Presonus StudioLive 16.4.2 Digital Recording Mixer

- 16 mic/line inputs with high-headroom Class A XMAX™ mic preamplifiers
- 4 subgroups
- Stereo/mono main out
- 6 auxiliary mixes
- 32-in/18-out FireWire digital recording interface (24-bit/44.1 kHz and 48 kHz)
- Studio One Artist Digital Audio Workstation software for Mac® and PC
- Capture™ 1.1 recording software for Mac® and PC
- StudioLive Remote mixer-control software for iPad® available free from Apple App Store
- QMix™ aux-control software for iPhone® and iPod touch® available free from Apple App Store
- Direct recording interface compatible with Logic®, Nuendo, Cubase, Sonar™, Digital Performer™, Ableton™ Live, and more
- 16 channel strips
- Trim control with –20 to +20 dBV line/-15 to +65 dBu mic gain range (80dB!)
- +48V phantom power switch for condenser microphones
- FireWire Input Select
- 100 mm precision faders
- Lighted Solo and Mute buttons
- Access to Fat Channel functions
- 15-LED ladder metering + clip LED
- Analog ¼" insert (rear panel)

- 4 subgroup buses, each with:
  - Solo
  - Mute
  - Access to Fat Channel functions (except high-pass filter and phase reverse)

- 6 aux sends, each with
  - Solo
  - Pre/post-fader send
  - Output-level control
  - Access to Fat Channel functions (except phase reverse)
  - Mix and Mix/Pan Fat Channel metering
  - Available sources: Channels 1-16, FXA Return, FXB Return

- 2 internal effects sends, each with:
  - Mute
  - Pre/post-fader send
  - Output-level control
  - Access to Fat Channel (except phase reverse)
  - Effects-send Select for Fat Channel metering
  - Mix button for aux-bus mixing and Fat Channel metering

- Master Section
  - Aux Input A and B
  - Level Control and Select (Fat Channel metering) switch
  - Access to all Fat Channel functions (except phase reverse)

  - Talkback System
    - Mic Level control
    - Output Select (Aux 1-2, 3-4, 5-6, Main)
    - Talk button
    - Rear-panel XLR mic input with level control and continuous 48V phantom power

- o 2 Track In
- ▪ Level control
- ▪ Tape Input to Mains button
- ▪ FireWire source on/off

- o Solo Bus
- ▪ Cue Mix volume control
- ▪ PFL/AFL and Solo In Place (SIP) buttons

- o Monitor Bus
- ▪ Headphone-output level control
- ▪ Control-room monitor-level control
- ▪ Solo Bus to Monitor button
- ▪ Tape Input to Monitor button
- ▪ Main L/R FireWire Return to Monitor button
- ▪ Main Mix to Monitor button

- • Fat Channel with rotary encoders:
- o Pan with dedicated 15-LED display
- o Stereo link for input channels, aux buses, and subgroups
- o Phase reverse (main channels only)
- o High-pass filter: 6 dB/oct., sweepable from Off to 1 kHz (main channels and aux's only)

- o 4-band semi-parametric equalization
- ▪ Low EQ: sweepable from 36 Hz to 465 Hz, ±15 dB, switchable shelf or peaking
- ▪ Low Mid EQ: sweepable from 90 Hz to 1.2 kHz, ±15 dB, switchable 0.55/2.0 Q
- ▪ High Mid EQ: sweepable from 380 Hz to 5 kHz, ±15 dB, switchable 0.55/2.0 Q
- ▪ High EQ: sweepable from 1.4 kHz to 18 kHz, ±15 dB, switchable shelf or peaking

- o Gate: Threshold 0 to –84 dB; Rate: 2 to 0.05 sec
- o Compressor: Threshold -56 to 0 dB, Ratio 1:1 to 14:1, Attack 0.2 to 150 ms, Release 40 to 1000 ms, Makeup Gain 0 to 28 dB, Soft Knee switch, Auto Mode with 10 ms Attack and 150 ms Release
- o Limiter: 0 dBFS Threshold, ∞:1 Ratio
- o Output Assign: 4 subgroups and main with post-EQ/post-dynamics option
- o All settings can be copied among channels and saved as user presets.
- o 50 channel-strip presets for drums, bass, guitars, keyboards, and vocals

- • 2 internal digital effects-processors, each with 50 customizable reverb and delay presets
- o 31-band graphic equalizers
- ▪ Available on Main Outputs only

- o Scene Store and Recall
- o Global Scene Storage: all current StudioLive settings
- ▪ Up to 80 at a time

- o Automatic Global AutoStore
- o Individual channel-strip Scene storage
- ▪ Up to 48 at a time, plus…
- ▪ 50 factory presets for instruments and vocal

- o Copy and Paste between channels
- o Customizable naming (for example, "*Saturday Gig*" or "*Main Worship Service*")
- o Lockout mode to keep inspired amateurs from changing your settings

- Metering/Displays

  - 16 x 16- LED Fat Channel matrix:
    - Pre-dynamics/pre-fader input
    - Post-dynamics/post-fader output
    - Gain reduction
    - Aux 1-6 and EFX A/B output
    - Fader-position recall

  - 8 x 15-LED main meter bank
    - Selected channel level
    - Selected channel gain reduction
    - Sub buses 1 to 4
    - Main stereo outputs

  - 15-LED horizontal Pan/Balance display
  - 64 x 194 LCD matrix
    - Effects parameters
    - Scene creation, storage, and recall
    - System menus

  - 2-digit Channel Selected display

- Input/Output
  - 16 main inputs, each with XLR mic, ¼" line, and ¼" inserts
  - 2 ¼" stereo (L/R) aux inputs
  - 1 XLR talkback-mic input with phantom power and level control
  - Unbalanced RCA stereo (L/R) tape inputs and outputs
  - XLR stereo (L/R) main outputs with level control
  - ¼" stereo (L/R) main outputs
  - XLR mono output with level control
  - ¼" stereo (L/R) control-room outputs
  - ¼" Headphone output
  - 4 ¼" subgroup outputs
  - 6 ¼" aux outputs
  - 16 pre-insert, balanced direct outputs, Ch. 1-8 and 9-16 (DB25 sockets)
  - S/PDIF digital out
  - 2 FireWire 400 ports

- Digitalia
  - High-definition analog-to-digital converters (118 dB dynamic range)
  - Unlimited-headroom, 32-bit floating point, digital mixing and effects processing
  - Internal sample frequency 44.1 kHz and 48 kHz

- Physical
  - Rugged, non-flex steel chassis
  - 100 mm long-throw faders
  - Military-grade, quick-touch buttons
  - BNC 12V lamp socket
  - Optional dust covers available

- Software bundle for Mac® and Windows® includes:
  - PreSonus Studio One® Artist digital audio workstation
  - PreSonus Capture™ live-recording software

- PreSonus Universal Control with Virtual StudioLive™ bidirectional mixer-control software

- Free downloadable software from the Apple App Store provides wireless remote control, including:
  - PreSonus StudioLive Remote for iPad®
  - PreSonus QMix™ for iPhone® and iPod touch®