

The signalTRX web GUI

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Network

The network configuration tab

The network configuration tab is split into two halves: Wifi, and everything else.

On the left

To connect to a discovered SSID, click the connect button and then fill out the authentication details. If successful, the sygnalTRX unit will connect to the new wifi network.

To delete a saved SSID, press the "forget" button next to it. For networks not currently discovered, scroll to the bottom of the list, where you will find all saved networks.

To manually add an SSID which is not currently discoverable, press "add manually". Fill out the SSID and authentication details and then press save. The sygnalTRX unit will try to connect to this, and if it fails it will try again if this SSID comes in range.

The list of discovered network devices refreshes once when you open the network tab. To manually refresh the list, press the refresh button. The list does not scan continuously to prevent negatively impacting the performance of network roams.

On the right

To configure your wired network settings, and (for 5G variants) the 5G interface settings, find the adapter settings on the right hand side of the page. By default, each adapter will behave as a DHCP client.

To manually configure network settings, disable DHCP using the toggle button and then fill in fields such as IP address, netmask, gateway and DNS and click update.

Tooltips to the right of each field contain more information that should help you if you're stuck.

Each device can be enabled and disabled using the thus labelled toggle switch.

The 'add to bridge' adds the interface to an internal network bridge. This can be useful if - for example - you wish give wireless network to a camera that does not have wifi, and instead only wired network. Simply bridge the WIFI and ethernet ports on the sygnal unit, then plug the a cable between the ethernet port and the camera.

Selecting "hotspot mode" on the wifi adapter will act in the same way as pressing and holding the 'ID' button on the side of the signalTRX. The unit will disconnect from its current wifi network (if it is currently connected), and produce its own network with an SSID matching the unit's serial number, which can be found on the base of the unit. The password will also be the unit's serial number.

Encoders

The encoders tab is where you go to take an input, encode it and stream it somewhere.

The signalTRX 2x3 has 8 on board hardware encoders (at 1080p60). 4 of these hardware encoders are available to the user. Each of these encoders also generates a low resolution sub-encode which is available as a webRTC source for the Sygnal system to use for things such as multi viewers and iPad camera multiviews.

The encoders tab is split into three columns: Source, Encoder, Stream. If you have not yet created an encoder, click on the "add hardware encoder" button, then select your chosen codec. This will create a new row with a source, encoder and stream.

Source

In this column, the user chooses from the list of available sources to feed into the encoder. The options are:

- SDI input 1
- HDMI input 1
- Prompter Moudle Out
- Playback Module Out
- Bars Generator
- No Source

Select one of these from the dropdown list, and click 'set'. Changing the source will - obviously - interrupt the streams. So don't do this while on air!

In the top right corner of the stream block is an 'x' which sets the source back to 'No Source'.

Next to this there is a restart button which restarts the input, which can be useful for giving the system a "kick" in the unlikely event that the source changes format and the signalTRX does not detect this change automatically.

In the body of the stream block, useful information is displayed such as the format and frame rate.

In the top left corner of the stream block is a status light. Green means a valid signal is present. Red means there is no valid signal present.

Encoder

In this column you can configure the encoder profile.

Select the cog in the top right corner of the encoder to change these settings. There are tooltips which describe each parameter in detail. For further details, tooltips contain links to the glossary of terms. LUTS can also be applied here. Simply upload the .cube file in browser, or browse from our selection of pre-installed LUT files.

Once you are happy with your changes, press 'set'. Or if unhappy, press 'cancel' to cancel. Changing some parameters in the encoder will cause the stream to stop and restart, dropping a frame or more. If this is the case, a message will alert you to this next to the set button. If you are happy with your parameters and wish to save them as a default, press the "save" button next to the preset dropdown, and give it a name when prompted. If you wish to copy the settings to quickly apply them to another encoder, press the "copy" button and then the "paste" on the destination encoder.

In the top center of the encoder block, there is a toggle switch to enable and disable the encoder.

In the top right of the encoder block, there is a restart button: to restart the encoder; a cog: to configure the encoder; and an 'x' which deletes the encoder.

In the body of the encoder block, useful information is displayed such as the codec, format, frame rate and which LUT is currently applied.

In the top left of the encoder block is a status light. Green means that the encoder is running and encoding successfully. Red means that the encoder is not currently running and encoding successfully.

Stream

In the streams column, you can add, manage and delete streaming destinations.

To add a stream, click add, and then configure the streaming destination. There is a field for entering a human readable name like "Jamie's Facebook Live", so that you can easily keep track of which stream is which.

To delete a stream, click the 'x' icon at the top right of a streaming block.

To edit a stream, click the cog icon at the top right of a streaming block. If you are happy with your parameters and wish to save them as a default, press the "save" button next to the preset dropdown, and give it a name when prompted. If you wish to copy the settings to quickly apply them to another encoder, press the "copy" button and then the "paste" on the destination stream.

In the top center of the streaming block there is a toggle switch to turn a streaming destination on or off.

In the top left of the streaming block is a status light. Green means it is successfully streaming to its destination. Red means it is not successfully streaming.

Assigning the user button to a function

Some functions, such as enabling and disabling a stream can be assigned to the [SYGNAL user button](#) on the side of the device. To quickly add a function to the user button, click the signal logo icon next to that button, and click "yes" when it asks if you wish to add that function to the user button. To remove the function, click the signal logo icon again. A list of functions that the user button is currently configured to perform can be found in the [system page](#).

Outputs

There are 5 routable destinations in the "Outputs" tab. First there are the 3 hardware outputs: HDMI 1, HDMI 2 and SDI. Next is the input to the record/playback module, and lastly there is the "return" input to the Prompt module.

By default, bars is routed to all outputs. This enables you to find out information about your signalTRX unit such as IP address and serial number simply by plugging a screen in.

Routing to an output

The page is split into two columns, with the destination fixed on the right and the source as a dropdown on the left.

To create an output, select a destination from the dropdown list in the bottom middle of the screen and click "set". This will create a new output row. To patch something to the output, select a source from its corresponding dropdown list and then click "set".

If you selected a streaming source, you can edit its details by clicking the cog icon in the top right corner of the source block.

You can use the on/off toggle in the top center of the block to turn a destination on and off.

To change a destination, you can select another from the dropdown list in the destination block and click "set".

Useful information, such as the format and frame rate is displayed in both the source and destination blocks.

Clicking the 'x' at the top corner of the destination block will remove that destination row.

Prompt

The signalPROMPTER is a licensable add-on available for all signal units.

The prompter output is generated on device which means that there is no encoding/decoding latency, allowing for super low latency prompting and smooth scrolling.

Licensing the prompter

Licenses are sold as time restricted, or perpetual. Licenses can be purchased via a signalTRX's web GUI [System page](#) if the unit has an internet connection, or from <https://signal.tv/licenses> . Licenses purchased via the website can be installed by copy and pasting or uploading the license key file into the web GUI on the [System page](#).

Once licensed, the prompter can be edited and controlled via the unit's GUI at <http://<device ip address>/prompt> or via the desktop signalPROMPT application, available for Mac, Windows and Linux at <https://signal.tv/prompt>.

Using the prompter via the web GUI

Visit the web GUI for your signalTRX unit. Go to the 'Prompt' tab. Here you will find a basic web-based text editor and prompt controls which will allow you to control the teleprompter output of this device.

Using the prompter via the signalPROMPTER application

Download the latest version of signalPROMPT at <https://signal.tv/prompt>

Click the device manager tab, and then click the '+' icon to add the chosen signalTRX unit. If on the same subnet, it will be auto discovered. If not, you can add it using the device's IP address. Once the device is added to the list, check the "prompting" box next to it, such that your open prompting session begins transmitting data to the signalTRX unit.

For more information about the signalPROMPT application, please read the [signalPROMPTER product manual](#).

Playback

The playback module is a simple clip recorder and playback system, with network management features. It can be controlled via the signalTRX device's GUI, or the signalCONTROL application.

System

The system tab is home to information about the unit, and general configuration items that were not relevant to the other tabs.

System Information

In the system information block, you will find hardware status information such as temperature, CPU usage and disk usage.

You can configure the clock and timezone by clicking the corresponding "change" button next to them.

At the bottom of the block are buttons which enable you to restart the software or hardware, shutdown the hardware, identify the unit and download log files.

Pressing identify will cause the sygnalTRX unit's three button LEDs to perform a "chase", clearly identifying the unit.

Other Sygnal Units

In the Other Sygnal Units block, a list of auto-discovered devices will appear. This works using `bonjour`, so will only automatically discover devices which are on the same subnet. There will be a quick link to access the web GUI for each of these, allowing you to quickly administer all Sygnal units on your network without necessarily knowing the IP address for all of them.

Licenses

The licenses block shows which licenses are currently active on this sygnal unit. License files can be uploaded using the upload button, or the key can be copy and pasted in.

If you wish to buy a license for a currently unlicensed feature, you can click the corresponding buy button which will take you to the corresponding page in the Sygnal online shop, allowing quick and easy licensing of additional features such as the teleprompter.

Bars Generator

Here you can configure the bars generator. You can select from different test patterns, toggle the display of different unit information, set audio tone frequency and loudness.

With the advanced bars license active, you can add custom text fields, company logos and play sync flashes.

Config

In the config page you can configure the signalTRX device's human readable name, change the login username and password as well as other more advance settings such as changing the port the web GUI uses.

Here you can also test the tally output and set the logging level.

At the bottom of the config block are buttons to download the current configuration state of your unit. It is split into "flows", which is your encoder and output settings. "Bars", which is your custom bars configuration, and "Network" which is your network settings.

When pressing a download button, a popup will ask you to apply any filters to the download, or you can select "all".

In the case of the network settings, you can enable an auto-increment function for the IP addresses, where - when using the config to flash devices via USB - the IP address will automatically increment by one after each successful flash, allowing the quick configuration of multiple devices with unique manual IP addresses.

You can upload any of these configuration files by pressing the "upload button", which will apply them to the unit.