StudioLive™
AI Mixing Systems

CASCADABLE
BETTER SOUND
EASIER TO USE
DOUBLE DSP
1-CLICK MULTITRACK RECORDING
WIRED & WIRELESS CONTROL
ROOM ACOUSTIC ANALYSIS
FEEDBACK CONTROL
BEST iPad APP
BEST iPhone APP
FULL DAW

SUMMER-FALL 2014
Cascading: Actively integrate any two AI mixers to create one larger console with full recording, remote control, 8 FX processors and up to 8 subgroups!

Cascading is not merely linking.

Don’t confuse Active Integration Cascading with the “linking” claims made by our competitors. Only StudioLive AI-series mixers can be combined via a FireWire 800 cable to create a larger console with complete recording and remote control.

Designate one mixer as “Master” and one as “Slave.” Each mixer’s effects buses remain local, doubling the number of processors. Chose to merge subgroups or leave them unmerged to use a group masters. Now your mixing system can grow along with your needs and budget!

The AI integrated software suite is up to the task.

Capture 2 welcomes 80-ch. recording and 66-ch. Virtual Soundchecks. VSL-AI and SL Remote-AI are ready and waiting for 72 channels. QMix-AI is all Q-ed up.

The last upgrade you’ll ever put on a thumb drive.

After the upgrade that brings you cascading, you’ll be able to update future StudioLive AI firmware directly over a network connection (wired or wireless). Simply connect your mixer to a network with Internet availability. Your my.presonus account will do the rest.
The Fat Channel: powerful, no-compromise signal processing at your fingertips.

Every channel and every bus of all three new StudioLive AI mixers have instant access to our even-hi-tter, improved Fat Channel with:
- Variable High Pass Filter
- 4-band parametric EQ
- Full-featured Compressor
- Sophisticated Gate with Key Listen and Key Filter (with sidechain)
- Limiter with variable threshold

All useable at the same time.

We didn’t bury them in a menu somewhere or limit you to using them only on some channels like our competition does.

But it gets even better.

- You get two complete Fat Channel settings per channel and bus (see below) — double the processing power and creative options!
- You can make all the same adjustments wirelessly on an iPad (SL Remote-AI)
- …or on a laptop (Virtual Studio Live-AI)

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All Clip LEDs are visible all the time.

We don’t hide critical indicators inside invisible “banks”. Everything you need to monitor a show (including all channel levels) is in sight at all times.

The most Analog Inputs and Outputs of any mixer in its class for extremely flexible connectivity in any application:
- Four internal FX buses with dedicated 32-bit digital effects processors.
- Class A XMAX preamps, now with individual -48V phantom power
- Balanced TRS line inputs
- Analog inserts
- Direct outputs
- Stereo tape i/o
- S/PDIF output

*Yes, that’s digital. But it’s filters.

Actually, you get DOUBLE Fat Channels per mixer channel and bus.

We’ve made it easy to compare two signal processing settings on the same channel (or choose between graphic equalizers). Just push the A/B button. It’s also perfect for quickly calling up a completely different sound for an instrument during a performance. You can store and recall both settings per channel on the mixer or in VSL-AI.

31-band graphic equalizers all over the place!

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Channel 12 is always Channel 12.

You asked for them. We delivered on the new AI Series. Insert them on Mains or any Aux bus. A/B between two settings. They’re perfect for use with VSL-AI’s SmartSurround® Tools. Run ’em from the mixer, a laptop (VSL-AI) or wirelessly (SL Remote-AI).

Easy configuration with dedicated mix buses.

All three AI mixer models have 4 subgroups with balanced outputs (and their own faders), as well as four separate FX buses. And of course you get dedicated analog aux buses with balanced outputs.

F O U R i n t e r n a l F X b u s e s w i t h d e d i c a t e d 3 2 - b i t d i g i t a l e f f e c t s p r o c e s s o r s .

Another benefit of the fact that AI mixers have a powerful computer CPU inside. You get two Reverb effect buses, and two Delay effects buses. We’ve provided 50 useful presets that sound superb. Or tweak parameters, make, save and recall your own recipes.
Blazing DSP Performance unleashes more processing power and flexibility:
- StudioLive AI-Series Mixers are developed on a new DSP platform that gets its power from a multi-core CPU and loads of fast RAM. The benefits include:
  - 2 two distinct Fat Channel settings for every channel and bus
  - 4 internal FX Buses (twice as many as original StudioLive mixers)
  - 80 auxiliary recording streams plus streams for all channel inputs. Take 1-click recording with Capture 2.1 to a whole new level.
  - 24 48
  - 32 48
  - 40 48
  - 48 48

Robust Metering
- You get all of these metering modes with bright LEDs, not on a small fuzzy screen:
  - Gate Key Input for every channel
  - Peak Hold metering option
  - 31-band graphic equalizer on every analog Aux mix and the Main mix
  - 16 Auxiliary recording input streams plus streams for all channel inputs.

Continuous bi-directional FireWire s800 interface for easy recording and virtual soundchecks:
- Buy a StudioLive AI, you’re also buying a complete recording interface so you can record everything you mix.
  - FireWire SEND streams
  - Dedicated channel sends for quick recording setup
  - 16 auxiliary recording streams:
    - record any bus plus Tape Input, Stereo Aux input channels, or Talkback
    - FireWire channel RETURNS with full DSP processing and stereo output for program music or click track
    - Play back pre-recorded multi-track songs from Capture or Studio One during live performance or tracking

Enhanced workflow features
- Solo Clear
- Aux Mutes
- Quick Parameter Null
- Browsable Fat Channel preset library categories
- Latch, Radio, and Control Room Solo modes
- 6 Mute Groups and 6 Quick Scenes (32.4.2AI buttons, 16.4.2AI & 24.4.2AI available via Virtual StudioLive-AI)
- Sound check the band before they arrive
- Use your favorite plug-in as an insert

Option card slot fights obsolescence.
- No matter what the future holds, StudioLive AI mixers are ready.
  - Store/load custom Fat Channel presets or use one of 50 Factory presets and copy settings to and from any channel or bus
  - Store and load custom GEQ presets
  - Store and load custom FX presets or use one of the 50 Factory presets

Complete Store and Recall
- Store/Recall complete mix
  - Scenes with fader soft takeover for instant access without losing your fader mix
- Factory presets or use one of the 50 Factory presets
- Store/load custom Fat Channel presets or use one of 50 Factory presets

No laptop needed with direct WiFi; or Ethernet LAN communication:
- Want to go wireless? From the network setup page, browse through the name of every available wireless network and simply chose the one you want to connect to...OR...
- Name your wireless network “StudioLive” with a password “studioLive” and your mixer will automatically connect to it, no configuration required. Nobody else makes it even remotely this easy. Pun intended.

AI-series mixers’ powerful suite of control and recording software.
- For you CAT5/6 types, StudioLive AI mixers make connecting to a LAN network easy:
  - If a hardwired Ethernet connection to a LAN network is available, your StudioLive AI mixer automatically connects to it, no IP addresses or DNS server names to remember or track down.
The StudioLive AI cre ative solutions suite.

Why just buy a mixer when you can own a complete Active Integration hardware/software system?

Offending frequencies appear white. Just tweak the closest faders to kill the feedback. Only StudioLive AI-series mixers let you work this Smart!

The most complete iPad app: SL Remote-AI

Don’t settle for an iPad application with limited functions. StudioLive Remote-AI gives you full control over all key mixer functions including Fat Channel adjustments and effects parameters from anywhere in a venue.

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You’re ready for the Wheel of Me, a virtual thumbwheel that adjusts the volume of your “Me” channels in relation to the rest of the monitor mix. Rotate your phone to Landscape view for control of the aux-mix send levels and pan position for each channel and aux. Want more kick drum? Dial it in.

New in QMix-AI:

- Direct connect to AI-series mixers without a computer or VSL-AI
- Full wireless control over focused AI mixer Aux Mixing parameters
- Set permissions between all Aux Mixes or an individual Aux mix control from the AI mixer system menu
- Restrict novice users to Wheel of Me to store, edit and share Scenes and Fat Channel presets.

New in Virtual StudioLive-AI

- Wireless connection to AI mixers
- Customizable for any screen size from 1280 x 768 up
- New DSP, Aux, FX, and Fader panels collapse and expand
- New Aux Mix panel emulates Aux Mix mode on AI Mixer Fat Channel
- AI Scene, FX, Fat Channel, and GEQ preset libraries auto-sync to VSL-AI
- Fader Locate shows where the AI mixer faders are relative to VSL-AI faders
- Now part of the Fat Channel EQ display: Smart RTA and Spectrograph (remove feedback with Aux Mix Fat Channel EQ and reserve your GEQs for aesthetic adjustments for performers)

VSL-AI, SL Remote-AI and QMix-AI, Big Mode meter and an amazing roster of safety features like auto-save in the event of a power failure. But it gets even better:

Active Integration in action: AI mixers, Capture 2.1 and Studio One 2.6

Now AI-Series mixer Scenes can be stored inside Capture 2.1 files and reproduced when you open the file in Studio One 2.6. Every Studio One track will have the new Fat Channel plug-in — with identical settings to those you set on your StudioLive AI mixer during the concert or worship service. Plus your faders levels, mutes and FX mixes! This is a huge time-saver when you need to do a quick mix-down, and a great starting point when you sit down to do the final quick mix-down, and a great starting point when you sit down to do the final mix. It’s another example of how we’re actively integrating our applications.

Finetune, enhance and produce with a full-feature DAW

Studio One has the world’s fastest-growing user base for a reason. Okay, several reasons — including sound quality, ease of use, speed of workflow and ingenious features. So naturally, we pack a full copy of Studio One Artist 2.6 with AI-Series mixers. Unlimited track count, automation, virtual instruments, loads of plug-ins, and gigs of 3rd-party resources are just the start. Export to SoundCloud or your free Nimbit Facebook store from inside Studio One. And naturally you can open Capture 2.1 files...but it gets even better:

Fans want part of the live experience, you want to get more fans, and of course it’s nice to make money too. Do it all with Nimbit. With Nimbit FanCheck.In, fans can use their mobile phones to get rewarded with free downloads or offers to buy StudioLive recordings from the night, all while getting added to your list; Parishioners can check in — with identical settings to those you set on your StudioLive AI mixer during the concert or worship service. Plus your faders levels, mutes and FX mixes! This is a huge time-saver when you need to do a quick mix-down, and a great starting point when you sit down to do the final mix. It’s another example of how we’re actively integrating our applications.

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Built on the features and functionality of the award-winning StudioLive 16.4.2 and 24.4.2 digital consoles, the AI-mixers retain the same powerful, surface-driven user interface while adding amazing processing power, unique software network integration, and enhanced workflow features.

Available in 32-, 24-, and 16-channel frame sizes, each AI-Series Mixer is equipped with a next generation DSP platform that enables PreSonus’ Active Integration technology. Active Integration creates a complete, networked, tightly integrated hardware/software ecosystem in which every touch point in the system communicates to enhance the user experience and solve practical problems in ways not previously possible.

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Active Integration™ software suite includes:

- Studio One-derived 64-bit coefficients for summing engine, EQ and dynamics
- The most analog inputs and outputs of any mixer in its class for more flexible connectivity:
  - 32/24/16 Class A XMAX™ Preamps with individual phantom power
  - 36/28/20 balanced TRS line inputs
  - 32/24/16 Analog Inserts
  - 32/24/16 Direct Outputs
  - Stereo Tape I/O
  - 2 Stereo Balanced Aux Return Inputs
  - Talkback communication system with dedicated XMAX™ mic preamp
- Active Integration™ software suite includes:
  - Capture 2.1: Multitrack software with true Virtual Soundcheck and remote scene store/load
  - Studio One Artist 2.6: Full DAW application with Native StudioLive Fat Channel plug-in and Studio-Live AI Scene compatibility
  - VSL-AI: Editor/Librarian with wireless remote control and Smaart™ System Check Wizards
  - SL Remote-AI: Direct wireless total mixer control software for Apple iPad
  - QMix™-AI: Direct wireless dedicated aux mix control software for Apple iPhone/iPod touch
16.4.2AI

- 24/16/16 dedicated mix buses for easy configuration:
- 4 subgroups with balanced outputs
- 14/10/6 analog auxiliary buses with balanced outputs
- Stereo main mix with mono sum
- 4 internal FX buses with dedicated onboard 32-bit digital effects processors (two reverbs, two delays)
- Analog Inserts on every channel
- Analog Direct Outputs on every channel
- Analog Stereo Tape I/O
- 2 Stereo Balanced Aux Return Inputs
- Fat Channel with:
  - Variable High Pass Filter
  - 4-band parametric EQ
  - Full featured compressor
  - Sophisticated gate with Key Listen and Key Filter (with sidechain)
  - Limiter with variable threshold
- A/B two complete Fat Channel settings—like having two different Fat Channel settings at once on every channel and bus
- PLUS 16/12/8 31-band graphic EQs on each Aux and the Main bus with A/B
- All EQ & Dynamics buttons let you A/B two different Fat Channel settings
- USB Device port supports USB wireless LAN adapter and thumbdrives for firmware updates
- 37/29/21 100mm Faders
- 99-Scene Store and Recall
- Quick “zero-out” for each parameter
- Talkback communication system
- S/PDIF out
- Optional iPad® Stand
- Option Cards: S800, 800 Mb/s
  - Thunderbolt®
  - Dante™
  - AVB

- Fully integrated, continuously bi-directional FireWire 800 recording interface for easy recording and virtual soundcheck:
  - 48/40/32 FireWire send streams
  - 32/24/16 dedicated channel sends for quick recording setup
  - 16 auxiliary recording streams: record any bus plus Tape Input, Stereo Auxiliary Input channels, or Talkback

- 34/26/18 FireWire returns
  - 32/26/18 hardened channel returns with full DSP processing plus a stereo output for program music or click track
  - Playback pre-recorded tracks during live performance or tracking
  - Sound check the band before they arrive
  - Use your favorite plug-in as an insert
  - 24-bit, 44.1 and 48 kHz
  - Compatible with Core Audio and ASIO (Mac®/Windows®)

- 24-bit, 44.1 and 48 kHz
- 22/24-Bit Analog to Digital
- 22/24-Bit Digital to Analog
- 22/24-Bit AES/EBU
- 22/24-Bit S/PDIF
- 22/24-Bit ADAT

- Microphone Preamplifier
  - 3 Preamp Modes
  - 3 Mic Inputs
  - 3 Line Inputs
  - 3 Aux Inputs
  - 3 Direct Outputs
  - 3 Monitor Outputs

- 8-Bit Hybrid, 16-Bit Floating Point
- 32-Bit Floating Point
- 64-Bit Floating Point

- Analog Stereo Preamplifier
  - 118 dB
  - 48 kHz
  - 24-Bit
  - 32-Bit

- Analog Insert On Every Channel
  - 4-Band Parametric EQ
  - 31-Band 1/3-Octave Controls
  - 2nd-order shelving filter
  - 2nd-order, resonant bypass; Q=0.7

- Mic Preamp
  - 90 to 240 VAC
  - 0.05s to 2s
  - 100Ω
  - 0.02s to 500 ms / 0.5 ms

- Compressor
  - 0.05 to 500 ms
  - 2:1 (fixed)
  - 48-bit internal processing
  - 24-bit A/D, D/A conversion

- Limiter with variable threshold
  - 2nd-order, resonant bypass; Q=0.7
  - 100Ω
  - 0.05s to 2s
  - 100Ω

- Talkback Communication System
  - 100mm Faders
  - 100Ω
  - 0.05s to 2s
  - 100Ω

- Digital Audio Input/Output
  - 22/24/32-bit 192kHz
  - AES/EBU
  - S/PDIF
  - ADAT

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  - 22/24/32-bit 192kHz
  - AES/EBU
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Many digital mixers claim to have a "virtual soundcheck" but it comes with all the same headaches and hassles as multi-track recording and playback. So before you can use your recordings to set up a mix, you have to configure your mixer inputs to play back audio and when you're done, you have to dive back into that system setup menu to reconfigure your mixer channels for analog inputs.

Not easy to connect to a network.
Off-hand, do you know the IP address of your router? Or Gateway subnet mask? Probably not. Finding out these arcane tidbits of info is just part of the multi-track recording and playback process you have to go through to set up your audio interface to your computer. So you can use your mixer's default network settings and broadcast the rack name to your mixer, or you can connect to your network via Ethernet or via USB with a wireless "dongle." Connect your StudioLive AI mixer to your router with an Ethernet cable and you're connected. If you want to connect wirelessly, connect the included USB wireless adapter to your mixer and scan for available networks.

Recording a performance or rehearsal, then being able to do a soundcheck and ring out the PA system before the band arrives is a powerful tool. StudioLive AI mixers are the only affordable mixer line that provides a truly integrated Virtual Soundcheck mode.

Click the Virtual Soundcheck mode button in Capture. Select the Capture session you want to use. Capture automatically loads the audio, loads the stored StudioLive mix scene on your mixer, engages the digital returns on your mixer, and broadcasts the track names to your mixer, SL Remote-AI, VSL-AI, and QMix-AI. When you're done dialing in your mix, click the Virtual Soundcheck mode button again to remove your audio, turn on the analog inputs on your mixer, and arm all the tracks for recording tonight's gig in Capture. No other mixer has a two-click Virtual Soundcheck.
No analog inserts or direct outs. Mixer X simply doesn’t have any. So if you have Mixer X on stage to run your monitor mix and you need to get the same signals back up to front-of-house for your main mix engineer to do his job, you're going to have to purchase an expensive splitter snake.

No visual tools for PA optimization or feedback elimination. Years of sound engineering experience and “golden ears” shouldn’t be necessary to get the most out of your PA system in any room environment. Other compact mixers leave you on your own or make you buy extra expensive software.

No interactive software suite. A mixer without robust software that solves everyday problems is like a computer without an operating system. Sure Mixer X comes with some software, but it wasn't designed to work together. So you need to configure both the mixer and the software just to get them to talk to one another. And when you're through, none of the software programs talk to each other. Or do stuff like Room Analysis and visual feedback elimination (see Compromise 7).

No easy way to record multi-track. If you're not recording everything you mix — including rehearsals — you're missing out on a valuable (and potentially profitable) tool. If you want to multitrack with Mixer X, you'll have to either configure that free “lite” software that came with it or purchase a full-featured DAW application and configure it as well.

Want to playback those recordings through your mixer? Well, now you have to dive into a system setup menu and configure your mixer to playback audio from your computer.

Active Integration technology turns a StudioLive AI mixer into a powerful hardware/software system: VSL-AI for laptop control, setup, feedback elimination and more, SL Remote-AI to mix remotely from anywhere in the venue, QMix-AI for personal monitor adjustment, Capture 2 for one-click multi-track recording and true Virtual Soundchecks, Studio One Artist DAW for production, and Nimbit for distribution.

Moreover, they talk to each other! Change the name of a mixer channel in VSL-AI and it automatically updates in SL Remote-AI, QMix-AI, Capture, and your mixer. Open a Capture track in Studio One Artist and you'll discover all of your mixer Fat Channel settings reproduced as individual plug-ins.

Capture 2 software was designed specifically for StudioLive mixers so it knows which mixer is connected and auto-configures accordingly so you can record with a single mouse click. It “knows” the track/channel names and stores all Fat Channel settings for use with Studio One Artist. It even “starts recording” before you hit REC, just in case you’re a little slow on that mouse click. Ready to playback your recording? Just click ‘play’ in Capture, the digital returns on your StudioLive AI mixer turn on automatically and you’re listening to your recording. It’s that simple.

We built Rational Acoustics’ acclaimed Smaart® measurement and analysis software right into VSL-AI. The easy-to-use Smaart Room Analysis Wizard guides you step-by-step through an automated process to “shoot the room” and equalize your PA to the venue’s acoustic space in minutes. Two other Wizards calculate and set alignment delays and help you to quickly verify outputs and routing. Plus Smaart Spectrogram on all VSL-AI Fat Channel and graphic EQs visually pinpoints feedback frequencies so you can quash them quickly.

StudioLive AI has an analog insert and a direct out for every channel. That’s useful for adding in outboard dynamics and effects processors to get just the right tone on a particular channel or two.
You can only see half the channels at once. Most digital mixers rely on “banking” to save cost on pricey moving faders. This means that you only have immediate access to a small portion of your channels. Let’s say that Mixer X is set to the Channels 1-16 bank. The lead vocal on Channel 22 is clipping like mad. But you don’t have any visual feedback because that channel is in a different bank. And it’s a couple button pushes just to get to it, and by the time you’ve fixed that, the guitarist has started his solo on Channel 14 and you’re frantically switching back and forth to ride the fader.

Not enough graphic EQs or limiters. Also in the fine print for most digital mixers is what processing you actually get…and where you actually get it. It’s not a pleasant surprise. Let’s say Mixer X claims eight stereo graphic EQs. What they don’t mention is that if you use all eight graphic EQs, you don’t get any other effects! You’re maxed out. If you want a graphic EQ on each of your 14 aux mixes and another on your Main, you don’t get a reverb, delay, or any other effect for your instruments and vocals. The same goes for limiters. Want to put a brick wall limiter on your vocalist’s in-ears? You’ll need to pick and choose what you’re willing to give up to protect their hearing.

Not enough Aux or Effects buses. For years, digital mixers have used “flexible” mix buses. They give you a set number of mix buses and you can divide them up into aux buses or subgroups as you see fit. On the surface, this sounds great, but can cause some real problems if you don’t read the fine print. Let’s say Mixer X has 16 mix buses and you need 14 aux mixes. That leaves you two mix buses that can either be effects buses or subgroups. Need an extra reverb send for the horn section? You’ll need to give up one of your aux mixes just to get it.

No creative signal processing alternatives. Experimenting with different EQ, compression and limiting settings is a critical part of getting your sound right. Mixer X (and all other compact digital mixers, for that matter), make it difficult to try two different settings on the same channel. Listen to one setting. Do a lot of adjustments. Listen to the alternative. Forget how the first setting sounded. Try to reproduce the first setting, etc. When experimentation is difficult, you don’t do it as much and miss out on making your sound better.

StudioLive AI mixers provide 16, 20, and 24 dedicated mix buses, so you always know exactly what you have to work with. That means you always have 6, 10, or 14 aux buses (depending on model), 4 FX buses, 4 subgroups, and a stereo main bus. Every StudioLive Fat Channel is actually two Fat Channels with an A/B button so you can make instant comparisons. You get two whole sets of EQs, limiters, compressors, high pass filters, etc. on each channel. For example create a Fat Channel setting that makes the kick drum punchy. Then create another setting that’s even more radical with more low end boom. A-B back and forth to hear which one you like. This feature is also great for radically changing the channel signal processing for an individual song in the set.

StudioLive AI mixers provide a 31-band graphic EQ and limiter for every aux bus, plus a stereo 31-band graphic EQ and limiter for the main bus. All the time. No compromises. These are in addition to the 4-band fully parametric EQ, full-featured compressor, and noise gate/expander that you get for every bus (including the four effects buses) and the high pass filter you get for every aux bus plus the four effects buses. No other digital mixer in this price point even comes close. With StudioLive AI, everything is right in front of you, just like on classic analog consoles. Clip LEDs on every channel. Big, visible meter displays. A fader for every channel. This is how live mixing should work.
mixers elegantly avoid them. And how Studiolive™ AL
force on you. compromises other compact digital mixers.

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