

# SmartMix Director

## Bitfocus Companion Module

### Quick Installation & Usage Guide





Version 1.0.6 | February 2026


#### About This Guide

This guide walks you through installing the SmartMix Director module into Bitfocus Companion, configuring the connection to your server, and using the full set of preset buttons, feedbacks, and dynamic variables for live production control.

## 1 · Prerequisites

Before you begin, make sure the following requirements are met:

-  Bitfocus Companion 3.0 or higher installed
-  SmartMix Director running with HTTP API enabled
-  Network connectivity between Companion and the SmartMix Director host
-  Node.js 18+ (required for development / building only)

 The default API port is 8089. Verify connectivity in any browser:  
<http://localhost:8089/api/status>

## 2 · Installing the Module

### Step A – Download the Module File

[Download the bitfocus-smartmixdirector.tgz](#) file to your local machine.

### Step B – Import into Companion

1. Open Bitfocus Companion and navigate to the Web Interface (default: <http://localhost:8000>)
2. Click the Modules tab in the left sidebar
3. Click the yellow Import module package button

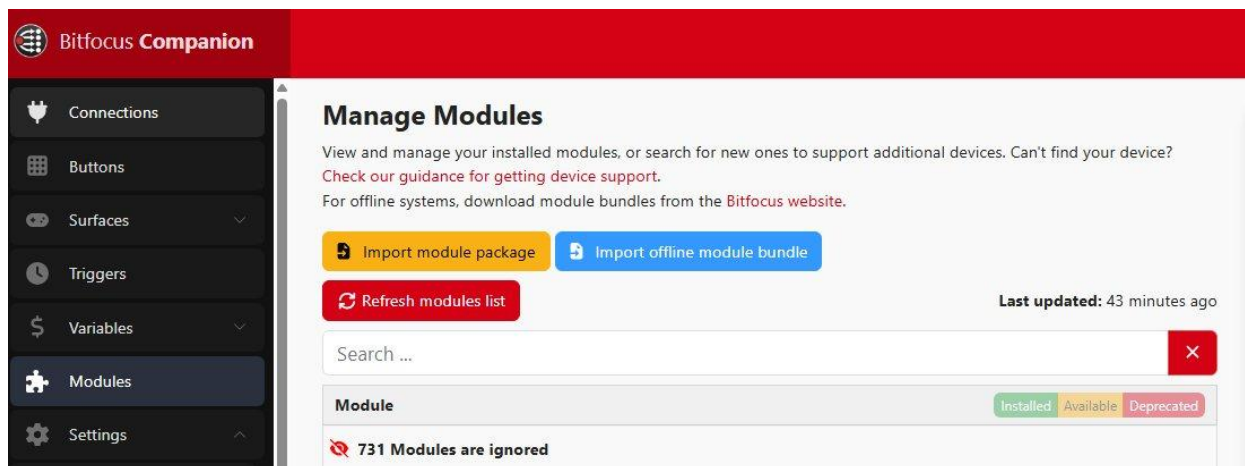


Fig. 1 – Modules page: click “Import module package” to upload your pkg.tgz file

4. Select the pkg.tgz file you downloaded and confirm

- The module appears in the list as AIW: SmartMix Director with version 1.0.6

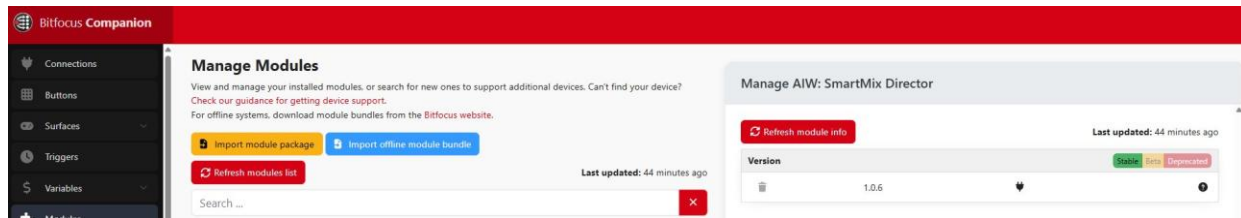


Fig. 2 – Module successfully installed – version 1.0.6 shown as Stable

### Step C – Add a New Connection

- Go to the Connections tab in the left sidebar
- Click Add Connection
- Search for SmartMix Director and click Add next to AIW: SmartMix Director

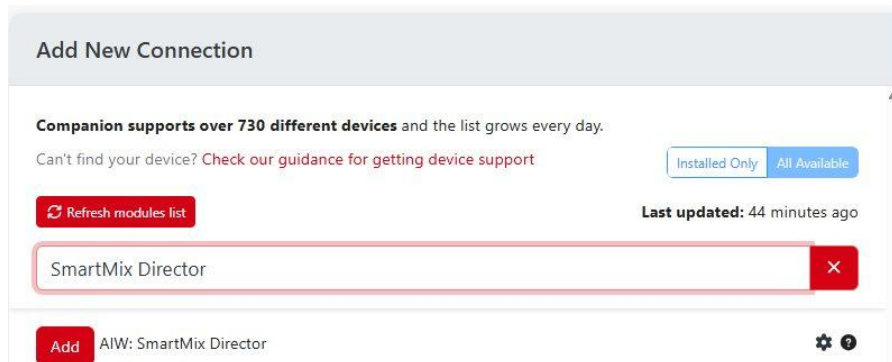


Fig. 3 – Searching for the module and clicking Add

## 3 · Configuring the Connection

After adding the instance, the Edit Connection panel opens. Configure the following fields:

Field	Default	Description
SmartMix Director Host	127.0.0.1	IP or hostname of the SmartMix Director server
HTTP API Port	8089	API port number
Status Polling Interval	1000 ms	How often to refresh live status
Auto-connect to vMix	Off	Connect to vMix automatically on startup

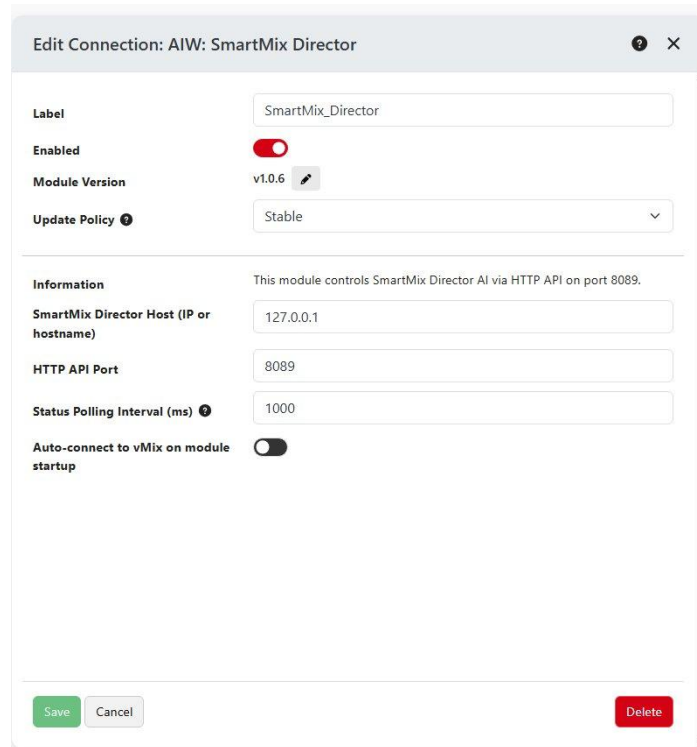


Fig. 4 – Edit Connection panel with all configuration fields

Click Save when done. The Connections page will show a green tick confirming the module is online.

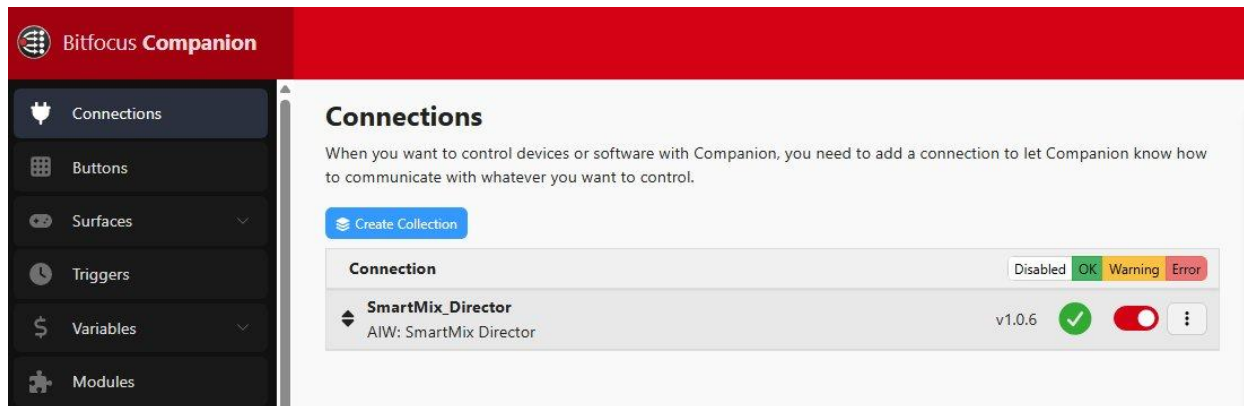


Fig. 5 – SmartMix\_Director connection showing OK status

## 4 · Using the Preset Buttons

The module ships with a rich set of preset buttons organized into categories. Access them from the Buttons tab by clicking the Presets sub-tab, then selecting SmartMix\_Director.

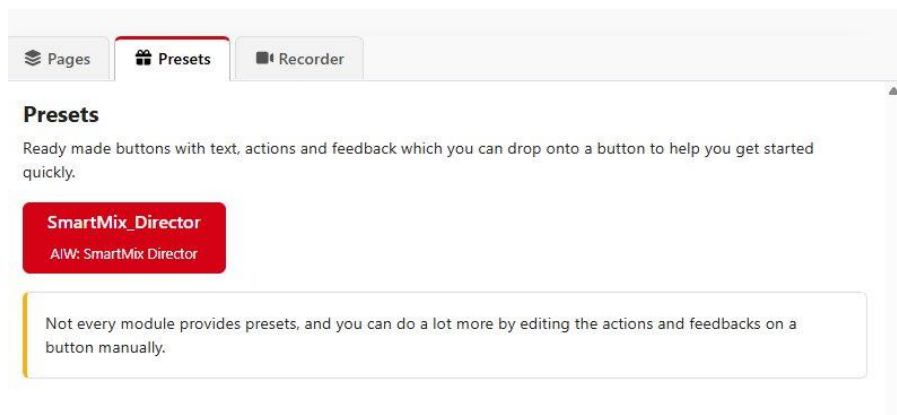


Fig. 6 – Presets tab – click SmartMix\_Director to expand all categories

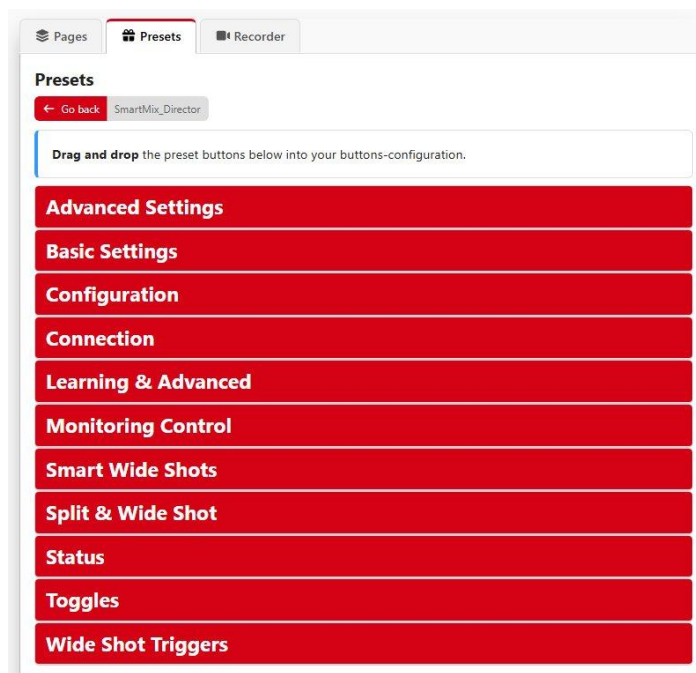


Fig. 7 – All available preset categories

Drag and drop any preset button from the panel onto your button grid to add it instantly.

💡 Each category groups related controls. Drag presets from any category – the button arrives pre-configured with actions and color feedbacks already set.

## Monitoring Control

Start, stop, or toggle automated camera switching with live color feedback.

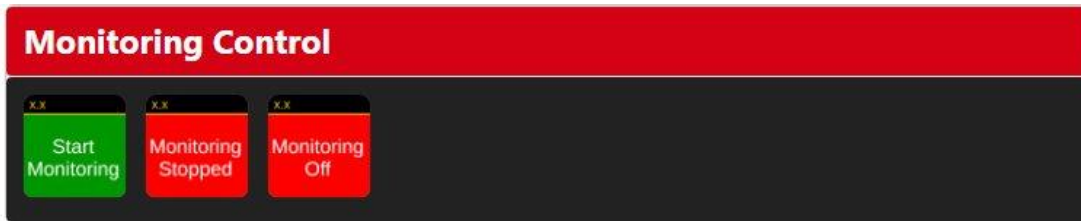


Fig. 8 – Monitoring Control presets: Start Monitoring (green), Monitoring Stopped (red), Monitoring Off (red)

## Connection

Manage the vMix connection directly from a button.



Fig. 9 – Connection presets: Connect vMix (blue) and vMix Disconnected (orange)

## Configuration

Quickly reload the last used configuration file.

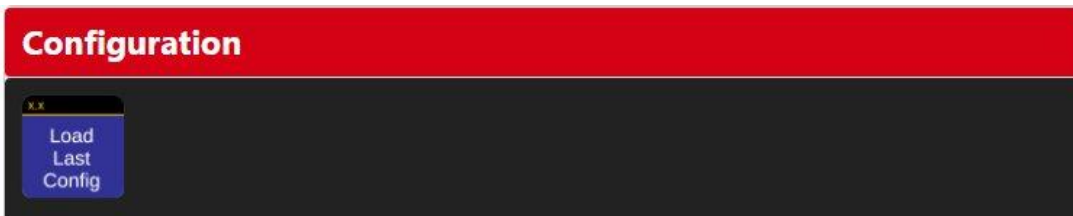


Fig. 10 – Configuration preset: Load Last Config button

## Status

Live status display buttons showing monitoring state, active camera, microphone count, and splits.

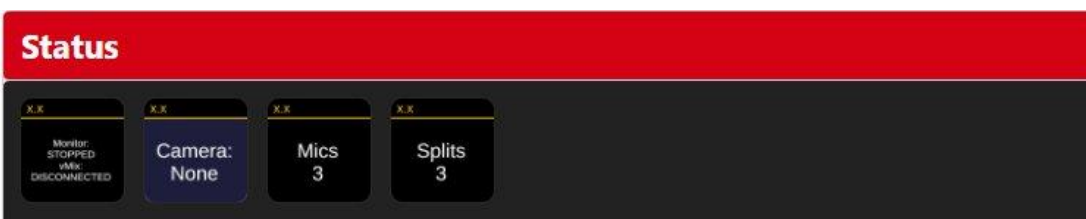


Fig. 11 – Status presets showing live variables: Monitor state, Camera, Mics, Splits

## Basic Settings

Adjust core sensitivity and AI detection parameters from dedicated buttons.



Fig. 12 – Basic Settings presets: sensitivity, minimum air time, AI settings

## Advanced Settings

Fine-tune window sizes, activity thresholds, speech variance, and reaction parameters.

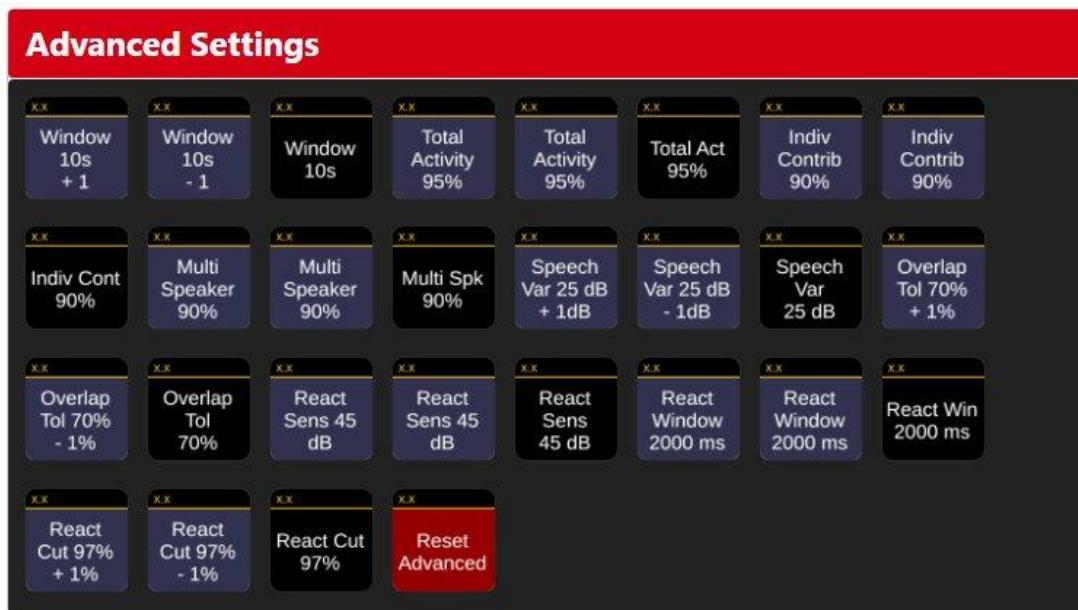


Fig. 13 – Advanced Settings presets with increment/decrement controls

## Learning & Advanced

Toggle Auto Learn mode and enable or disable the Advanced Settings panel.

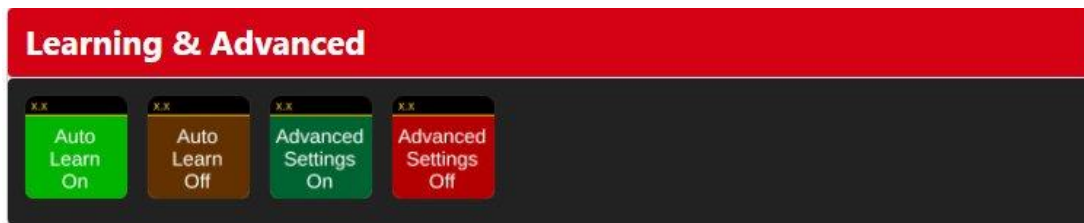


Fig. 14 – Learning & Advanced: Auto Learn On/Off, Advanced Settings On/Off

## Toggles

One-button toggles for the most common on/off settings, with live feedback colors.



Fig. 15 – Toggles category with color-coded live state feedback

## Smart Wide Shots

Control and learn Smart Wide Shot behavior including timing and feedback.

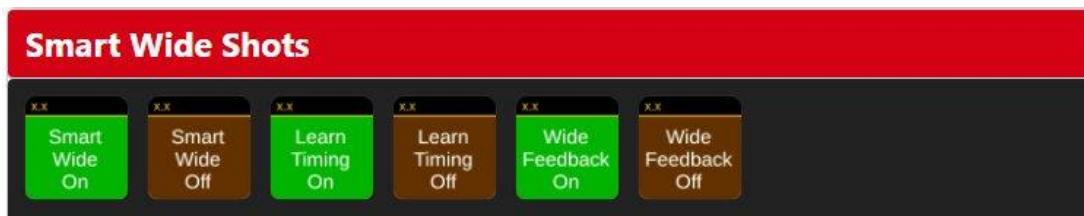


Fig. 16 – Smart Wide Shots presets

## Split & Wide Shot

Configure split and wide-shot minimum air times.

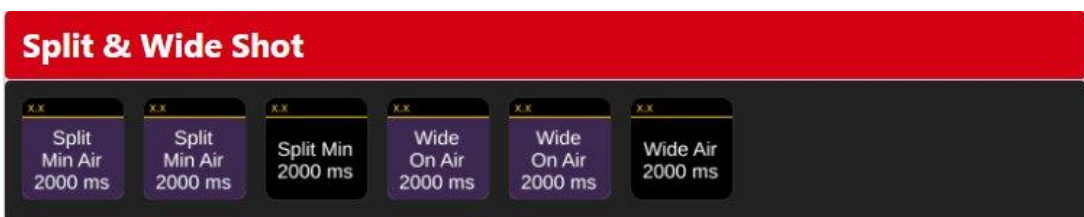


Fig. 17 – Split & Wide Shot timing presets

## Wide Shot Triggers

Set silence duration, monologue thresholds, transition chances, and multi-speaker settings.



Fig. 18 – Wide Shot Triggers: all threshold increment/decrement controls plus Reset

## 5 · Custom Actions

Beyond presets, you can assign any action manually to a new or existing button:

### Monitoring Control

- **Start Monitoring** – Begin automated camera monitoring and switching
- **Stop Monitoring** – Stop automated monitoring
- **Toggle Monitoring** – Switch on/off based on current state

### vMix Connection

- **Connect to vMix** – Establish connection to vMix
- **Disconnect from vMix** – Close the vMix connection

### Configuration

- **Load Configuration File** – Load a specific config file by full path
- **Load Last Configuration** – Reload the most recently saved config

### Status

- **Refresh Status** – Manually trigger a status update from the API

## 6 · Visual Feedbacks

Feedbacks update button colors automatically to reflect the live system state:

Feedback	What Happens
Monitoring Active	Button turns green
Monitoring Inactive	Button turns red
vMix Connected	Button turns green
vMix Disconnected	Button turns orange
API Connected	Button turns blue
API Error	Button turns red

## 7 · Dynamic Variables

Use these variables inside button labels to display live data. Values update automatically at the configured polling interval.

Variable	Possible Values	Description
monitoring_status	ACTIVE / STOPPED	Current monitoring state
vmix_connection	CONNECTED / DISCONNECTED	vMix link status
api_status	ONLINE / OFFLINE	API reachability
current_config	(file path)	Active configuration file
last_error	(message)	Most recent error message
api_version	(version string)	API version from server

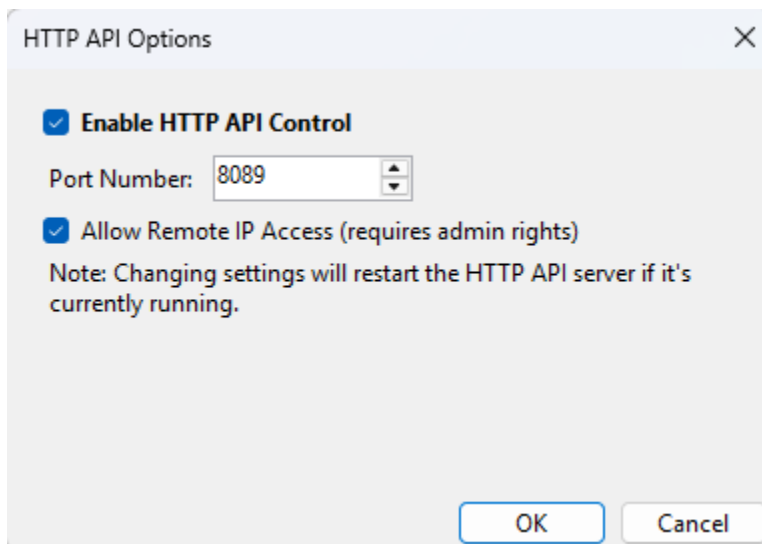
Example usage in a button label:

```
$(bitfocus-smartmixdirector-ai:monitoring_status)
$(bitfocus-smartmixdirector-ai:vmix_connection)
$(bitfocus-smartmixdirector-ai:api_status)
```

## 8 · Troubleshooting

### Module shows “Connection Failure”

- Verify SmartMix Director is running
- Check the IP address and port in the module configuration
- Ensure HTTP API is enabled in SmartMix Director
- Check firewall settings on both machines
- If it the same network but not the same PC, make sure in SmartMix Director that both **“Enable HTTP API Control”** and **“Allow Remote IP Access”** are checked (from the top menu **Settings > HTTP API Options**), and that SmartMix Director have admin privileges.



### Feedbacks not updating

- Increase the Polling Interval if the network is slow
- Check the `api_status` variable for connectivity issues
- Review Companion logs for error messages

### Actions not working

- Verify the API connection is established first
- Check SmartMix Director AI logs for errors
- Test the API endpoint manually:

```
curl http://localhost:8089/api/status
```

### Reading the Error Log

When a connection issue occurs, Companion logs a detailed message. Look for lines like:

```
26.02.26 11:46:54 Instance/Connection/SmartMix_Director: API Error (/api/status): fetch failed
```

*Fig. 19 – Example API Error in the Companion log: fetch failed indicates the server is unreachable*

SmartMix Director AI Module | v1.0.6 | MIT License  
Requires Bitfocus Companion 3.0+ | Node.js 18+