SAM-Q-EDIT
User Guide

Version 1.0A
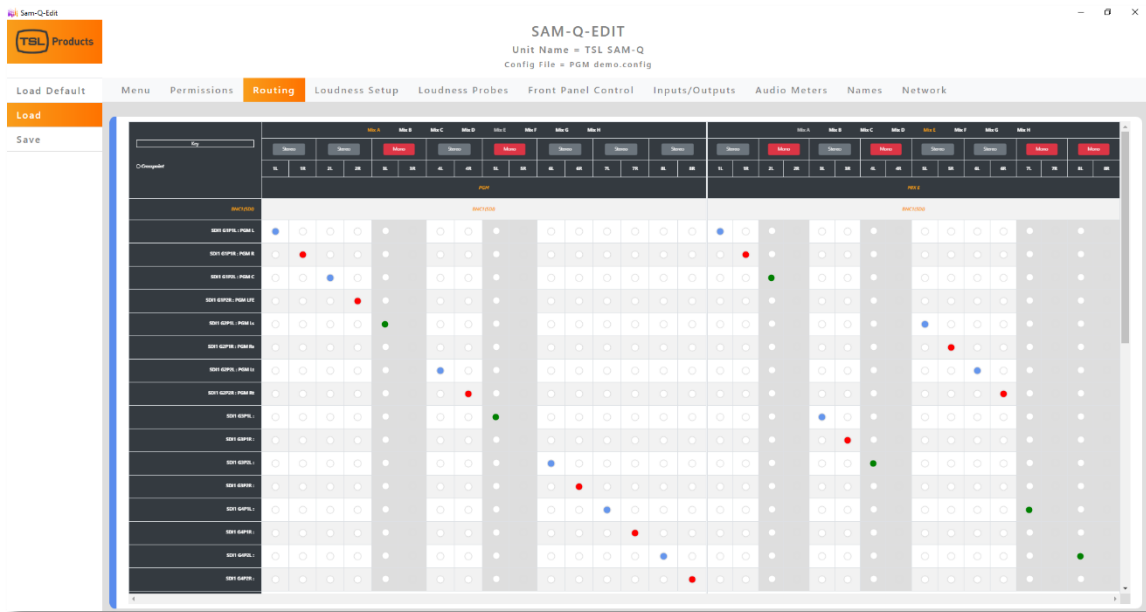
Contents

Version History

Issue	Date	Change Details
1.0A	20/12/21	Initial Release

Introduction

SAM-Q-EDIT is an offline configuration tool designed to provide quick and easy set-up of a SAM-Q audio monitor from a PC.

Before using SAM-Q-EDIT for the first time, it is recommended to become familiar with the capabilities of the SAM-Q audio monitor. The SAM-Q-SDI Installation and Operation Manual is available from:

www.tslproducts.com/product-support/audio-products-support/

SAM-Q-EDIT can be used to create new SAM-Q configuration files or to edit existing SAM-Q configuration files. Files can be transferred to and from a SAM-Q audio monitor using a USB thumb drive.

Up to 8 separate configuration files can be stored internally by a SAM-Q audio monitor, ready to be recalled at any time, allowing the SAM-Q-SDI to quickly and easily adapt to different tasks, shows, locations or the preferences of different users.

Please note that to load or retrieve configuration files from a SAM-Q audio monitor, either from USB thumb drive or the SAM-Q internal memory, you will be required to enter the PIN code of the SAM-Q as set by your system administrator (please see the SAM-Q-SDI Installation and Operation manual for further details).

Units 1&2, First Avenue, Globe Park, Marlow, Buckinghamshire, SL7 1YA, UK
Tel: +44 (0)1628 564610   E: enquiries@tslproducts.com
www.tslproducts.com

Registered No: 05143472 VAT Registered No: GB254 0619 19

Page **3** of **21**

Installation

## Recommended Minimum PC Requirements

Windows 10 64-bit
Intel® core™ i5 CPU
8GB RAM
Screen resolution of 1920 x 1080 recommended

Installation Procedure

1. Double click on the SAM-Q-EDIT installer to launch the installation.

2. Read and agree to the licence terms and conditions and click INSTALL to continue.
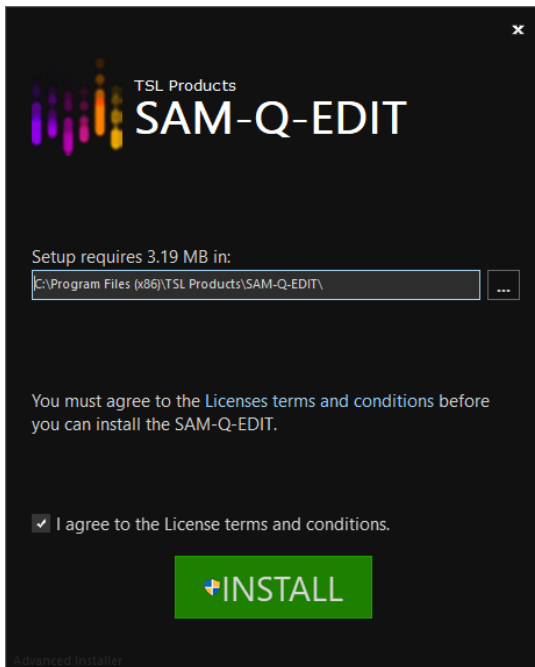
3. The installation will automatically proceed with progress displayed onscreen:
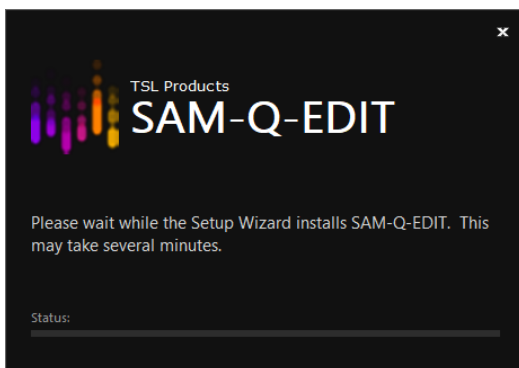
4. Once the installation is complete click 'Finish' to close the installer.

5. SAM-Q-EDIT can be launched from the 'TSL Products' folder within the Start menu.

Units 1&2, First Avenue, Globe Park, Marlow, Buckinghamshire, SL7 1YA, UK
Tel: +44 (0)1628 564610   E: enquiries@tslproducts.com
www.tslproducts.com

Registered No: 05143472 VAT Registered No: GB254 0619 19

Page **4** of **21**

Overview
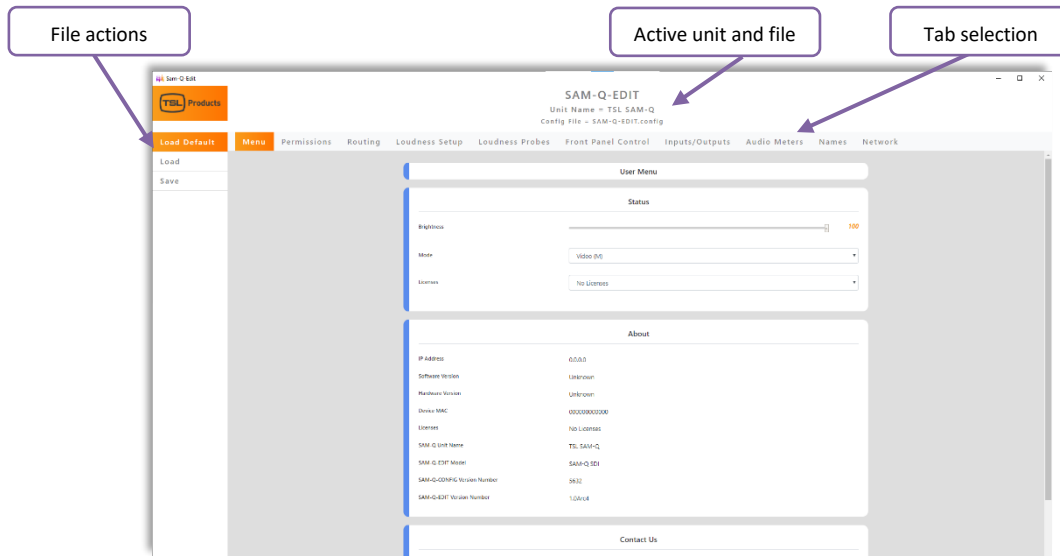
SAM-Q-EDIT is divided into multiple tabs, each of which are detailed in this user guide. Tab selection is performed by clicking on the relevant heading in the menu bar.

At the top of the application the SAM-Q unit name and active config filename are displayed. When a config file is imported from a unit these will be updated. The active config filename will also update when saved.

Load and Save

File actions are permanently displayed on the left-hand side of the application.

Load Default reverts the currently displayed config in SAM-Q-EDIT to the factory default.

Load opens a file browser, allowing selection of a SAM-Q config file from a storage device. Select a file and click 'Open' to make the file the active file within SAM-Q-EDIT.

Save opens a file browser to allow the currently active SAM-Q-EDIT configuration to be saved to a storage device.

Refer to the SAM-Q-SDI User Guide for instructions on importing and exporting config files from the unit.

Tooltips

SAM-Q-EDIT includes help tooltips. Hovering over a selection will display a message detailing the action of the selected function. For example, hovering over the 'Brightness' slider reveals a message explaining that this adjust the brightness of the displays.

| Brightness | | 100 |

Without tooltip

| Brig | Adjusts the brightness of the displays | | 100 |

With tooltip

Zoom View

The application can be rescaled at any time using the following shortcut keys:

Zoom in: Ctrl + **Shift** + **"+"** (plus)

Zoom out: Ctrl + **"-"** (minus)

Reset zoom: Ctrl + **0** (zero)

Units 1&2, First Avenue, Globe Park, Marlow, Buckinghamshire, SL7 1YA, UK
Tel: +44 (0)1628 564610   E: enquiries@tslproducts.com
www.tslproducts.com
Registered No: 05143472 VAT Registered No: GB254 0619 19

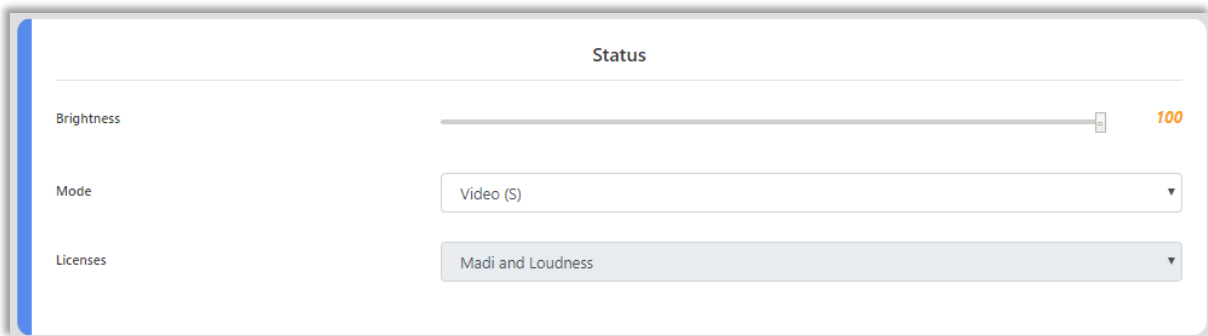Page **6** of **21**

Menu Tab

The **Menu** tab provides an overview of status information, unit information and contact details for TSL Products.
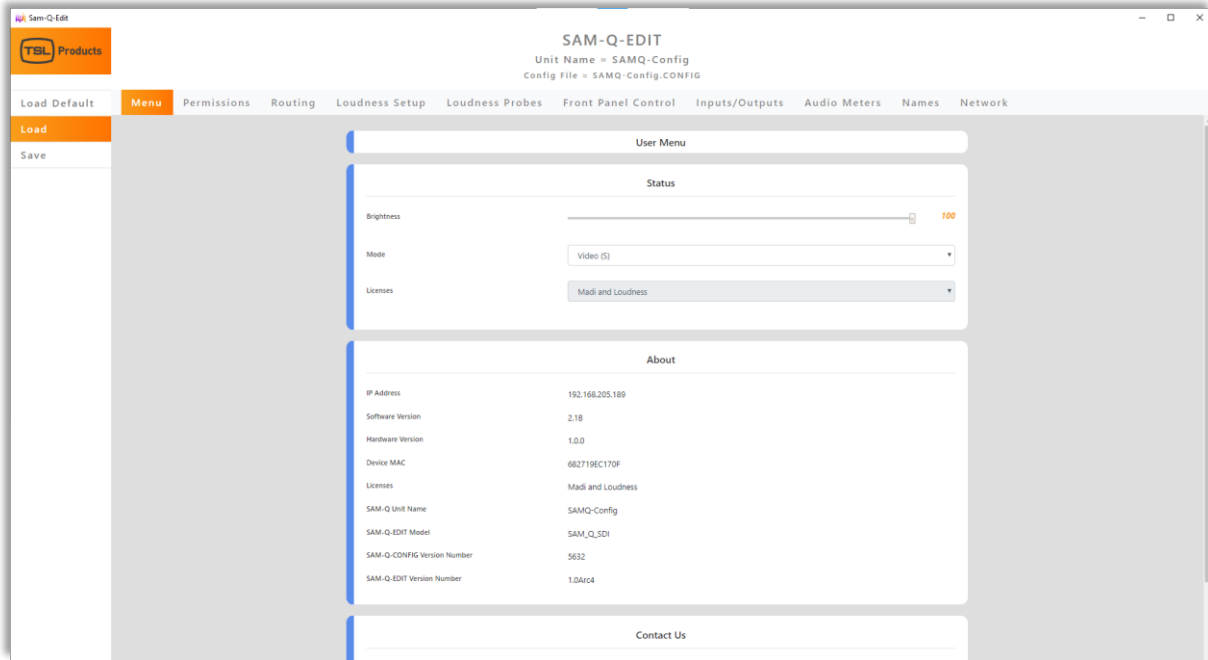
Status

The brightness of the LCD displays can be adjusted using the slider.

Mode selects the operational mode that will be active when the config file is loaded. This will only allow selection from the modes that are active within that config file. This is detailed further in the Permissions Tab section of this user guide.

Licences displays the optional software licences that are active within the config file. If the config file has been imported from a SAM-Q unit this selection will be locked (greyed out). If the SAM-Q-EDIT default config file is active then it will be possible to select which licences should be active within the config file being edited. Licenced features will only load on units that have the selected software licence applied.

Units 1&2, First Avenue, Globe Park, Marlow, Buckinghamshire, SL7 1YA, UK
Tel: +44 (0)1628 564610   E: enquiries@tslproducts.com
www.tslproducts.com

Registered No: 05143472 VAT Registered No: GB254 0619 19

Page **7** of **21**

About

The About section includes details of the SAM-Q unit from which the configuration file was imported. Software, firmware, IP and MAC addresses, licences and unit names are included.

Units 1&2, First Avenue, Globe Park, Marlow, Buckinghamshire, SL7 1YA, UK
Tel: +44 (0)1628 564610   E: enquiries@tslproducts.com
www.tslproducts.com
Registered No: 05143472 VAT Registered No: GB254 0619 19

Page 8 of 21

Permissions Tab

Settings in the **Permissions** tab of SAM-Q-EDIT determine which operational modes and audio mix groups are made available to the SAM-Q user.
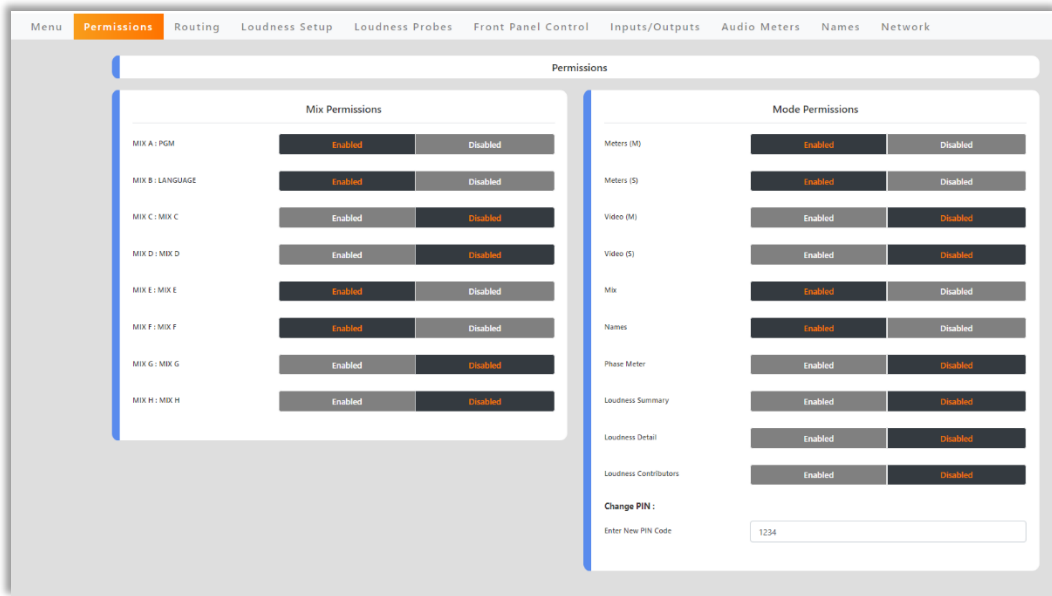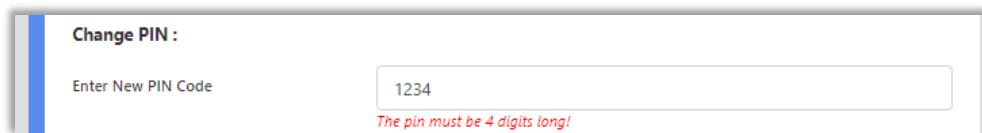

Restricting the number of operational modes and audio mix groups a user can access helps to speed up operations, reduce errors, and deliver a tailor-made experience based on a specific application, user skillset, or operational preference.
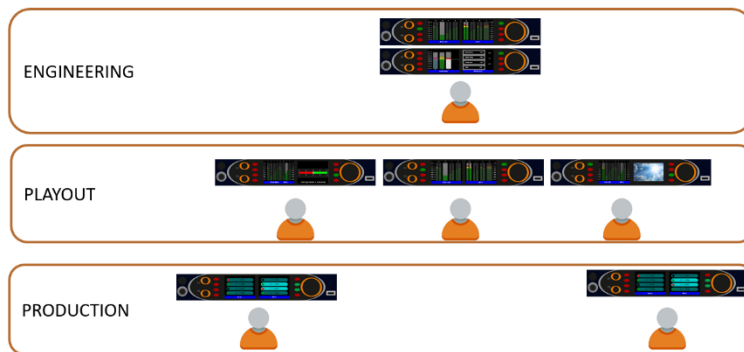
For a detailed description of SAM-Q operational modes refer to the SAM-Q-SDI Installation and Operation Manual.

Pin Code

The PIN code is required to access the Setup menu from the front panel of the SAM-Q-SDI. The pin code stored within a config file can be changed from the Permissions tab. It must be 4 digits long, comprising of numeric digits between 1 and 8. Attempted entry of an invalid pin will be rejected.

Units 1&2, First Avenue, Globe Park, Marlow, Buckinghamshire, SL7 1YA, UK
Tel: +44 (0)1628 564610   E: enquiries@tslproducts.com
www.tslproducts.com
Registered No: 05143472 VAT Registered No: GB254 0619 19

Page **9** of **21**

Routing Tab

The **Routing** tab provides an X-Y matrix that allows audio inputs to be mapped to specific audio mix groups using crosspoints.
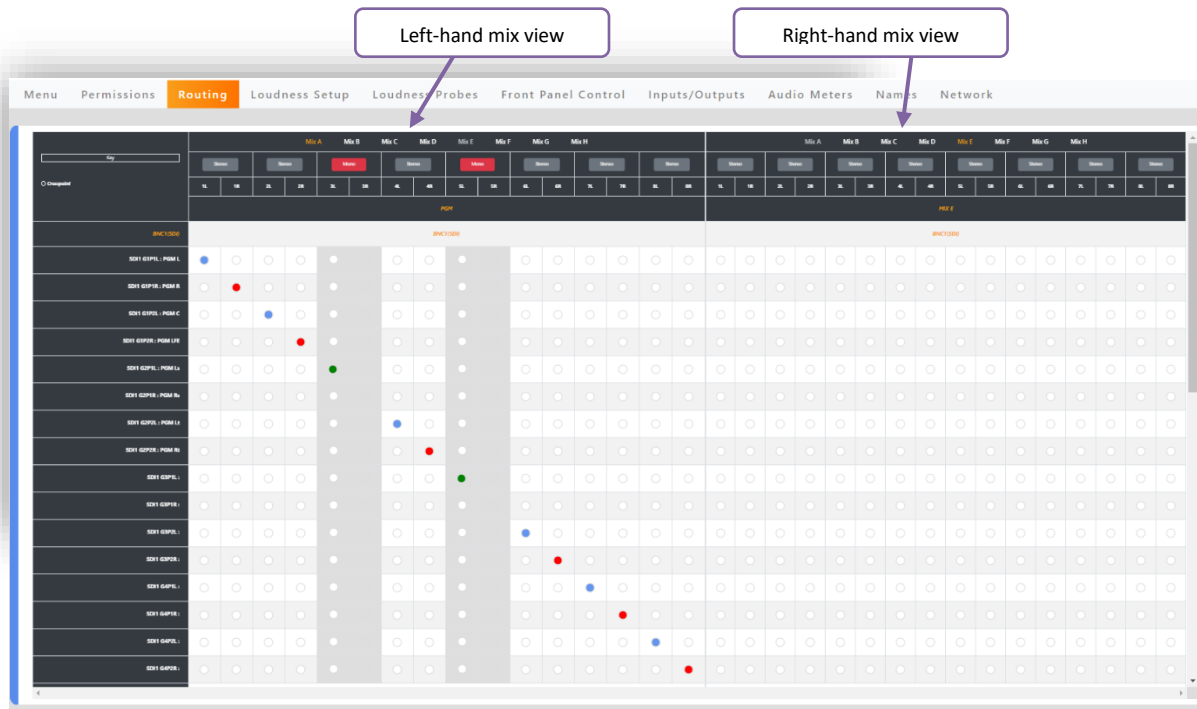

The **Routing** tab is divided into two mix views, allowing easy comparison and configuration of routing across different input mix groups.

Select the active mix for each side by clicking on the chosen mix (**MIX A** through **MIX H**). The active mix for each side is greyed out on the adjacent side to prevent double-selection.

Sources

Audio sources available for mapping to destinations (i.e. audio mix groups and the audio pair select buttons therein) are displayed vertically on the left-hand side, with one audio channel per row.
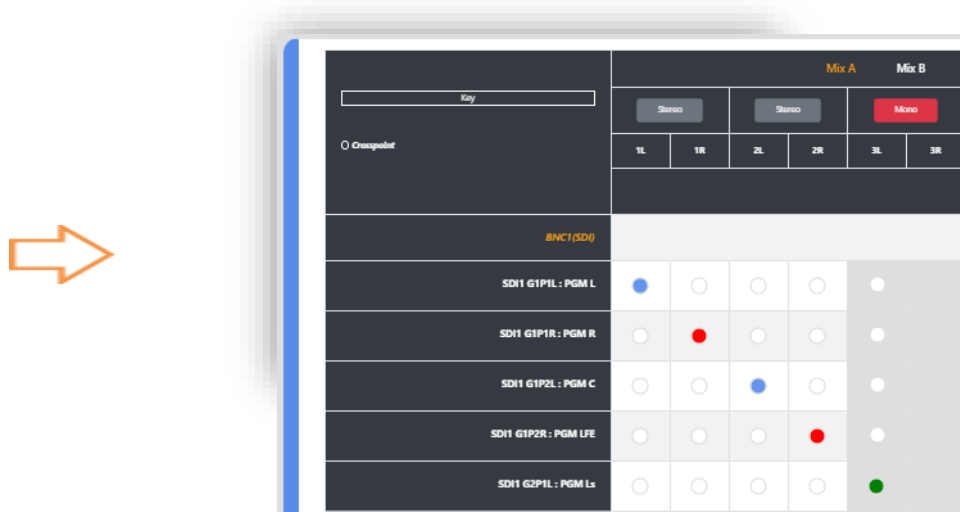
Audio channels are sorted according to the physical input to which they originate as follows:
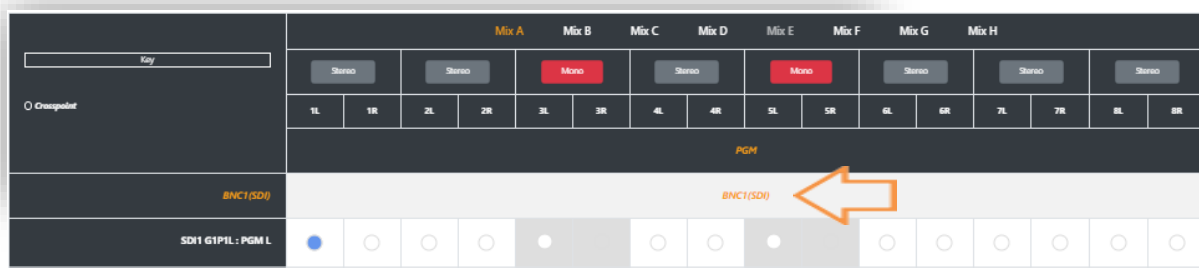
BNC Input 1 – This physical input on the SAM-Q-SDI can be set to either SDI or MADI mode (see the Inputs/Outputs Tab section of this user guide for details on how to switch modes). When set to SDI mode, 16 embedded audio channels are made available, appearing as 16 rows in the routing matrix. When set to MADI mode, 64 channels are made available, appearing as 64 rows in the routing matrix.

BNC Input 2 – This physical input on the SAM-Q-SDI can be set to either SDI or MADI (see the Inputs/Outputs Tab section of this user guide for details on how to switch modes). When set to SDI mode, 16 embedded audio channels are made available, appearing as 16 rows in the routing matrix. When set to MADI mode, 64 channels are made available, appearing as 64 rows in the routing matrix.

AES Input – The AES input on the SAM-Q-SDI provides left and right audio channels, appearing as two rows in the routing matrix.

Analogue Input – The two analogue inputs are shown as left and right audio channels, appearing as two rows in the routing matrix.

Each physical input can be identified throughout the matrix using its header row:

Header rows are always displayed. In the case of physical inputs BNC 1 and BNC 2, the current mode is also displayed (i.e. SDI or MADI).

At any time, source rows can be hidden or revealed to make navigation through the X-Y matrix easier. Simply click on the name of the physical input to collapse or expand the audio source channels belonging to the physical input to which they belong.
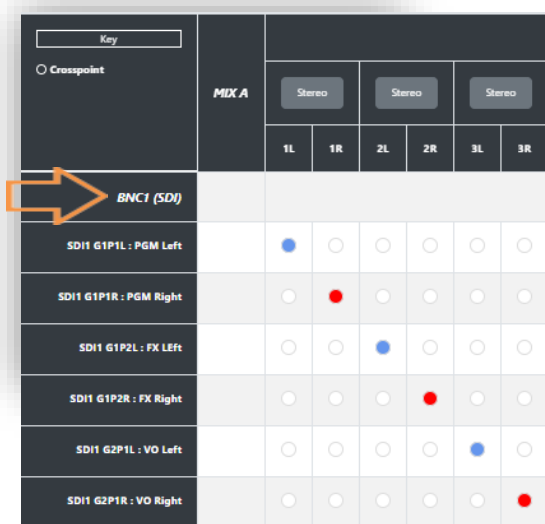
In the example shown, BNC Input 1 of a SAM-Q-SDI has been set to SDI mode (see the Inputs/Outputs Tab section of this user guide details on how to switch modes).

Source labels applied in the Names Tab are shown appended to the engineering label.

Units 1&2, First Avenue, Globe Park, Marlow, Buckinghamshire, SL7 1YA, UK
Tel: +44 (0)1628 564610   E: enquiries@tslproducts.com
www.tslproducts.com
Registered No: 05143472 VAT Registered No: GB254 0619 19

Page **11** of **21**

Destinations

A total of 64 destinations are listed across the top of the **Routing** tab, separated into 8 audio mix groups, labelled **MIX A** through **MIX H**.

SAM-Q users can easily switch between audio mix groups from the front panel of the SAM-Q audio monitor using the small rotary encoder (labelled 1 in the diagram below).
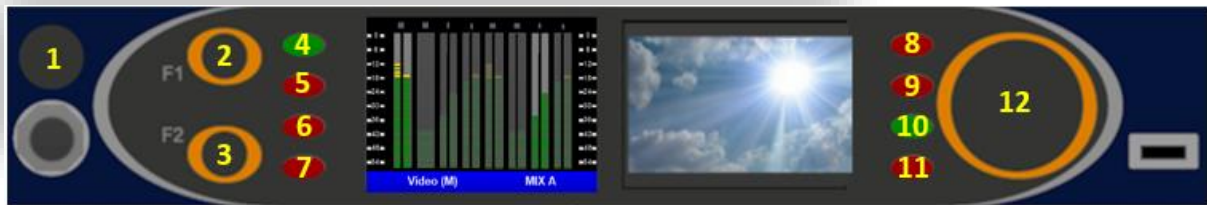

The name of the currently selected audio mix group is displayed at the bottom of either the left or right-hand display, depending on the operational mode selected.

Each mix group comprises 8 separate audio sources, available for selection and monitoring by the user and are selected using Audio Pair Select buttons 1 through 8 (labelled 4 through 11 in the diagram above).

Mapping Channels

To map an audio channel to a selected destination within an audio mix group simply click on the appropriate crosspoint in the X-Y matrix.
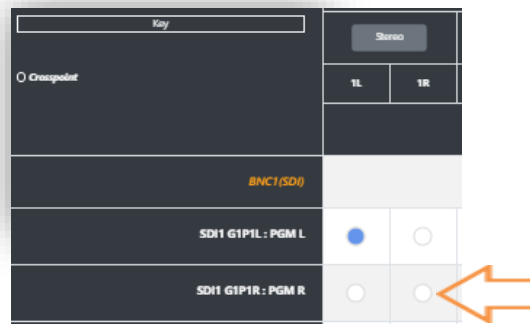

Any audio source presented to the SAM-Q user can comprise either a single mono audio channel or 2 separate audio channels (i.e. to make a stereo pair).

Units 1&2, First Avenue, Globe Park, Marlow, Buckinghamshire, SL7 1YA, UK
Tel: +44 (0)1628 564610   E: enquiries@tslproducts.com
www.tslproducts.com

Registered No: 05143472 VAT Registered No: GB254 0619 19

Page **12** of **21**

Defining an audio source as either mono or stereo is simply a case of clicking on the Stereo/Mono button at the top of the page for the corresponding audio mix group.
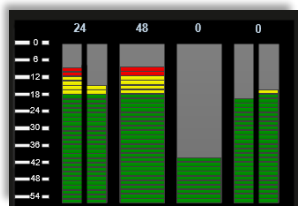

In this example, Source 2 and Source 8 belonging to Mix Group A have been designated as mono audio sources.
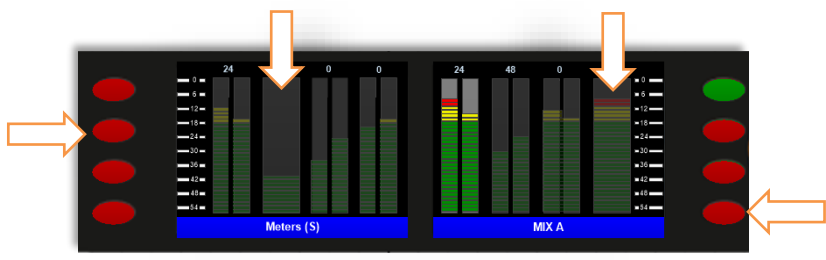
The ability to include both mono and stereo audio sources in the same mix group is most useful when monitoring surround sound formats.

An example showing how a 5.1 audio program could be represented is shown here.

The routing matrix crosspoints are colour-coded to aid identification:

Blue crosspoints indicate an odd-numbered (pair left) source routed to an odd-numbered destination.

Red crosspoints indicate an even-numbered (pair right) source routed to an even-numbered destination.
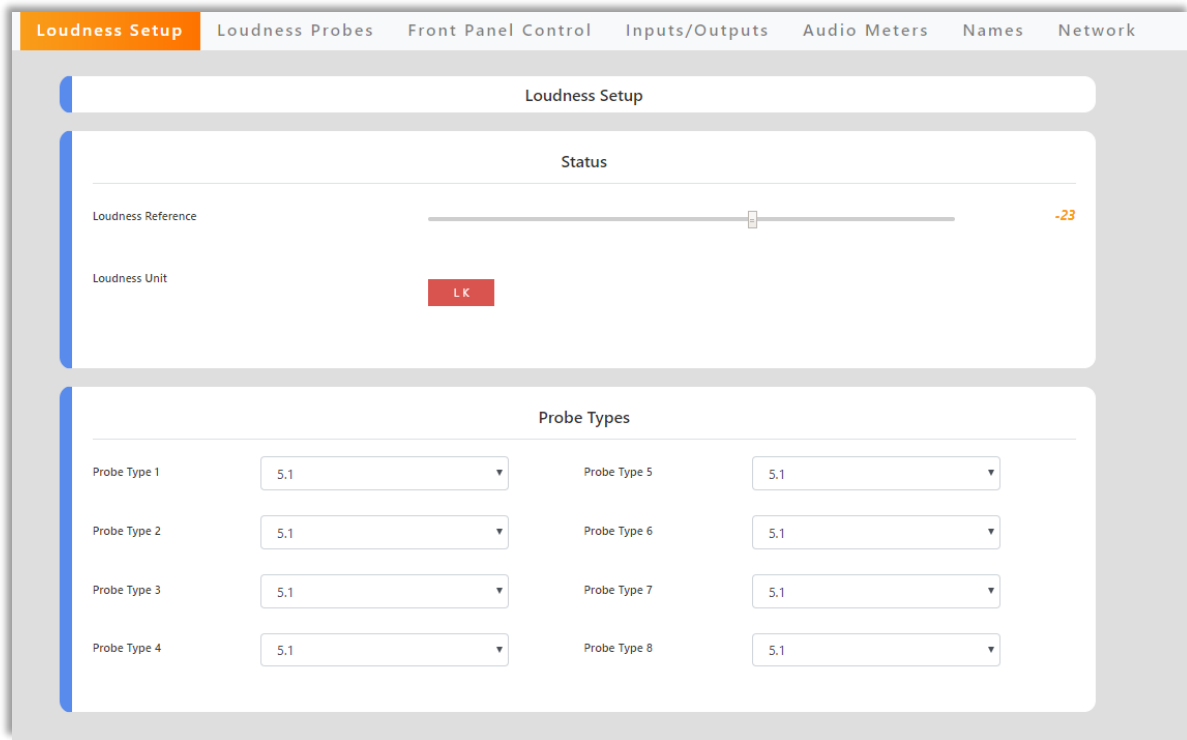
Black crosspoints indicate an odd-numbered source routed to an even-numbered destination, or vice versa.

**Green** crosspoints indicate any source routed to a mono destination.

Loudness Setup Tab

Settings in the **Loudness Setup** tab provide control of the 8 loudness probes available on the SAM-Q.

N.B. These settings are only applicable to SAM-Q units with the Loudness licence activated. Licenced features will only load on units that have the selected software licence applied.

Loudness Reference and **Loudness Unit** provide control over the target loudness setting. These are global settings which apply to all 8 probes.
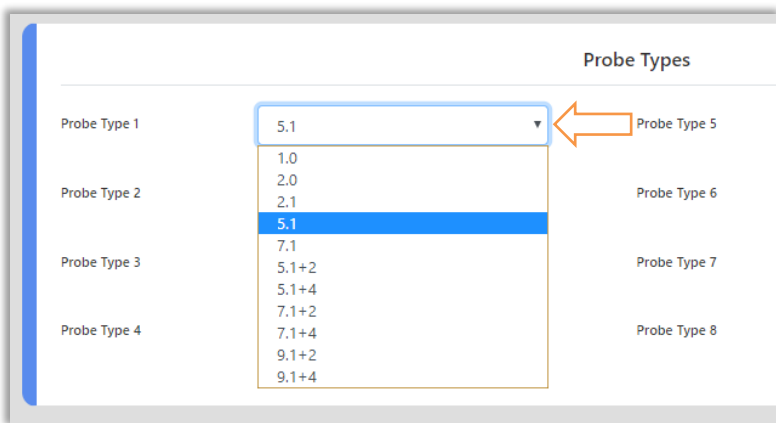
The channel configuration for each of the 8 loudness probes is configured under **Probe Types**. Every probe has a drop-down menu from which the desired channel configuration can be selected.

Units 1&2, First Avenue, Globe Park, Marlow, Buckinghamshire, SL7 1YA, UK
Tel: +44 (0)1628 564610   E: enquiries@tslproducts.com
www.tslproducts.com
Registered No: 05143472 VAT Registered No: GB254 0619 19

Page **14** of **21**

Loudness Probes Tab

The **Loudness Probes** tab provides an X-Y matrix that allows audio inputs to be mapped to specific loudness probes using crosspoints.
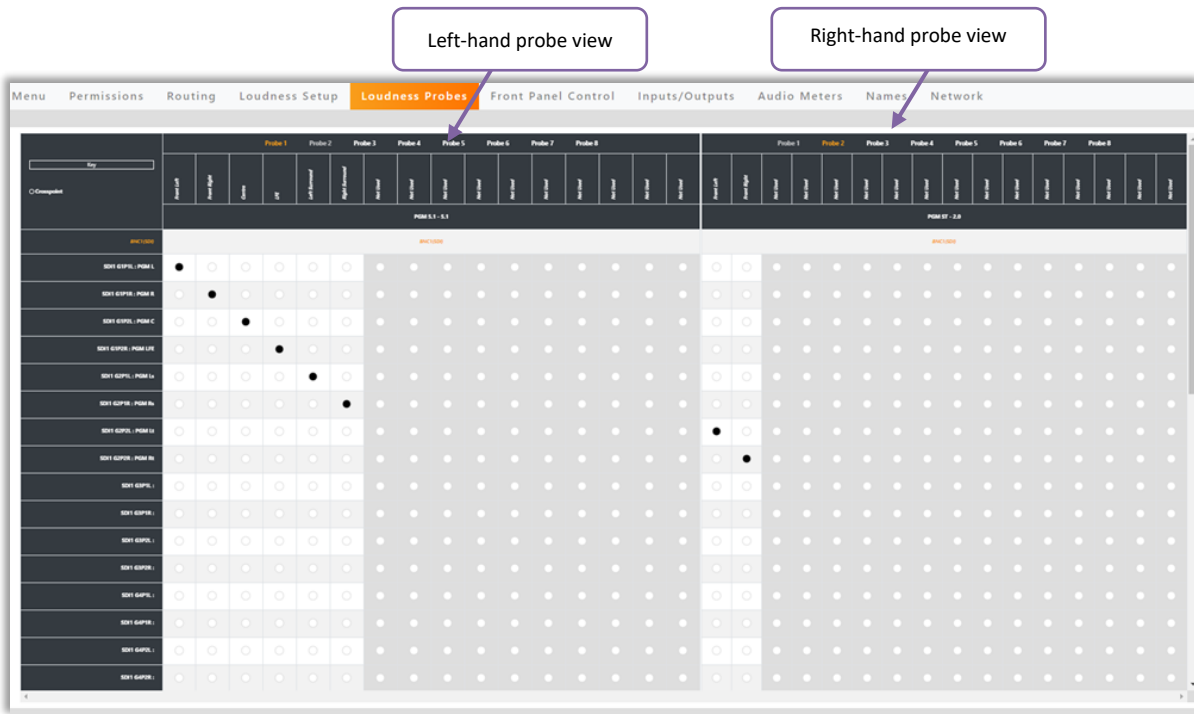
The **Loudness Probes** tab is divided into two probe views, allowing easy comparison and configuration of routing across different loudness probes.

Select the active mix for each side by clicking on the chosen probe (**Probe 1** through **Probe 8**). The active probe for each side is greyed out on the adjacent side to prevent double-selection.

Sources

Audio sources available for mapping to loudness probe destinations are displayed vertically on the left-hand side, with one audio channel per row. Their configuration is identical to that displayed in the **Routing** tab. Refer to the Routing Tab section of this user guide for further information.

Destinations

The 8 probes are listed across the top of the **Loudness Probes** tab, labelled **Probe 1** through **Probe 8**.
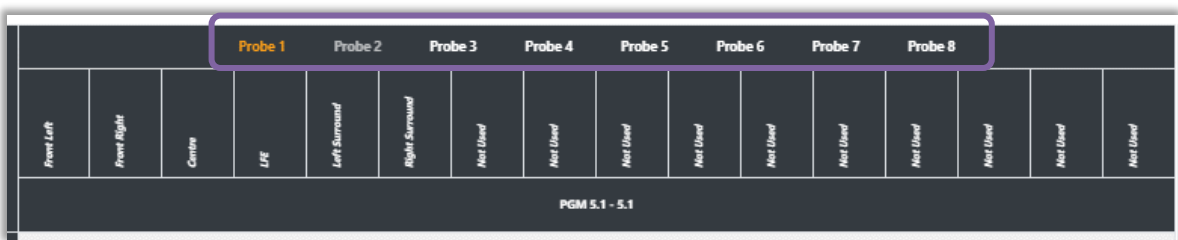
The available channels within each loudness probe will follow the channel configuration selected for the probe in the Loudness Setup tab.

Mapping Channels
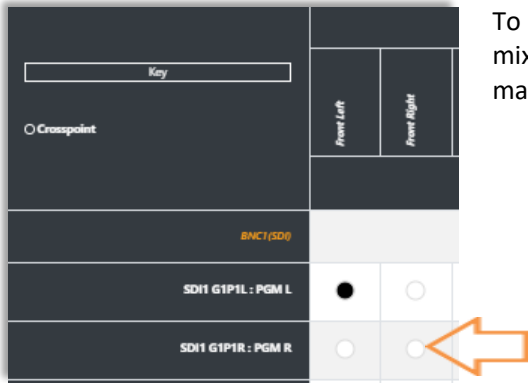
To map an audio channel to a selected destination within an audio mix group simply click on the appropriate crosspoint in the X-Y matrix. Active crosspoints are shown with a black circle.

Units 1&2, First Avenue, Globe Park, Marlow, Buckinghamshire, SL7 1YA, UK
Tel: +44 (0)1628 564610   E: enquiries@tslproducts.com
www.tslproducts.com
Registered No: 05143472 VAT Registered No: GB254 0619 19

Page **16** of **21**

Front Panel Control Tab

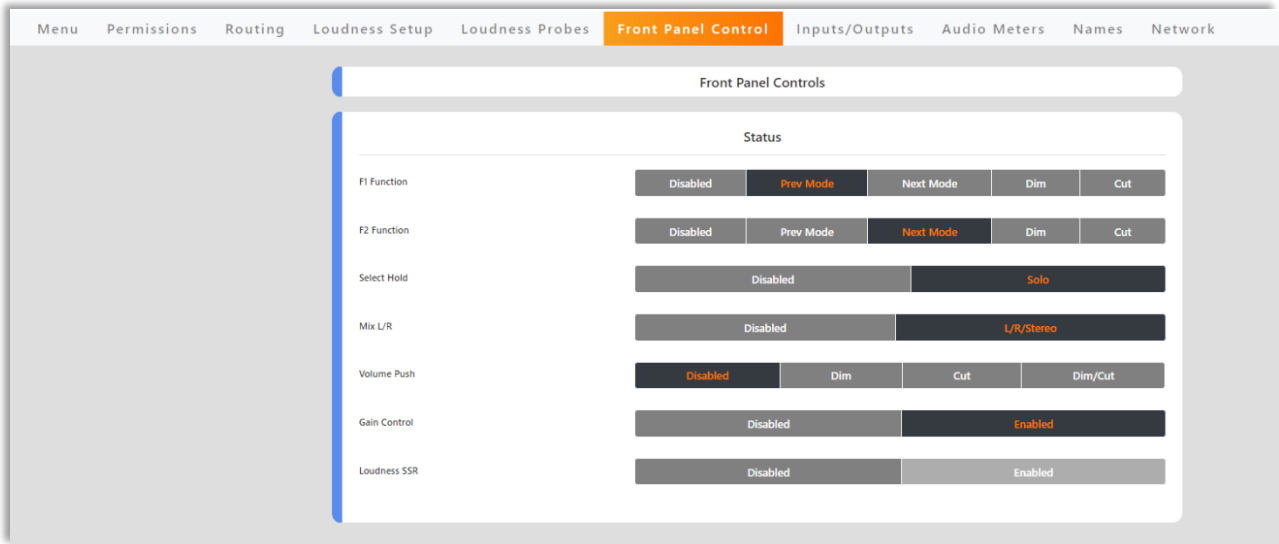The **Front Panel Control** tab allows the behaviour of the front panel SAM-Q controls to be modified as desired.

As with the settings made in the **Permissions** tab, settings made in the **Front Panel Control** tab can be used to speed up operations, reduce errors and deliver a tailor-made experience to meet a specific application, user skillset or operational preference.

For a detailed description of SAM-Q front panel control options refer to the SAM-Q-SDI Installation and Operation Manual.

Units 1&2, First Avenue, Globe Park, Marlow, Buckinghamshire, SL7 1YA, UK
Tel: +44 (0)1628 564610   E: enquiries@tslproducts.com
www.tslproducts.com

Registered No: 05143472 VAT Registered No: GB254 0619 19

Page **17** of **21**

Inputs/Outputs Tab

The **Inputs/Outputs** tab provides control of the loudspeaker and external output behaviour, SDI/MADI selection for the BNC inputs (if licenced) and the video source that will be displayed for the applicable user modes.
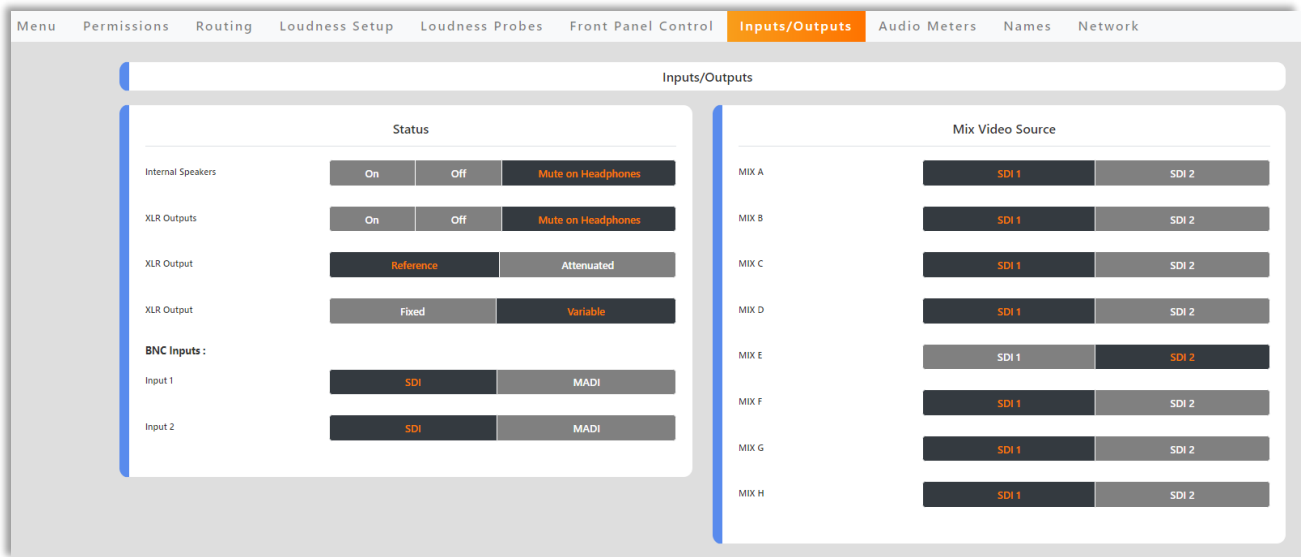
Settings made in the **Inputs/Outputs** tab can be used to tailor SAM-Q operation to meet a specific application, user skillset or operational preference.

For a detailed description of SAM-Q input/output options refer to the SAM-Q-SDI Installation and Operation Manual.

Units 1&2, First Avenue, Globe Park, Marlow, Buckinghamshire, SL7 1YA, UK
Tel: +44 (0)1628 564610   E: enquiries@tslproducts.com
www.tslproducts.com

Registered No: 05143472 VAT Registered No: GB254 0619 19

Page **18** of **21**

Audio Meters Tab

The **Audio Meters** tab allows the meter alarm and reference levels to be set for the SAM-Q.
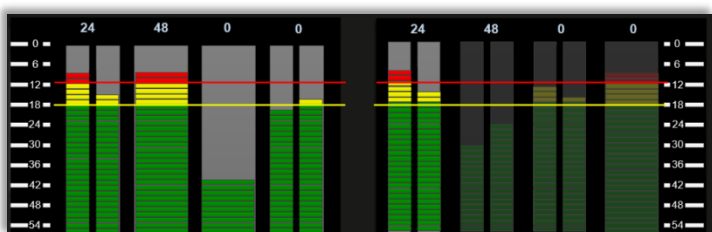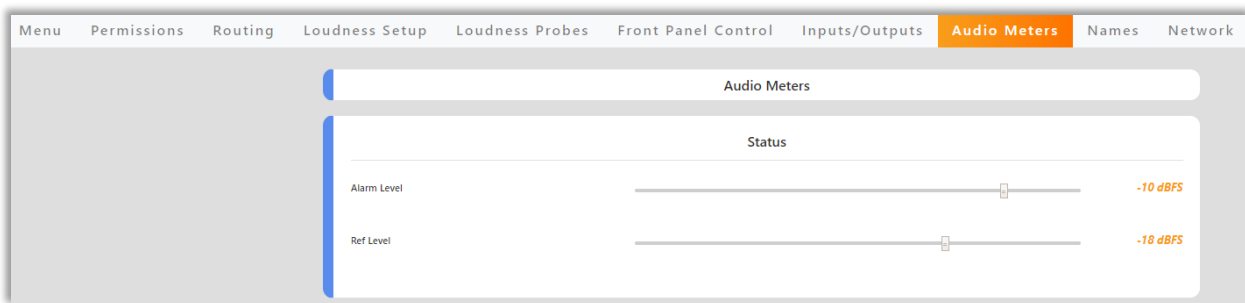
The alarm and reference levels are represented by horizontal markers in all operational modes containing audio level meters.

Units 1&2, First Avenue, Globe Park, Marlow, Buckinghamshire, SL7 1YA, UK
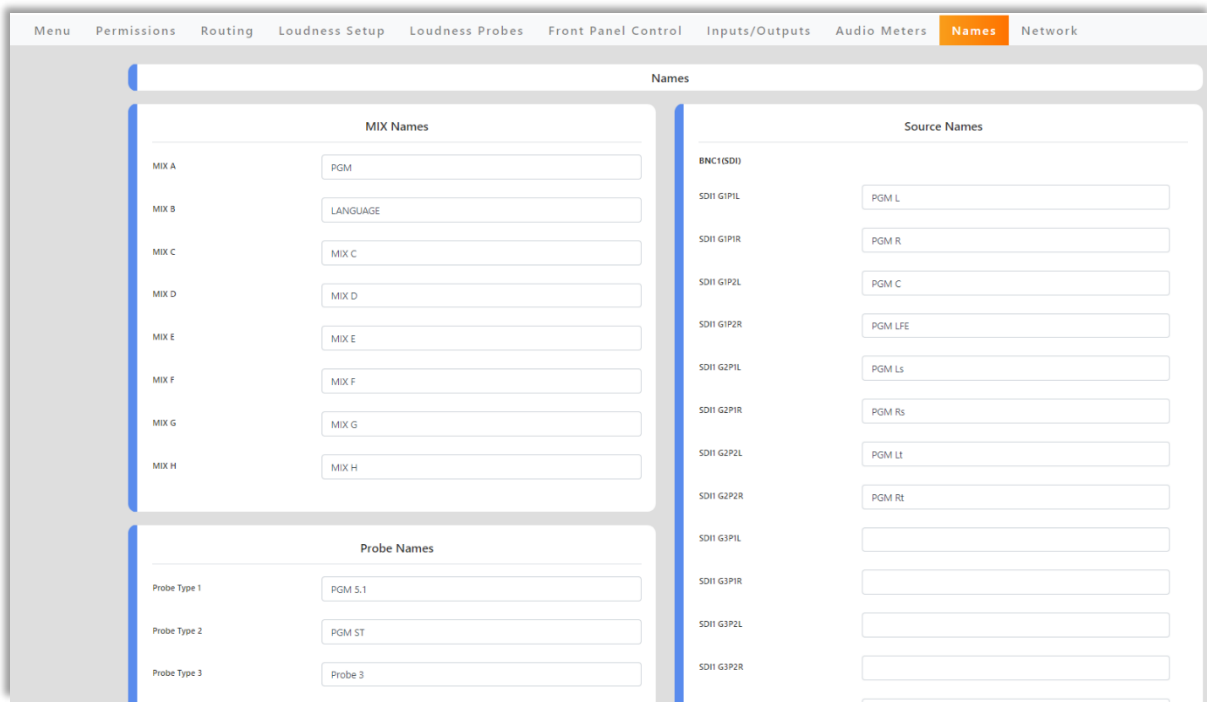Tel: +44 (0)1628 564610   E: enquiries@tslproducts.com
www.tslproducts.com

Registered No: 05143472 VAT Registered No: GB254 0619 19

Page **19** of **21**

Names Tab

The **Names** tab allows friendly names to be entered for the following:

- Mix groups
- Sources
- Loudness probes

Entering friendly names on this page helps users to identify and select the correct mix group, audio channel or loudness probe when using the SAM-Q. Friendly source names are particularly helpful for the **Routing** tab in SAM-Q-EDIT and the **Names** mode on the SAM-Q-SDI.

Labels are limited to 12 characters in length.

For a detailed description of SAM-Q naming options refer to the SAM-Q-SDI Installation and Operation Manual.

Units 1&2, First Avenue, Globe Park, Marlow, Buckinghamshire, SL7 1YA, UK
Tel: +44 (0)1628 564610   E: enquiries@tslproducts.com
www.tslproducts.com

Registered No: 05143472 VAT Registered No: GB254 0619 19

Page **20** of **21**

Network Tab

The **Network** tab **Control IP** section provides readback of IP settings from an imported SAM-Q-SDI config file. These settings are read-only and cannot be edited.

The **Logging IP** section allows the settings for Syslog and InfluxDB to be configured. For a detailed description of Syslog and InfluxDB configuration refer to the SAM-Q-SDI Installation and Operation Manual.

Units 1&2, First Avenue, Globe Park, Marlow, Buckinghamshire, SL7 1YA, UK
Tel: +44 (0)1628 564610   E: enquiries@tslproducts.com
www.tslproducts.com

Registered No: 05143472 VAT Registered No: GB254 0619 19

Page **21** of **21**