

VU GoStream Controller

User Guide

Desktop application for controlling GoStream Deck, Duet and Duet 8 ISO devices

Version 2.26.5.22

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1. Getting Started

System Requirements

Windows 10/11 (64-bit), Linux (64-bit), OSX (x64), OSX (arm64)

Network connection to GoStream device

Connecting to Your Device

Enter the IP address of your GoStream device in the IP field, or click the Auto IP button to automatically discover devices on the network.

If the Automatic IP feature finds multiple devices, it will display a list.

Click the Connect button or press Enter. The device name will appear when connected successfully. The Auto IP button is disabled while connected to prevent accidental discovery during operation.

The application automatically syncs all settings from the device upon connection.

Always On Top

Use the "On top" toggle in the header to keep the application window above other windows. This is useful during live productions when you need quick access to controls.

Persistent Settings

The application automatically saves and restores your preferences:

IP Address: Last used device IP

Always On Top: Window topmost setting

PGM with Transitions: Program button behavior

Audio Meter: VU meter visibility

Download Directory: File download location

Preset Browser Path: Last visited folder in the preset browser

Settings are stored in settings.vugstini in the application folder.

2. Main Window Overview

The main window provides quick access to all essential switching and production controls.

Section	Description
Header	IP address, Auto IP, Connect button, device status, Clock, On Top toggle, Settings
Program Row	Input buttons for live output (red highlight when active)
Preview Row	Input buttons for preview selection (cyan highlight when active)
Autocut Row	Toggle switches for enabling inputs in auto cut/mix rotation
PGM Audio Meter	VU meter showing program audio levels with Show toggle
Recording Panel	Program recording and ISO recording controls with storage info
Stream Panel	Stream toggles for up to 3 destinations with Live button
Bottom Bar	Macros, Web Panel, QR Code, MultiSource, Download buttons

3. Program and Preview Switching

Program (Live Output)

Click any button in the Program row to immediately switch that input to the live output. The active input is highlighted in red.

Preview

Click any button in the Preview row to select which input will be switched to Program on the next transition. The selected preview is highlighted in cyan.

Available Inputs

In1 – In8: Physical video inputs

AUX: Auxiliary input

S/S: Still Store (graphics)

MP1, MP2: Media Players

4. Transitions

Cut

Instantly switches Preview to Program without any transition effect.

Hotkey: Num pad +

Auto

Executes the selected transition effect from Preview to Program using the configured duration.

Hotkey: Num pad -

Marker

Click the Marker button to add a chapter marker to the recording at the current timestamp. This button is only active when connected to a device.

Hotkey: Num pad *

5. Auto Cut and Auto Mix

Automatically switch between enabled inputs at regular intervals.

Enabling Inputs

Use the toggle switches in the Autocut row to enable which inputs participate in the automatic rotation.

Modes

Mode	Description
Auto cut	Sequential rotation through enabled inputs with cut transition
Random auto cut	Random selection from enabled inputs with cut transition
Auto mix	Sequential rotation with dissolve transition
Random auto mix	Random selection with dissolve transition

Interval Settings

Fixed interval: Switch at exact intervals (e.g., every 5 seconds)

Random interval: Switch at random intervals within a range (e.g., 3-8 seconds)

6. Recording

Program Recording

Records the program output (what goes to stream/live). Click the REC button to start/stop recording. The button pulses when recording is active.

Storage: Available space on recording media

Time left: Estimated remaining recording time

Duration: Current recording length

ISO Recording

Records individual input channels separately for post-production editing. Enable specific channels in Settings > Record > ISO channels.

7. Streaming

Stream to up to 3 destinations simultaneously.

Stream Controls

Stream toggles: Enable/disable individual stream destinations

Live button: Start/stop all enabled streams. Configure stream servers and keys in Settings > Stream.

8. Settings

Access settings via the gear icon in the header.

Stream Settings

Bitrate: Stream quality (higher = better quality, more bandwidth)

Server URLs: RTMP server addresses for each stream

Stream Keys: Authentication keys for each stream

Record Settings

Bitrate: Recording quality

Name prefix: Filename prefix for recordings

Format: H.264 or H.265 codec

ISO channels: Select which inputs to record individually

Buttons Settings

Customize the order of input buttons using the arrow controls. Click Reset to restore default order.

9. MultiSource

9.1 Multisource for Deck and Duet

This window is used to configure multisource settings for Deck and Duet.

All numeric values can be adjusted using:

- the mouse wheel
- the on-screen arrow buttons

Use the CTRL and Shift keys for larger adjustment steps.

Click the "Current Color" field to open a color palette and select the border color.

9.1 Multisource for Duet ISO 8

The MultiSource Editor allows you to configure up to four video input windows for picture-in-picture compositions. Each window can be independently positioned, scaled, cropped, and styled.

Interface Layout

Left Panel: Controls for the selected window and global settings

Right Panel: Visual canvas showing all four windows in real-time with window number labels

Window Selection

Use the numbered buttons (1-4) or click directly on a window in the canvas to select it for editing. The selected window is indicated by a dashed gray border outline that appears outside the window.

Multi-Selection

Hold CTRL and click on multiple windows in the canvas to select them together. Multi-selected windows can be dragged together while maintaining their relative positions. Changes made in the Results Panel (position, scale, crop, border settings) are applied to all selected windows simultaneously - each window's value changes by the same amount as the active window. The primary selected window has a thicker highlight border.


Resizing and Cropping in the Graphic Editor

Use the handles on the video window to adjust the crop values. Hold Shift to adjust the opposite side at the same time.

Use the corner handles to adjust the crop values of two sides simultaneously.

Hold Shift while dragging a corner handle to resize the video window.

Snapping

To enable this feature, click the 'Snapping' button in the upper-right corner of the Multisource Editor. 

When the Snapping feature is enabled, video windows snap to each other, to the edges of the entire window, and to the center. Holding down the CTRL key disables this feature.

If Snapping is disabled (the default setting), the CTRL key activates the feature while moving video windows.

A thin line on the screen indicates what the moved video window is snapping to.

Window Parameters

Parameter	Description
Enabled	Toggle to show or hide the window
Source	Select the video input source
Position X/Y	Move window horizontally (-32 to +32) and vertically (-18 to +18)
Scale	Resize from 15% to 100%
Crop	Crop edges (Left, Right, Top, Bottom) from 0-100%
Corner Radius	Round corners (0-480)
Border	Width (0-10), color via Hue/Saturation/Brightness or color picker

Border Color Picker

Click the color preview rectangle below the border settings to open a visual color picker. Select colors from the HSV spectrum and adjust brightness with the slider.

Copy, Paste, and Reset

Copy: Copies all parameters of the selected window

Paste: Applies copied parameters to the selected window

Reset: Restores default values for the selected window

Undo and Redo

Each window maintains its own undo history with up to 20 steps. Consecutive changes to the same parameter are grouped. Drag operations on the canvas are recorded as a single undo step. When using multi-selection, undo snapshots are created for all selected windows before any change. Buttons appear dimmed when no undo/redo is available.

Mouse and Keyboard Controls

Drag: Click and drag windows on canvas to reposition

CTRL + Click: Add/remove windows from multi-selection

Shift + Drag: Constrain movement to horizontal or vertical axis

Mouse wheel: Adjust numeric values (± 0.01)

Ctrl + wheel: Larger increments (± 0.1)

Shift + wheel: Even larger increments (± 1.0) for Position X/Y

Reset buttons: Restore individual parameter defaults

Presets

Save preset: Save all four windows to a .vumspreset file

Load preset: Restore settings from a saved preset file

Browse Presets: Opens a visual preset browser with folder navigation and thumbnail previews showing color-coded window positions. Double-click a preset to load it. The loaded preset name is displayed in the editor. The browser remembers your last visited folder.

10. Files

This module allows you to browse and download recordings from your GoStream device via FTP. Access it by clicking the Download button in the main window.

Interface Overview

Root button: Navigate to FTP root directory

Up button: Navigate to parent directory

Folder icon: Select local download directory

Open icon: Open download directory in file explorer

File Browser

The file browser displays folders and media files (MP4, WAV) from the device storage. Columns can be sorted by clicking headers: Name (file or folder name), Type (Folder, MP4, WAV), Size (file size in megabytes), Date Created (file creation date).

Navigation

Double-click a folder to enter it

Double-click a file to download it immediately

Use Shift+click or Ctrl+click for multiple selection

Downloading Files

Select a download directory using the folder icon. Select one or more files in the browser. Click Download or double-click a single file. The progress bar shows download status with speed (MB/s) and estimated time remaining. Click Stop to cancel the download. The download directory is automatically saved and restored between sessions.

Uploading Files (GoStream Duet 8 ISO only)

On GoStream Duet 8 ISO devices, you can upload MP4 files by dragging and dropping them into the file browser. Uploads are only allowed in the "images", "videos 1" and "videos 2" folders. The upload progress is shown in the same progress bar used for downloads. This feature is not available on other GoStream models.

Due to GoStream's limitations, you must remove the SD card or SSD after uploading the files, and then reinsert it.

When uploading, .jpg and .png files are allowed in the 'images' folder, and .mp4 files are allowed in the 'video 1', and 'video 2' folders. Capital letters are not allowed in the file extension.

The playback list will be updated after uploading.

Uploading files is not allowed while recording.

Deleting Files (GoStream Duet 8 ISO only)

You can delete the selected files by right-clicking on them. You can delete multiple files at once.

Due to GoStream's limitations, after deleting the files, you must remove the SD card or SSD and then reinsert it.

The playback list will be updated after deletion.

You cannot delete files while recording.

Visible Folders

Root level: all folders

Subfolders: 'ISO_record', 'videos', 'videos 1', 'videos 2', 'images'.

Visible Files

.mp4, .jpeg, .png

11. Web Panel

Access a web-based control panel from any device on the same network.

Opening the Web Panel

Web Panel button: Opens the panel in your default browser

QR Code button: Shows a QR code for easy mobile access. The application automatically selects the correct network adapter that matches your GoStream device's subnet.

Web Interface

The web interface provides a home page with links to available modules:

Switcher: Full PGM/PVW control panel with CUT and AUTO transitions, matching the desktop application's input configuration.

Tally: Full-screen tally light display.

Select an input from the dropdown - the screen turns red when that input is on Program, green when on Preview. Perfect for camera operators. The selected input is saved and restored automatically.

Player: You can play the videos directly in your browser.

This browser window displays the videos in the "Web player" group of the Player module. A single click in your laptop's browser or a simple tap on your tablet or phone's screen will play the videos according to the settings in the Player module. (Mode, End Action, Send to PGM, Play after click)

12. Clock

Click the clock icon in the header to open the resizable clock window, which displays the current time in HH:MM:SS format.

In Windows, the clock window has no title bar, ensuring a clean look. You can move the window by clicking anywhere on it. The clock automatically adjusts to the window's size. To close it, click the X button in the corner.

On Linux and OSX, the traditional window layout is displayed.

13. Macros

The Macros window provides access to device-stored macros for automating complex operations. Click the Macros button to open the macro panel.

14. Player

In this module, you can organize the videos in Player 1 and Player 2.

Perhaps the module's most important feature is that you can move videos between groups using drag-and-drop. You can even move multiple videos at once.

Use the Shift and Ctrl keys to select them.

At the top of the player window, you can see the player name and playback status. The current playback time is displayed on the left side, while the remaining time is shown on the right side.

The control buttons allow you to manage video playback in Group Mode (Play, Pause), navigate between videos (Previous, Next), or clear the player (Stop).

Mode: Controls how files in the group are played back.

End Action: Defines the action that occurs when video playback ends.

Send to PGM: If this option is enabled, double-clicking a video sends it to PGM.

Note: A brief black flash may appear in the player while the video is loading. The VU GoStream Controller attempts to hide this issue.

Play after click: If this option is enabled, double-clicking starts video playback.

Create: Places the selected videos into a new group.

Note: The Player module follows the firmware logic, therefore a new group can only be created from selected videos.

Remove: Deletes the selected group and moves its files to the **Default List** group.

Sort A-Z: Displays files in alphabetical order. The actual order within the group is not changed, only the display order.

CTRL + Click on a group name: Renames the group.

Videos placed in the **Web panel** group will appear on the **Web panel**. If the **Web panel** group does not exist, nothing will be displayed on the Web panel. The contents of the **Web panel** groups from both **Player 1** and **Player 2** are displayed together on the Web panel.

15. Akai APC mini

Introduction

This guide explains how to use an Akai APC Mini MIDI controller with the VU GoStream Controller application. The controller allows quick switching between Preview (PVW) and Program (PGM) sources, as well as audio and headphone level control without using a mouse.

The guide assumes:

- The APC Mini is connected via USB.
- The software is connected to a GoStream video mixer.

APC Mini Overview

The application uses the following APC Mini controls:

- **Buttons** 1-8 — source selection for PVW.
- **Buttons** 9-16 — source selection for PGM.
- **9 faders** — audio and headphone level control.
- **LED indicators** — active PVW sources light green, active PGM sources light red.

Connecting the Controller

Automatic Connection (Recommended)

1. Connect the APC Mini via USB.
2. Launch the software.
3. Press **Connect** on the main screen.

The software automatically detects and connects the APC Mini MIDI input and output.

Manual Connection

If automatic detection fails:

1. Open **Settings** → **MIDI**.
2. Select **APC MINI** for both **MIDI In** and **MIDI Out**.
3. Press **Connect** for both devices.

When connected successfully:

- The status changes to **Connected**.
- LED feedback becomes active.

Using PVW and PGM Buttons

The top 16 APC Mini buttons are divided into two rows:

- **First row (1–8):** PVW (Preview)
- **Second row (9–16):** PGM (Program)

Pressing a button immediately switches the selected source on the video mixer.

LED feedback updates automatically:

- **Green:** active PVW source
- **Red:** active PGM source

Fader Control

The 9 APC Mini faders can control:

- Input audio channels
- Microphones
- Master PGM level
- Headphone output level

By default, faders are unassigned until configured in the **Fader Mapping** panel.

Fader Mapping

Opening the Mapping Panel

1. Open **Settings** → **MIDI**.
2. Locate the **Fader Mapping** section.

The panel becomes visible only when the APC Mini is connected.

Available Assignments

Each fader can be assigned to:

- In1, In2, etc. — input audio channels
- Mic 1, Mic 2 — microphone channels
- PGM — master program output
- Phone PGM — headphone output
- -- not assigned -- — disabled

Level Ranges

- Standard faders: approximately **-75 dB to +10 dB**
- Phone PGM: **-31 dB to 0 dB** for finer headphone adjustment

Saving Settings

Fader assignments are saved automatically when the Settings window is closed.

Settings are stored per connected mixer device and automatically restored during future sessions.

Troubleshooting

LEDs Do Not Light Up

- Verify both MIDI connections show **Connected**.
- Reconnect the APC Mini USB cable if necessary.

Buttons Do Not Switch Sources

- Confirm the software is connected to the video mixer.
- Verify MIDI Input is connected.

Faders Have No Effect

- Check that the fader is assigned in the **Fader Mapping** panel.

Audio Drops During Fast Fader Movement

This usually indicates a network communication issue between the software and the mixer.

Quick Start Summary

1. Connect the APC Mini via USB.
2. Launch the software and connect to the mixer.
3. Use the first row for PVW selection.
4. Use the second row for PGM selection.
5. Configure fader assignments in **Settings** → **MIDI**.
6. Settings are saved automatically.