

User Manual

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ACHX App

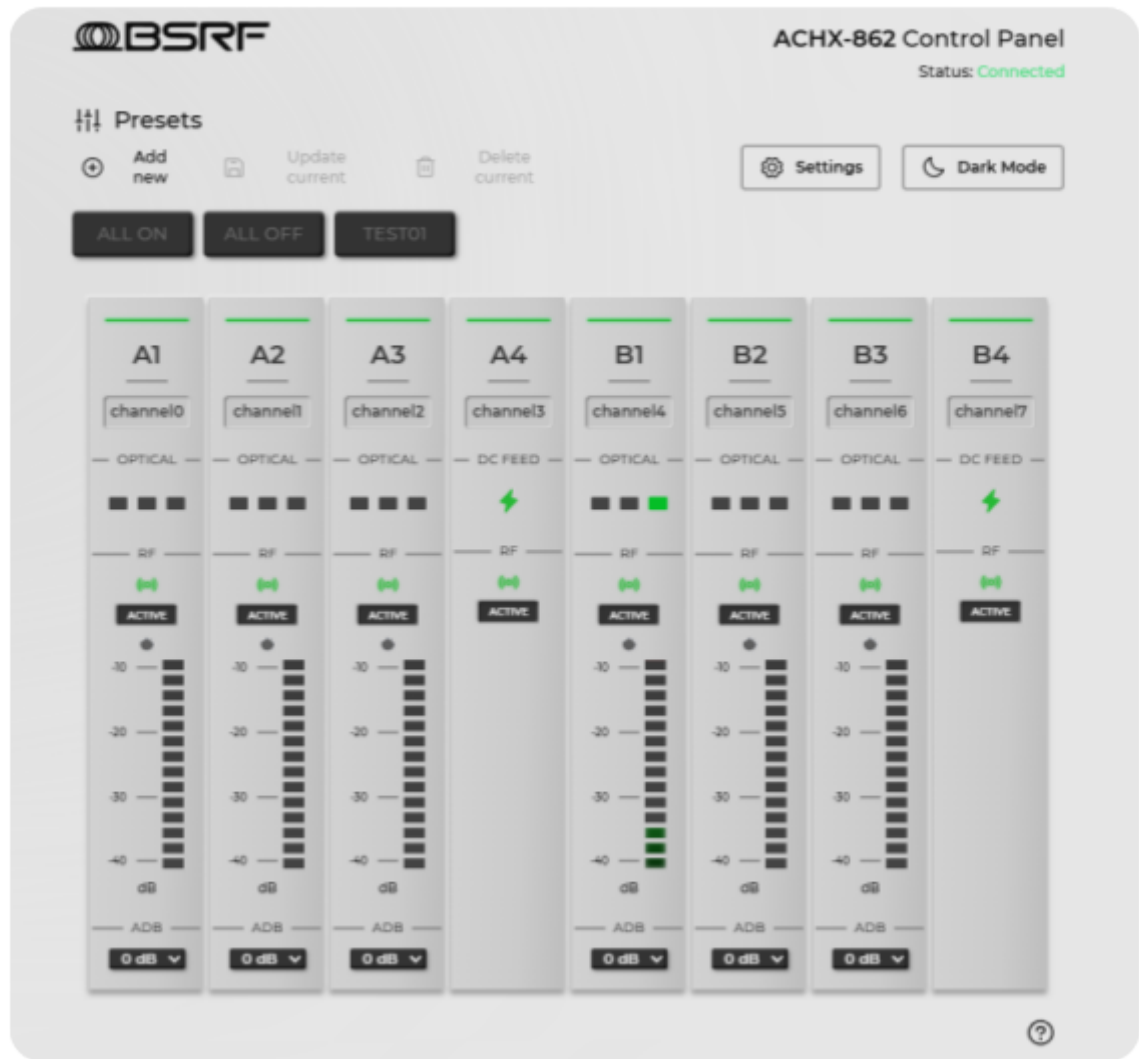




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Introduction

The **BSRF ACHX** web interface is a management and configuration application for BSRF's ACHX devices. It allows you to control and monitor RF and optical channels, manage presets, and configure network and system parameters.

Key Interface Features

Channel Control (Faders)

- **Individual management:** Each channel has its own dedicated controls
- **Real-time monitoring:** Visual indicators for RF and optical levels
- **Reorganization:** Drag & drop interface to rearrange channels

Monitoring & Metrics

- **Peak indicators:** Warning LEDs for critical RF levels (-15 dB and above)
- **RF meters:** Graphical display of RF levels from -40 to -10 dB
- **Optical meters:** Monitoring of optical signals
- **Status indicators:** Colored outlines (green = active, red = inactive)

Power Management (DC Feed)

- **DC Feed:** Per-channel DC power control
- **Multiple states:** OFF / ON / CC (Current Limitation)
- **Visual indicators:** Lightning icons with state-dependent colors

Configuration & Settings

- **ADB Attenuation:** Adjustable from 0 to -20 dB per channel
- **Presets:** Save and restore complete configurations
- **Network settings:** Configure IP, DHCP, and gateway



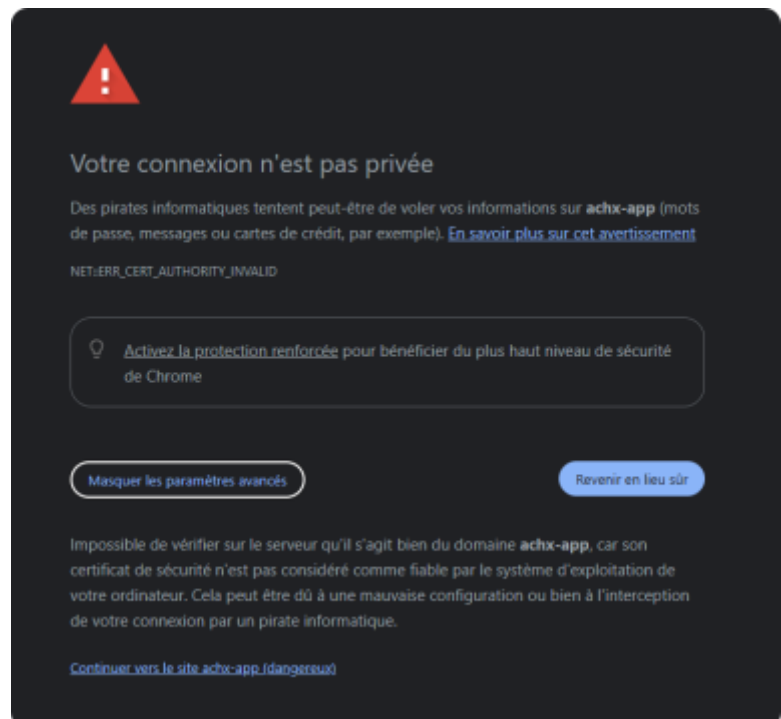
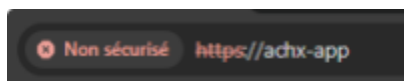
Prerequisites

- Compatible web browser :
 - All chrome base browsers (Google Chrome, Brave...)
 - Firefox
 - Safari
 - Opera
 - Edge
- A local network with DHCP (possibility to specify a fix ip address later, see Settings section)

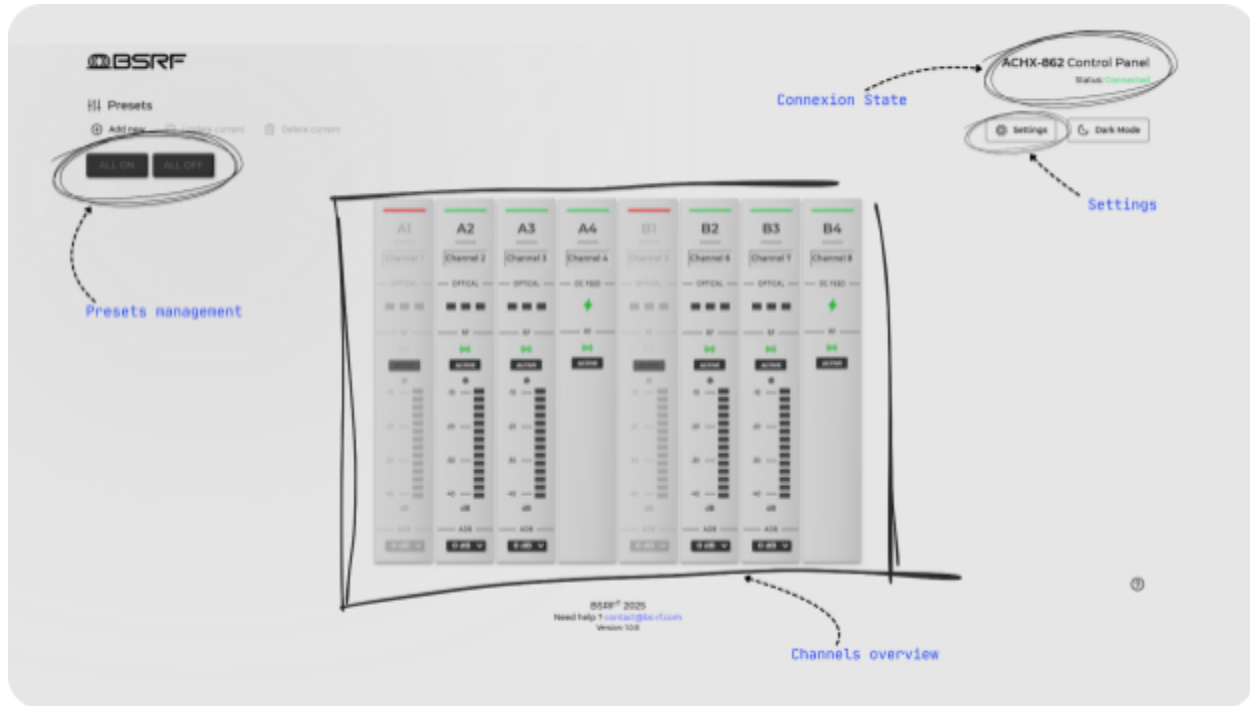
Quick Start

1. Turn on the **ACHX**.
2. Connect the device using an ethernet cable to your local network.
3. Open your web browser and go to the url : <https://achx-app>
4. You can use the **help button** to launch a guided help.

⚠ The first time you will probably see this page. You can safely accept to continue on the app. This message does not impact the security exchange with the ACHX device



Interface



The ACHX app gives you the possibility to monitor all your channels in one place. In the center you have all your channels state. You can interact with the channels, manage some custom configuration via some presets and configure your network settings.

Connection and first access

When your **ACHX device** is connected, you can access the app via the url <https://achx-app>.

The app will load and the main page will be accessible if the connection is successful.

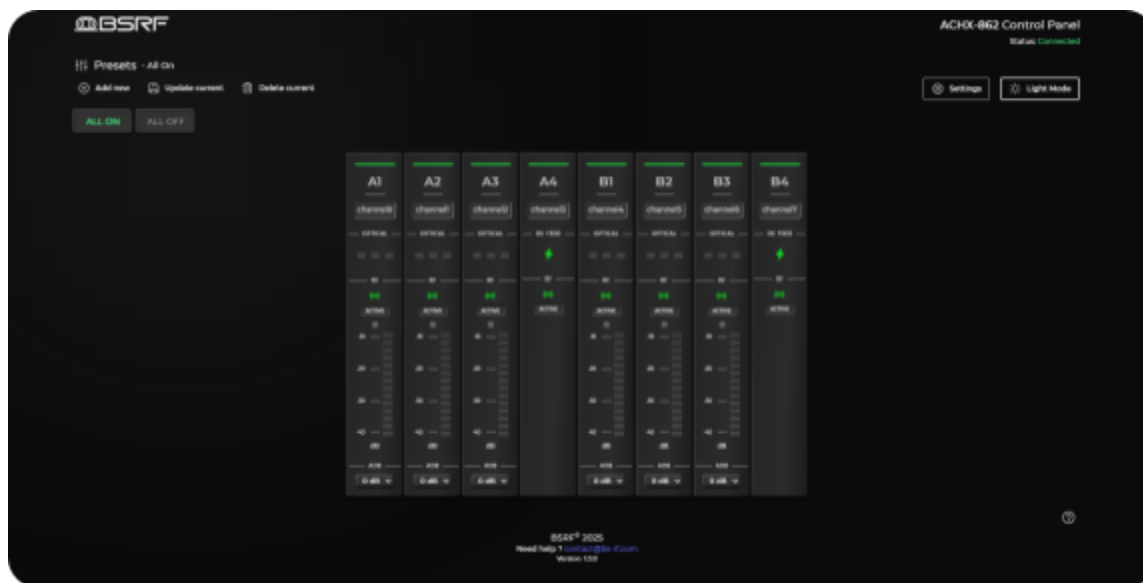
⚠ Only one tab at once can be open to control your ACHX. A message alert will pop if another tab is open

On the top right you will see the connection state and your device model name.

ACHX-862 Control Panel
Status: **Connected**

Dark Mode

You can toggle the Dark / Light Mode button on the top right corner to get a dark interface.



Settings

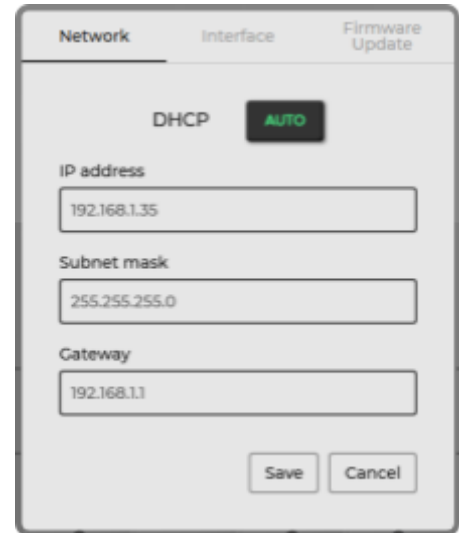
Access the settings via the button on the top right corner.

You will see a popup open with three tabs :

- **Network** : network configuration
- **Interface** : refresh rate
- **Firmware update** : for future firmware update

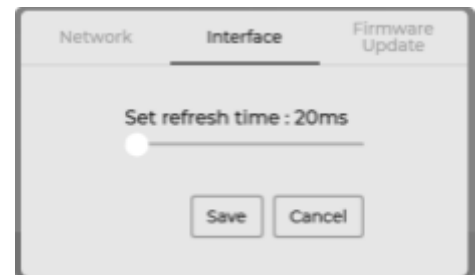
Network

In the network tab, you can configure the DHCP to auto to let your router assign an ip address to the connected device. Or you can configure your own static ip address if needed. Don't forget to restart your device after updating these settings.



Interface

Here you can configure the refresh rate for the monitoring data. You can change it to reduce the network traffic payload.

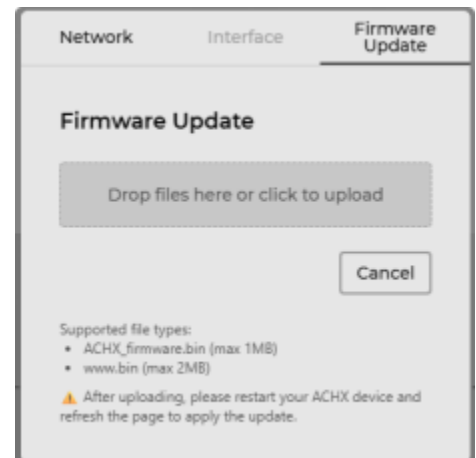


Firmware Update

In this tab you are able to upload the new firmware in the future. Check our website to see if any update is available :

bs-rf.com/support

The update procedure will be detailed on the ACHX Firmware Update page.



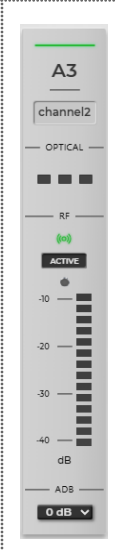
More informations on www.bs-rf.com

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Channels management

There is 2 types of channels , **Optical** and **RF**

Here is the channel controls by type :

 Optical Type • Channel ordering by drag/drop • Channel renaming • Optical state bargraph • Channel On/Off button • RF level vue meter • Attenuation (0 to -20db)	 RF Type • Channel ordering by drag/drop • Channel renaming • DC Feed On/Off • Channel On/Off button
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Depending on your **ACHX model**, the interface will adapt and the channel type is set automatically based on your device configuration.

Common channels settings

Renaming

On each channel you can rename them by clicking in the channel name field.

On/Off and state

You can turn **on** or **off** the channel with the “active button”.

If the channel is on, there will be a green light on the top nor a red light if it is off.

Rearrange channels order

With your mouse you can hover the top part of the channel (near the state light) and drag it to rearrange the channel's order.



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Optical type channel settings

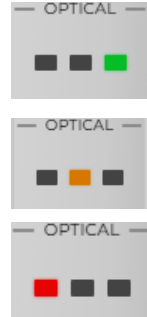
This channel is here to monitor the optical input state and manage this state.

Optical bargraph state

This bargraph show you the state of the optical signal :

- **green**, it's all good
- **orange**, the signal is weak or disturbed
- **red**, the signal don't work correctly

For troubleshootings, you can verify your optical source signal and you can inspect the dirt on the fiber connector and clean it if needed.



Vue Meter

Each optical type channel got a vue meter to visualize the input signal. The range is from -40dB to -10dB. There is a **peak indicator** for signal saturation.



Attenuation control

On the bottom, you can control the attenuation by selecting the amount of reduced dB.

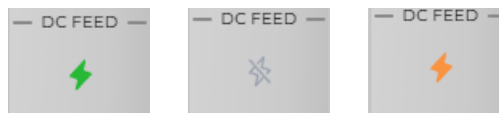


RF type channel settings

There is another type of channel where you can toggle the on/off state or toggle the 12v DCFeed by **clicking on the lighting icon**.

The is three state :

- On
- Off
- Short circuit



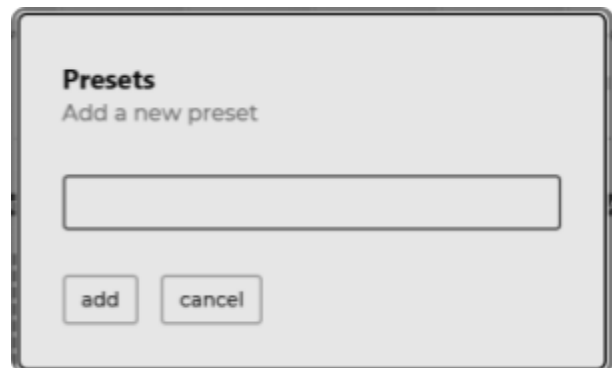
Presets management

In the **ACHX App** you can save your configuration and retrieve them later in the presets management section on the top left of the page.

By default you have two presets. When the preset's button is green, that means the current preset is applied.

Adding a new preset

You can add a new preset to save your current configuration by clicking on the '**Add new**' button in the presets section. A popup will open and permit you to save your current configuration.



The dialog box is titled "Presets" and "Add a new preset". It contains a single text input field. Below the field are two buttons: "add" and "cancel".

Update a preset

When you modify your configuration, you must save it in your current active preset if needed by clicking the '**Update current**' button.



The dialog box is titled "Presets" and "Update the preset TEST01". It contains a text input field with the value "TEST01". Below the field are two buttons: "update" and "cancel".

Delete a preset

Active the preset you want to delete and push the '**Delete**' button. A confirmation popup will open.



The dialog box is titled "Presets" and "Delete the preset TEST01". It contains the text "Are you sure you want delete this preset ?". Below the text are two buttons: "delete" and "cancel".

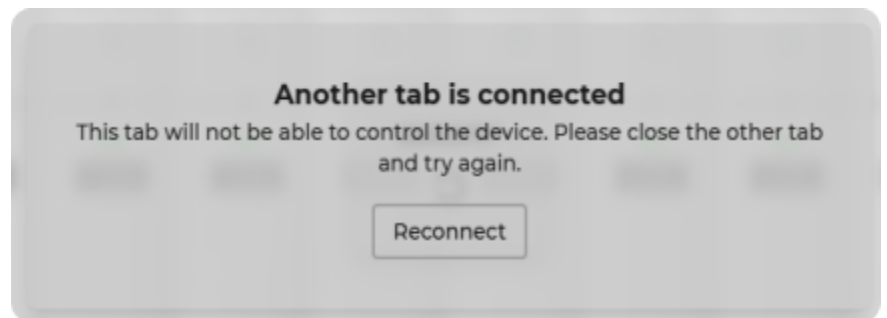
Troubleshooting

SSL Not secure

If you have a message on your webpage signaling you it's not secure, don't worry. **You can safely trust the page** to access the ACHX App. This will not impact the security.

Open in another tab

This popup message just indicates that there is another tab on the network using the app. Only one window at a time can use the app.

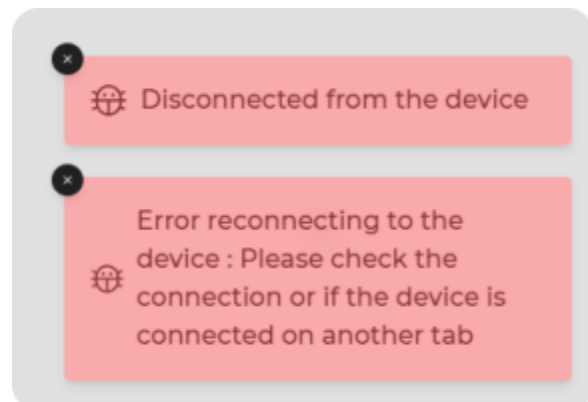


Cannot connect /

Disconnected from the device

This message indicates there is a problem with the device. You can check if another tab is open.

If the problem persists, restart the **ACHX device** and try to reconnect.



⚠ If you have another trouble that is not describe here, please contact us at contact@bs-rf.com