

STEREOTOOLBOX BROADCAST AUDIO PROCESSOR USER GUIDE

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StereoToolBox broadcast audio processor.

A Note from the Founder

Thank you for choosing StereoToolBox.

This one is a collaboration. The processing inside is StereoTool, from Thimeo. We built the box. Hans van Zutphen wrote the code. It's like the processing dream team.

We picked the price first. Under five thousand dollars. Then we asked the only interesting question left: how much can we get into a box at that price?

The answer turned out to be everything. FM, HD1 and streaming — processed and encoded at the same time, in the same box. No feature keys. No upcharges.

Ask any of our competitors whether their four-thousand-dollar box is the best they make. They'll tell you no. Then they'll try to sell you their ten-thousand-dollar box. We don't play that game.

I haven't mentioned the sound yet, have I? Oh, the sound. Loud, defined, clear, clean and did I say loud? The kind of sound you'd expect to hear in the world's largest (and richest) markets. The only thing budget about StereoToolBox is the price.

Did you know that all Angry Audio products are backed by a 45-day "love it or return it for a full refund" sales guarantee? If you don't absolutely love it, you can send it back — no restocking fees, no lengthy forms, no hassles.

I would love to hear from you. If you have questions or comments, drop me a note using the form on our website:

<https://angryaudio.com/contact>

I promise to answer quickly. Thank you for your trust and business. I am truly grateful!

Michael Dosch (aka Catfish)

Safety & Compliance

We know you're itching to plug it in. Slow down and read this part first. The Darwin awards are real. We don't want you winning one.

- This product contains potentially-lethal voltages. Do not open unless you are qualified to do so.
- Do not use this product if it has been dropped, damaged or exposed to water.
- Do not expose to rain or moisture.
- Do not use near flammable materials such as aerosols or oxygen. Radio is exciting enough.
- Do not insert objects into product openings.
- Do not use in applications in which a life-threatening injury could result due to failure.
- Use caution with audio levels. Exposure to excessive volume can permanently damage hearing.

Compliance Declarations

In the U.S., this product complies with the limits for a Class A computer device as specified by FCC Rules, Part 15, Subpart J, which are designed to provide reasonable protection against such interference when this type of equipment is operated in a commercial environment.

In Canada, this product does not exceed the Class A limits for radio noise emissions set out in the Radio Interference Regulations of the Canadian Department of Communications.

In Europe, this product complies with the requirements of the EEC Council Directives 93/68/EEC (CE Marking), 73/23/EEC (safety – low voltage directive), and 89/336/EEC (electromagnetic compatibility). Conformity is declared to standards EN50081-1 and EN50082-1.

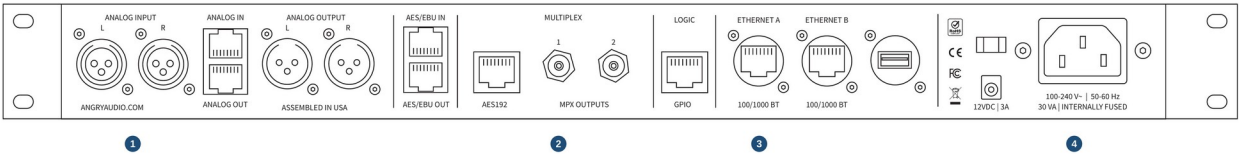
This product uses RoHS compliant materials. At the end of its useful life, this product is to be recycled by an authorized waste electrical and electronic equipment recycler. Alternatively, the product may be returned to Angry Audio LLC for recycling. Contact us at angryaudio.com/contact for instructions.

Hook It Up

Two things in the carton: StereoToolBox and a power cord. If either one is missing or damaged, contact your reseller right away.

Rack it anywhere. StereoToolBox is 1RU and about eight inches deep, so the front rails carry it and you won't need rear support. It breathes through the sides, so leave it a little room — an empty space above and below is ideal, and try not to sandwich it between two things that run hot.

Most of our customers run the same setup. Analog audio in, MPX out to the transmitter. If that sounds like you, this will take about a minute.



StereoToolBox rear panel.

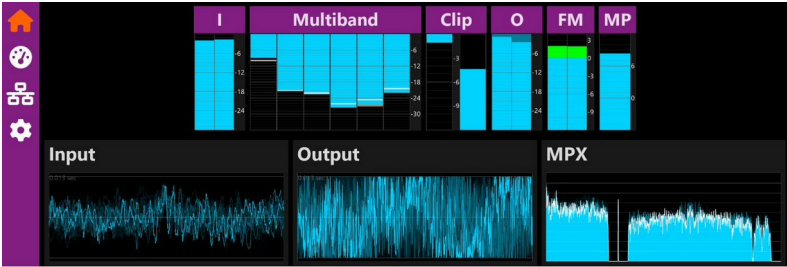
Make four connections:

1	ANALOG INPUT L and R	Your console's program output.
2	MPX OUTPUT 1	Your transmitter's MPX input.
3	ETHERNET A	Your studio network.
4	Mains	The IEC connector, and then the wall.

MPX OUTPUT 2 and ETHERNET B are there for later. Leave them be. Their moment will come.

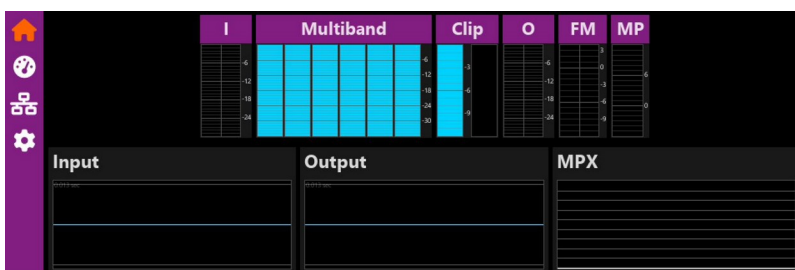
Power comes in twice. The IEC socket takes the included cord, and that covers most installations. Next to it is a 12VDC input for a backup supply, so a dead outlet doesn't have to mean dead air. It isn't included — any clean, quiet 12-volt supply rated 3 amps or better will do, center pin positive, barrel ground. Or contact us and we'll sell you one.

Switch it on. Within thirty seconds you'll have audio.



Audio flowing.

If you don't, look at the front panel. The meters will tell you whether the box is receiving anything at all. If they're sitting flat, the trouble is upstream — check your connections, and check that your source is actually feeding.

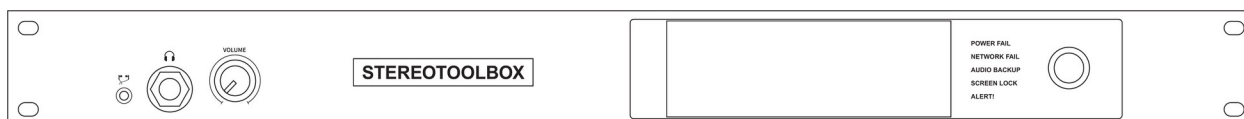


No audio arriving.

That's your air chain. Our factory defaults will get you into the right area code.

Find It On Your Network

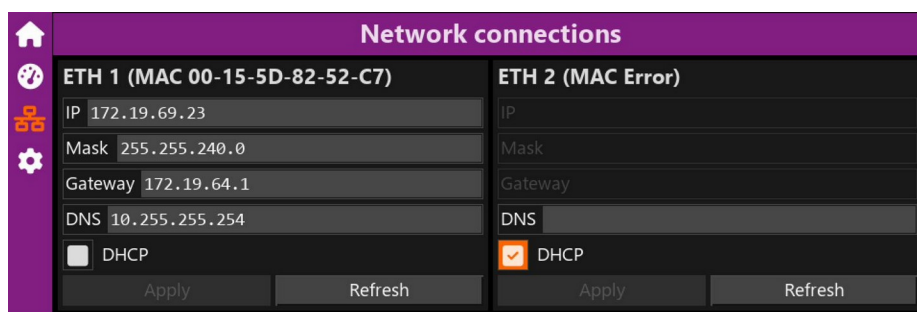
Everything else happens in a web browser. There is nothing to install and no software to license.



StereoToolBox front panel. The knob is at the right end.

Headphones plug in at the left end, with their own volume control. They follow the HD output.

Turn the knob to the network icon and push to select. It's the third one down in the strip along the left, and it turns orange when you land on it.

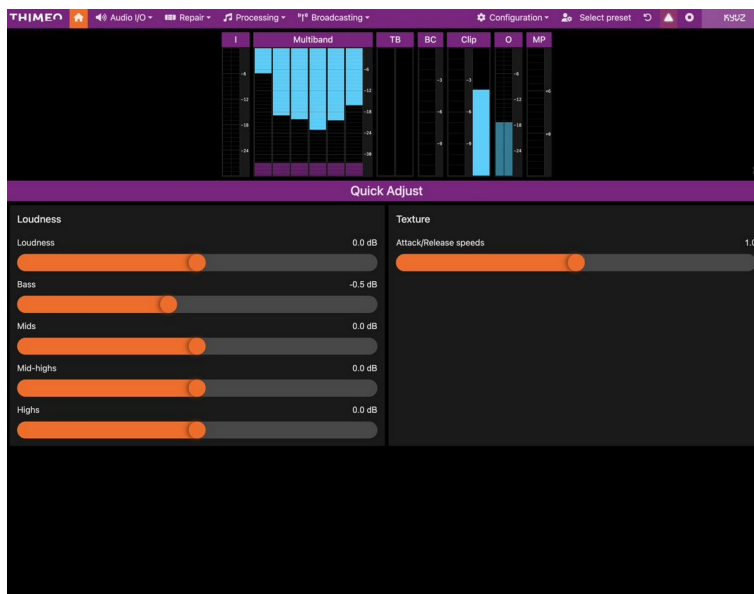


Network screen.

Write down the IP address shown for **ETH 1** — that's the ETHERNET A jack you plugged into a minute ago. You'll want that number.

StereoToolBox uses DHCP out of the carton, so it already has an address waiting for you.

Now go to any computer on the same network and type in that address. Use the **Chrome** browser. Catfish is annoyed that Safari doesn't work. He'll get over it.



The home page.

Nothing to click. Your meters are across the top and your sound controls sit right underneath them. The box is already doing all of it.

That's the whole setup

Which brings us to the one thing genuinely worth knowing about this box:

Hook it up. Use a browser to change anything.

The front panel is a window. It shows you what's happening and it hands you an IP address.

The one setting you can change there is the network address — you can't very well use the browser to set up the network that gets you to the browser. Everything else you will ever adjust, from inputs and outputs to the sound itself, lives in a browser. There's no menu tree hiding behind that knob, and you won't need one.

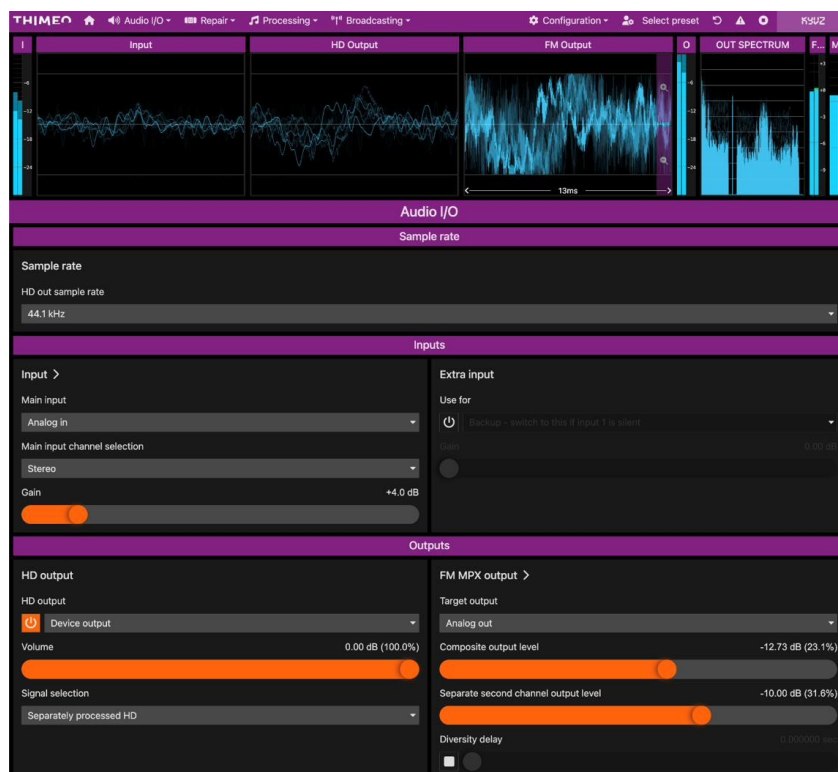
If your network doesn't do DHCP

Go back to the network screen and set the address by hand. Rotate to the DHCP checkbox and push to clear it. Keep rotating and the highlight steps from field to field. Push to open a field, rotate to set the value, push again to leave it. Work down IP, Mask, Gateway and DNS, then rotate to Apply and push.

Rotate to move, push to commit. That is the entire vocabulary of the front panel, and this is the only place you will ever need it.

Audio I/O

If your setup isn't analog in and MPX out, or if you want your modulation exactly right, it all happens on one page. Click **Audio I/O** in the top bar.



The Audio I/O page.

Inputs

Main input. Analog, AES/EBU, AoIP (Livewire+ or AES67), or HLS. Choose yours here. This is the only place you need to do it.

Main input channel selection. Stereo, or whatever else your situation calls for.

Gain. Trim your console's level until the input meters look healthy.

Extra input. Choose Backup here and StereoToolBox will switch to your second source when the first one goes quiet. Set it up now. You will not want to be doing this at 3 a.m.

The LOGIC connector on the back panel will switch between main and backup as well, if you'd rather make that call from your automation.

Outputs

Your outputs all run at once. You're not choosing between them. FM, HD and streaming happen together, which is more or less the entire point of the box.

FM MPX output. Set Target output to Analog. That's the BNC you connected in step 2.

Below it, Composite output level is your modulation. Put a mod monitor on the transmitter and bring it up or down until you're reading 100%. Our default gets you close, but close and correct are different things, and this is the only number in this guide with a fine attached to it.

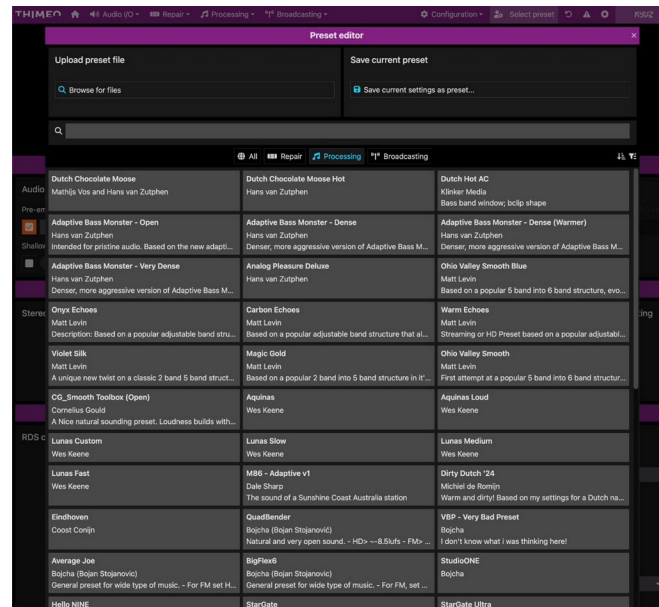
HD output. Device output, volume, and Signal selection. Leave Signal selection on *Separately processed HD* and your HD1 gets its own flat, properly limited audio rather than a squeezed copy of your FM chain.

Diversity delay. This lines HD1 up against your analog FM so the receiver blend doesn't stumble. You'll need an off-air HD monitor and a little patience.

Everything Else

Pick a sound

Click **Select preset** in the top bar.



Preset library.

The presets are sorted by format and built by people who do this for a living — Hans van Zutphen, Matt Levin, Wes Keene and a good many others. Loading one configures the entire processing chain. You don't have to understand what's underneath, and you shouldn't have to.

Find a few whose descriptions sound like your station and live with each one for a while. Listen on your on-air monitor, on a table radio, on a pair of jogging headphones, and in your car. It's where your listeners listen. So should you.

Once you've settled on one, the **Quick Adjust** sliders on the home page will nudge it. Loudness, bass, mids, mid-highs, highs, and how quickly the processing moves. Small changes. Then go and listen in the car again.

You don't have to save anything. StereoToolBox comes back exactly as you left it, preset and nudges included. One thing to know: the nudges live outside the preset. Load that preset again and they go away. If you want to keep them, save them as a preset of your own.

Set your region

Broadcasting → FM signal settings.

75 μ s pre-emphasis for the Americas and South Korea. 50 μ s for most of the rest of the world.

Units leave here set to 75 μ s. If you're outside the Americas, have a look at this before you go home for the day.

Under Broadcasting

FM, AM and HD signal settings all live here, along with stereo encoding, composite clipping and RDS.

Running AM? Use the analog or digital outputs. There's no composite signal on AM, so the MPX outputs will sit this one out.

Learning More & Support

The software inside StereoToolBox is a purpose-built version of StereoTool, made for this box. Thimeo keeps extensive documentation for StereoTool at thimeo.com/documentation. If you want to drill into a feature in more detail, that is a great place to look — most of it will be the same or very similar.

The community forum at forums.stereotool.com has thousands of broadcast engineers, the people who build the presets, and Hans van Zutphen, who wrote the code.

And you can always reach us at angryaudio.com/contact. Include your model, serial number and the name of your reseller. We watch this channel closely and you'll hear back fast.

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