FOMAKO · STREAM DECK INTEGRATION

FoMaKo K820 Camera Control for Elgato Stream Deck

Quick Start Guide — installation, camera setup and daily operation

Plugin version 1.0.0 | November 2026 | Windows 10/11 & macOS 12+

This plugin puts full control of supported FoMaKo cameras directly on Stream Deck keys — pan, tilt, zoom, focus, exposure, white balance, presets and AI tracking — without opening a browser or control software.

1. Compatibility — supported camera models

READ BEFORE INSTALLING

This plugin supports the 7 FoMaKo camera models listed below. If your model is not on this list, please contact your FoMaKo representative.

Series	Supported models
K820 series (3 models)	`K820` `K820N` `K820S`
K20 / KN20 (2 models)	`K20` `KN20`
K30 / KN30 (2 models)	`K30` `KN30`

NOT SURE ABOUT YOUR MODEL?

The model name is printed on the camera's label and shown in its web interface. If a listed model does not respond to key presses, work through the **Troubleshooting** section first (IP, subnet and TCP 5678), then contact FoMaKo with the model name and firmware version.

2. Using this plugin together with other FoMaKo cameras

If you use cameras from the list above **and** other FoMaKo PTZ camera models, install both plugins. They appear as two separate categories in the Stream Deck action list and can be used at the same time.

Camera	Plugin to install	Actions to use
K820, K820N, K820S, K20, KN20, K30, KN30	FoMaKo **K820** Camera Control (this plugin)	Actions from the **FoMaKo K820 Camera Control** category
Other FoMaKo PTZ models (not in the list above)	FoMaKo **PTZ** Camera Control	Actions from the **FoMaKo PTZ Camera Control** category

1. Install both plugin files. Two separate categories appear in the action list.
2. In **each** plugin, drag its own **Cameras** action onto a key and add the cameras that belong to that plugin. The two camera lists are managed separately.
3. Build keys for a camera using actions from the **matching** plugin category.

> **AI TRACKING**
> Always use the AI Tracking action from the plugin that matches the camera. A tracking key from one plugin does not control cameras managed by the other plugin.

> **TIP — KEEPING TWO SETS OF KEYS CLEAR**
> Give the two sets of keys different titles or place them in separate folders / profile pages, so it is obvious which camera each key controls.

3. What is in this package

File	Purpose
`com.fomako.k820.streamDeckPlugin`	The plugin installer. Double-click to install.
`FoMaKo_K820_Stream_Deck_Quick_Start_v1.0.pdf`	This guide.

> **NOTE**
> The Elgato Stream Deck application itself is **not** included — it is a free download from Elgato, and you need your own Stream Deck hardware (or Stream Deck Mobile). See Requirements below.

4. Requirements

Item	Requirement
Stream Deck software	Version **6.9 or later** (7.x recommended). Free from **elgato.com/downloads**. Windows 10/11 or macOS 12+.
Stream Deck device	Any model: MK.2, Mini, XL, Stream Deck +, Neo, or **Stream Deck Mobile** on a phone/tablet on the same Wi-Fi.
Supported FoMaKo camera	On the **same local network** as the computer running Stream Deck. Verified on K820N.
Camera IP address	You must know each camera's IP. Check it in the camera's web interface or your router.
Network	**TCP port 5678** (default, recommended) must be reachable between the PC and the camera. **HTTP port 80** is used by the AI Tracking action. Allow these in any firewall / security software. UDP 52381 is also supported as an alternative.

5. Install the plugin

1. Install and launch the Elgato Stream Deck application at least once, then connect your Stream Deck device.
2. Double-click `com.fomako.k820.streamDeckPlugin` and confirm **Install** when prompted. Stream Deck installs it and reloads automatically.
3. In the action list on the right, find the **FoMaKo K820 Camera Control** category — 10 actions are now available.

6. Add your cameras

The plugin ships with **no pre-configured cameras**. Add your own once; the list is shared by every key in this plugin.

1. Drag the **Cameras** action (bottom of the FoMaKo K820 Camera Control list) onto any free key.
2. Click that key. Its settings panel appears below the key grid.
3. Fill in the **Add camera** form and click **Add to list**:

Name	Any label, e.g. `Stage Left`
IP address	The camera's LAN IP, e.g. `192.168.1.50`
Port	`5678` for TCP (default) / `52381` for UDP
VISCA address	`0x81` (camera 1) — with IP control each camera is a separate connection, so keep the default
Protocol	**IP VISCA (TCP)** — recommended, or Sony VISCA over IP (UDP). Switching the protocol automatically sets the matching port.

4. Repeat for every additional camera. Click an existing entry to edit it; double-click to remove it.

> **IMPORTANT**
> Every control key has its own **Camera** drop-down. A key with no camera selected controls the **first** camera in the list. When you build keys for camera 2 (or 3), open each key's settings and set **Camera** explicitly — otherwise they will move the wrong camera.

> **TIP — MULTI-CAMERA LAYOUT**
> Use one profile page per camera: page 1 for camera 1, page 2 for camera 2. Keep the Cameras key on a spare page so you can change an IP later without rebuilding anything.

7. Build your keypad

Drag actions from the **FoMaKo K820 Camera Control** category onto the keys, then click each key to adjust its settings in the panel below.

Action	What it does	Key settings
Pan / Tilt	Moves the camera head. Hold the key to move, release to stop. 8 directions + Stop. Dial rotate = fine step, dial push = home.	Camera, Direction, Speed (1–10), Title
Home	Returns the camera to its home / centre position.	Camera, Title
Preset	Recall, save or clear a preset position (0–254).	Camera, Action, Preset number, Title
Zoom	Zoom in / out. Hold to zoom, release to stop; dial = smooth zoom.	Camera, Direction, Speed (0–7), Title
Focus	Focus near / far (hold), autofocus, manual focus, one-push focus.	Camera, Focus mode, Title
AI Tracking	Toggles smart auto-tracking on / off. Key turns green when on.	Camera, Key behaviour, Title
Exposure	Switches between Full auto, Manual, Shutter / Iris / Brightness priority.	Camera, Exposure mode, Title
White Balance	Switches WB mode, including colour-temperature steps, and One Push trigger.	Camera, WB mode, Title
Custom VISCA	Sends any raw VISCA hex command — for special functions not covered above.	Camera, VISCA command (hex), Title
Cameras	Management page: add / edit / remove cameras.	— (global camera list)

Saving a preset

1. Place a **Preset** key, set **Action** to *Save current position* and enter a preset number (e.g. `2`).
2. Move the camera to the framing you want, then press that key once.
3. Change the same key (or use a second key) to *Recall preset* with the same number. Pressing it returns the camera to that framing.

Custom VISCA format

Use `x` as the camera-address placeholder (so `8x` becomes `81` for address 1). A trailing `FF` is optional. Example — recall preset 1:

```
8x 01 04 3F 02 01 FF
```

8. Operating notes

- **Hold-to-move:** Pan / Tilt, Zoom and Focus near/far are continuous actions. Press and hold; the camera stops the moment you release. A 30-second safety timeout also stops movement if the connection is lost.
- **AI Tracking state:** the camera does not provide a tracking-status query, so the green / grey key state is maintained by the plugin. If tracking is changed with the IR remote or the camera's web UI, the key indicator may be out of sync — press the key once to bring it back in line.
- **One command per press:** tracking and other extended commands are sent one at a time. Avoid rapid repeated triggering (e.g. macros firing many commands per second).
- **Profile pages:** keys belong to the current page / profile. Switching pages does not change camera assignments.

9. Troubleshooting

Symptom	What to check
A yellow warning triangle appears on a key	No camera is configured, or the selected camera was deleted. Open the **Cameras** action and add / reselect a camera.
Pressing a key does nothing	① Can you `ping` the camera IP from the PC? ② Is the PC on the same subnet? ③ Is **TCP 5678** blocked by a firewall or antivirus? ④ Is VISCA over IP enabled in the camera's web settings? Try the **Cameras** page with *Sony VISCA over IP (UDP 52381)* as an alternative.
AI Tracking does not respond	Check that **HTTP port 80** to the camera is open, and that the key is an AI Tracking action from the **FoMaKo K820 Camera Control** category (see section 2).
The wrong camera moves	Open that key's settings and check the **Camera** drop-down. Keys with no selection default to the first camera in the list.
Key titles or icons look stale after an update	Delete the key and drag the action onto the grid again.
FoMaKo K820 Camera Control category is missing	Confirm the plugin installed (Stream Deck → Preferences → Plugins), then restart the Stream Deck application.

10. Technical reference

Control protocol	IP VISCA — TCP 5678 (raw VISCA, default); Sony VISCA over IP — UDP 52381 (8-byte header, alternative)
AI Tracking	Camera HTTP interface (port 80)
Camera address	0x81 (address 1) by default; configurable per camera
Preset range	0–254
Pan / Tilt speed	User scale 1–10, mapped to VISCA pan 1–24 / tilt 1–20
Verified camera	FoMaKo K820N
Plugin compatibility	Stream Deck 6.9+, Windows 10/11, macOS 12+
Plugin identifier	`com.fomako.k820`

SUPPORT

For firmware-specific commands, additional camera models or integration questions, contact your FoMaKo representative and quote plugin version 1.0.0.

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