



Mbox 2

High-Performance Portable Audio/MIDI Production System

Features

Hardware

- Superior sound quality
- Four simultaneous inputs with analog and digital I/O*
- Two analog inputs (XLR, 1/4" line, and 1/4" instrument/DI jacks) and two analog outputs (1/4" jacks)
- Two channels of S/PDIF digital I/O (RCA)
- 48V phantom power for condenser mics
- 24-bit/48 kHz audio
- MIDI in/out
- Zero-latency monitoring
- 100% USB powered

Software

- Award-winning Pro Tools LE software (Windows XP and Mac OS X)
- 32 simultaneous audio tracks (128 virtual audio tracks), expandable to 48 tracks**
- Integrated MIDI sequencer with 256 simultaneous MIDI tracks
- More than 50 plug-ins, virtual instruments, and compatible applications
- Works with REX and ACID files, and supports ReWire audio streaming
- Beat Detective LE groove analysis and correction tool

*Four simultaneous inputs require two channels of digital input plus two analog channels.

**Requires optional Music Production Toolkit or DV Toolkit 2

Mbox[®] 2 is a next-generation USB-powered audio/MIDI production system that builds on the performance and simplicity of the original Mbox—Digidesign's most popular personal studio product ever. Combining high-performance hardware and award-winning, industry-standard Digidesign[®] Pro Tools LE[™] software, Mbox 2 gives you essential tools to help you realize your creative vision.

Mbox 2 offers the ease of use, portability, and compelling software components of the original Mbox while delivering improved sound quality, the addition of MIDI input and output, more simultaneous inputs, additional free software, and a sleek, new design—all still at an affordable price.

Hardware Designed for Performance

Mbox 2 delivers superior sound quality that surpasses the sound of almost any other bus-powered USB-audio interface and rivals much more expensive systems. The Mbox 2 hardware interface was developed from the ground up, exclusively by Digidesign, by the same hardware engineers who crafted the top of the line Pro Tools|HD[®] systems and the VENUE live sound environment. With newly designed mic preamps and new A/D and D/A converters, Mbox 2 has an impressive dynamic range that translates into much more headroom and a significantly lower noise floor. The result is that you can record ideas more accurately and play them back in greater fidelity than ever before.

With its small footprint and USB-powered design, Mbox 2 is a highly portable Pro Tools[®] workstation, ideal for capturing field recordings for post production projects, editing tracks from studio sessions, experimenting with mixing

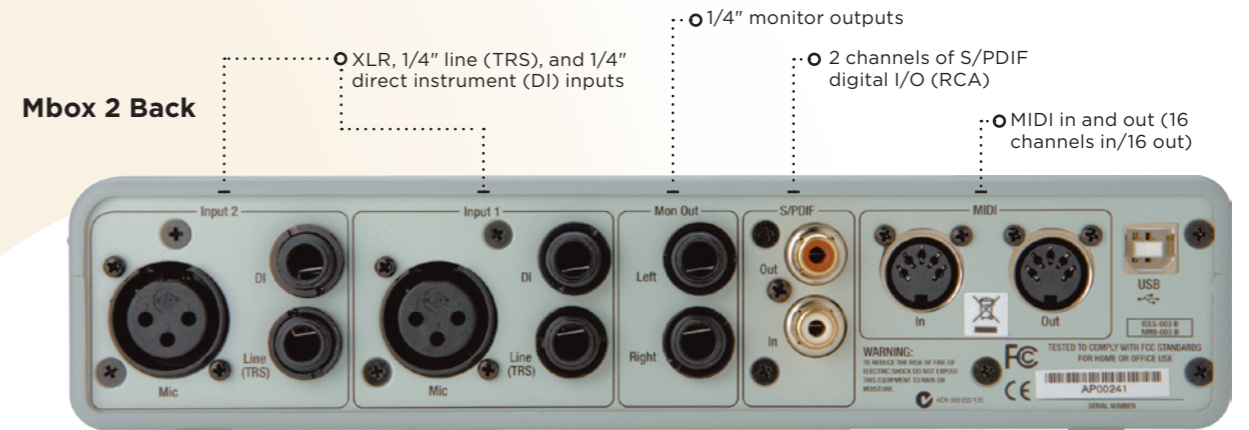
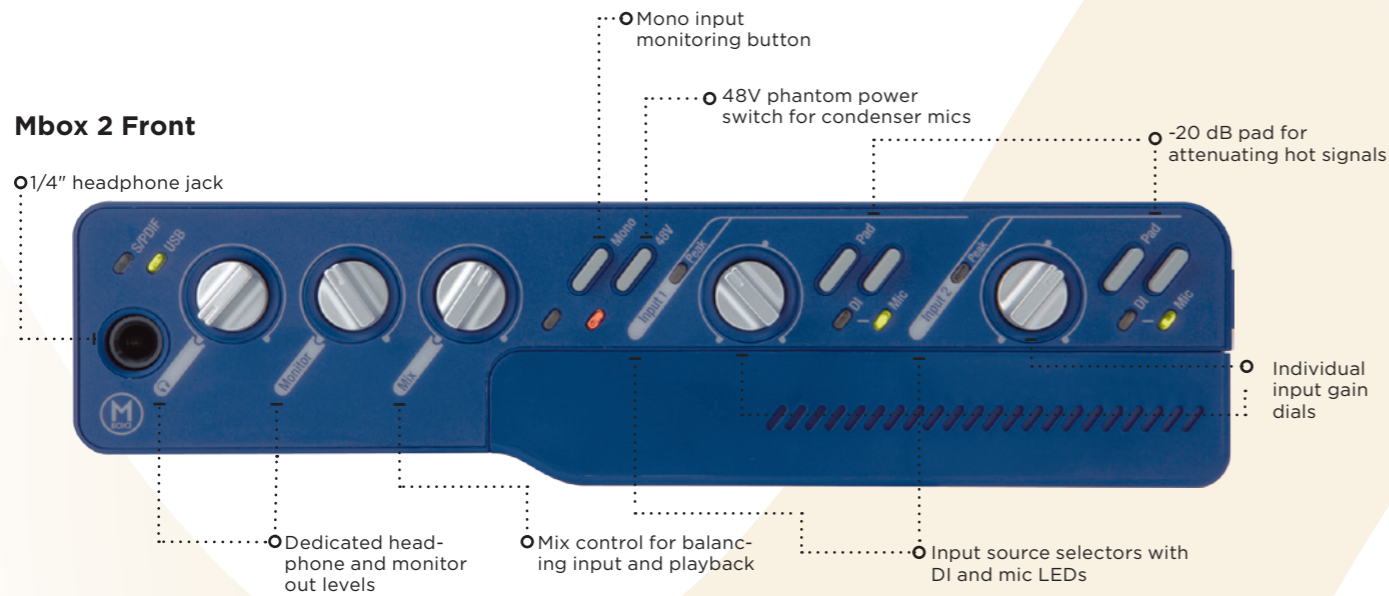
ideas, or recording song ideas on the go. But don't be fooled by its compact size—Mbox 2 packs a serious punch. With two analog inputs (XLR and 1/4" jacks), two 1/4" analog outputs, and two channels of S/PDIF digital I/O, plus one MIDI in and one MIDI out port, you have all the options you need to capture your inspiration. Mbox 2 also allows you to record up to four channels simultaneously using both analog and digital inputs.*

Though the internal design reflects an evolutionary leap from the original Mbox, it is the external physical design that will be immediately noticeable. The physical design of the Mbox 2 hardware unit is both distinctive and functional: It can be positioned horizontally or vertically for easy placement. Mbox 2 comes with two faceplates, which can be swapped using the included hex wrench. One faceplate features a handle that makes the unit easily portable. When Mbox 2 is positioned horizontally, the handle tilts the unit up toward the user for fast access to controls. In the vertical position, the handle adds stability. The second faceplate, which offers a rubberized grip, allows Mbox 2 to sit flat on a desktop and reduces the space required when the unit is packed for traveling.



Mbox 2: Macro Studio, Micro Design

With superior sound quality, a full range of I/O options, the massive production power of Pro Tools LE software, and added Pro Tools Ignition Pack tools, Mbox 2 can be the foundation for a comprehensive, macro studio. At the same time, its ease of use, unique, micro design, and affordable price mean that it can provide a simple, compact, and cost-effective way to realize your creative vision.



With Mbox 2, it's easy to get started creating right away. Plug your guitar or bass directly into the DI jack (without the need for an extra preamp), your keyboard or mixer into the line jack, or your mic into the XLR jack, and you're ready to go. Onboard 48V phantom power gives you the option of using high-quality condenser mics, and independent source selection for the two analog inputs allows you to mix and match input sources—record a direct guitar track in one analog channel along with a vocal in the other. Easily accessible gain controls on the front panel let you dial in the right levels while a built-in pad button makes it simple to attenuate hot signals by 20 dB.

No matter what you have plugged into Mbox 2, zero-latency monitoring lets you hear everything you do, precisely when you do it. Adjust the Mix control on the front of the unit to quickly modify the balance between your input signal and the tracks you've already recorded. A Mono button lets you listen to a single-channel input source in the center

of the stereo field without affecting the recording. Monitor mixes through either the headphone jack or the main monitor outputs. Each monitoring option has its own dedicated volume control.

Pro Tools LE Software

The Mbox 2 system integrates high-performance hardware with powerful, easy-to-use, industry-standard Pro Tools LE software for recording, editing, and mixing. Available for both Windows XP and Mac OS X systems, Pro Tools LE software enables you to record up to 128 tracks and output up to 32 of them simultaneously—or up to 48 stereo tracks with either the DV Toolkit™ 2 or Music Production Toolkit software expansion option. Use Instrument tracks to easily integrate your favorite virtual instruments and work with up to 256 simultaneous MIDI tracks while accessing extensive MIDI editing capabilities.

Pro Tools LE software also includes the unique Beat Detective™ LE automatic groove analysis and correction tool, which lets you

not only detect the tempo of audio or MIDI files but also to extract the feel of loops. Grab the swing of a funky drum beat and apply it to any other audio or MIDI loop. Beat Detective LE can help you assemble a library of "groove templates" and use them in other songs to quickly add the right feel to your compositions.

Pro Tools is the industry-standard digital audio production platform. By choosing Mbox 2 with its included Pro Tools LE software, you'll be using the same software interface used in professional music and post production studios around the world. And because the Pro Tools session file format is a professional standard, sessions you create with Mbox 2 and Pro Tools LE software will also open on Pro Tools|HD and Pro Tools M-Powered™ systems—giving you instant compatibility with countless Pro Tools-equipped personal and professional studios.

Specifications

Analog Inputs—2

Separate source selection and gain control per channel

- Mic: XLR with 48V phantom power
- Mic preamp: >120 dB EIN @ > 50 dB gain
- Line: 1/4"
- DI: 1/4"
- Maximum Input: 8.7 V RMS (balanced), or +21 dBu

Analog Line Outputs—2

- Maximum Output: +4 dBV into 1 kOhm
- Unbalanced output connectors

Headphone Output

- Separate volume control—1/4" output
- > 6 mW into 50 ohm

Digital I/O

- S/PDIF I/O (24-bit)
- RCA jacks

Misc.

- 24-bit clean to/from the computer
- USB type B socket (v. 1.1); cable included (does not support passive USB hubs)

Dimensions

Measured with Mbox 2 in horizontal (handle-down) configuration

- Height, box: 4.9 cm; with handle: 7.7 cm; with handle cover: 5.6 cm
- Width: 22.4 cm
- Depth: 18.4 cm (includes knobs)
- Weight: 1.23 kg.

A/D

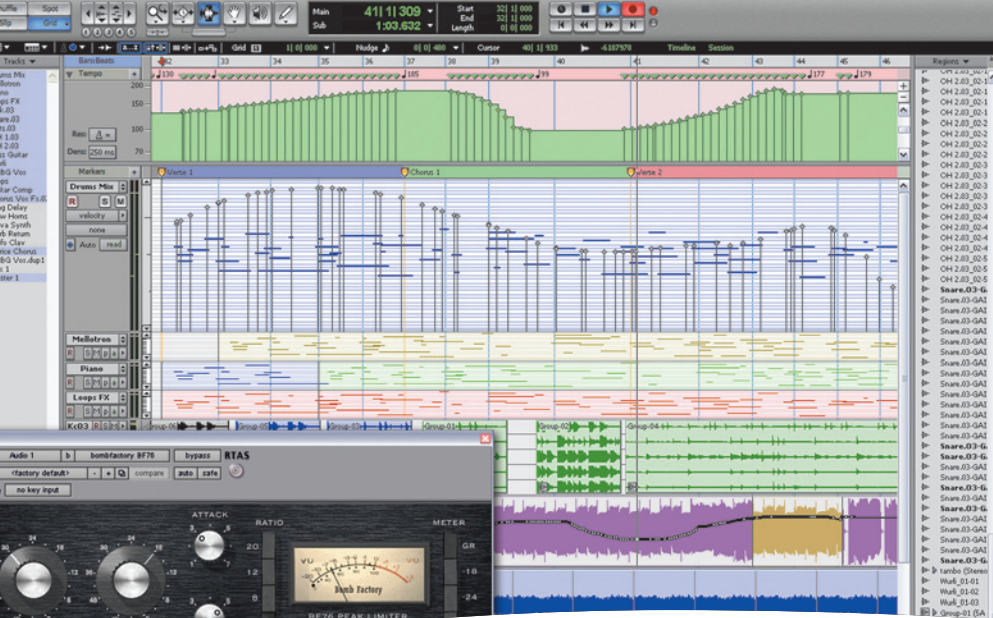
- Sample Rate: 44.1, 48 kHz
- Dynamic Range: 106 dB (A-weighted), 103 dB (unweighted)^{1,2}
- THD+N (line input): 0.00079% (-102 dB) @ 1 kHz^{1,3}
- THD+N @ 40 dB gain (mic input): 0.006% (-84 dB) @ 1 kHz¹
- Mic EIN (unweighted): -120 dB @ 40 dB gain, 150 ohm source
- Frequency Response: +0/-0.5 dB, 20 Hz - 20 kHz³
- Maximum Input: +21 dBu
- Input Impedance (pad off): Mic=3.5 kOhm; Line=10 kOhm; DI= >1 MOhm.

D/A

- Sample Rate: 44.1, 48 kHz
- Dynamic Range: 106 dB (A-weighted), 103 dB (unweighted)^{1,4}
- THD+N: 0.003% (-90.4 dB); -1 dBFS @ 1 kHz^{1,3}
- Frequency Response: +/-0.5 dB, 20 Hz - 20 kHz³

¹ Measurement made using balanced connectors
² ADC measured -60 dBFS method with minimum gain setting
³ Measured relative to level at 1 kHz
⁴ Measured with digital input at -60 dBFS @ 1 kHz





Light Your Creative Spark

In addition to Pro Tools LE software, Mbox 2 is equipped with more than 50 valuable plug-ins and applications. Included are 38 DigiRack™ plug-ins, ranging from EQ and dynamics to delays and reverb, plus 7 professional Bomb Factory® plug-ins for unique effects and emulations of legendary outdoor gear. Mbox 2 also comes with the Xpand!™ sample-playback/synthesis workstation, developed by the DigiDesign Advanced Instrument Research group. Xpand! offers more than 1,000 factory patches and 500 combinable part presets, giving you fast, efficient ways to access and manipulate high-quality sounds directly from within your Pro Tools system.

To further spark your creativity, Mbox 2 includes the Pro Tools Ignition Pack™—an impressive array of added composition and production tools that includes coveted third-party plug-ins and software applications plus the Pro Tools Method One™ instructional DVD, and a free one-year Broadjam.com membership.

If you're ready to turbocharge the power of your Mbox 2 system, pick up the Music Production Toolkit, which adds a comprehensive plug-in bundle, support for up to 48 mono or stereo audio tracks, and additional features previously available only with Pro Tools HD software. To transform your Mbox 2 into a sound-for-picture workstation, choose the DV Toolkit 2 option, which provides powerful plug-ins and features that are ideal for post production projects.

Pro Tools software is also compatible with your existing collection of loops, effects, and creative software applications. Work with REX or ACID files, or easily stream ReWire applications into Pro Tools LE for mixing and further processing. Choose from a

huge selection of additional DigiDesign and third-party RTAS® or AudioSuite™ plug-in effects and virtual instruments—many of which emulate pro studio equipment. Use your favorite VST plug-ins with Pro Tools software via FXpansion's VST-to-RTAS adapter (sold separately).

Mbox 2 Factory

If you need even more plug-in choices right out of the box, Mbox 2 Factory includes five additional DigiDesign and Bomb Factory plug-ins plus an iLok USB Smart Key (which you will need to authorize the plug-ins). Mbox 2 Factory plug-ins include:

Maxim™

A must-have, world-class peak limiting and sound level maximizing plug-in that optimizes the overall audio levels while preserving the integrity of the original sound.

Moogerfooger® Analog Delay

A warm delay meticulously based on Bob Moog's classic analog design.

JOEMEERK® VC5™ Meequalizer®

An equalizer that recreates a custom Joe Meek box that featured a treble and bass circuit with a sweepable mid control.

JOEMEERK SC2™ Photo Optical Compressor

A compressor with a unique edge, modeled after hardware units used by top producers around the globe.

Cosmonaut Voice™

An "out-of-this-world" plug-in that offers a telephone voice, interplanetary effects, distortion, squelch, and even an authentic tone culled from recently declassified Russian space footage, all through a funky-looking interface.

Pro Tools Ignition Pack

- Propellerhead Software Reason Adapted
- Ableton Live Lite DigiDesign Edition
- FXpansion BFD Lite
- IK Multimedia SampleTank 2 SE
- IK Multimedia AmpliTube LE
- IK Multimedia T-RackS EQ
- Celemony Melodyne uno essential
- Pro Tools Method One instructional DVD
- Bunker 8 REX File CD
- 1-year membership to Broadjam.com



Powered by
Pro Tools LE SOFTWARE

System Requirements

- DigiDesign-approved computer running Windows XP or Mac OS X

For the most current system requirements, compatibility information, and online support, visit www.digidesign.com/compato.



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