

# RELAY

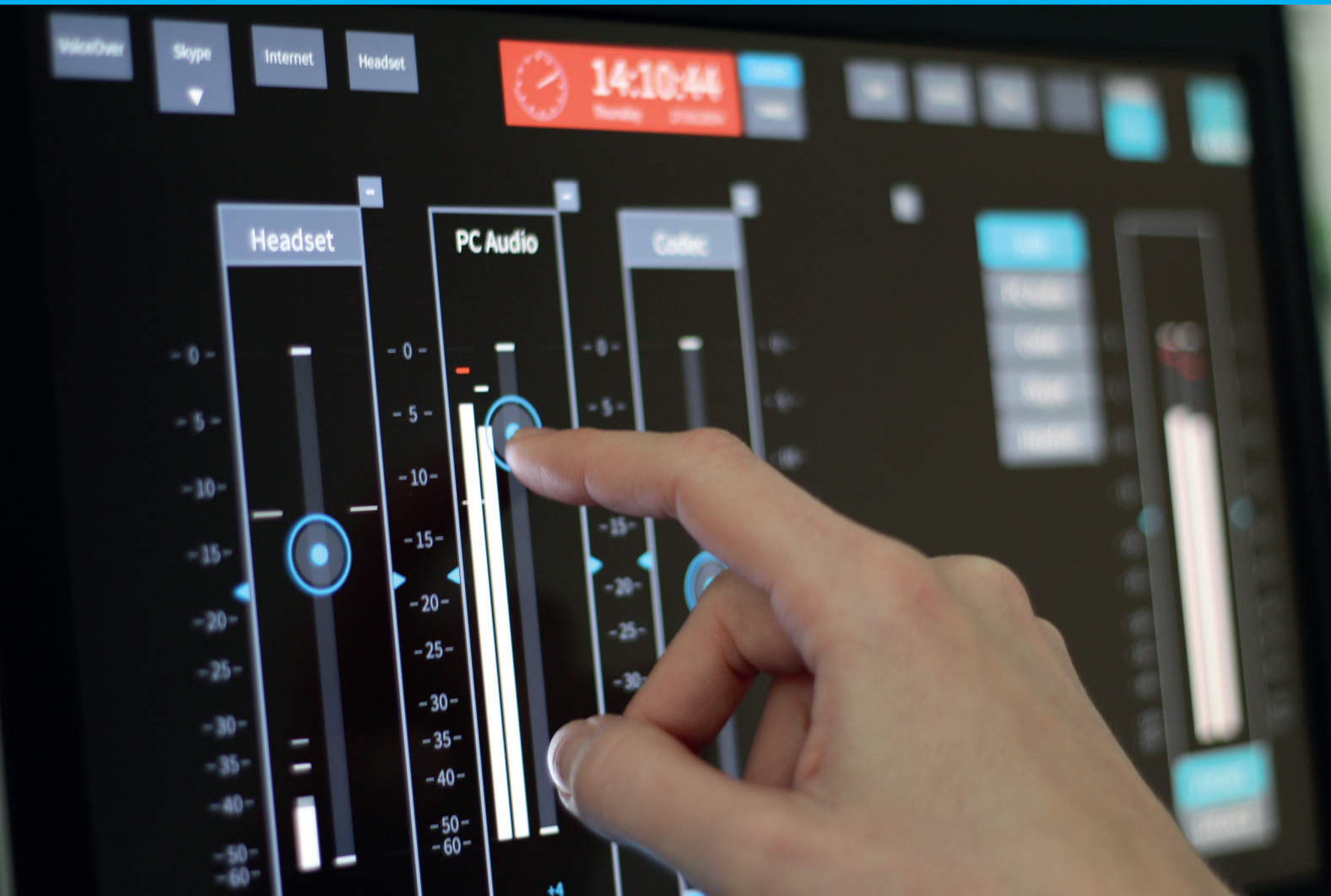


VRX VIRTUAL RADIO MIXER  
VPB VIRTUAL PATCH BAY  
VSC VIRTUAL SOUND CARD



REAL  
VIRTUAL  
RADIO

# RELAY



## REAL RADIO ON YOUR PC

Everybody's been talking about virtualization. Finally, it's here: RELAY virtual radio software from Lawo.

RELAY brings professional radio production to your PC. Mixing. Streaming. Processing. Even routing. AoIP-ready, so you can mix and route both networked and PC audio. With touch-screen GUIs so intuitive, talent can learn it in minutes. No exotic hardware needed: just install RELAY software on your PC or laptop, and go to work.

Nearly everything traditionally done with hardware in a rack can now be accomplished with software on a COTS PC. RELAY unifies the software production environment, allowing you to mix and route audio to and from all your audio software and hardware sources — something nearly impossible with basic OS tools.

It's a bold new world. One that can be extended to add new features, new capabilities — even travel with you to where the action is. With RELAY, your studio can run smoother, cost less and do more. Perfect for production, live studios, newsrooms, even remotes and OB work.

Welcome to real virtual radio. Welcome to RELAY.



# RELAY

## VIRTUAL RADIO SOFTWARE



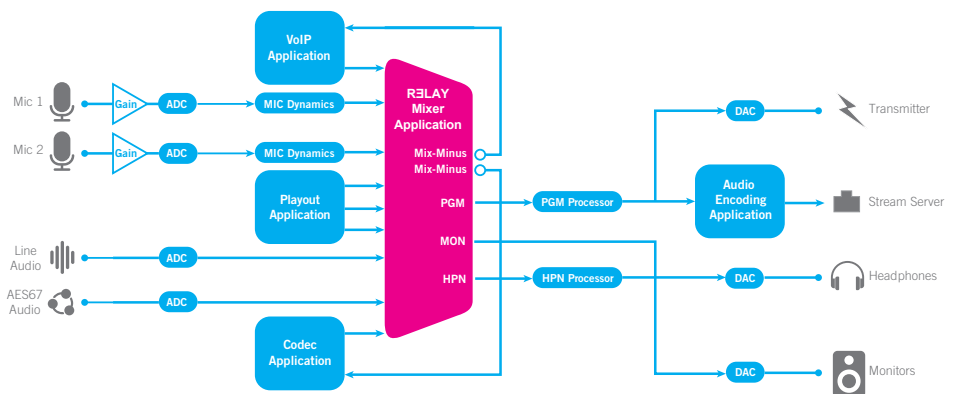
## VRX VIRTUAL RADIO MIXER

RELAY VRX is the world's first true Virtual Radio Mixer. Not just a screen controlling hardware in a rack; it's a real broadcast mixer that's completely software-based, with an intuitive touchscreen control interface that puts mixing, processing and routing at your fingertips.

Available in 8 and 4-fader software versions, RELAY VRX works on today's powerful off-the-shelf PCs and laptops, and mixes all your PC audio sources, plus sources from your AES67 RAVENNA network. Great in the studio, and amazing on the road: take your RELAY laptop with you to cover breaking news, produce remote broadcasts, or work in your home studio. Then send your broadcast to the studio using WAN, LAN or 5G.

### MORE THAN JUST A MIXER

Yes, RELAY VRX is an audio mixer. But it's also much more. It's middleware — which means it can simultaneously connect to audio hardware, software, and a variety of third-party plugins. Audio processing apps. Phone apps for callers. Codec apps for remotes. Playback software. Livestream encoders. And many others.



#### On The Level.

Easy-to-read VU bargraph meters and PPM peak displays help ensure perfect levels.

#### What Time Is It?

Precision clock and timer read-outs, with on-air "LIVE!" tally.

#### As You Like It.

Instantly perform custom functions with the click of a User Key.

#### Dock It!

One click minimizes UI, so you can easily perform other tasks.

#### Mic Check.

Never worry about mic gain again. Just push-and-hold while talent talks; Autogain sets level precisely in seconds.

#### Be Scene.

Eight "snapshot" locations set and recall custom mixer settings at a moment's notice.

#### Program On.

Two stereo mixing buses, for off-air production —and on-air magic.

#### Hear There.

Click PFL Key to audition audio prior to air in your headphones or speakers.

#### DSP Me.

Lawo DSP plug-ins let you sweeten any source. Tally lights when active.

#### Mixbot, At Your Service.

Assign sources to Lawo Auto-Mix bus for hands-free mixing of multiple sources. Perfect levels every time.

#### Ready, Set, Go.

One-click channel On/Off gets your audio to air quickly.

#### Confidentially Speaking.

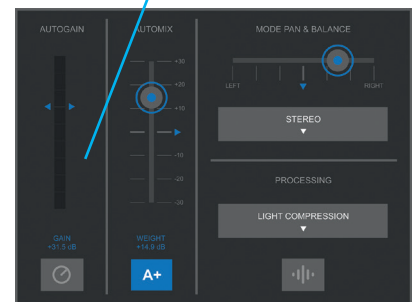
Automatic mono/stereo confidence meters help ensure there's never dead air.

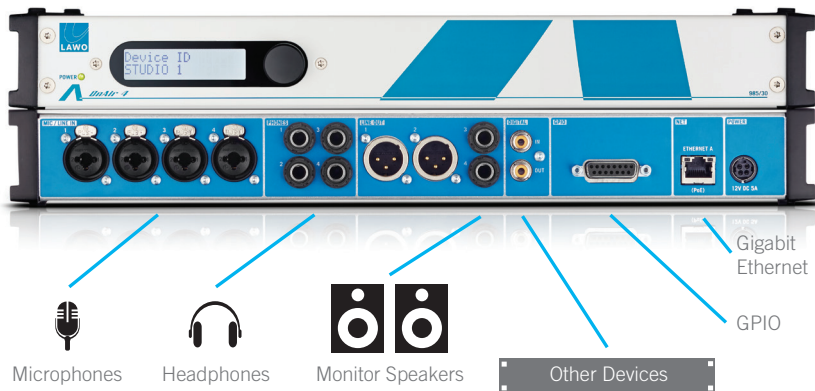
#### Channel Open.

Selectable fader-start option eases production of fast-paced shows.

#### Monitor This.

Two independently-controlled monitor feeds for convenient control of speakers and up to four headphones.





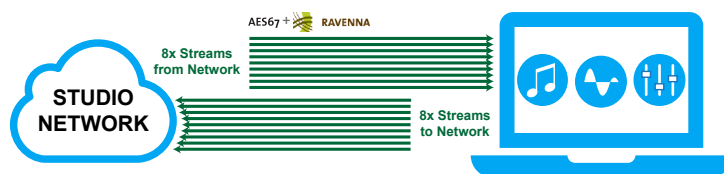
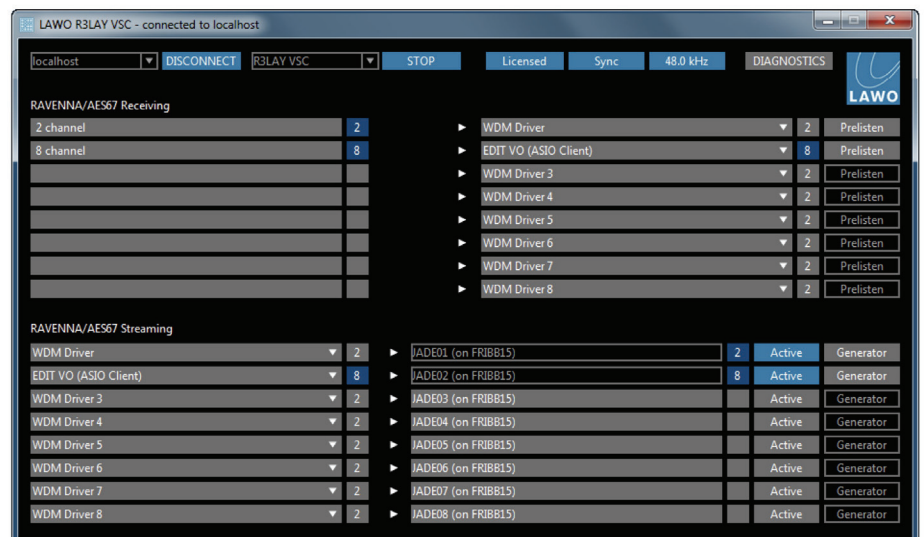
## I/O TO GO

R3LAY VRX's companion, OnAir 4, is a compact powerhouse with Mic, analog, digital, GPIO and even a 1GB AES67 / RAVENNA AoIP connection — all in a 1RU package. Perfect for remote broadcasting: it only weighs 5 lbs (2.3 kg). Slip it in a backpack with your R3LAY laptop and you're ready to hit the road. Perfect for small or home studios, news bullpens, audio production booths too.

## VSC VIRTUAL SOUND CARD

Modern broadcasting relies on AoIP networks. So why are production PCs stuck with old-fashioned sound cards? They're expensive. They don't speak "network." They can't support multi-channel audio. It's like they're holding your audio hostage.

Virtualizing with R3LAY VSC sets your content free. VSC is an 8x8 "virtual sound card" for Windows that turns your audio into clean, pristine AES67 / RAVENNA streams. R3LAY VSC is elegant, flexible and cost-effective.



Physical sound cards are handcuffed by PC hardware constraints. But R3LAY VSC is pure software, so it blows past those limits. Its low-latency, multi-instance professional ASIO driver with SRC supports stereo, 8-channel, even 64-channel streams. There are also 8 stereo WDM drivers for legacy PC audio apps. Each network connection carries 8 uncompressed, bi-directional audio channels — up to 128 total RAVENNA streams (64 in, 64 out).

## R3LAY PC REQUIREMENTS

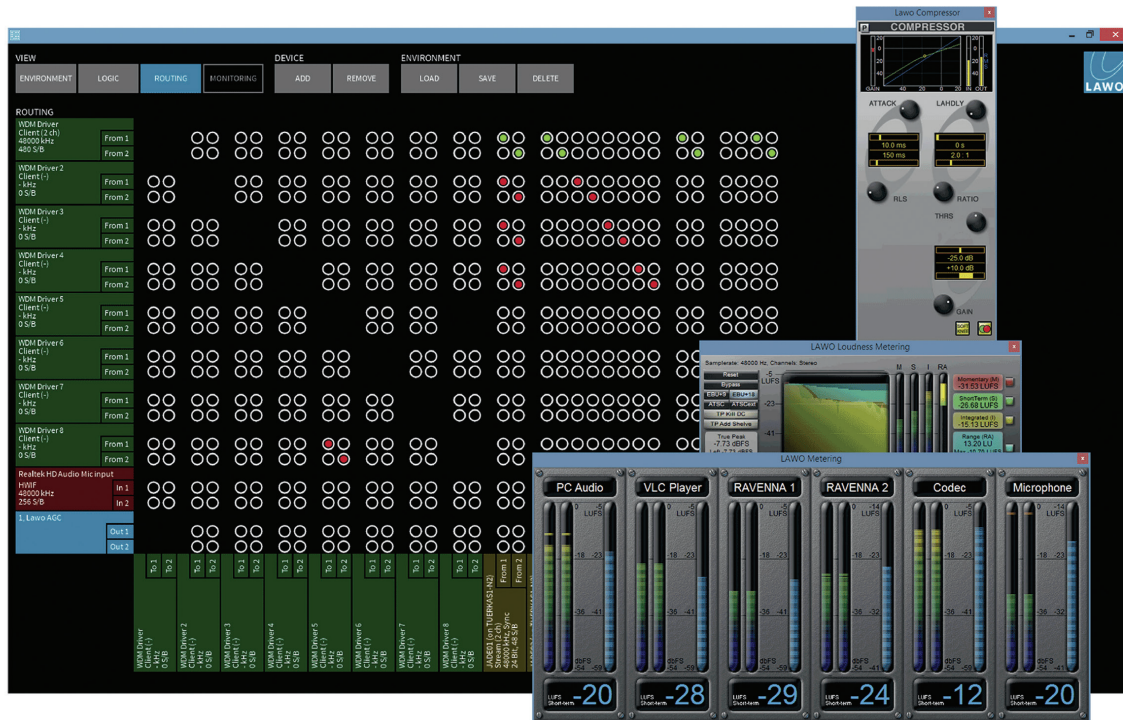
Here's what you'll need to run R3LAY Virtual Radio software:

- PC with Intel I-5 or I-7 quad-core CPU or better, with a CPU benchmark 10,000 points minimum (based on ratings from [cpubenchmark.net](http://cpubenchmark.net)).
- Dedicated graphics card.

- Windows 7, 8, 10, Windows Server 2012 R2, or Server 2016.
- 8GB RAM, 2GB drive space.
- Gigabit Ethernet LAN connection (preferably PTP-aware).

For latest product details and specifications, visit [lawo.com](http://lawo.com).

# VPB VIRTUAL PATCH BAY



Up to now, bridging the gap between audio apps, sound cards and broadcast hardware was nearly impossible. Thank goodness there's RELAY Virtual Patch Bay. Now you can easily route audio between PC audio apps and hardware audio devices. Even natively route AES67 AoIP streams. RELAY VPB displays them all in an intuitive matrix that lets you patch sources and destinations with just a click. Mix and combine multiple sources. Build custom routing environments. Even build custom signal layouts and logic connections with the built-in Boolean logic engine. RELAY VPB even supports ST2110-7 Seamless Protection Switching, ensuring fail-safe link backup to your AoIP network, for use in mission-critical broadcast applications.

Included with Virtual Patch Bay: the Lawo Processing Suite, for even more control of your audio. These VST plugins are based on the same tools found in our high-end mc<sup>2</sup> live-performance mixers: two compressors, delay, expander, limiter, graphic and parametric EQ, and a 5.1 panner. Plus an extensive metering package with peak, EBU R128 and ATSC A/85 loudness and correlation metering. You can even loop in your favorite third-party VST processing plugins.

## INCREDIBLY VERSATILE

- RELAY VPB plus your playout software equals a playout server. Connect your VPB PC to your mixing console or router using AES67 / RAVENNA, then run other apps (like recording or editing software) at the same time.
- Run RELAY VPB on a server to connect multiple software stream encoder instances. Incoming audio signals can be processed by plugins from the Lawo Processing Suite (or your favorite VST) before distribution to multiple encoders.
- An entire studio on one PC? Yes! Today's powerful COTS PCs can run multiple apps simultaneously, saving the costs associated with studio hardware and fully leveraging the power of your playout PC. Using RELAY VPB's Ember+ logic capabilities, these audio apps can be started automatically on demand, their outputs routed to any endpoint in your AES67 / RAVENNA network. Install RELAY VPB on your playout PC and add your other broadcast apps – remote codecs, VoIP clients, audio processing. Voila — a Virtual Studio.

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