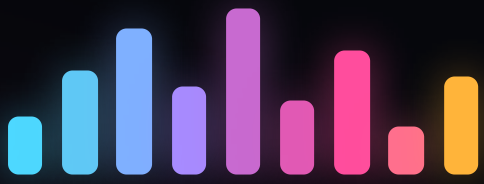
VOICE VISUALIZER · MAC APP

Put your voice on screen.

Everything you need to run Voice Visualizer, from first launch to a four-person show. Written for version 1.9.1.



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01 · START HERE

What it is, and what you need.

Voice Visualizer turns your microphone into a live animated overlay for your stream. It runs on your Mac and serves the visualizer as a web page, so any tool that accepts a browser source can show it.

What you need

macOS	13 or later, Apple Silicon or Intel
A microphone	Any input your Mac can see. A USB or XLR mic gives the cleanest result
Your streaming app	Anything that takes a browser or web source: Ecamm Live, OBS, Meld, StreamYard, vMix and others
Your licence	One key, good for two Macs, no renewal

How the pieces fit together

Three things are running once you press Start:

- **The app** listens to your microphone, or to another app's audio, and works out what your voice is doing.
- **Show Control** is the window where you set everything up. It opens when you launch the app, and you can reopen it any time from the menu bar.
- **The browser source** is a web address your streaming app loads. Its background is fully transparent, so only the visualizer shows.

> **EVERYTHING STAYS ON YOUR MAC**
> Your audio is never uploaded. The app only reaches the internet to check your licence and look for updates.

02 · QUICK START

On screen in about a minute.

1. **Install and open it**

   Drag Voice Visualizer to your Applications folder and open it. Show Control appears, and the app also sits in your menu bar behind the waveform icon.

2. **Activate**

   Paste the licence key from your receipt. That unlocks everything, on this Mac and one more.

3. **Choose your microphone**

   In your own slot, set *Where* to **In the room** and pick your mic from the list. Watch the Signal meter move when you talk.

4. **Pick a look**

   Choose a Style, then set Sensitivity, Noise gate and Visualisation height. The preview under the card shows exactly what your stream will get.

5. **Add it to your show**

   Click **Copy** next to your URL, then paste it into a browser or web source in your streaming app. Size and position it wherever you like.

> TWO MACOS PERMISSION PROMPTS
>
> The first time you press Start, macOS asks for **Microphone** access. If you use remote guests it also asks for **Screen Recording**, which is how the app hears your conferencing software. Both are one-time prompts, and both are expected.

If the visualizer looks blank

- Check the **Signal** meter in Show Control. If it is not moving, the app is not hearing you, so the browser source has nothing to draw.
- Make sure you picked your real microphone. Virtual and chat devices often sit at digital silence unless a call is live.
- Confirm you pressed **Start**. The visualizer only draws while the app is capturing.

One window runs the whole show.

Show Control opens when you launch the app. Every person on your stream gets a card, and each card is independent: its own look, its own colours, its own browser source.

Along the top

Stop / Start	Begins and ends capture. Nothing is drawn while stopped
People	How many visualizers you want, from one to four
Remote guests are in	Which app your remote guests' audio is coming from
Refresh apps / mics	Re-scan if you opened an app or plugged in a mic after starting
Capturing for	How long capture has been running
Reset styles	Every look back to defaults, leaving mics and guests alone

On each person's card

Name	Whatever you call them. It labels their Copy URL in the menu bar too
Where / Guest is	Off, In the room, or Remote
Microphone	For someone in the room, their own input device
Style	Any of the 25 looks
Sensitivity	Low, Medium, High or Max
Noise gate	Off, Gentle, Medium or Strong
Range	Voice, Wide or Full Spectrum
Visualisation height	How big the visualizer runs
Colours	Three colour stops, set per person
Signal / meters	Whether audio is arriving, and how much is reaching this person
URL + Copy	That person's browser source address
Preview	A live view of exactly what your stream will show

> **THE PREVIEW IS THE REAL THING**
> Each preview is the actual browser source running inside the card, not a mock-up. What you see there is what your stream gets.

04 · THE LOOKS

Twenty-five styles, three families.

Switch any time from Show Control or the menu bar. Nothing restarts, and you never need to re-add your browser source.

Across the frame

Classic overlays that sit along the bottom of your shot, or wherever you place them.

BARS · LED EQUALIZER · DOT MATRIX · MIRRORED WAVE · MOUNTAIN · SPIKES · NEON CAPSULES · SILK WAVES · LED DB METER · ANALOG VU METER

Circular

Round designs with an open centre. Size a square browser source over them and they fill it.

RADIAL BARS · DASHED RING · WAVEFORM RING · RAINBOW WAVE RING · PULSE RINGS · FLOW RIBBONS · SPIKE BURST · RING EQUALIZER · DOT RAYS

Camera frames

These react *around* your camera instead of under it. The centre is fully transparent, so the frame sits over your existing shot. Square versions suit a normal camera, round versions suit a circular camera bubble.

CAMERA FRAME: PULSE · CAMERA FRAME: COLOUR CHASE · CAMERA FRAME: EQUALIZER · ROUND FRAME: PULSE · ROUND FRAME: COLOUR CHASE · ROUND FRAME: EQUALIZER

> **SIZING A CAMERA FRAME**
> Match the browser source to the size and shape of your camera, then use **Visualisation height** to set how thick the border sits. For a round frame, keep the source square.

05 · DIALLING IT IN

Make it move the way you want.

Sensitivity

How strongly the visualizer reacts to your level. **Low** keeps things restrained for a loud mic. **Max** keeps headroom for a quiet one. Quiet mics and loud mics both land in a usable range without touching an audio mixer.

Noise gate

Off, Gentle, Medium or Strong. The app measures your room's own noise floor and subtracts it, so the visualizer moves when you talk and sits genuinely still when you do not. Because it works from your measured floor, the same setting behaves sensibly in a quiet booth or a noisy office.

- **Still twitching in silence?** Move up a step, to Medium or Strong.
- **Losing the start of quiet words?** Move down a step.

Range

Voice	80 Hz to 8 kHz. Tuned to where speech lives. The safe default for talking
Wide	60 Hz to 12 kHz. More movement at both ends, good with music in the mix
Full Spectrum	Everything the mic hears

Visualisation height

One slider sizes every style. It sets how tall the bars and waves run, scales the circular designs up and down, and sets how thick the camera frames sit. It updates live while you drag, so set it while watching the preview.

Colours

Three colour stops per person, so each guest can carry their own gradient. On the Colour Chase styles they set the colours of the travelling comets.

> **CHANGING A LOOK NEVER INTERRUPTS YOUR AUDIO**
> Style, colour, height and name changes apply instantly with no gap in capture. Changing the source, the noise gate or the frequency range does briefly restart that person's audio, so avoid those mid-sentence.

06 · MORE THAN ONE PERSON

A visualizer each, up to four.

Set **People** to as many as four and everyone gets their own visualizer, with their own URL to sit under their own camera. Each person is either in the room with you or joining remotely.

Someone in the room

Set them to **In the room** and choose their microphone. This is the cleanest option by far: their own input means perfect separation, with no guessing about who is speaking.

Someone joining remotely

Remote guests arrive as one shared stream of audio from your conferencing app, so the app has to tell them apart by the sound of their voice.

1. **Point the app at your conferencing app**
   Set *Remote guests are in* to Zoom, Google Chrome, or whichever app carries their audio.

2. **Set the guest to Remote**
   Then assign them a guest number, so the app knows which slot belongs to which person.

3. **Record a voice print**
   Click
   Record voice
   and have that guest talk normally for ten seconds. The countdown finishes on its own. That is how the app recognises them later.

> ONE HONEST LIMIT
> If two remote guests talk over each other, their voices arrive already blended into a single stream, and one visualizer wins. Separating two voices from one mixed signal is a different problem and the app does not pretend to solve it. Guests in the room are never affected, because each has their own microphone.

> WHY ATTRIBUTION CAN LAG A BEAT
> Recognising a voice needs a short window of audio, so who is talking can settle about a second behind. The movement itself is never delayed: every remote visualizer reacts in real time and the app fades attention toward whoever is speaking. Motion stays in sync, only the handover eases in.

07 · HOUSEKEEPING

Reminders, updates and your licence.

Still capturing reminders

Voice Visualizer sits quietly in the menu bar, which makes it easy to leave running. Two settings guard against that:

Remind me it is capturing	Never, hourly, every 2 hours (the default) or every 4 hours. You get a menu bar badge, a note in Show Control, and a macOS notification
Stop capturing on its own	Off by default. Set 4, 8 or 12 hours and the app stops itself. This is the one that saves a laptop left running overnight

The reminder is deliberately not marked urgent, so it will not punch through a Focus mode in the middle of a broadcast. If you want the on-screen banner, allow notifications for Voice Visualizer in System Settings and make sure **Desktop** is ticked. Notifications can be allowed while banners are switched off, in which case the reminder goes quietly to Notification Centre.

Updates

The app checks for updates once a day and offers them. Nothing installs without you clicking. You can also check whenever you like from **Check for Updates** in the menu bar.

Your licence

- One key covers **two Macs**, with no expiry and nothing to renew.
- If the app cannot reach the internet it keeps working for **seven days** before asking again, so a flaky connection never stops a show.
- Moving to a new Mac? Deactivate on the old one first to free the seat.

Troubleshooting.

WHAT YOU SEE	WHAT TO DO
Nothing is drawing	Check that capture is running and the Signal meter moves when you talk. If the meter is flat, the wrong input is selected
The meter never moves	Pick your real microphone rather than a chat or virtual device. Those often sit at silence unless a call is live
It reacts to room noise	Raise the Noise gate a step, and try the Voice range
Barely moves when you speak	Raise Sensitivity. If it is already at Max, your mic level is likely very low at source
A guest's visualizer is silent	Confirm the right conferencing app is selected, that the guest is set to Remote, and that a voice print has been recorded for them
Bars stuck at full height	This was a fault in versions before 1.8.2. Update to the current version, which detects and corrects it automatically
Overlay looks out of date	Overlays reload themselves after an update. If one looks stale, refresh the browser source in your streaming app
No reminder banner	Allow notifications for Voice Visualizer in System Settings and tick **Desktop**. Also check whether a Focus mode is on

The diagnostics page

If something is not behaving, open this in any browser while the app is running:

`http://localhost:8765/diag`

It gives a plain-English verdict for each audio source, showing whether sound is arriving and whether the app is reading it sensibly. There is a **Copy report** button. Paste that into an email to me and it tells me far more than a description can.

> **STILL STUCK?**
> Reply to your receipt email. It comes straight to me, and a diagnostics report attached to it usually gets us to an answer in one reply.

ONE MORE THING

Now go and talk.

Set it once, and it just runs. The point of Voice Visualizer is that you stop thinking about it and get on with the part that matters, which is what you actually have to say.

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