



Companion — srt-router user guide

This module drives an [srt-router](#) crosspoint from a Stream Deck or any other Bitfocus Companion surface.

The [README](#) covers installing the module. This is how to build a crosspoint page with it, and where a take can fail without the button noticing.

Before you rely on this: there is **no authentication** on the router's control port — anyone who can reach it can re-route any output. Keep it on a trusted network, and note that a press here re-points a live feed with no confirmation step.

This module was built with AI assistance, directed and reviewed by a human author.

Connecting

Host and port come from the router's `[web] bind`.

The model, and why there is no "unroute"

An output has exactly one source. A source may feed many outputs.

Everything else follows from that. There is no unroute action, because an output always has *a* source — you change what it is, you do not take it away. And there are **two tallies**, which answer different questions:

Feedback	Answers
Output is routed to a source	"What is on program?" — the crosspoint grid tally
Source is feeding at least one output	"Is this feed live?" — check before re-pointing it

The second is the one people forget to build, and it is the one that stops you pulling a source out from under an output somebody is watching.

Presets come from your router

Crosspoint presets are **generated from the router's live source and output lists** once the module connects — one section per output, one button per source, tally already wired.

Before it connects you will see only the Status section. That is deliberate rather than broken: the module does not yet know what outputs exist.

Large matrices are capped by **Max crosspoint presets** in the connection config, so a big router does not generate thousands of buttons you will never place.

Payload compatibility, and the take that fails silently

The router refuses routes between incompatible payloads:

- `srt` and `media` **share a class** — plain MPEG-TS. This is why a stills slate can feed an SRT output.
- `ndi` and `omt` **only match themselves.**

Dropdowns are labelled with the transport (`cam1 (srt)`) so the compatibility is visible while you are building, and **Cycle skips sources the output cannot take** by default.

A refused take is logged as an error, and will not appear as a failed button. The router answers HTTP 200 either way. If a crosspoint does not change and the button looks fine, read the log.

Management actions remove things for real

Management: remove stops the listener and frees its port. **There is no undo**, and something declared in the router's *config file* is exactly as removable as something added at runtime.

Keep those buttons off the page an operator uses during a show, or behind a page they have to mean to visit.

Add actions take JSON mirroring the router's config file for that entity. That is because the fields vary per transport, and a fixed form would go stale the moment a backend is added.

Put the connection feedback on the page

Every other feedback holds its last known value while the router is unreachable — deliberately, so that a brief blip does not blank a crosspoint page mid-show.

The cost of that choice is that a stale tally looks exactly like a live one. **Router is connected** is what tells them apart, and it belongs on any page carrying tally colour.

Building a surface that fails safe

1. **Router is connected**, visible from every crosspoint page.
 2. **Source-is-live tally** next to the output tally, so re-pointing a shared source is a decision rather than a surprise.
 3. **Management actions on their own page**, away from the show surface.
 4. **Check the log after a take that did not land** — the button cannot tell you.
-

Troubleshooting

Symptom	Cause
No crosspoint presets at all	The module has not connected yet, so it does not know the outputs.
A take does nothing, button looks fine	Incompatible payload. The router answered 200 and refused; the log has it.
Cycle skips a source	It is incompatible with that output. That is the default behaviour.
Tally is green but the router is down	Feedbacks hold their last value on purpose. Add <i>Router is connected</i> .
A source vanished	Management: remove stops the listener and frees the port, with no undo.

See also

- [README](#) — installing, and the full action/feedback/variable list
 - `companion/HELP.md` — the same material, in Companion's help panel
-