wireless network from the Unit Panel, or from the Web Interface, see the sections below.

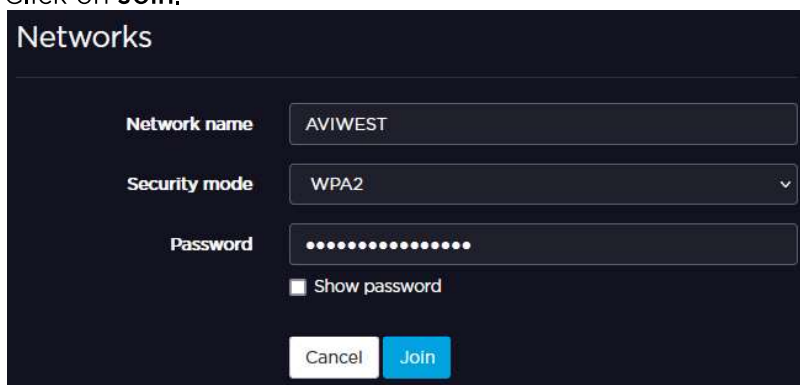
Unit Panel

1. From the **Home** menu, click on > **WiFi** > **Mode** > **Client**.

2. Click on  to scroll down and click on  to scan surrounding networks.
3. Click on  or  to select a network.
4. Click on the network name to select it.
5. Enter the password and click on  to confirm.
6. Click on .

Web Interface

1. From the Web Interface, click  on the Wi-Fi line.
2. From the **Mode** scrolling list, select **Client** mode.
3. Click on **Apply**.
Surrounded networks are scanned and listed.
4. Select the network among the list.
5. Enter the **Password**.
6. Click on **Join**.



Manually Adding a Network

To manually add a network from the Unit Panel, or from the Web Interface, see the sections below.

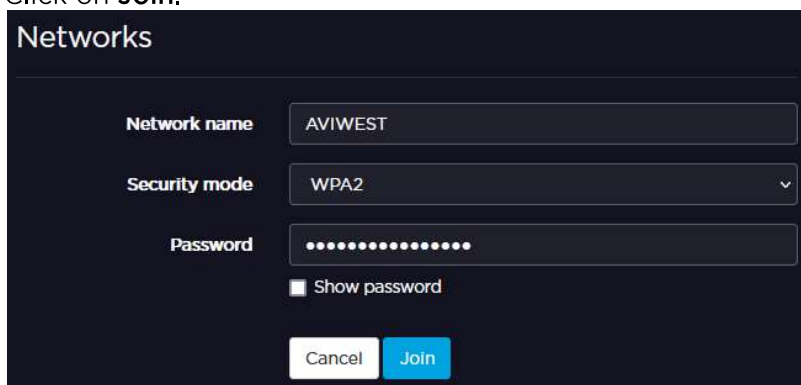
Unit Panel

1. From the **Home** menu, click on  > **WiFi** > **Mode** > **Client** > .
2. Click on  to add a new network.
3. Enter a **Network name**, select a **Security Mode** and enter a **Password**.
4. Enter the network password.
 - Click on  to connect the network.
 - Click on  to save the new network.

Web Interface

1. From the Web Interface, click  on the Wi-Fi line.
2. From the **Mode** scrolling list, select **Client** mode.

3. Click on **Apply**.
4. Click on **Add**.
5. Enter the **Network name**, select a **Security Mode** and enter a **Password**.
6. Click on **Join**.



The screenshot shows a dark-themed dialog box titled "Networks". It contains three input fields: "Network name" with the text "AVIWEST", "Security mode" with a dropdown menu showing "WPA2", and "Password" with a masked field of dots. Below the password field is a checkbox labeled "Show password" which is currently unchecked. At the bottom of the dialog are two buttons: "Cancel" and "Join".

Configuring a Cellular Interface

Topics Include

- [Inserting a SIM Card](#)
- [Connecting a Quad CellLink to the Unit](#)
- [Enabling / Disabling a Cellular Modem](#)
- [Enabling / Disabling All Internal Cellular Modems](#)
- [Enabling / Disabling all Quad CellLink Cellular Modems](#)
- [Enabling / Disabling IPv6 on Cellular Modems](#)

Inserting a SIM Card

To insert a SIM card:

1. Ensure that your SIM card is unlocked.

Note

In some cases, you may need to identify the unit IMEI (International Mobile Equipment Identity). To access this information, please refer to [Getting IMEI, IMSI, and ICCID Numbers](#).

2. Insert the SIM card into a slot in the unit rear panel.

Pro340

- A Pro340 unit is equipped with 4x 3G/4G modems.
- Slots 1 to 4 can be used.



Pro360-5G

- A Pro360-5G unit is equipped with 6x 3G/4G/5G modems.
- Slots 1 to 6 can be used.



Pro380

- A Pro380 unit is equipped with 8x 3G/4G modems.
- Slots 1 to 8 can be used.



Note

When using the unit in the USA, we recommend inserting SIM cards as indicated in the table below

SIM Slot Number	US Operator
1	AT&T
2	T-Mobile
3	Verizon
4	AT&T
5	T-Mobile
6	Verizon
7	AT&T
8	T-Mobile

Connecting a Quad CellLink to the Unit

To connect a Quad CellLink to the unit:

1. On the Quad CellLink, remove the SIM card cover and insert the SIM cards into slots according to indications written on the cover.

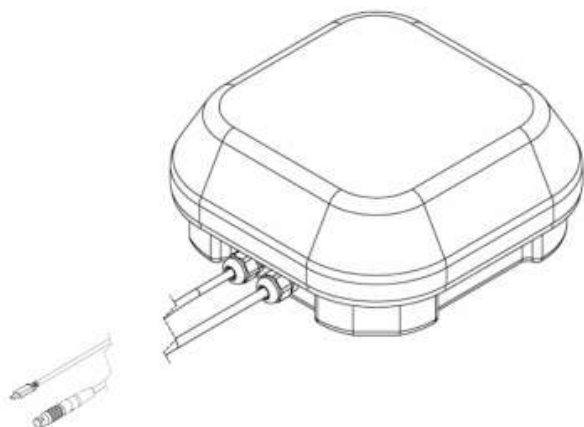
Note

Ensure the SIM cards are already unlocked.

2. Replace the SIM card cover.
3. Connect the AC/DC adapter and the power cable.
4. Connect the USB cable to the unit.

Note

Choose a weather-protected area for this connection to avoid any damage due to ambient humidity or rain.



5. Open the transmitter Web Interface.

Important

The Quad CellLink is automatically detected:

- QUAD-1 means modem #1 from Quad CellLink.
- QUAD-2 means modem #2 from Quad CellLink.
- ...

4G ^{B7}	QUAD2-1	📶	SFR	0 bps	🔄	ON	>
4G ^{B1}	QUAD2-2	📶	Orange F	0 bps	🔄	ON	>
📶	QUAD2-3	📶	SIM missing	0 bps	🔄	ON	>
📶	QUAD2-4	📶	SIM missing	0 bps	🔄	ON	>

Note

You can connect up to two Quad CellLinks to the transmitter.

Enabling / Disabling a Cellular Modem

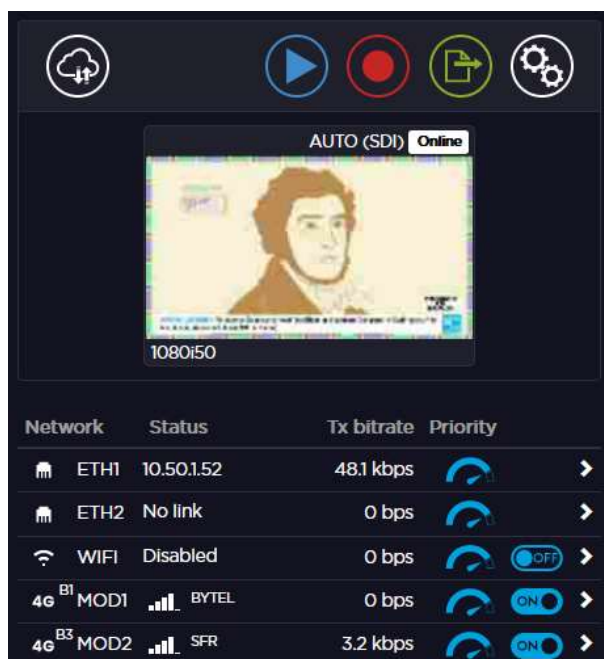
To enable or disable a cellular modem from the Unit Panel, or from the Web Interface, see the sections below.

Unit Panel

1. From the **Home** menu, click on .
2. Click  to select the modem that you want to enable or disable.
3. Click on the modem to be enabled or disabled.
4. Click  to enable the modem or on  to disable it.

Web Interface

- From the web homescreen, click  or  to enable or disable a modem.



Enabling / Disabling All Internal Cellular Modems

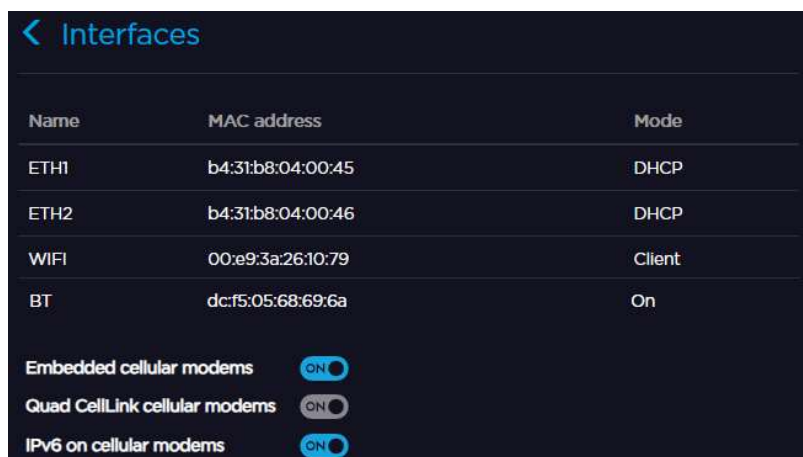
You can enable and disable all internal cellular modems either from the Unit Panel or from the Web Interface.

Unit Panel

1. From the **Home** menu, click on
2. Click on and on
3. In the **Embedded cellular modems** field, click on an to enable or disable all internal modems.

Web Interface

1. From the Web Interface, click **Network > Interfaces**.
2. In the **Embedded cellular modems** field, click or to enable or disable embedded modems.



Enabling / Disabling all Quad CellLink Cellular Modems

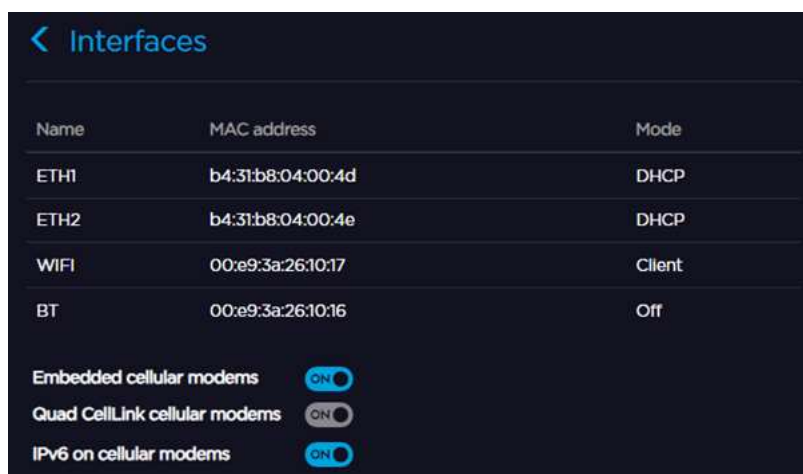
To disable all QUAD CellLink modems, see the sections below.

Unit Panel

1. From the **Home** menu, click on  > .
2. In the **QUAD CellLink cellular modems** field, click on  or  to enable or disable all Quad CellLink modems.

Web Interface

1. From the Web Interface, click **Network > Interfaces**.
2. In the **QUAD CellLink cellular modems** field, click  or  to enable or disable embedded modems.



Enabling / Disabling IPv6 on Cellular Modems

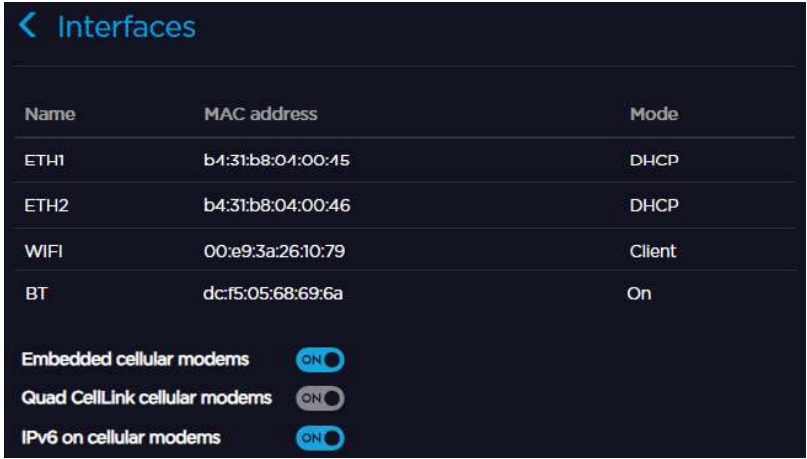
You can enable and disable IPv6 on cellular modems either from the Unit Panel or from the Web Interface.

Unit Panel

- 1. From the **Home** menu, click on  > .
- 2. In the **IPv6 cellular modems** field, click on  an  to enable or disable IPv6.

Web Interface

- 1. From the Web Interface, click **Network** > **Interfaces**.
- 2. In the **IPv6 cellular modems** field, click  or  to enable or disable IPv6.



Enabling / Disabling Bluetooth

External audio inputs can be added via Bluetooth to be used with the intercom. For more information on the intercom, see [Using the Intercom](#).

To enable or disable a cellular modem from the Unit Panel, or from the Web Interface, see the sections below.

Unit Panel

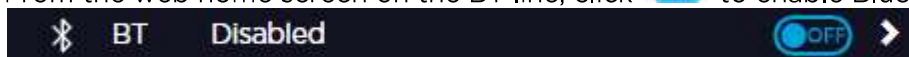
1. From the **Home** menu, tap  > **BT**.
2. Tap  to enable Bluetooth.

Once Bluetooth is enabled, you can:

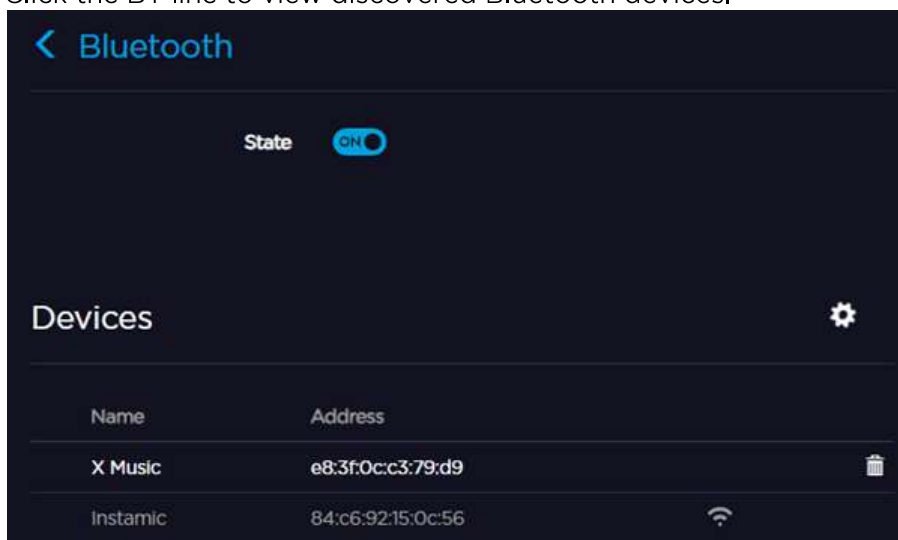
- Tap  to display all nearby devices and tap on the device to be paired.
- Tap  to display previously paired devices and tap on the device you wish to pair with.

Web Interface

1. From the web home screen on the BT line, click  to enable Bluetooth.



2. Click the BT line to view discovered Bluetooth devices.



3. Click a device to connect to it. Or, click the  icon to forget a device.

Managing the APN Database

The unit is delivered with a pre-defined Access Point Name (APN) database. You can modify the database from the Web Interface.

Topics include:

- [Adding an APN to the Database](#)
- [Configuring a New APN](#)
- [Selecting a Predefined APN](#)
- [Deleting an APN](#)
- [Enabling / Disabling the Automatic APN Configuration](#)

Adding an APN to the Database

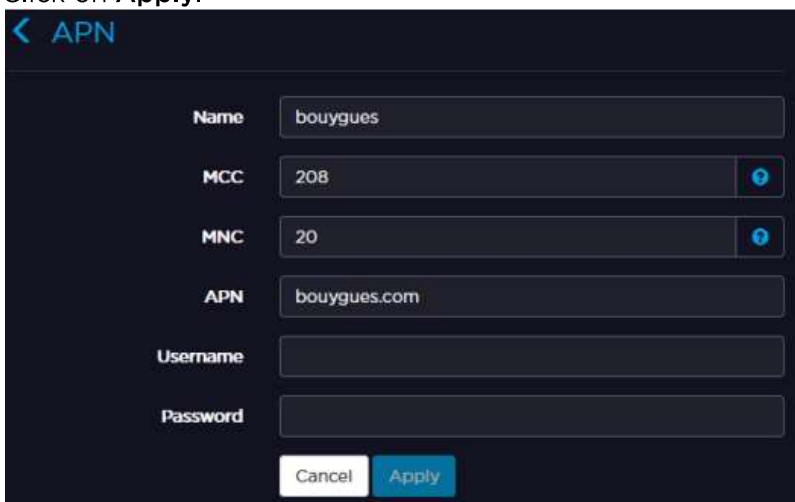
Add and configure new APN settings to suit your requirements, so that they can be easily selected from the list.

1. From the web interface, click **Network > APN**.
2. Click **Add**.
3. Enter a **Name**.
4. Fill in the parameters fields (**MCC**, **MNC**, and **APN**).

Note

Click on  to get help if required.

5. Enter a **Username** and a **Password** if required.
6. Click on **Apply**.



The new APN appears in the APN database, and you can select it from the scrolling list when configuring a cellular interface operating within the same network.

Configuring a New APN

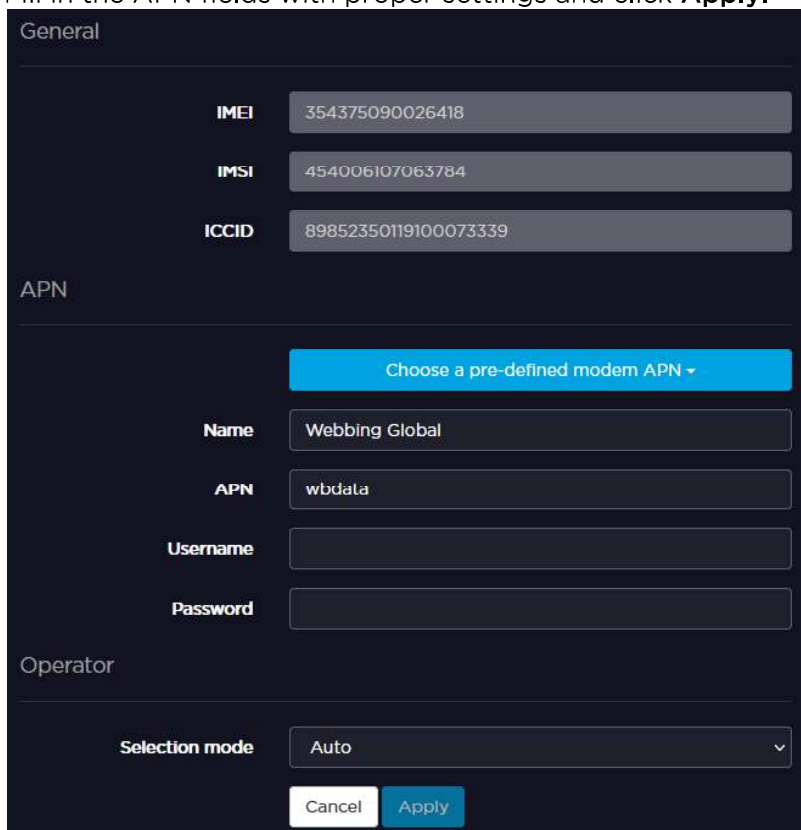
To configure a new APN from the Unit Panel, or from the Web Interface, see the sections below.

Unit Panel

1. From the **Home** menu, click on  > **MOD** > .
2. Enter a name for the new APN, a username and a password if required.
3. Click on  to save.

Web Interface

1. From the Home menu, click on an active modem.
2. Fill in the APN fields with proper settings and click **Apply**.



The screenshot shows the 'General' tab of the APN configuration interface. It contains the following fields and controls:

- General** section:
 - IMEI**: 354375090026418
 - IMSI**: 454006107063784
 - ICCID**: 89852350119100073339
- APN** section:
 - A blue button: **Choose a pre-defined modem APN ▾**
 - Name**: Webbing Global
 - APN**: wbdta
 - Username**: (empty field)
 - Password**: (empty field)
- Operator** section:
 - Selection mode**: Auto (dropdown menu)
 - Buttons**: Cancel and Apply

Selecting a Predefined APN

If the SIM card operator is registered in the unit's database, the unit automatically assigns a name and an APN.

If the APN assigned is not relevant, you can select another one within a predefined list, or configure a new one.

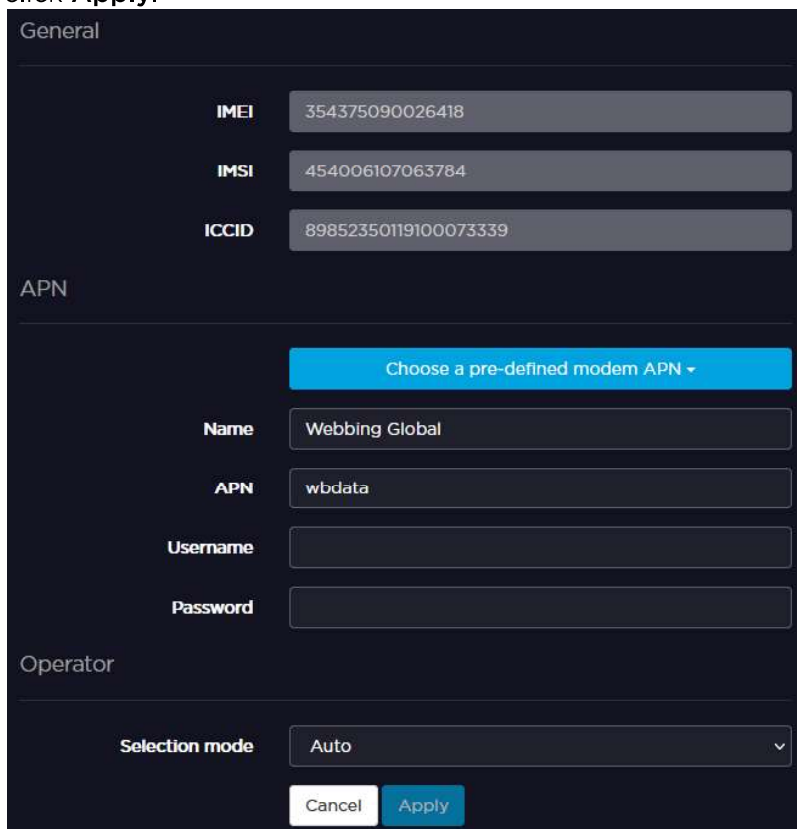
See the sections below.

Unit Panel

1. From the **Home** menu, click on  > **MOD** >  > .
2. Use the arrows to browse APNs and press the screen to select one.
3. Enter the password and click on .

Web Interface

1. From the **Home** menu, click on an active modem.
2. Click on **Choose a pre-defined modem APN** and select the expected APN from the list, then click **Apply**.



General

IMEI 354375090026418

IMSI 454006107063784

ICCID 89852350119100073339

APN

Choose a pre-defined modem APN

Name Webbing Global

APN wbdata

Username

Password

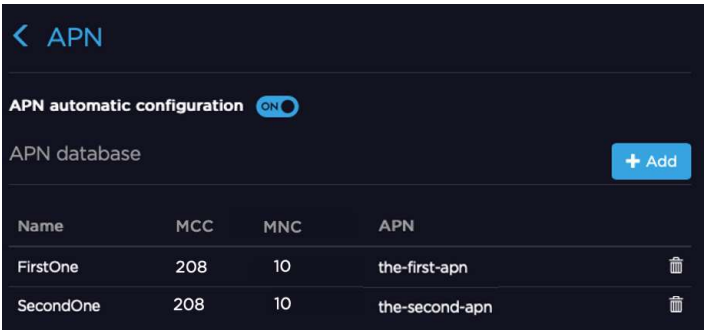
Operator

Selection mode Auto

Cancel Apply

Deleting an APN

1. In the web interface, click on **Network** > **APN**.
2. Double click on the trash button .



Enabling / Disabling the Automatic APN Configuration

When **APN Automatic Configuration** is enabled, an APN is automatically assigned when a new SIM card is inserted.

- 1. From the Web Interface, click on **Network > APN**.

Important
By default, the **APN Automatic Configuration** is enabled.

- 2. Click / to toggle between enable/disable.



Configuring a BGAN Profile

By default, the unit does not have any Broadband Global Area Network (BGAN) profile. You must create and configure a BGAN profile before selecting it in a Live profile or a Forward configuration. See [Adding and Configuring a Live Profile](#) and [Configuring a Forward Settings](#).

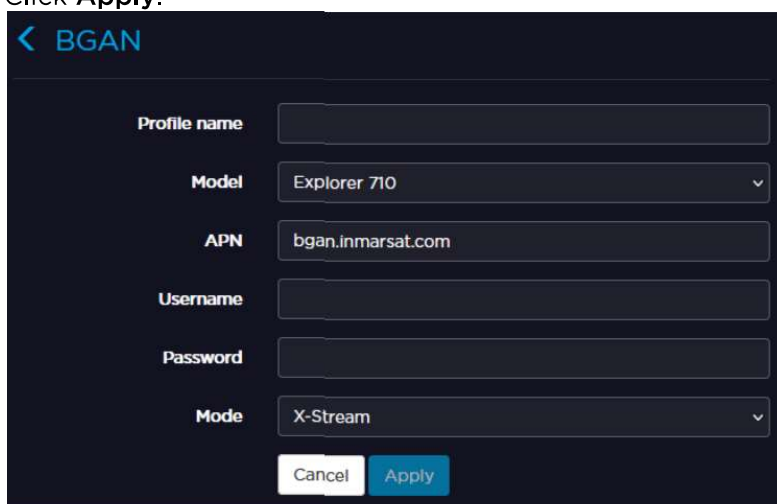
See the sections below.

Unit Panel

1. From the Home menu, click on  >  >  .
2. Fill in the settings:
 - **Profile Name**
 - **Model:** Hughes 9201, Hughes 9211, Explorer 710.
 - **APN.**
3. Enter a **Username** and a **Password** (if required).
4. Select a **Mode:** X-Stream, Background, HDR Full-Asymmetric, HDR Full-Symmetric.
5. Click on  to save the BGAN profile.

Web Interface

1. From the Web Interface, click **Network** > **BGAN**.
2. Click .
3. Fill in the settings: **Profile Name**, **Model**, **APN**.
4. Enter a **Username** and a **Password** if required.
5. Choose a **Mode** in the drop-down list.
6. Click **Apply**.



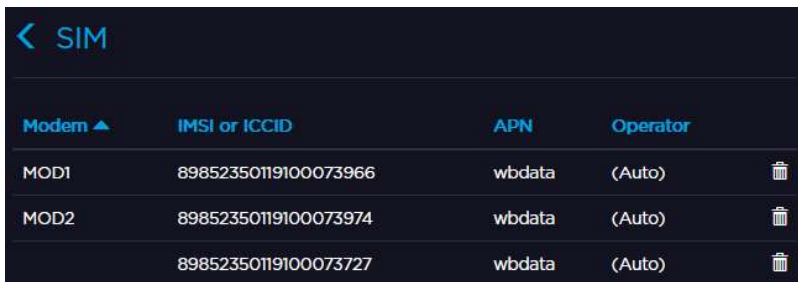
Managing Cellular Operators

For each SIM card, you can decide how to manage the selection of the cellular operator. You have three possibilities:

- **Automatic mode:** The unit selects the operator by itself.
- **Manual Selection:** This mode is selected from the Web Interface. It allows manually entering the MCC and the MNC of the operator that you want to use.
- **Scan and Select:** You select among a list of operators detected by scanning available networks.

Note

From the Web Interface, click on **Network > SIM** to have an overview of your SIM Cards. Sort the SIM Cards by clicking on the column heading.



Modem ▲	IMSI or ICCID	APN	Operator	
MOD1	89852350119100073966	wbdata	(Auto)	
MOD2	89852350119100073974	wbdata	(Auto)	
	89852350119100073727	wbdata	(Auto)	

Topics Include

- [Selecting Automatic Mode](#)
- [Selecting a Cellular Operator](#)
- [Manually Selecting a Cellular Operator](#)
- [Configuring Modem Bands](#)

Selecting Automatic Mode

Note

Automatic Mode is the default setting.

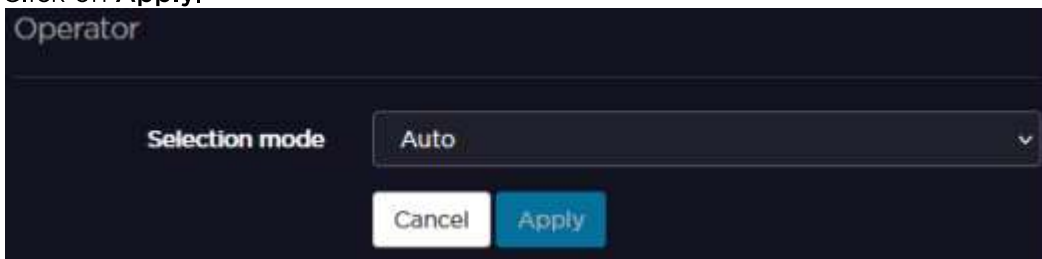
To select automatic mode from the Unit Panel, or from the Web Interface, see the sections below.

Unit Panel

1. From the **Home** menu, click .
2. Click  to scroll down to the modem to be configured.
3. Click the modem line to enter the **MOD. CONFIG** menu.
4. Click .
5. Click the **Operator** field.
6. Click  to enable Automatic Mode.

Web Interface

1. From the **Home** screen, click on a modem line.
2. In the **Selection mode** scrolling list, select **Auto**.
3. Click on **Apply**.



Selecting a Cellular Operator

To select a cellular operator from the Unit Panel, or from the Web Interface, see the sections below.

Unit Panel

1. From the **Home** menu, click on  > **MOD** >  > **Operator**.
2. Set the toggle button to  to disable Automatic mode. A scan for available operators starts. It may take a few minutes.
3. Click on the desired operator.

Note

Only white operators in the list can be selected.

4. Click on  to save.

Web Interface

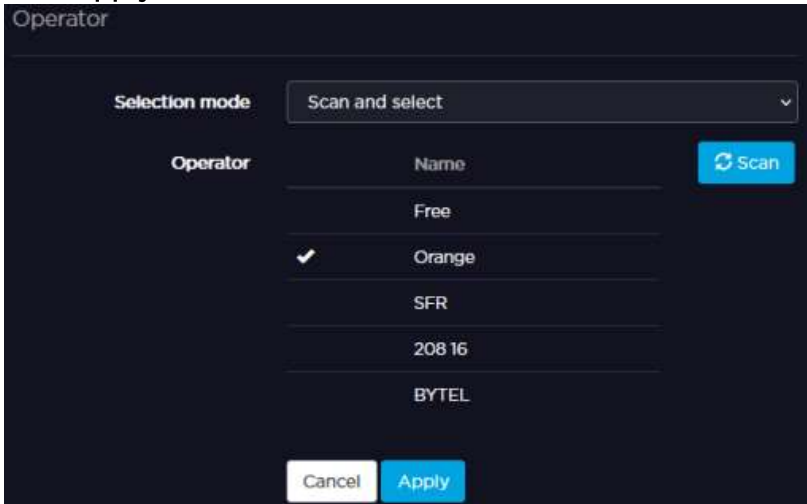
1. From the **Home** screen, click on a modem line.
2. In the **Selection mode** scrolling list, select **Scan and select**.
3. Select the desired operator from the list.



Note

Only white operators in the list can be selected.

4. Click **Apply**.



Manually Selecting a Cellular Operator

The option to set the MCC (Mobile Country Code) and MNC (Mobile Network Code) manually is only available on the Web Interface.

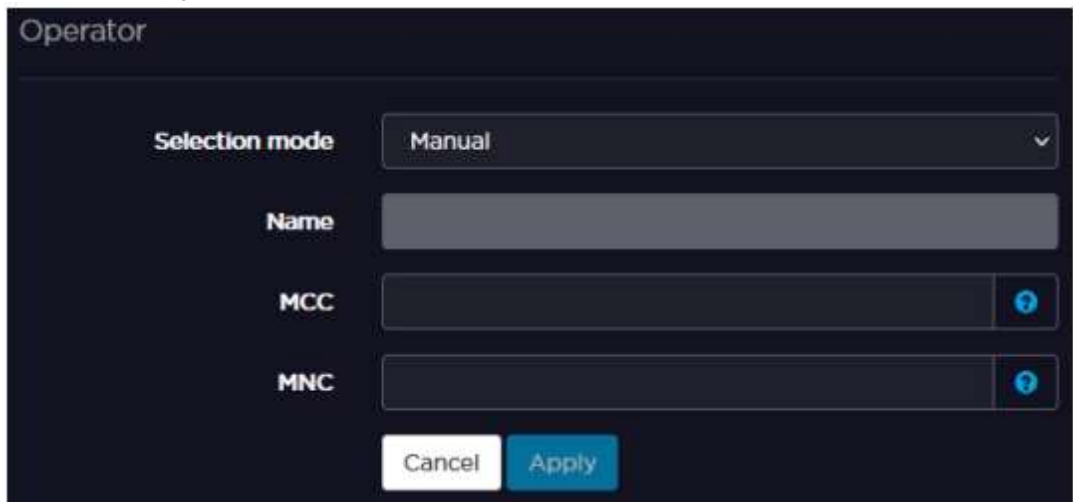
- 1. From the **Home** screen, click on the modem line.
- 2. Select **Manual** in the **Selection mode** scrolling list.
- 3. Fill the **MCC** and **MNC** fields.



Note

You can click on  to access the lists of MCC and MNC.

4. Click on **Apply**.



Configuring Modem Bands

Important

If modem bands are not set in automatic mode or if they are not all selected, a star is displayed on the modem line.

You can configure modem bands using:

- **Standard Mode** – keeps it simple by limiting required fields to Network Mode and Preset.
- **Expert Mode** – gives you access to all bands.

Depending on whether you are working locally from the unit panel, or remotely from the web interface, choose from the following tabs.

Using Standard Mode

Unit Panel

1. From the **Home** menu, click on  > **MOD** >  > **Frequency Bands**.
2. Choose one of the following for the **Network Mode**:
 - Auto
 - 5G/4G
 - 5G Only
 - 4G Only
 - 3G Only

Note

5G/4G and 5G Only are available on Pro360-5G model.
For 5G networks operating in Non-Standalone mode (NSA), select 5G/4G settings.

3. Click on the **Preset** field and choose either:
 - All Bands
 - Low Frequency

Note

Low Frequency bands are useful for indoor operations.

4. Click on the **Carrier** field to select an image in the list.

Using Expert Mode

Unit Panel

1. From the **Home** menu, click on  > **MOD** >  > **Frequency Bands**.
2. Click on  to enable the **Expert Mode**. All bands are displayed on the screen.
3. Click on  to unselect the different cellular bands. The green dots turn to grey.
4. Click on  to save.

Web Interface

1. From the main screen, click on an active modem line.
2. Click on the **Modem** tab.
3. Click  to enable **Expert Mode**. All the cellular bands appear on the screen.
4. Click  to unselect the different cellular bands. The green dots turn to grey ().
5. Click **Apply**.



Note

Pro360-5G only: Selecting the carrier-specific firmware may be mandatory to comply with some local regulations (e.g. Japan). In common cases, you should always keep the generic firmware selected. Should you have any doubt, please contact our support team.

Web Interface

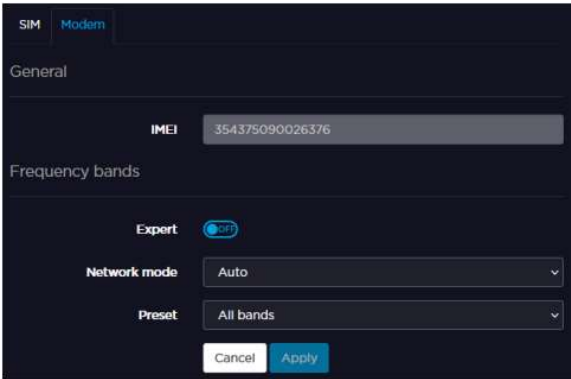
1. From the main screen, click on an active modem line.
2. Click on the **Modem** tab.
3. Choose one of the following from the **Network Mode** menu:
 - Auto
 - 4G Only
 - 3G Only
4. Click on the **Preset** field and choose either:
 - All Bands
 - Low Frequency



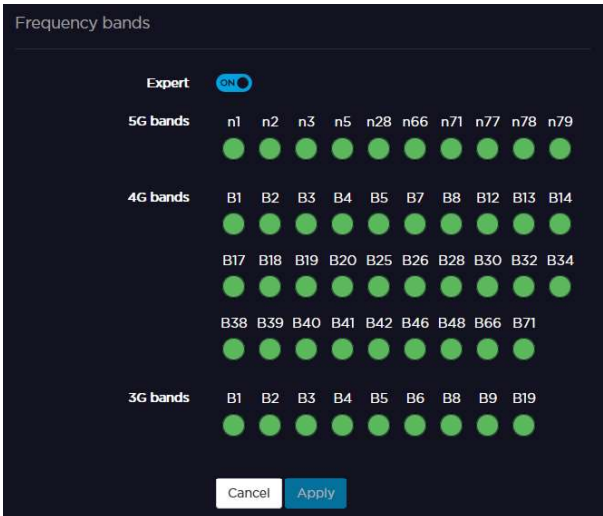
Note

Low Frequency bands are useful for indoor operations.

5. Click **Apply**.



Please refer to the Notes in the **Unit Panel** section.





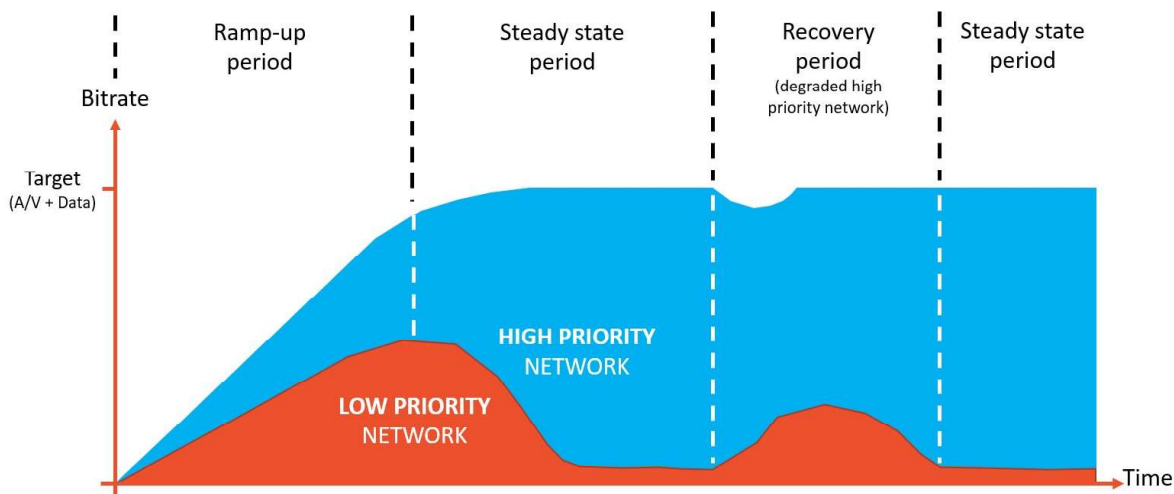
Note

5G modem bands are available for Pro360-5G only. Selecting the carrier-specific firmware may be mandatory to comply with some local regulations (e.g. Japan). In common cases, you should always keep the generic firmware selected. Should you have any doubt, please contact our support team.

Managing Priorities of Network Links

You can choose a priority level (High or Low) for each network link used for Live or Forward operations.

These priorities are managed as shown in the diagram below:



For Live

- Both high and low priority links are used as long as the bitrate target set in the Live profile has not been reached.
- When the bitrate target is reached, high priority links are mainly used.

For Forward

- Both high and low priority links are used as long as the bitrate target is lower than 1Mbps.
- When the bitrate target is lower than, low priority links are mainly used.

By default, each network link is set as a high priority link. This setting can be changed, either from the unit panel or from the Web Interface, before starting an operation or while the operation is in progress:

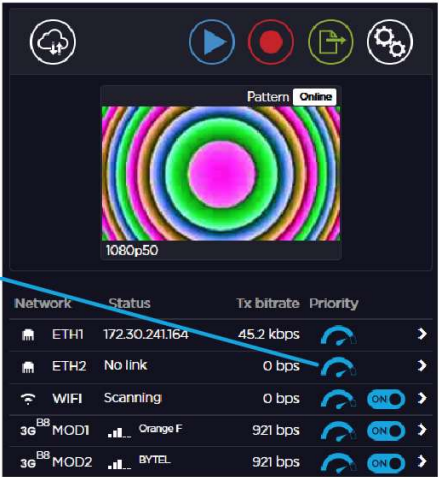
- **Unit panel:** Select the priority level when configuring network links (see [Configuring an Ethernet Interface](#)).
- **Web interface:** Click on the gauge icon to select High () or Low () priority.



High priority link

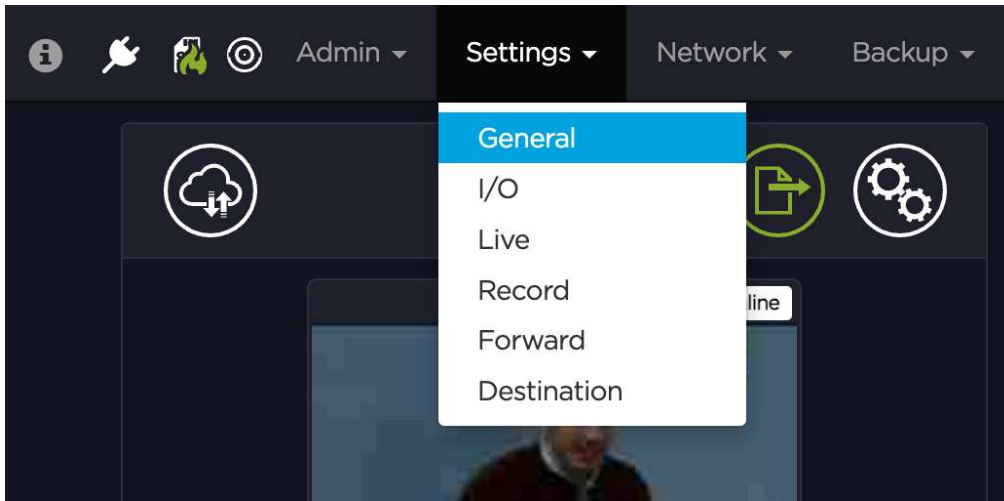


Low priority link



Configuration

The following topics are related to the various pages in the Settings menu.



Topics Include

Configuring the Unit Name

Giving a significant name to the unit allows you to identify it easily on a StreamHub interface.

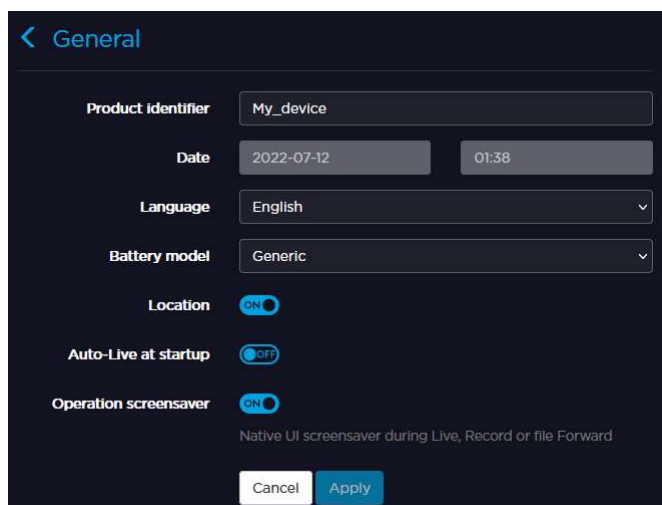
To configure the unit name from the Unit Panel, or from the Web Interface, see the sections below.

Unit Panel

1. From the **Home** menu, tap  >  > **General** > **Product Identifier**.
2. Use the keyboard to enter an ID and tap  to confirm.

Web Interface

1. From the main screen, click **Settings** > **General**.
2. In the **Product Identifier** field, enter an ID (up to 15 characters).
3. Click **Apply**.



Configuring the Time and Date

To configure the time and date from the Unit Panel, or from the Web Interface, see the sections below.

Unit Panel

1. From the **Home** menu, tap  >  > **General** > **Date**.
2. (Optional) Enable the **Use NTP** toggle and enter an **NTP Server** address in the field below.



Tip

After entering the address of the NTP server you wish to use, click the **Test** button to ensure you can connect to it.

3. Set the date and time and tap  to confirm.



Note

The Date and Time format is set to: YYYY-MM-DD HH:MM,

Web Interface

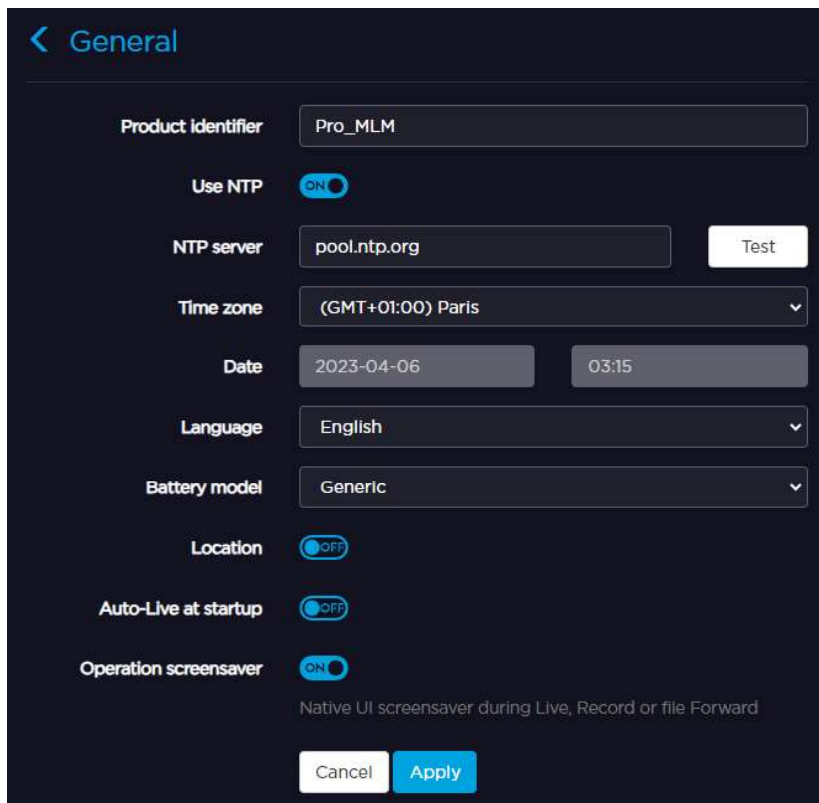
1. From the main screen, click **Settings** > **General**.
2. Click the **Date** and/or **Time** field to change it as required.
3. (Optional) Enable the **Use NTP** toggle and enter an **NTP Server** address in the field below.



Tip

After entering the address of the NTP server you wish to use, click the **Test** button to ensure you can connect to it.

4. Select the desired **Time Zone** from the drop-down list.
5. Click **Apply**.



Selecting the Language

Supported languages are English, French, Spanish, Portuguese, and Chinese.

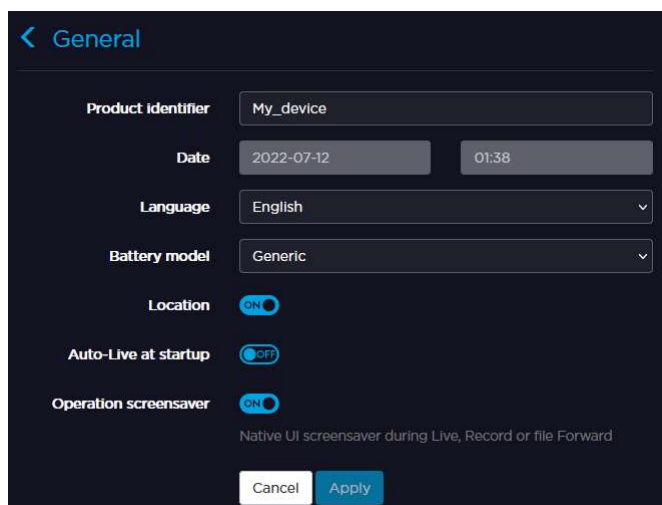
To select the language from the Unit Panel, or from the Web Interface, see the sections below.

Unit Panel

1. From the **Home** menu, tap  >  > **General** > **Language**.
2. Tap the desired language.

Web Interface

1. From the main screen, click **Settings** > **General**.
2. In the **Language** drop down list, select the desired language.
3. Click **Apply**.



Selecting the Battery Model

To select the battery model from the Unit Panel, or from the Web Interface, see the sections below.

Unit Panel

1. From the **Home** menu, tap  >  > **General** > **Battery model**.
2. Select your battery from the list.

Note

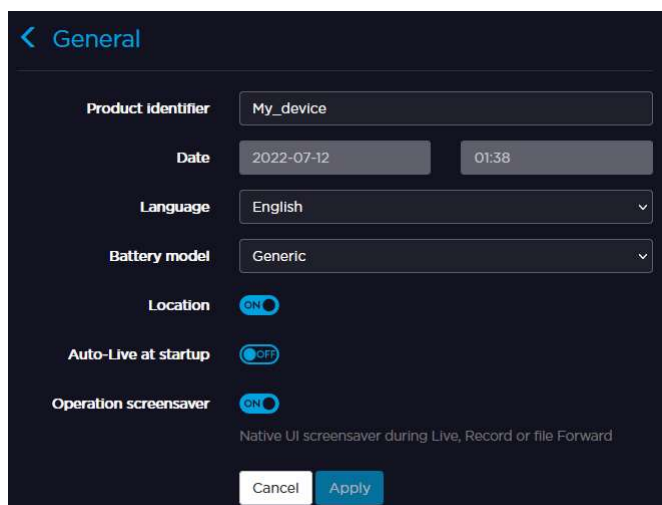
If the battery used is not listed, select **Generic**.

Web Interface

1. From the main screen, click **Settings** > **General**.
2. In the **Battery model** dropdown list, select your battery.

Note

If the battery used is not listed, select **Generic**.



Enabling / Disabling the Unit Location

You can enable or disable the unit location to allow, or prevent, the Manager application to locate the unit.

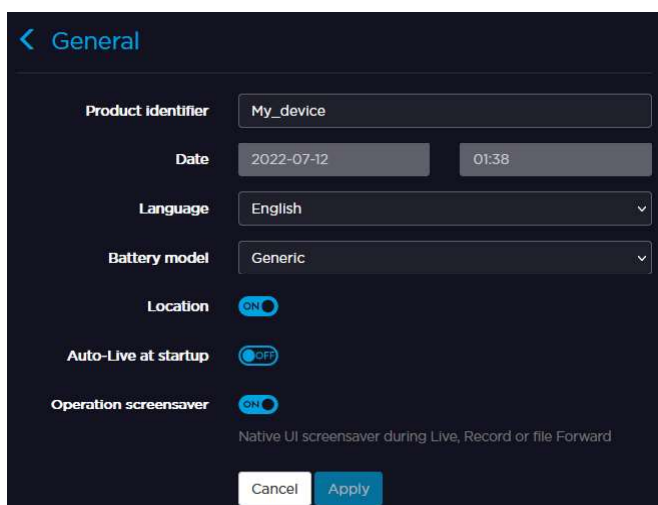
To enable or disable unit location from the Unit Panel, or from the Web Interface, see the sections below.

Unit Panel

1. From the **Home** menu, tap  >  > **General** > **Location**.
2. Tap  or  to enable or disable the unit location.

Web Interface

1. From the main screen, click **Settings** > **General**.
2. Click the **Location** toggle button to enable or disable the unit location.



 You can access this menu by clicking the Location icon on the top bar of the screen.



Enabling / Disabling Auto-Live at Startup

This option allows you to start a Live automatically once the unit is connected to a StreamHub or a Manager and once there is a video source (Pattern, SDI or HDMI).

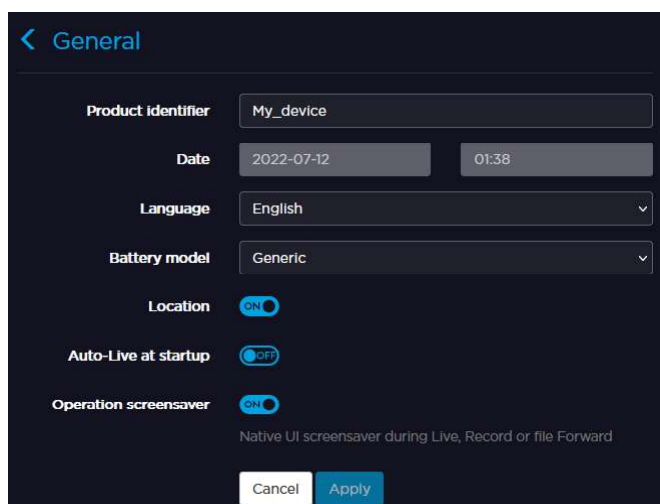
To enable or disable Auto-Live at startup from the Unit Panel, or from the Web Interface, see the sections below.

Unit Panel

1. From the **Home** menu, click on  >  > **General** > **Auto-Live at Startup**.
2. Click on  or  to enable or disable Auto-Live at Startup.

Web Interface

1. From the main screen, click on **Settings** > **General**.
2. Click the **Auto-Live at Startup** toggle button to enable or disable Auto-Live at Startup.



Enabling / Disabling Screensaver

This option allows to display a screensaver during a Live, a Record or a Forward.

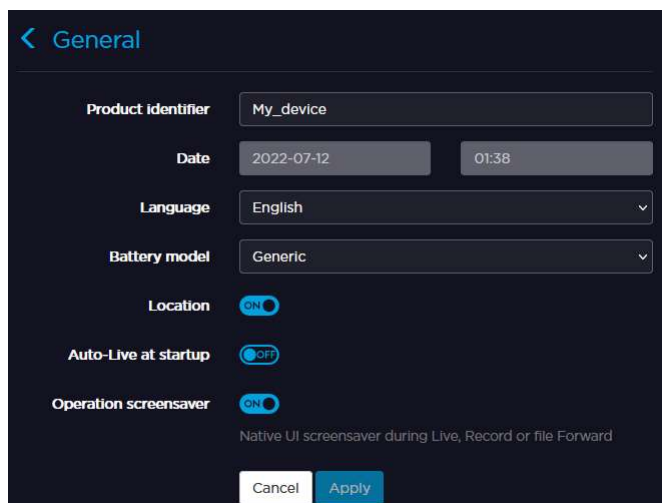
To enable or disable a screensaver from the Unit Panel, or from the Web Interface, see the sections below.

Unit Panel

1. From the **Home** menu, tap  >  > **General** > **Operation Screensaver**.
2. Tap  or  to enable or disable the screensaver.

Web Interface

1. From the main screen, click **Settings > General**.
2. Click the **Operation Screensaver** toggle button to enable or disable the screensaver.



Selecting the Video Source

You can select amongst:

- Auto
- SDI input
- HDMI input - SD (PAL/NTSC) standard is not supported
- Pattern (Internal Pattern Generator)

Note

- When selecting the Pattern generator as the source, you can select a specific pattern to be generated. The pattern options are: color circles, color bars or a black pattern.
- You can also select one of the following standards: NTSC, PAL, 720p50, 720p59.84, 720p60, 1080p25, 1080p29.97, 1080i59.94, 1080i60, 1080p50, 1080p59.94 and 1080p60.
- When the Auto mode is selected (default mode), the following rules are applied:

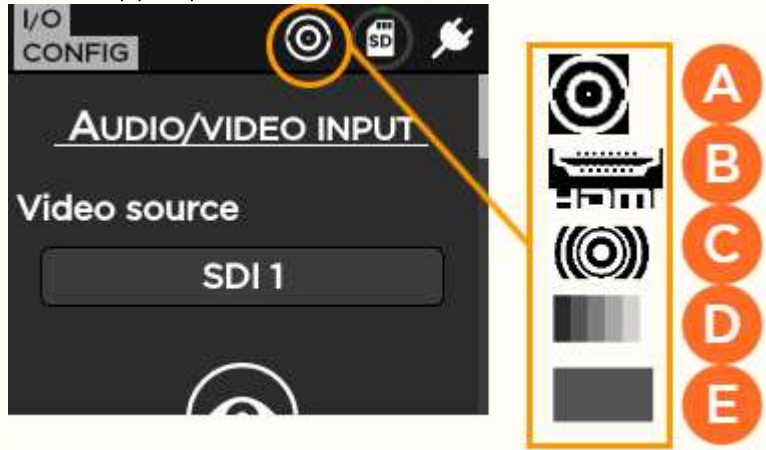
SDI Input Presence	HDMI Input Presence	Selected Input
Yes	No	SDI
No	Yes	HDMI
Yes	Yes	SDI

Unit Panel

1. From the **Home** menu, tap  >  > **Video Source**.
2. Select the expected source.

Note

When selecting **Pattern**, the **Pattern Shape** and the **Pattern Standard** fields appear. On the upper part of the screen, an icon indicates the selected source:



-  SDI
-  HDMI
-  Color circles pattern
-  Color bars pattern
-  Black pattern

You can preview the selected video source.

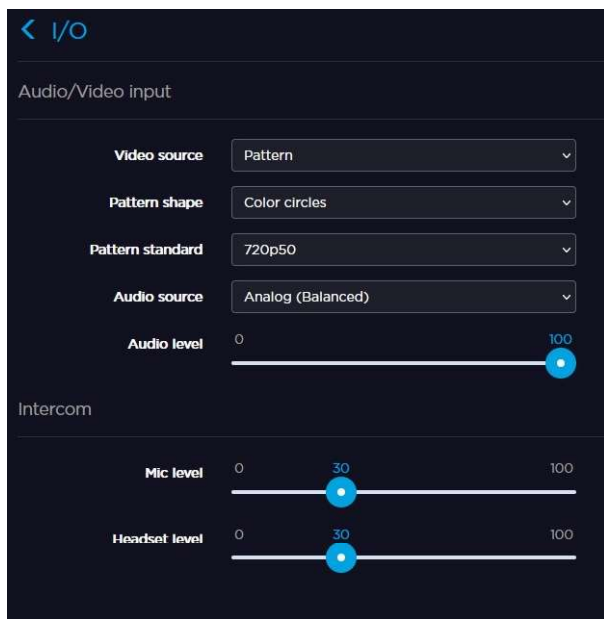
3. Tap  to preview the video.

Web Interface

1. From the Web Interface, click **Settings > I/O**.
2. From the Video Source dropdown, select the source.

Note

- If you select **Pattern**, define the shape and the resolution to be used.
- If you select **SDI**, **HDMI**, or **Auto**, the video resolution is automatically detected.



Selecting the Audio Source

You can select amongst two options:

- From Video – When using the SDI or HDMI inputs , the audio is embedded in the video source.
- Analog (Balanced) – The analog audio inputs  are used to connect to an analog audio source.



Unit Panel

1. From the **Home** menu, tap > .
2. Tap . The current source is displayed.
3. Tap the **Audio source** field to select another source.
4. Select the expected source.
5. Tap or to adjust the analog input level.

Note

- 0% is for audio muted.
- 100% is for the max applicable gain.

Web Interface

1. From the Web Interface, click **Settings > I/O**.
2. From the scrolling list, select the audio source amongst 2 options: