

## E-Mu Tracker Pre USB 2.0 Audio Interface

### Technical Specifications

#### General

- Sample Rates: 44.1, 48, 88.2, 96, 176.4, 192kHz from internal crystal (no sample rate conversion)\*
- Bit Depth: 24-bit I/O, 32-bit processing
- USB 2.0 Hi-Speed
  - Full 24-bit resolution at all sample rates
  - Stereo in, stereo out at all sample rates
- Zero-latency direct hardware monitoring (disabled at 176.4-192kHz)
- Windows drivers: ASIO2 and WDM
- Macintosh driver: Apple CoreAudio
- Anti-Pop speaker protection minimizes noise during power on/off
- Ultra-low jitter clock subsystem: < 100ps RMS
- USB Bus or AC powered via optional Universal Power Supply

#### Combo Preamplifiers (2)

- Type: E-MU<sup>®</sup> CurrentMorph<sup>™</sup> combo mic preamp and Hi-Z/line input
- A/D converter: AK5385
- Max Level: +6.4dBV bal/unbal (+6.9 dBu)
  - Hi-Z/line balanced input: +6.9dBV bal/unbal (+9.1dBu)
  - Microphone Preamplifier: +6.4dBV bal/unbal (+8.6dBu)
- Frequency Response (min gain, 20Hz-20kHz): +0.0/-0.03dB
- Dynamic Range (A-weighted, 1kHz, min gain): 112dB
- Signal-to-Noise Ratio (A-weighted, min gain): 112dB
- THD+N (1kHz at -1dBFS, min gain): -102dB (.0007%)
- EIN (20Hz-20kHz, 150ohm, unweighted): -127dBu
- Input Impedance
  - Hi-Z/line balanced input: 1Mohm
  - Microphone Preamplifier: 1.5Kohms

#### Analog Line Outputs (2)

- Type: balanced, AC-coupled, 2-pole low-pass differential filter
- D/A converter: CS4392
- Max Level: 6.6 dBV (unbalanced)
- Frequency Response (20Hz - 20kHz): 0.00/-0.08dB
- Dynamic Range (1kHz, A-weighted): 112dB
- Signal-to-Noise Ratio (A-weighted): 112dB
- THD+N (1kHz at -1dBFS): -99dB (.0011%)
- Stereo Crosstalk (1kHz at -1dBFS): <-111dB

## Headphone Amplifier

- Type: Class-A power amplifier
- D/A converter: CS4392 (shared with Line Out)
- Gain Range: 60dB
- Maximum Output Power: 22mW
- Output Impedance: 22ohms
- Frequency Response (20Hz-20kHz): +0.02/-0.07dB
- Dynamic Range (A-weighted): 112dB
- Signal-to-Noise Ratio (A-weighted): 112dB
- THD+N (1kHz, max gain): 300ohm load: -99dB (.0011%)
- Stereo Crosstalk (1kHz at -1dBFS, 300 ohm load): <-90dB

## Synchronization

- Internal crystal sync at 44.1, 48, 88.2, 96, 176.4, 192kHz\*

\* Macintosh operation up to 96kHz only at this time - check [www.emu.com](http://www.emu.com) for updates

## Retail Box Contents

- E-MU Tracker Pre USB 2.0 Audio Interface
- USB cable (2 meters)
- Installation Guide
- E-MU Software/Manual Installation CD-ROM (OS X /Windows)
  - Windows XP, Windows x64, Windows Vista, Windows Vista x64 Drivers
  - Mac OS X 10.4, Mac OS X 10.5 Drivers
  - Owner's Manual and Tutorials
  - Adobe Acrobat Reader (Windows only)
- E-MU Production Tools Software Bundle DVD (OS X /Windows)
  - Windows Applications
    - E-MU Proteus VX (with over 1000 sounds)
    - Cakewalk Sonar 6 LE
    - Steinberg Cubase LE4
    - Celemony Melodyne essential
    - IK Multimedia AmpliTube Duo
    - SFX Machine LT
  - OS X Applications
    - Steinberg Cubase LE4
    - BIAS Peak Express 5

- Celemony Melodyne essential
- IK Multimedia AmpliTube LE
- SFX Machine LT
- Ableton Live Lite 6 E-MU Edition CD-ROM (OS X, Windows)
    - Ableton Live Lite 6 E-MU Edition
  - Waldorf Edition LE CD-ROM (OS X, Windows)
    - Waldorf Edition LE

## Minimum System Requirements

Windows:

- Intel® or AMD® processor - 1.2 GHz or faster
- Intel, AMD, or 100% compatible motherboard & chipset
- Microsoft® Windows® XP (SP 2 or greater), Windows XP x64, Windows Vista, or Windows Vista x64
- 1 available (Hi-Speed) USB 2.0 port \*
- 512 MB System RAM
- 900 MB of free hard disk space for full installation
- CD-ROM/CD-RW drive required for software installation
- DVD-ROM drive required for bundled software installation
- X VGA Video (1024 X 768)

OS X:

- Apple® Macintosh® G4 800 MHz G4 compatible or Intel-based processor
- Apple Macintosh OS X (10.4.3 or greater)
- 1 Available (Hi-Speed) USB 2.0 port †
- 512 MB System RAM
- 500 MB of free hard disk space for full installation
- CD-ROM/CD-RW drive required for software installation
- DVD-ROM drive required for bundled software installation
- X VGA Video (1024 X 768)

\* When connecting the Tracker Pre to a USB 1.1 port on a Windows PC, performance is limited to 16-bit and 44.1/48 kHz recording and playback.

† USB 1.1 is not supported on the Macintosh