

AD-DA.ca, FlexFader

Plugin Description

The [AD-DA.ca](#) FlexFader Q-SYS Plugin provides a flexible and customizable fader control interface for Matrix Mixer components within the Q-SYS ecosystem. This plugin enables system integrators and AV professionals to create intuitive audio mixing interfaces directly from the Q-SYS Designer, eliminating the need for complex scripting or external control solutions.

By leveraging this plugin, Q-SYS users gain centralized control over multiple audio channels with configurable fader banks, customizable control behaviors, and optional audio metering. The plugin streamlines workflow efficiency by providing flexible channel navigation, pattern-based channel selection, and per-channel customization within the familiar Q-SYS environment. This integration is particularly valuable in professional AV installations where audio mixing interfaces need to be tailored to specific operational requirements, such as broadcast facilities, live event venues, houses of worship, and corporate environments.

Key features

- **Configurable Fader Count** - Supports 1 to 12 faders per plugin instance, allowing flexible interface sizing based on project requirements.
- **Matrix Mixer Integration** - Direct connection to Q-SYS Matrix Mixer components via component name and pattern-based channel selection.
- **Bank Navigation** - Navigate through multiple channel banks using Previous/Next controls with configurable scrolling behavior.
- **Customizable Controls** - Per-channel customization of value ranges, control visibility, enable/disable states, and custom labels through pattern matching.
- **Audio Metering** - Optional audio metering with configurable mono and stereo input/output channels for visual signal monitoring.
- **Read/Write Control Modes** - Configure Value and Label controls as read-only or read/write based on operational needs.
- **Mute Inversion** - Option to invert mute button logic for installations requiring inverted mute behavior.

Configuration Overview

Plugin version

This document is written for the plugin :

- [AD-DA.ca](https://ad-da.ca) FlexFader 1.1.0.0

Release note

2026-03 : V1.1.0.0

- Minor bug fixes
- Adds new bank strategy controls

2025-12 : V1.0.0.0

- Initial Release

QDS compatibility

This plugin has been developed and tested on :

- Q-SYS Designer version 9.13.0 / 10.0.x, 10.1.x and 10.2.0

Properties

License

Type: String

Default value: Empty

Description: License key activated for the main core.

Licenses are issued on a "per core" basis, as in each core needs its own license to run as many instances of the plugin as needed on this particular core and licenses are not transferable from core to core.

License keys can be added while in Offline mode, in the Properties pane on the right. To purchase licenses, go to <https://ad-da.ca>.

The plugin can be emulated for free, allowing you to prepare everything without requiring you to have access to a core.

License Backup

Type: String

Default value: Empty

Description: License key activated for the backup core.

If your main Q-SYS Core fails, the backup Core automatically takes over without needing a license to function as a temporary replacement. However, if the design boots from the backup Core, a valid license is required. Additionally, if the backup Core is restarted (due to power loss or other reasons), the plugin instances cannot initialize without a valid license.

Faders

Fader Count

Type: Integer (1-12)

Specifies the number of fader channels available in the plugin interface. Default value is 12.

Customize Controls

Type: Boolean

When enabled, reveals additional customization options for fader controls including Value, Label, and Mute behavior settings.

Customize

Value

Type: Enum (Read, Read/Write)

Determines whether the fader value control is read-only or read/write. Available when Customize Controls is enabled.

Label

Type: Enum (Read, Read/Write)

Determines whether the channel label control is read-only or read/write. Available when Customize Controls is enabled.

Mute

Type: Enum (Normal, Inverted)

Configures mute button behavior. "Normal" follows standard mute logic; "Inverted" reverses the mute state. Available when Customize Controls is enabled.

Audio

Metering

Type: Boolean

When enabled, adds audio metering controls and audio pins for visual signal monitoring.

Mono Input

Type: Integer (0-512)

Number of mono input channels for metering. Enter the same value as configured in your Matrix Mixer. Default is 12.

Stereo Input

Type: Integer (0-252)

Number of stereo input channels for metering. Enter the same value as configured in your Matrix Mixer. Input meters are pre-fader.

Mono Output

Type: Integer (0-512)

Number of mono output channels for metering. Enter the same value as configured in your Matrix Mixer.

Stereo Output

Type: Integer (0-252)

Number of stereo output channels for metering. Output meters are post-fader.

Controls

Status

STATUS

Indicator-Status

Indicates the current operational status of the plugin.

OK : The plugin is operating normally.

Fault - [Message] : A problem has occurred, refer to message details.

Setup

Component

Text-Text Edit

Text field used to specify the name of the Matrix Mixer component to control. Enter the exact component name as it appears in your Q-SYS design.

Pattern

Text-Text Edit

Text field used to define the channel selection pattern for the Matrix Mixer. Supports pattern syntax for flexible channel targeting.

Bank Navigation

Bank Previous

Button-Trigger

Button to navigate to the previous bank of channels.

Bank Index

Text-Text Edit

Displays and allows direct entry of the current bank index position.

Bank Next

Button-Trigger

Button to navigate to the next bank of channels.

Fader Controls (per channel)

ChX Index

Indicator-Text

Displays the Matrix Mixer channel index currently assigned to this fader position.

ChX Plus

Button-Momentary

Momentary button to increment the fader value.

ChX Value

Knob-Integer (0-100)

Fader control for adjusting the channel level. Range is 0-100%.

ChX Minus

Button-Momentary

Momentary button to decrement the fader value.

ChX Mute

Button-Toggle

Toggle button to mute/unmute the channel.

ChX Label

Text-Text Edit

Text field displaying or editing the channel label.

Metering Controls (when Metering enabled)

ChX Signal Left / Right

Indicator-Led

LED indicator showing signal presence on the left/right channel.

ChX Meter Left / Right

Indicator-Meter

Audio meter displaying signal level on the left/right channel.

Control Pins

PIN NAME	VALUE	STRING	POSITION	PINS AVAILABLE
Setup				
Component	(String)			Input / Output
Pattern	(String)			Input / Output
Bank Navigation				
BankPrevious	(Trigger)			Input / Output
BankIndex	(String)			Input / Output
BankNext	(Trigger)			Input / Output
Faders (per channel 1-12)				
ChX Index	(String)			Input / Output
ChX Plus	(Trigger)			Input / Output
ChX Value	0-100	(Integer)	0-1	Input / Output
ChX Minus	(Trigger)			Input / Output

ChX Mute	0 1	false true	0 1	Input / Output
ChX Label	(String)			Input / Output
Metering (when enabled)				
ChX Signal Left	0 1	false true	0 1	Output
ChX Signal Right	0 1	false true	0 1	Output
ChX Meter Left	(dB)			Output
ChX Meter Right	(dB)			Output
Status				
Status	-	-	-	Output

"ChX" represents channel numbers 1 through the configured Fader Count (1-12).

Audio Pins

When Metering is enabled, audio pins are created based on the Mono/Stereo Input/Output property values:

PIN NAME	DIRECTION
Input 1 - N (Mono)	Input
Input N Left / Right (Stereo)	Input
Output 1 - N (Mono)	Input
Output N Left / Right (Stereo)	Input

Audio pins receive signals for metering purposes. Configure the pin counts to match your Matrix Mixer component settings.

