

GodwinMix: a live mixer whose programme does not stop

What GodwinMix is, what it promises, and the evidence behind the promise.

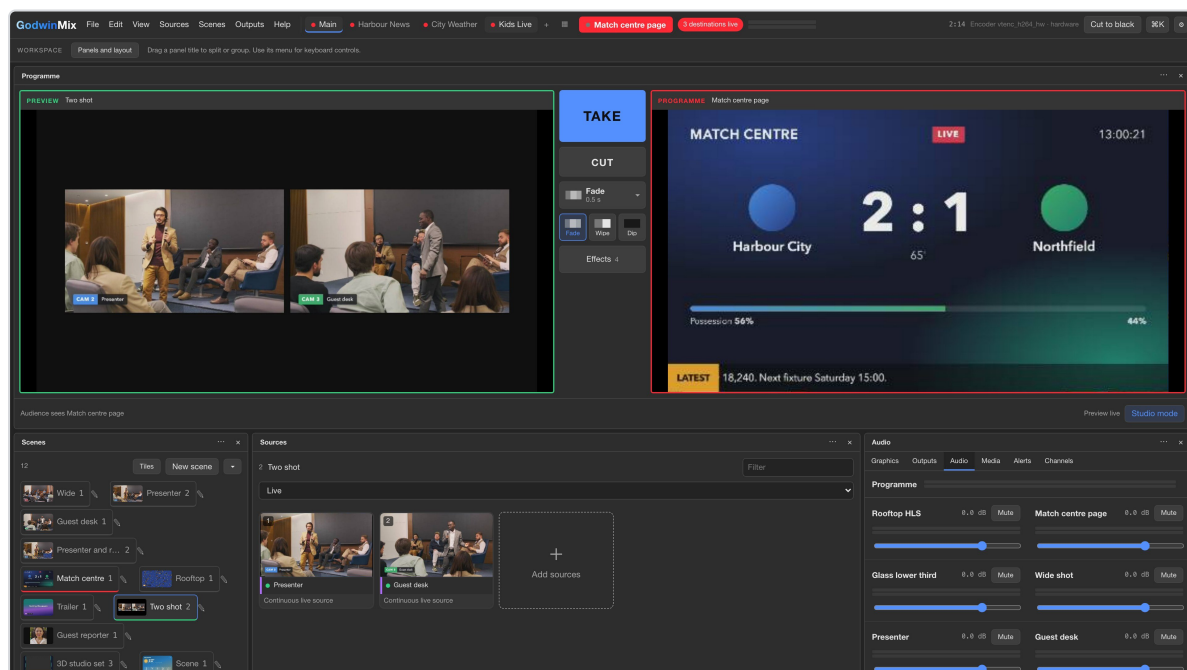
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What it is

GodwinMix is a live video mixer. It is a program you run on your own computer or server. It takes several pictures (cameras, phones, video files, web pages, feeds from other buildings) and turns them into one live programme, which it sends to YouTube, Facebook, Twitch, your own website or a broadcaster's link, several at once.

You choose what goes on air by pressing Take in a web page. That page can be on the machine itself, on a laptop across the room, or on a phone. A script can press Take too, and so can an AI assistant. It runs as a desktop app on Windows, macOS or Linux, or on a server with no screen at all.

It is free, open source software under the Apache License 2.0, with no account to create. The current version is 0.2.1, released on 5 October 2026 with installers for all three systems.



Studio mode: the next shot lines up in Preview on the left while viewers watch Programme on the right, with Take and Cut between them.

The one promise

Your viewers do not see the stream drop. Everything else in the design follows from that.

Switching cameras, adding a guest or rolling an advert never restarts the connection to YouTube or anywhere else, so viewers never see a "stream offline" message in the middle of a show.

If a camera dies, viewers see a black picture in its place and hear silence, and the stream carries on at its full frame rate until you take another shot. If every camera dies, the stream still carries on.

If one destination fails, say Facebook, it reconnects by itself in about two seconds and YouTube is not touched. If your internet drops for a moment, about five seconds of the show is held back so the gap is covered.

The evidence

These results come from the project's own tests against two independent streaming servers, with 720p sources at 30 frames a second. The results were measured with separate tools, so the mixer was not marking its own homework.

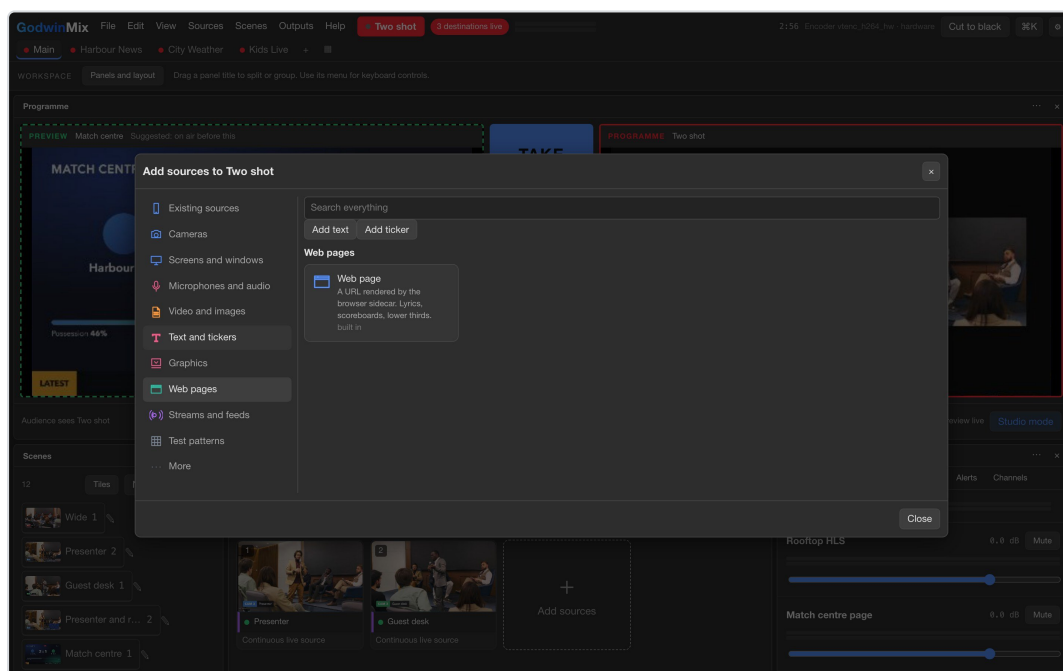
Test	Result
Takes on both servers	Exactly 30 frames a second, no gap at any take
The server's own record	1 connection, 0 disconnects across repeated takes
Cut to black	True black
Connection to a destination killed repeatedly	One reconnect each, about 2 seconds
Receiving server switched off for 15 seconds	12 retries; output live 5 seconds after it came back
Throughout all failures	No errors on the programme, no crashes
Both cameras dead	Programme still live, showing black
Ad break	240 of 240 frames, 30 every second, automatic return
Scheduled cue accuracy	4 ms late (one frame is 33 ms)
Sound through a break	Sound and picture stayed matched every time
A new web stream added live	Taken to air and back with no gap
Sources across a restart	Come back live
Destinations added and removed live	Largest gap one frame
Sources added and removed live	Largest gap one frame
Run with no desktop app at all	Everything worked from the command line
Multiview in the browser	8 frames a second, about 1.5 Mbit/s

Every change to the code is also checked by an automatic test that puts a web page on air and confirms the stream arrives.

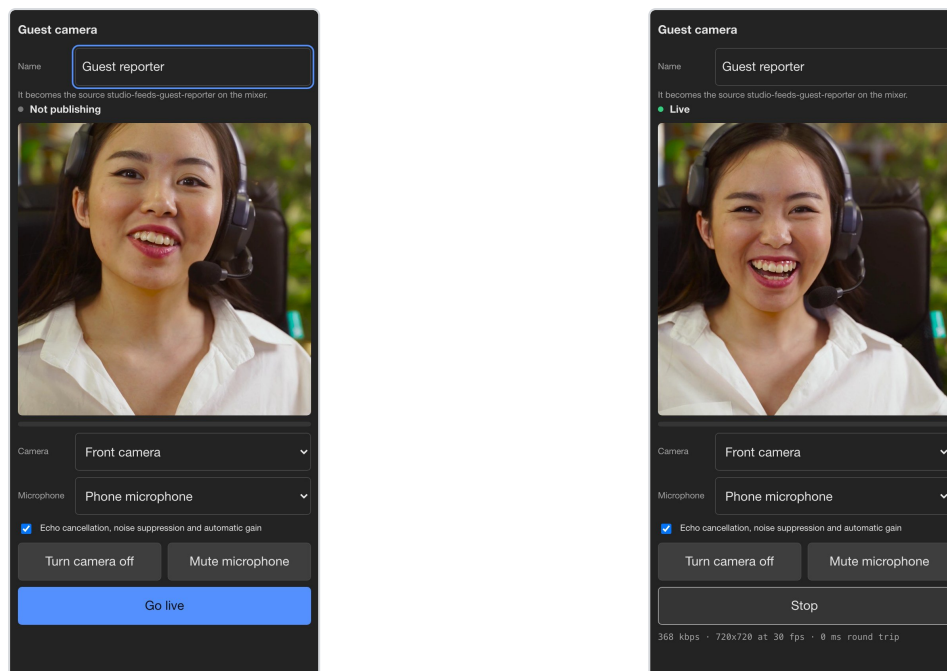
What you can mix

- Cameras: USB and built in cameras, IP cameras, and cameras on the local network (NDI).
- Phones as cameras: under Cameras, "A phone's camera" shows a QR code. One scan and the phone is a camera, with nothing to install. Each phone gets its own name, can flip between front and back camera, and keeps its screen awake.
- Remote guests: they open a link in their browser and join at up to 720p, with echo cancellation and noise suppression. If their connection drops, the page reconnects by itself.
- Encoders and other software: OBS, a hardware encoder or a phone streaming app can send straight into GodwinMix.
- Web pages: a scoreboard, a lyrics page, a dashboard, a page with video in it. A page can sit transparently over a camera.
- Files: video, audio, pictures and slides, uploaded from the browser.
- Screens, microphones, sound cards, internet radio, and feeds from other buildings or a broadcaster.

A scene collection from OBS can be dropped in and brought across.



Cameras, screens, microphones, files, text, graphics, web pages and streams all come from one chooser.



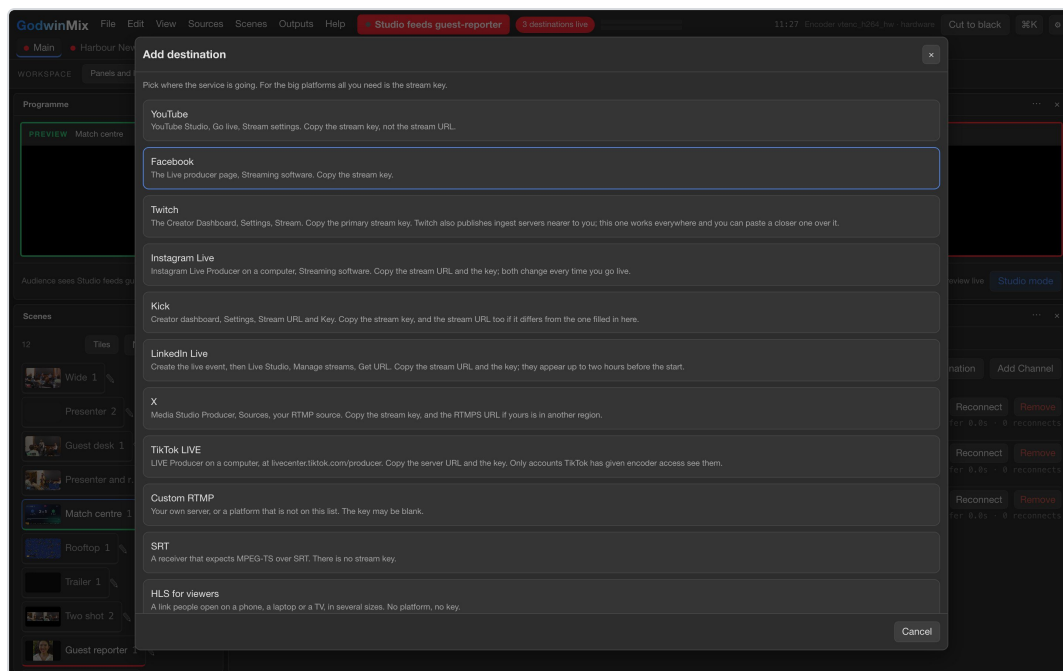
A guest opens a link on a phone, picks a camera and goes live, with nothing to install.

Where it sends

Pick a platform, paste the stream key, and the key is never shown again. The list holds YouTube, Facebook, Twitch, Instagram Live, Kick, LinkedIn Live, X, TikTok LIVE, any custom address, and SRT for broadcasters. Destinations can be added and removed during the show, and a problem with one never affects the others.

It can also send to a broadcaster's link, to other machines on the local network, and to a viewer in a browser less than half a second behind. It can serve your own website's player directly, in several qualities from 1080p down to 360p, so each viewer gets the one their connection can carry.

Recording is built in. Even if the computer crashes, the recording up to that moment plays.

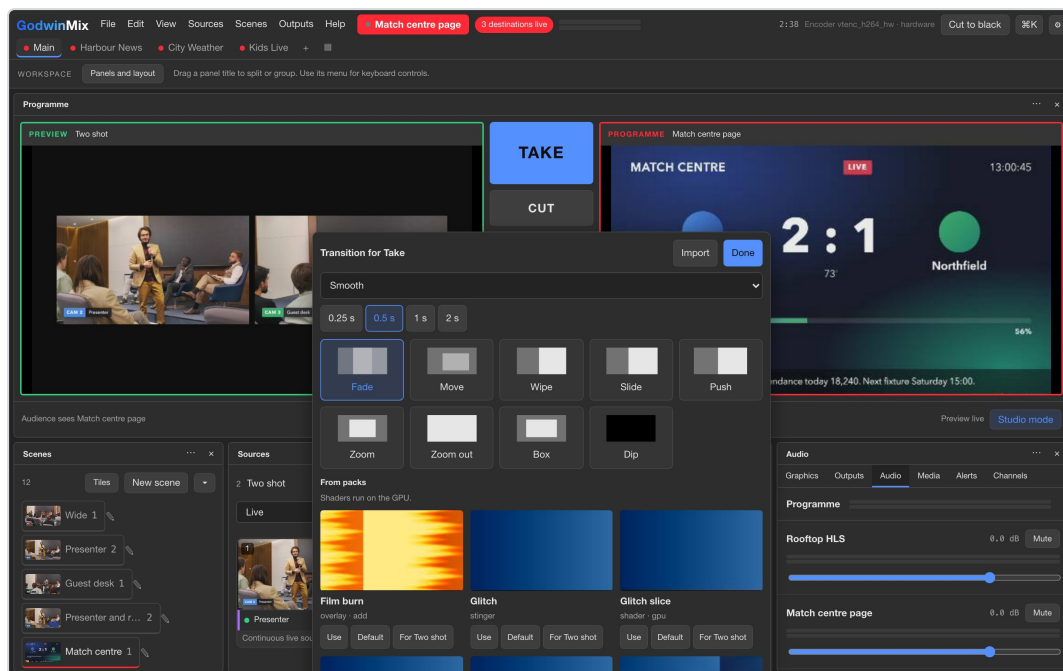


Pick a platform from the list and paste its key.

Studio mode and the take bar

Studio mode is now the default view: Preview on one side, Programme on the other, Take between them. The take bar was laid out in October 2026 to work like a vision mixer. Take and Cut come first, large, in the same place at every screen width, so nothing pushes them off a phone. Under them, one control names the current transition and its length, and opens a list of every transition with its direction, colour, easing and length. Three quick picks follow what you use most. Effects sit behind one button.

Preview is never black. With nothing lined up, it shows the scene you are most likely to take next, labelled "Suggested", and Take takes it.



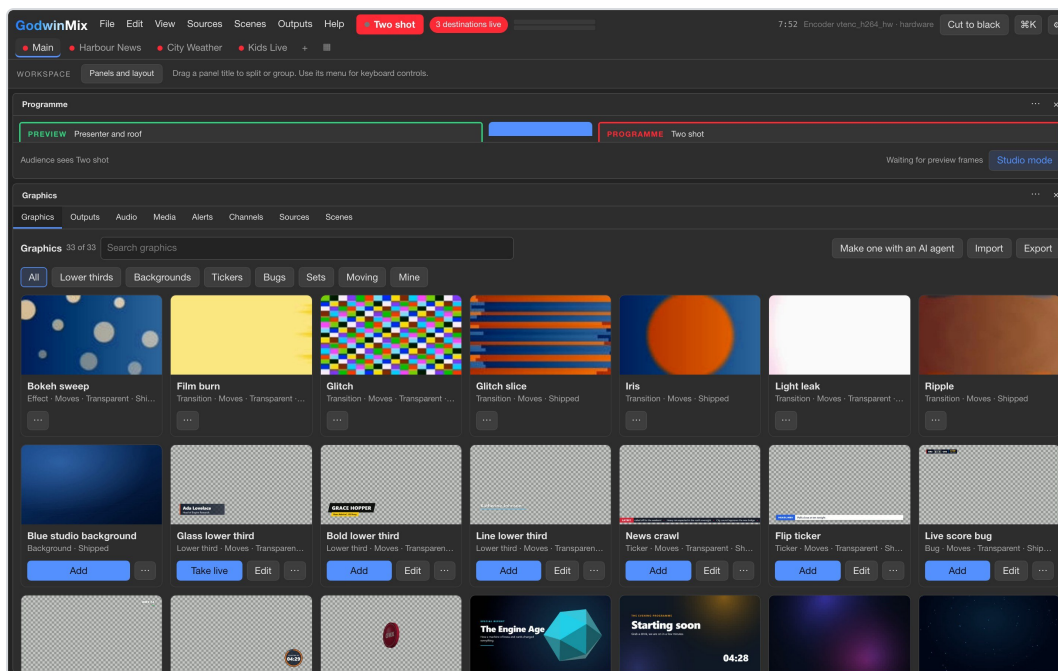
Every transition in one list with a moving preview, plus its direction, easing and length.

Graphics and transitions

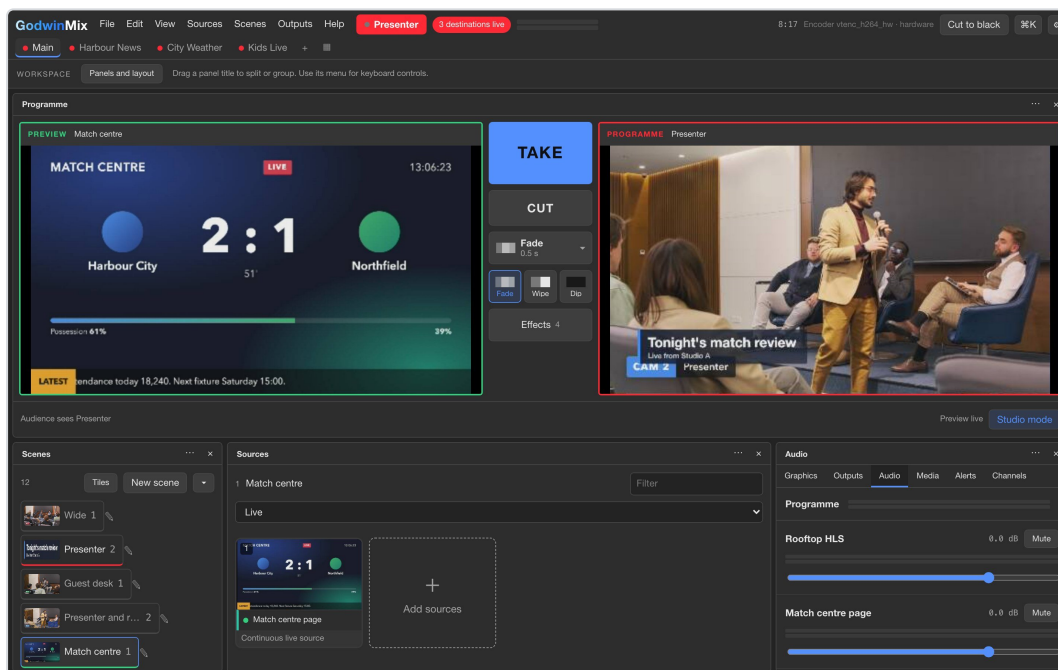
Built in transitions: cut, fade, move, stinger, wipe, slide, push, zoom, zoom out, box and dip.

Transition packs add stingers, light leaks, bokeh, film burns and wipes, imported from a file, a folder or a zip. The cut lands under the moment the transition covers the picture, so it looks the way the designer meant.

There are eight ready made graphics (lower thirds, a breaking news bar, a score bug, a logo bug, title and quote cards and more) fifteen moving graphics that let the picture show through around them: lower thirds, tickers, a live score bug, a countdown, 3D titles, a starting soon slate and backgrounds. The Graphics gallery shows every graphic as a card to add, take live, edit while watching it, import or export.



Lower thirds, tickers, bugs, backgrounds and sets as cards, ready to add or edit.



A moving lower third over a live camera, with its words changed while on air.

A presenter can also be put in front of a new background with a green screen, a blue screen, or no screen at all.

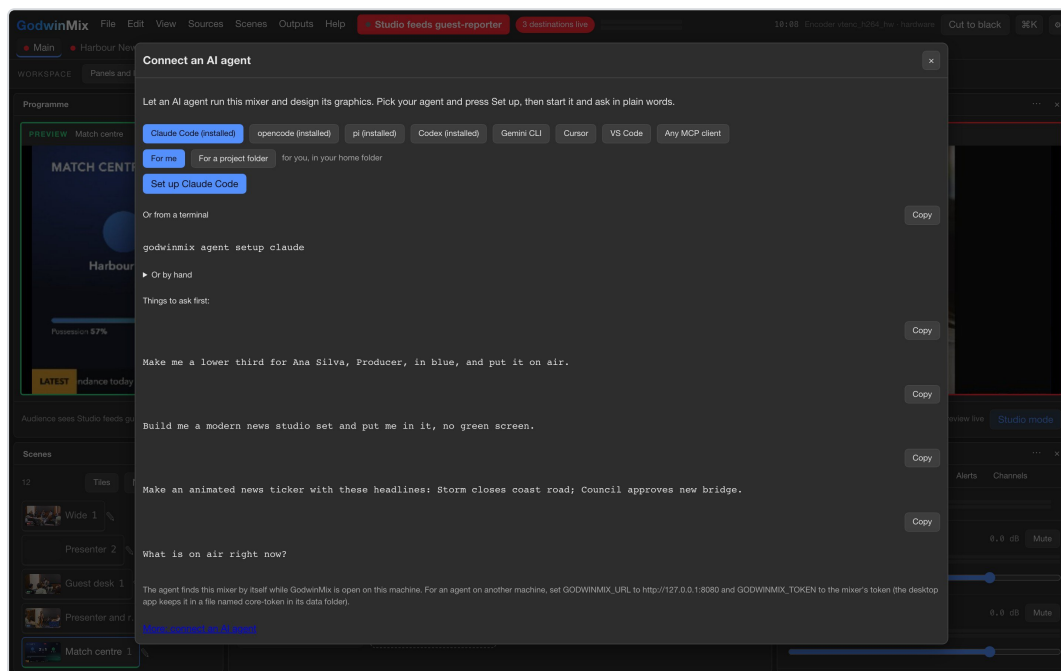
Run by people, scripts or an AI

Anything you can do on the page, a script or an AI assistant can do too. In the desktop app, Help, Connect an AI agent sets up Claude Code, opencode, pi, Codex, Gemini CLI, Cursor or VS Code with one button. It shows the files it will write and keeps a backup of anything it changes. Then you ask in

plain words: "make me a lower third for Ana Silva, Producer, in blue, and put it on air".

The mixer holds an assistant to safety rules a person can rely on. An assistant holds each shot for at least eight seconds and takes no more than twelve shots a minute, and a flash guard stops cuts that could trigger photosensitive viewers. A person's own desk has no minimum shot length, because a vision mixer has to be able to cut on a word.

Several people can operate one mixer, each with their own undo. A phone can run the show too: the desktop app shows a QR code that signs a phone in, and you can withdraw that phone's access at any time.



Help, Connect an AI agent sets up an assistant with one button and suggests things to ask it.

Platforms

Windows, macOS on Apple Silicon and Linux, as a desktop app, or on a server with no screen. Installers are available for each: a setup `.exe` and an `.msi` for Windows, a `.dmg` for macOS, and an AppImage and a `.deb` for Linux. There is also a Docker image for servers.

It runs on an ordinary modern computer. A graphics card helps but is not required, and GodwinMix uses one when it finds one. The first thing we do in any engagement is set it up on the machine you plan to use.