

violetaudio

dMix128

Stream Deck Integration Manual

OSC control of the dMix128 console from Elgato Stream Deck

The console that listens.

Plugin user guide and reference

Plugin version 1.0 · document version 1.0

For the violetaudio dMix128 Stream Deck plugin

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1. About this manual

The violetaudio dMix128 Stream Deck plugin turns an Elgato Stream Deck into a physical control surface for the dMix128 console. Each key or dial sends an OSC command to the desk — mute a group, recall a view, ride a fader, tap tempo, or fire any OSC message you like.

This manual explains what the plugin does, how to install and connect it, every action and its settings, the OSC addresses it sends, and how to adapt those addresses to your desk.

Who this manual is for

- Operators who want fast, tactile control of the dMix128 during a show.
- Integrators and AV teams building fixed control surfaces for a room.
- Anyone programming a Stream Deck layout for the desk — no coding required.

How this fits with the rest of the dMix128

The dMix128 offers two complementary ways to drive it: the built-in **AI control layer** (plain-English control over MCP — see the AI Control & MCP Manual) and this **Stream Deck plugin** (fixed, tactile control over OSC). They can be used together: talk to set a scene up, then run it live from hardware keys.

2. Overview

The plugin adds a violetaudio dMix128 category to Stream Deck with ready-made actions for the controls you reach for most. You drag an action onto a key, set a channel or group number in its panel, and press.

What you can control

Action	What a press (or dial) does
Channel Mute	Mute, unmute, or toggle a channel. The key shows muted vs. live.
Channel Fader	Set a channel level; on Stream Deck +, turn the dial to ride it.
Channel Select / View	Bring a channel into view or select it on the desk.
Mute Group	Mute, unmute, or toggle a mute group.
View Group	Recall a view or fader-layer group.
Tap Tempo	Tap to set the tempo for delays and effects.
Set Tempo (BPM)	Send a fixed BPM; on Stream Deck +, turn to nudge, press to tap.
Scene / Snapshot Recall	Recall a saved scene.
Custom OSC	Send any OSC address with an optional typed value — the catch-all.

What OSC is, in plain terms

OSC (Open Sound Control) is a simple network message format for controlling audio gear. A message is just an *address* such as `/dmix128/ch/3/mute` plus optional values. Stream Deck

sends these messages to the desk over the network, and the desk acts on them. The plugin builds the right message for each action so you don't have to.

3. How it works

Three pieces sit between your finger and the desk:

Piece	Role
Stream Deck app	Runs on your computer and hosts the plugin. Your key presses and dial turns happen here.
dMix128 plugin	Receives those presses, builds the matching OSC message, and sends it over the network.
dMix128 console	Listens for OSC on its control port and applies the change.

3.1 One connection, shared by every button

You enter the desk's IP address and OSC port once, in the connection panel of any dMix128 action. The plugin stores it as a shared setting, so every dMix128 key and dial uses the same target. Change it in one place and they all follow.

3.2 No build step

The plugin runs as-is on the Stream Deck app's built-in runtime. There is nothing to compile and no extra software to install beyond the Stream Deck app itself.

3.3 OSC vs. the AI control layer

This plugin uses OSC, which is one-directional by default: it tells the desk what to do. The keys track mute and level locally so the icons stay in sync as you press them. Reflecting changes made elsewhere on the desk is possible by enabling inbound OSC feedback (see Customizing). The AI control layer, by contrast, uses MCP and is a separate path documented in its own manual.

4. Before you begin

You need	Notes
Elgato Stream Deck app 6.5+	Windows 10+ or macOS 12+. Stream Deck + is supported for dial control.
A dMix128 with OSC enabled	Its OSC control input must be turned on and reachable on your network.
The desk's IP address	e.g. 192.168.1.50 — shown on the mixer's network screen.
The OSC port	The port the desk listens on for OSC (for example 8000).
Same network	The computer running Stream Deck and the desk must be on the

You need	Notes
	same network.

5. Installing the plugin

5.1 Double-click (recommended)

Double-click `violetaudio-dmix128.streamDeckPlugin`. The Stream Deck app installs it, and the actions appear under the **violetaudio dMix128** category in the actions list.

5.2 Manual install

Copy the `com.violetaudio.dmix128.sdPlugin` folder into the Stream Deck plugins directory, then quit and reopen the Stream Deck app:

- Windows: `%APPDATA%\Elgato\StreamDeck\Plugins\`
- macOS: `~/Library/Application Support/com.elgato.StreamDeck/Plugins/`

6. First-time setup

Connect the plugin to your desk once:

1. Drag any dMix128 action onto a key.
2. In its settings panel, open **dMix128 connection (OSC)** and enter the desk's IP address and OSC port.
3. Click **Send test message**. If the desk responds, you're connected.

NOTE

The connection is shared by every dMix128 button, so you only set it once. Changing it on any button updates them all.

7. Action reference

Each action has its own settings panel. Common conventions: a channel/group number selects the target, and a “press does” option chooses toggle, on, or off where relevant. Give each key a Title in Stream Deck (for example the channel name) — the icons leave room for it.

7.1 Channels

Action	Settings	Behaviour
Channel Mute	Channel; press does (toggle / mute / unmute)	Sets or toggles the channel mute. Key image shows muted vs. live.
Channel Fader	Channel; level; dial step	Press sends the stored level. On a dial, turn to ride the level and press to toggle mute.
Channel Select / View	Channel	Selects / brings the channel into view

Action	Settings	Behaviour
		on the desk.

7.2 Groups

Action	Settings	Behaviour
Mute Group	Group; press does (toggle / mute / unmute)	Sets or toggles a mute group. Key image shows the state.
View Group	Group	Recalls a view / fader-layer group.

7.3 Tempo

Action	Settings	Behaviour
Tap Tempo	—	Each press sends a tap; tap in time to set the tempo.
Set Tempo (BPM)	BPM	Press sends the BPM. On a dial, turn to nudge BPM and press to tap.

7.4 Scenes

Action	Settings	Behaviour
Scene / Snapshot Recall	Scene number	Recalls the saved scene or snapshot by number.

7.5 Custom OSC

The catch-all for anything not covered by a named action. Set an OSC address and, optionally, one typed value.

Setting	Notes
OSC address	Any address the desk understands, e.g. /dmix128/fx/1/bypass.
Argument	None (a bang), integer, float, string, or boolean.
Value	The value to send, when the argument type is not “None.”

8. Stream Deck + (dials)

Two actions support the Stream Deck + dials. Place **Channel Fader** or **Set Tempo (BPM)** on a dial:

- **Channel Fader** — turn to ride the level (the touchscreen shows the channel and a level bar), press to toggle mute. The *dial step* setting controls how many percent each tick moves.
- **Set Tempo (BPM)** — turn to nudge the BPM up or down, press to tap.

9. OSC schema

By default the plugin sends the addresses below, all rooted at /dmix128.

Action	Address	Argument
Channel mute	/dmix128/ch/{n}/mute	int 1 muted / 0 live
Channel fader	/dmix128/ch/{n}/fader	float 0.0–1.0
Channel select	/dmix128/ch/{n}/select	int 1
Mute group	/dmix128/mutegroup/{n}	int 1 / 0
View group	/dmix128/viewgroup/{n}/recall	int 1
Tap tempo	/dmix128/tempo/tap	int 1
Set tempo	/dmix128/tempo/bpm	float BPM
Scene recall	/dmix128/scene/recall	int scene #
Aux send	/dmix128/ch/{n}/aux/{a}	float 0.0–1.0

IMPORTANT

These default addresses must match what the dMix128 firmware actually listens for. If they differ, you only edit one file — see the next section. Confirm the desk's real OSC map before relying on the plugin in production.

10. Customizing and extending

10.1 Re-map addresses or value ranges

Every address and value range lives in a single file, `oscmapping.js`, rooted at one `PREFIX` constant. Change an address, or convert a value (for example, send the fader in dB instead of 0.0–1.0), entirely within that file. Nothing else needs to change.

```
// oscmap.js – example: change the fader to a dB range
channelFader: (ch, v01) => ({
  address: `${PREFIX}/ch/${ch}/fader`,
  args: [{ type: "f", value: -60 + v01 * 70 }] // map 0–1 to -60..+10 dB
}),
```

10.2 Add a new action

Add an entry to Actions in `manifest.json`, add a handler in `plugin.js`, and optionally a field schema in `ui/inspector.js`. Drop an icon pair into `imgs/actions/<name>/.`

10.3 Two-way feedback (optional)

The plugin sends OSC and tracks mute/level locally. To reflect changes made on the desk, bind an inbound UDP socket in `plugin.js` and call `setState` / `setFeedback` for the matching key when the desk reports a change.

11. Programming your Stream Deck

A few tips for building a usable layout:

- **Title every key** with the channel or group name. The icons are designed to leave room for a title.
- **Use folders** (Create Folder) to group a stage: a Drums folder, a Vocals folder, an FX folder.
- **Combine with Multi Actions** to fire several OSC commands from one key — e.g. recall a scene and select a channel together.
- **Reserve a dial** for the lead vocal fader and another for tempo if you have a Stream Deck +.

NOTE

Want a ready-made layout for a specific room? violeaudio can supply a Stream Deck profile pre-loaded with these actions — ask your dealer.

12. Security and network considerations

- **Keep it on a trusted network.** OSC is unauthenticated; use the plugin on your studio or stage network, not across the public internet.
- **Fixed IPs help.** Give the desk a static or reserved IP so the connection setting stays valid between sessions.
- **Control follows the operator.** The plugin only sends the commands mapped to its buttons; it cannot do more than the OSC surface allows.

13. Troubleshooting

Symptom	What to check
Nothing happens on the desk	Re-check the IP and OSC port in the connection panel, that the computer is on the same network as the desk, and that the desk's OSC input is enabled. Use Send test message .
The wrong parameter moves	The firmware's OSC addresses differ from the defaults — align them in <code>oscmapping.js</code> .

Symptom	What to check
A mute key shows the wrong state	The plugin tracks mute state locally; enable inbound OSC feedback to keep it in sync after desk-side changes.
A dial does nothing	Dial control requires a Stream Deck +. Place Channel Fader or Set Tempo on a dial.
Actions don't appear after install	Quit and reopen the Stream Deck app; confirm the folder is in the plugins directory (manual install).

14. Glossary

Term	Meaning
OSC (Open Sound Control)	A network message format for controlling audio gear; an address plus optional values.
UDP	The lightweight network transport OSC messages travel over.
Stream Deck +	The Elgato device with rotary dials and a touchscreen, used here for faders and tempo.
Encoder / dial	A rotary control on the Stream Deck +.
Mute group	A set of channels muted together with one control.
View group	A saved view or fader layer recalled with one control.
Scene / snapshot	A saved state of the desk that can be recalled.
Property Inspector	The settings panel shown in the Stream Deck app when you select a key.
MCP	The separate, AI-control path to the desk (see the AI Control & MCP Manual).

Appendix A. Default OSC address reference

Quick copy-out of the default scheme. Replace {n} with the channel/group number. Edit these in `oscmapping.js`.

```

/dmix128/ch/{n}/mute      i  1|0
/dmix128/ch/{n}/fader     f  0.0–1.0
/dmix128/ch/{n}/select    i  1
/dmix128/mutegroup/{n}    i  1|0
/dmix128/viewgroup/{n}/recall i  1
/dmix128/tempo/tap        i  1
/dmix128/tempo/bpm        f  BPM
/dmix128/scene/recall     i  scene #
/dmix128/ch/{n}/aux/{a}   f  0.0–1.0

```

Appendix B. Plugin file layout

File	Purpose
manifest.json	Declares the plugin and its actions.
plugin.js	Connects to Stream Deck, routes presses/dials, sends OSC.
osc.js	OSC message encoder and UDP sender.
oscmapping.js	The address map — your one customization point.
ui/inspector.*	The settings panels shown in Stream Deck.
imgs/	Action icons in the violeaudio palette.
node_modules/ws	The one bundled dependency (the Stream Deck link).