
GodwinMix use cases

Nine situations where GodwinMix fits, what each needs, which preset to start from, and what is still missing.

OCTOBER 2026

GodwinMix ships six presets: `default`, `church`, `classroom`, `esports`, `broadcast` and `headless-agent`. A preset writes the configuration, the scenes and the layout for one kind of show in a single command. Each section below names the preset to start from and is plain about the gaps.

A Sunday service

THE SITUATION

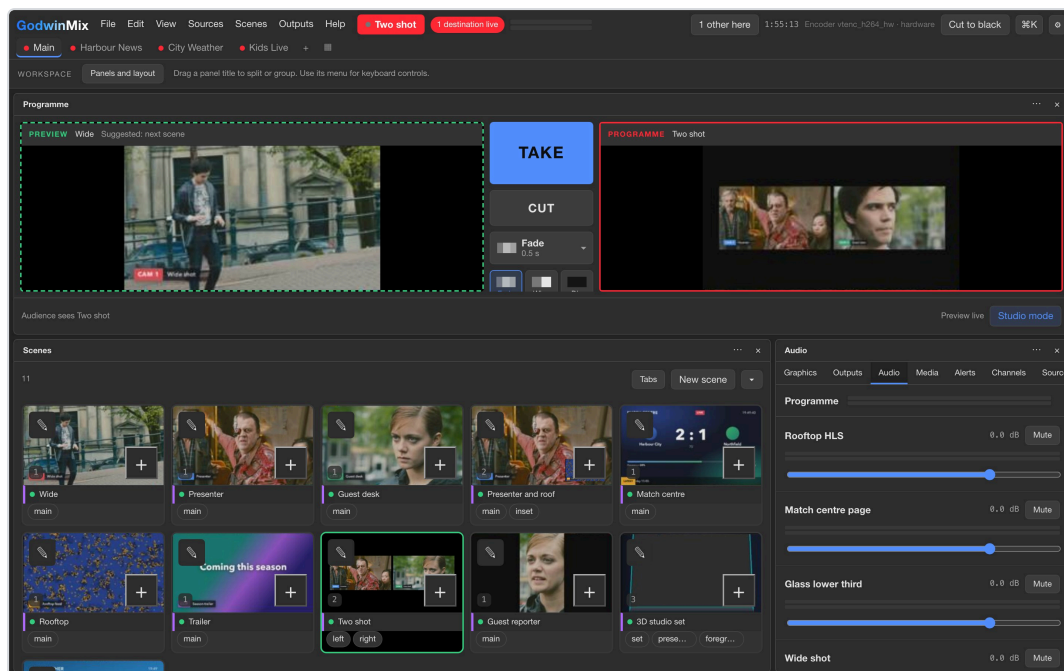
A church media team of volunteers streams the Sunday service. Two cameras, lyrics over the picture, the sermon slides, and the stream going to YouTube and Facebook at once.

WHAT YOU NEED

Something a volunteer can run without a manual, that does not drop the stream if a camera cable gets kicked.

WHICH FEATURES, WHICH PRESET

The `church` preset: four inputs, four scenes, two destinations, and a red button to go live. Scene tiles start as icons rather than live pictures, so an older machine at the back of the hall has power to spare for the stream. The two cameras start as test patterns, so the stream is real from the first minute while someone finds the cables. Extra camera angles come from phones scanned in by QR code. Lyrics go over the picture as a transparent web page or as a moving HTML graphic. If a camera dies mid sermon, viewers see black instead of a frozen face, and both destinations carry on.



Each scene shows a live picture of what it will put on air before anyone presses Take.

WHAT IS MISSING

The transparent graphics have run on Windows only so far. And because endurance testing is not finished, we would not yet leave a service running with nobody at the desk.

A FIRST STEP

Run `gmx preset apply church` on the machine you already use, put in your two stream keys, and stream a rehearsal to an unlisted YouTube event.

A classroom lesson

THE SITUATION

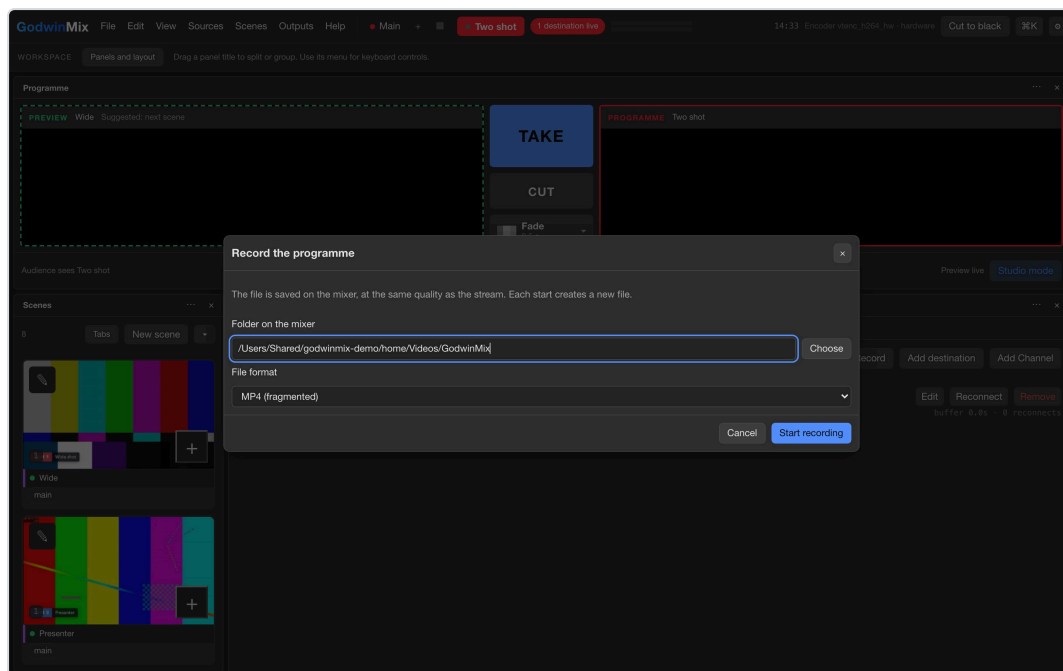
A teacher wants each lesson recorded and streamed, from the laptop already in the room.

WHAT YOU NEED

The teacher's camera, the screen, slides from a file, a recording and a stream, on modest hardware.

WHICH FEATURES, WHICH PRESET

The `classroom` preset: a 720p picture size that a room laptop can manage, three inputs, three scenes, two destinations, and built in recording. Tiles start as stills that refresh when you click them, which is kind to a laptop on battery. The camera and screen start as test patterns so the first lesson can be recorded before the hardware is sorted out.



Recording the lesson to a file on the room laptop, at the stream's own quality.

WHAT IS MISSING

The picture size cannot be changed while the mixer is running; choose 720p or 1080p before the first lesson. Screen capture takes a whole display or a region, not a single window. There are no published performance figures on a plain laptop yet, so try it on the actual machine.

A FIRST STEP

Apply the preset on the room laptop and record a ten minute test lesson. Watch the recording back on the projector before the term starts.

An esports match

THE SITUATION

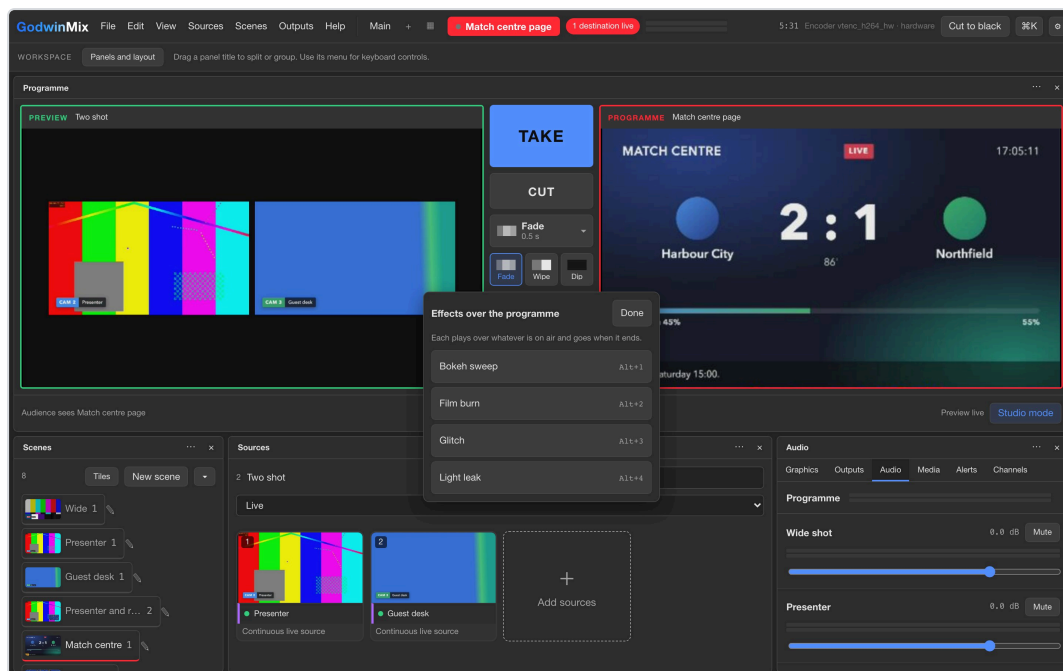
An esports organiser streams a tournament: four player feeds, a caster on camera, a score overlay and one destination.

WHAT YOU NEED

A clean quad view, quick cuts to one player, a score bug that moves, and stingers between scenes.

WHICH FEATURES, WHICH PRESET

The **esports** preset: Quad, Full and Pip scenes, with the four player machines sending their pictures over the local network (NDI), so the mixing machine only has to mix. Moving score bugs from the graphics gallery, and stinger and light leak transitions from the packs.



Effects such as a light leak or a glitch play over whatever is on air, each on its own shortcut.

WHAT IS MISSING

The preset names a `replay` plugin that does not exist, so there is no instant replay. There is no game capture on Windows, so player feeds must arrive as NDI or another stream from the player machines. Four 1080p60 NDI feeds are about 500 Mbit, and want a gigabit switch of their own. NDI has not yet been received from a real third party sender. Transition packs have run on Windows only. If instant replay matters, this is not the right tool yet.

A FIRST STEP

Send one player machine's picture to a test machine and check the frame interval with `gmxctl status` before committing to four.

A broadcaster's contribution feed

THE SITUATION

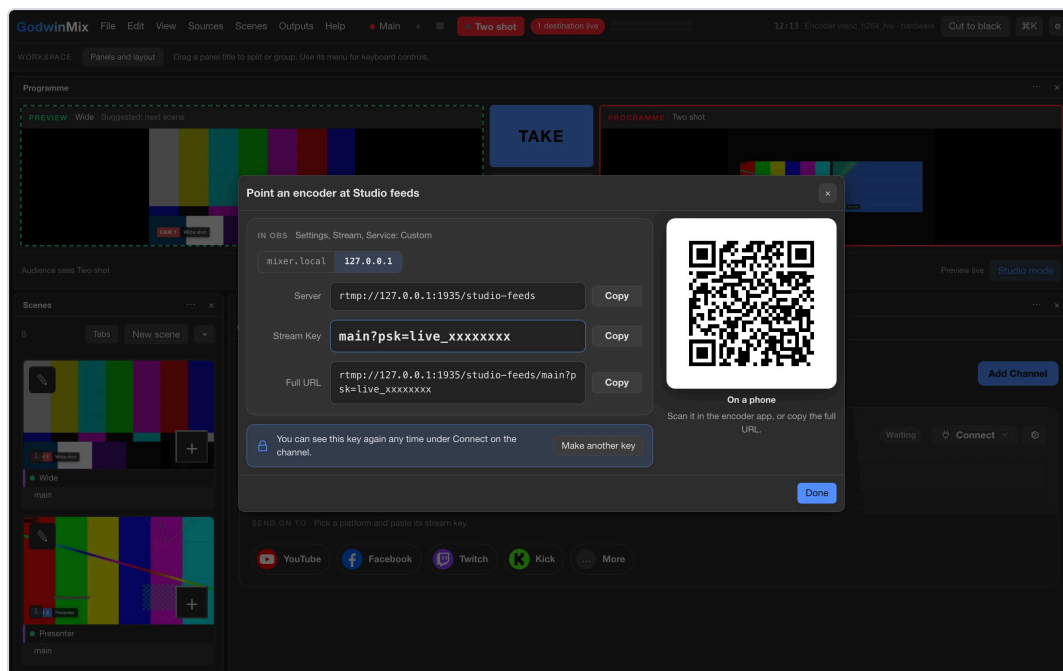
A broadcast engineer needs to bring two venues into a studio over the internet and send one clean feed onward, with tally lights on the cameras.

WHAT YOU NEED

SRT in and out, a backup path, tally, and control from a hardware surface.

WHICH FEATURES, WHICH PRESET

The `broadcast` preset: two venues arriving over SRT on ports 9001 and 9002, the studio camera over NDI, SRT out with an RTMP backup, TSL UMD v5 tally, OSC control, and a Bitfocus Companion module for a button surface. Each SRT link can be given a passphrase and its own delay, and shows its link quality as you watch. A failed backup path never touches the main one.



Each channel gives a venue's encoder a full address and a QR code to connect with (the key shown is a placeholder).

WHAT IS MISSING

Companion ships as an integration module, not as the plugin the preset names. The project's notes say tally and OSC control may need to be started separately from the mixer; that note may be out of date, and we would check it on your setup. SDI and HDMI through Blackmagic DeckLink exist in code but have never been run against a real card. For a contribution chain that matters, this needs a proper test period.

A FIRST STEP

Point one venue's encoder at a test machine over SRT and run it for an afternoon while we watch the link statistics.

A 24/7 channel run by an AI director

THE SITUATION

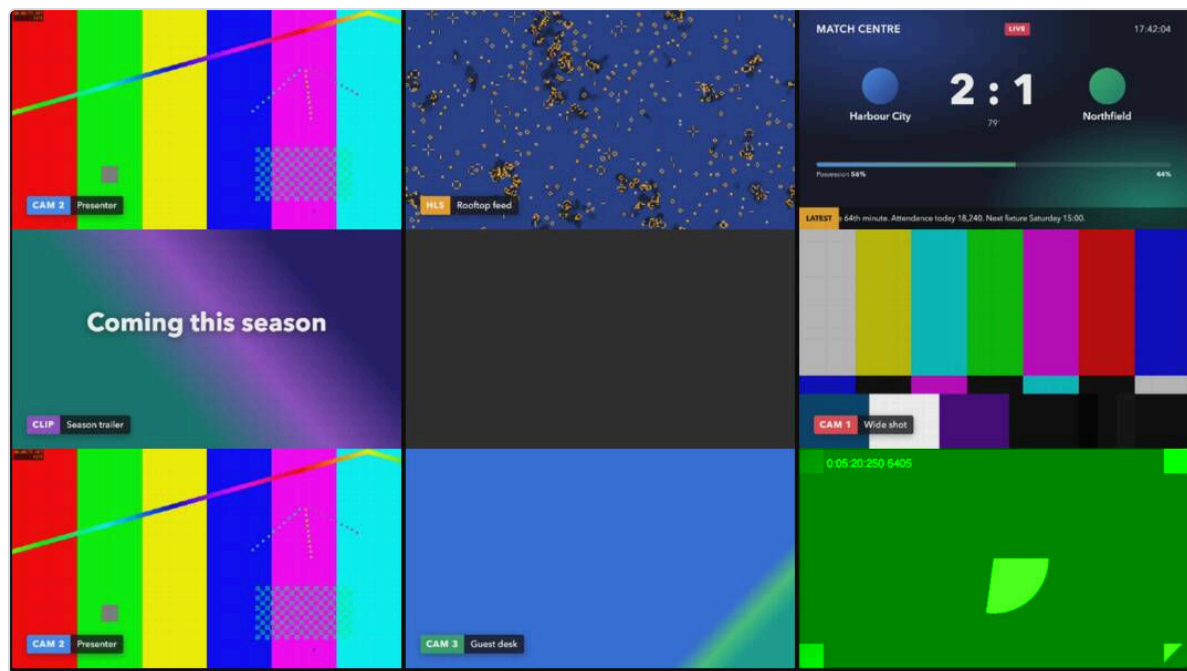
A company wants a channel that runs around the clock with no operator: a web page on air, a standby page to fall back to, and an AI choosing between them.

WHAT YOU NEED

A mixer on a server, no screen, and an agent that can see what is on and decide safely.

WHICH FEATURES, WHICH PRESET

The `headless-agent` preset: no interface at all, a page plus a standby page, and an agent driving it over MCP. The assistant sees what is on air and every source at a glance, in one small labelled picture, which keeps the AI bill low. The mixer enforces safety holds an assistant cannot argue with. An example AI director script and a rule based `director` plugin are included, and an agent can design moving graphics and check them before they go on air.



What the assistant sees: every source and the programme in one labelled picture.

WHAT IS MISSING

The one hour and cross platform endurance acceptance is outstanding, and an unattended channel is exactly the case it exists for. Model costs are yours, paid to the AI vendor. The project's director guide quotes, for example, about \$0.06 an hour for a small frame every 5 seconds on one model; those are third party prices.

A FIRST STEP

Run the preset in Docker on a test server for a week with a private destination, and read the session log each morning.

A conference with remote guests

THE SITUATION

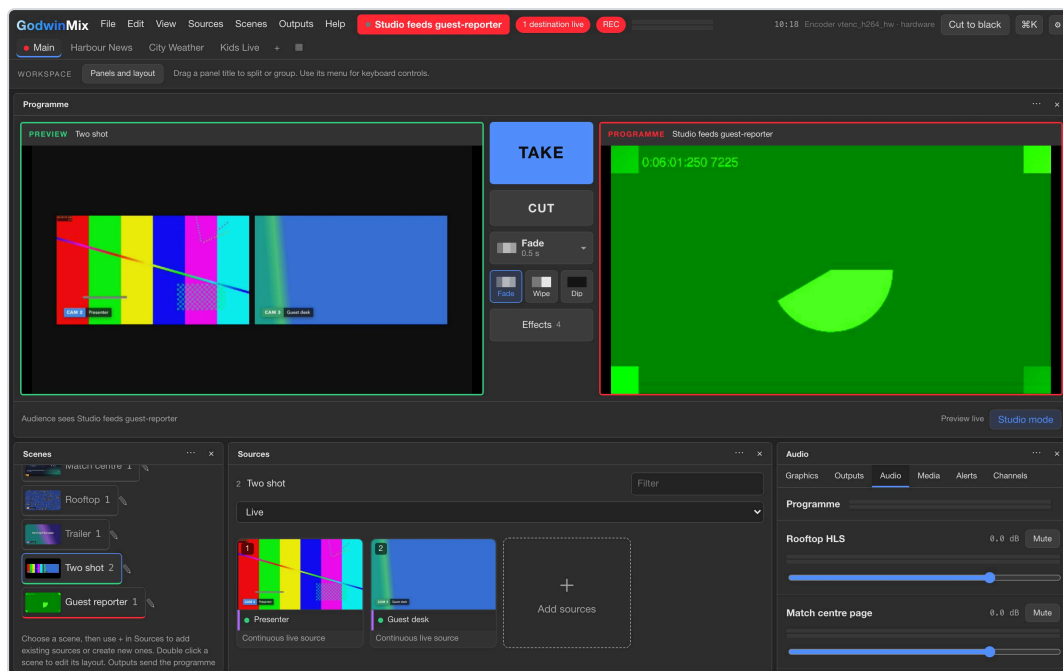
An event producer runs a conference stream with speakers in the room and guests joining from home.

WHAT YOU NEED

Guests who can join from a browser, extra cameras on phones in the room, name captions edited on the fly, and more than one person at the desk.

WHICH FEATURES, WHICH PRESET

Start from `default`. Guests join through the `/join/` page with nothing to install. Phones in the room become cameras by QR code. Moving HTML lower thirds can have their words changed while on air. Studio mode with the suggested preview keeps the next shot ready, and several operators can work at once, each with their own undo.



A guest who joined from a browser, taken to programme like any camera.

WHAT IS MISSING

Guest links carry the channel's key until per guest invites exist, so treat a guest link as a password and change it after the event. A return picture for guests is possible but not confirmed, and talkback has not been confirmed. Guests on another network need the mixer at a secure (https) web address, which we set up with your IT team.

A FIRST STEP

Run a rehearsal with two guests on outside networks, a week before the event, from the actual venue connection.

A company town hall

THE SITUATION

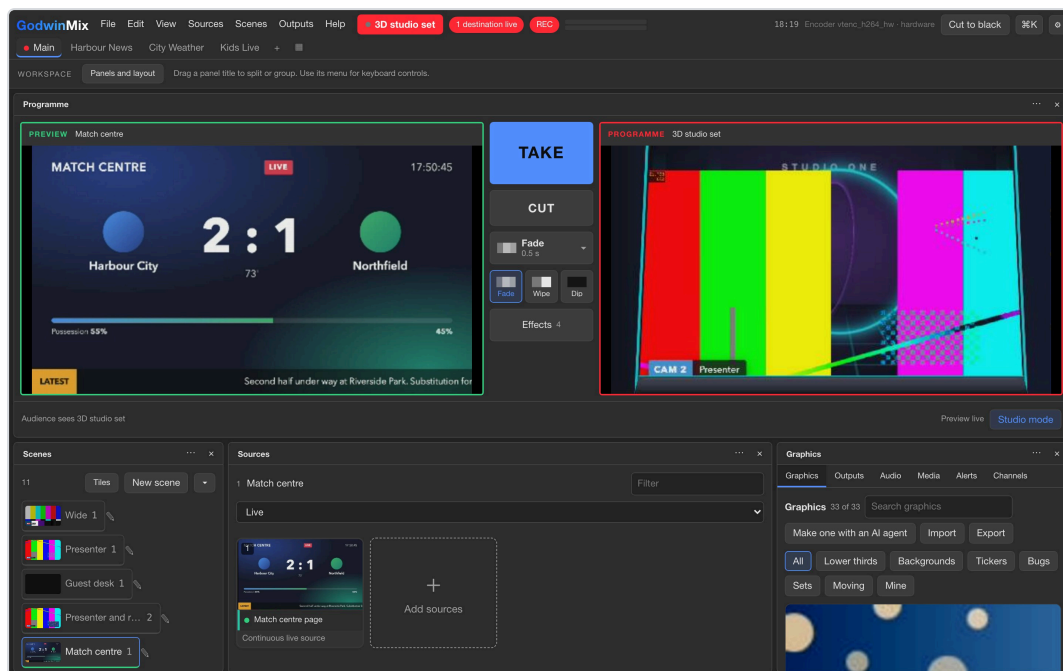
Internal communications runs a quarterly town hall: a stage camera, slides, an executive dialling in from home, and an audience of staff only.

WHAT YOU NEED

A stream only staff can see, a recording, and a remote speaker who looks presentable.

WHICH FEATURES, WHICH PRESET

The nearest preset is `classroom`. A stage camera and slides as sources, the executive through `/join/`, and background replacement with no green screen for their home office. Staff watch in their browser, in several qualities, behind a viewer key, straight from the mixer. The recording survives a crash halfway through, so you still have a file to publish afterwards.



A presenter placed inside a ready made studio set, with no green screen needed.

WHAT IS MISSING

There is no hosted service, so your IT team hosts it on your network at a secure address. The Linux desktop installer cannot yet serve the stream to staff directly; on Linux the server version (Docker) is the expected route, which we have not verified ourselves.

A FIRST STEP

Ask IT where it can be hosted, then run a 15 minute internal test with one remote speaker.

A sports club pitchside

THE SITUATION

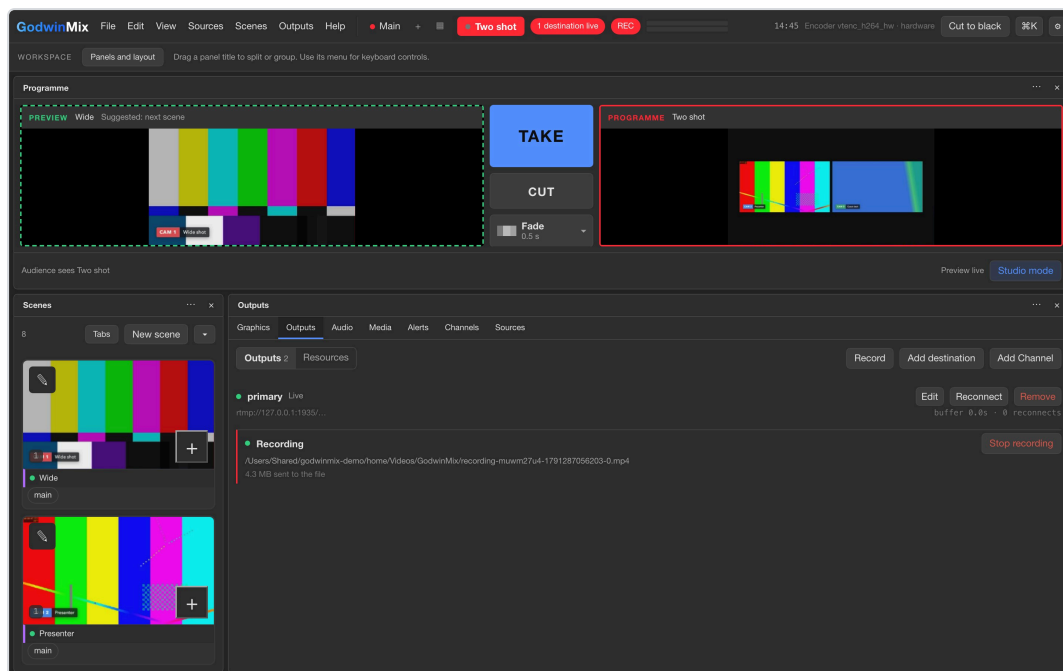
A club volunteer streams Saturday matches from the side of the pitch to YouTube and Facebook.

WHAT YOU NEED

Cameras without buying cameras, a live score on screen, and control from a tablet.

WHICH FEATURES, WHICH PRESET

church or default . Phones as cameras by QR code. A live score bug that updates from a simple data file or feed, which puts almost no load on the machine. Two destinations at once, each isolated, so a Facebook problem never stops YouTube. The operator page works by touch on a tablet, with targets at least 44 pixels across, and a long press opens an item's menu. A sponsor's clip can roll as an ad break at half time and return to the pitch camera on its own.



Two destinations and a recording running at once, each with its own status.

WHAT IS MISSING

A reliable uplink, which is usually the hard part pitchside. Reconnecting to a destination takes about 2 seconds and has not yet been measured against YouTube itself. There is no instant replay.

A FIRST STEP

Stream a training session from two phones to an unlisted YouTube event and watch it back.

A GodwinOTT channel fed by GodwinMix

THE SITUATION

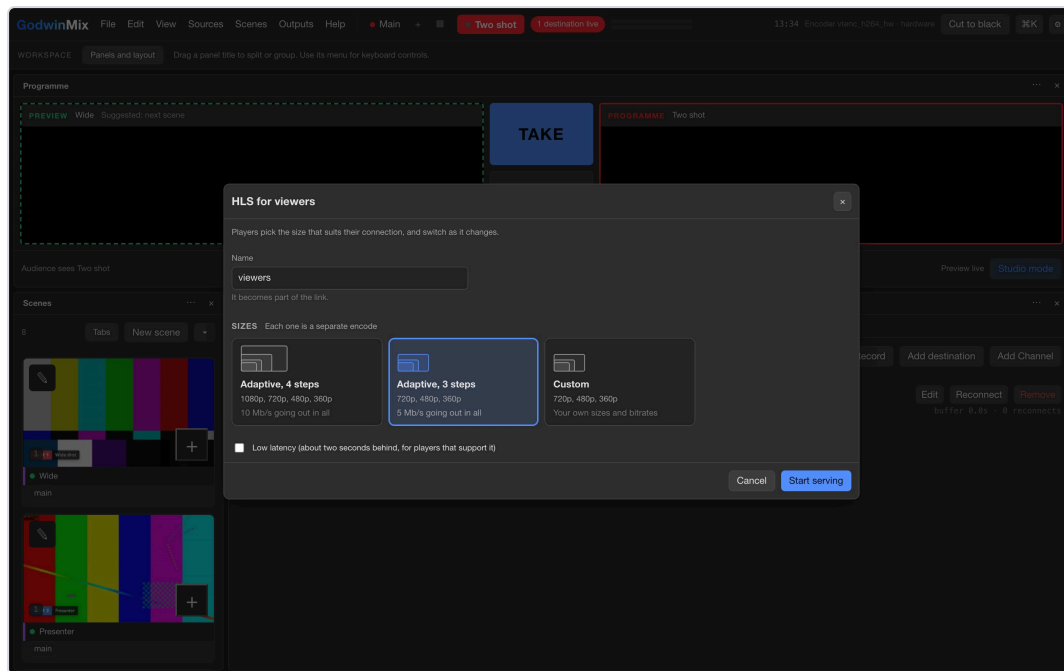
A client runs GodwinOTT for viewers and wants one of its channels to be a produced programme rather than a straight feed.

WHAT YOU NEED

A produced programme arriving on the OTT service as one of its channels.

WHICH FEATURES, WHICH PRESET

GodwinMix can send its programme to the GodwinOTT server like any other channel, or serve viewers' players directly in several qualities. Either way, a dead camera does not drop the channel: viewers see black until the next shot.



GodwinMix can serve viewers' players itself, in several qualities.

WHAT IS MISSING

This pairing is a design intent. The two products have each been tested on their own, but not together, and GodwinOTT is not mentioned anywhere in the GodwinMix code. The exact ingest format and joining point have to be agreed and tested. Vertical and horizontal output at the same time is not possible. The joint note, "GodwinMix and GodwinOTT together", covers this in more detail.

A FIRST STEP

A one day test: GodwinMix sends SRT or RTMP to the client's packager, and GodwinOTT picks the channel up like any other.