ZOOM | WE'RE FOR CREATORS®

LIVE SOUND + RECORDING 2018

ZOOM®

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RECORDING TOOLS FOR CREATORS

ZOOM's recording tools are the perfect complement to standalone recording, DAW software, and live performances.

From full-featured multi-track recorders to blazingly fast computer interfaces with exceptional sound, our innovative recording tools make creating music easy and fun.

We're Zoom. And We're For Creators.

CONTENTS

LiveTrak L-12 Digital Mixer + Recorder

THE BOARD THAT DOES IT ALL

The power to mix, monitor, record, and remix is now at your fingertips. 12-channel mixer. 14-track recorder. Five headphone monitor outputs, each with its own customizable mix. And our quietest preamps yet. For creators that do everything, this is the board that does it all.
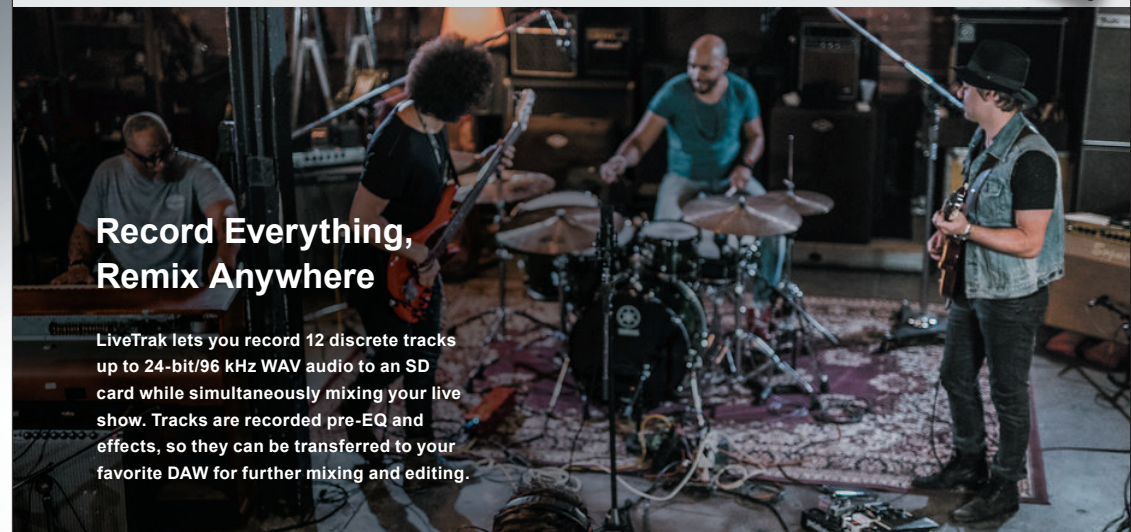
Effortless Live Mixing

LiveTrak's 12 discrete channels (eight mono plus two stereo) have a 3-band mid-parametric EQ and 16 built-in send effects. Its eight mono channels also have a dedicated compressor. With all these controls plus its 12-segment LED metering, the L-12 offers just what you need for intuitive mixing.

Record Everything, Remix Anywhere

LiveTrak lets you record 12 discrete tracks up to 24-bit/96 kHz WAV audio to an SD card while simultaneously mixing your live show. Tracks are recorded pre-EQ and effects, so they can be transferred to your favorite DAW for further mixing and editing.

Five Custom Monitoring Mixes

Each of LiveTrak's five monitor outputs provides a unique mix, so every performer can create and save a mix that's tailored to their preferences. Its headphone amplifier delivers volume that stands up in any live environment without the need for a separate headphone monitoring setup.

LiveTrak **L-12** Digital Mixer + Recorder

Let's Take a Tour

Plenty of Inputs
The L-12's combo inputs support XLR or 1/4-inch connections. Channels 1 and 2 offer Hi-Z inputs for connecting an electric guitar or bass. Channels 9/10 and 11/12 have TS line connectivity for keyboards and other audio devices, as well as RCA inputs.

Flexible Monitoring Options
Five powered headphone outputs can send individual monitor sub mixes to headphones, in-ear monitors, or powered monitor speakers. Headphone output A also features two 1/4" outputs for connection to additional monitors. The main outputs feature XLR connectors to easily connect to your PA.

Slate Mic and Metronome
Use the built-in slate mic to record comments or talk-back, and program the metronome to your desired tempo.

Easy EQ Control
The L-12 provides a smooth 3-band mid-parametric EQ and a low cut function for each input channel.

16 Onboard Effects
The L-12 offers 16 built-in effects with fully adjustable parameters. Choose from delay and reverb effects, then apply them to any channel.

The Channel Strip
All 12 inputs include a channel fader and mute button. The eight mono inputs also include single-knob compression and gain control. Record or playback individual channels with the "Rec/Play" button. Use the "Select" button to apply Channel Strip settings (EQ and panning controls, and "EFX Return" settings) to the selected channel.

Custom Scene Settings
Save up to nine different scenes and recall your custom settings automatically. Each scene saves fader position, EQ settings, pan, mute, and more. The "Fader Mode" buttons allow you to design custom mixes for both the Master and monitor outs.

Navigation and Display
LiveTrak's bright, backlit LCD screen and encoder knob let you access an intuitive menu system to create new projects, recall previous projects, and customize your recorder settings.

What's Under the Hood ?

Our Best Mic Preamps Yet
At -128 dBu EIN with +60 dB maximum input gain, LiveTrak is equipped with the quietest and most advanced preamps we've ever made. Just wait until you hear how incredible it sounds.

High-Definition Sample Rates
The L-12 supports sample rates up to 96 kHz when recording to an SD card, allowing you to record in high definition. In Audio Interface mode, the L-12 can record up to 48 kHz to a computer and an SD card simultaneously.

Convenient Auto Recording
Record automatically by adjusting the L-12's customizable audio input commands. Set it to start when the master fader detects a certain dB level, or use a guitar chord or snare hit to start the track. You can capture data up to two seconds before recording starts, in case a performance begins ahead of time.

Versatile Operation Modes
The L-12 is equipped with several operation modes. Audio Interface mode lets you route inputs and outputs to any DAW.

With USB Host mode, transfer projects and audio files to a connected USB flash drive. In Card Reader mode, the L-12 acts as an SD card reader, allowing you to transfer audio files to and from your computer.

USB Connectivity for Your DAW

LiveTrak is also a 14-in/4-out USB audio interface with flexible routing options, offering unlimited possibilities. Class compliant mode, which enables connection with iOS devices, is also supported.*

Apple Lightning to USB Camera Adapter required.

Optional Accessories

RKL-12
Rack Mount Adapter for LiveTrak L-12

FS01
Foot Switch

U-44 Handy Audio Interface

THE CENTERPIECE OF YOUR MOBILE STUDIO

The U-44 is a compact, 4-in/4-out audio interface that enables you to record and perform wherever you are. Small enough to fit in the palm of your hand, the U-44 comes equipped with the features you need to record 24-bit/96 kHz audio anywhere.

The U-44 offers the same high-quality, low-noise mic preamps as our acclaimed H5 and H6 Handy Recorders, plus compatibility with Zoom's Interchangeable Input Capsules for incredible possibilities. Use the U-44 with your PC, Mac, or iPhone/iPad via USB—or as a standalone AD/DA converter and mic preamp. No other audio interface provides this much versatility, value, and performance.

The World is Your Studio

Wherever you want to record, the bus-powered U-44 forms the perfect centerpiece of your mobile studio. Connect instruments, monitors, and other devices when you're recording at home—or hook it up to your iPhone/iPad* to make music on the go. If bus power isn't available, the U-44 can run on just two AA batteries, allowing you to record anywhere.

* Requires 2 AA batteries or optional AC adapter for power, plus an Apple iPad Camera Connection Kit or Lightning-to-USB Camera Adapter for connection to iPhone/iPad.

Can your interface do this?

Thanks to its 10-pin Zoom connector, the U-44 is compatible with all of our interchangeable input capsules (sold separately), representing a powerful field recording setup. Choose from six capsules—X/Y, Shock Mount X/Y, Mid-Side, Shotgun, Stereo Shotgun, and Dual XLR/TRS Combo Input—each with its own unique applications. Record the audience during your live performance, or connect our SSH-6 Stereo Shotgun for dialogue and sound design on your latest film project.

Pristine Recording and Playback

Inspired by our Zoom H-series recorders, the U-44 is equipped with high-performance, low-noise mic preamps that enable recording and playback at resolutions up to 24-bit/96 kHz. You can also use U-44 as a studio-quality headphone amp and listen to your favorite music in full fidelity.

It's All About Connections

The U-44 features a full array of inputs and outputs so you'll always be prepared for any recording or live performance. Two combo inputs with independent gain knobs and multi-color level indicators provide flexibility for connecting mics, keyboards, and mixers. 48V phantom power can be supplied to inputs 1 and 2, and input 1 supports Hi-Z input for connecting passive guitars, basses, or other instruments. MIDI I/O jacks enable synchronization with devices like electronic keyboards, controllers, and synthesizer or sampler modules.

Multiple output options—including 1/4", RCA, and S/PDIF—allow you to connect DJ mixers, speakers, and more. Monitoring your mixes is easy thanks to a dedicated headphone output with independent volume control. The direct monitor knob makes it possible to blend your headphone mix between the input and playback signals—perfect for live electronic music performance and DJ'ing.

Standalone AD/DA Conversion
Transfer audio with total clarity

When you're transferring audio, high-quality AD/DA conversion is critical. The U-44 functions in standalone mode as a high-quality mic preamp and AD/DA converter to ensure complete transparency when converting audio formats. You can choose between a 44.1 or 48 kHz sampling rate for conversion.

Control Your Mix

With advanced monitoring options, the U-44 lets you dial in your ideal mix. Create a balanced headphone mix between your click track and main out signals during live performances. Or balance the cue and main out signals when you're DJ'ing. The outputs of channels A and B can be muted, providing even more control. Plus, direct monitoring enables you to hear the live signal you're recording without latency—simply adjust between the input and computer playback signals to create the perfect mix.

Includes Albeton Live 9 Lite

With the U-44 and Ableton Live 9 Lite, you have everything the modern music creator needs. Record your tracks quickly and intuitively, enhancing them with studio-quality effects like EQ, compression, reverb, delay, chorus, filter, and more.

Audio Interface Holder

The AIH-1 Audio Interface Holder (sold separately) consists of a clamp and binding unit for attaching your U-series to any standard microphone stand or pole.

U-24 Handy Audio Interface

STREAMLINED MOBILE RECORDING

The U-24 is a compact, 2-in/4-out audio interface that provides all of the essential tools you need for recording and performing with high resolution, 24-bit/96 kHz audio—anywhere you go. Get incredible sound quality thanks to high-quality, low-noise preamps—the same ones found on our acclaimed H5 and H6 Handy Recorders. Connect to your PC, Mac, or iPhone/iPad via USB and record mics, instruments, and more. The U-24 delivers the same great sound as our U-44 interface, with a more streamlined feature set.

The Go-Everywhere Interface

The bus-powered U-24 packs all the essential tools into a compact form factor that fits in the palm of your hand. Record with mics, instruments, and more at home or on the go—the U-24 is iPhone/iPad* compatible and small enough to take anywhere. It can even run on just two AA batteries for recording in the most remote locations.

✳ Requires 2 AA batteries or optional AC adapter for power, plus an Apple iPad Camera Connection Kit or Lightning-to-USB Camera Adapter for connection to iPhone/iPad.

Pristine Recording and Playback

Inspired by our Zoom H-series recorders, the U-24 is equipped with high-performance, low-noise mic preamps (-119.5 dB EIN) that enable recording and playback at resolutions up to 24-bit/96 kHz. You can also use U-24 as a studio-quality headphone amp and listen to your favorite music in full fidelity.

Get Connected with the U-24

The U-24 is equipped with an essential collection of inputs and outputs for streamlined recording. Two combo inputs with independent gain knobs and multi-color level indicators allow you to connect mics, keyboards, mixers, and more. 48V phantom power can be supplied to both inputs, and input 1 supports Hi-Z for connecting guitars, basses, or other passive instruments. MIDI input and output jacks allow you to use devices like keyboards, controllers, synthesizers, and drum machines.

Separate TRS and RCA output jacks provide multiple options for connecting DJ mixers, monitors, and other gear. Finally, an independent headphone output with dedicated volume control gives you complete flexibility while monitoring.

Your Mix, Your Way

The U-24 has flexible monitoring options for dialing in the perfect mix with zero latency. Balance the cue and main out signals when you're DJ'ing, or create a mix of click track and main out signals during live performances. Each connector and knob is strategically positioned for fast access, so you can set up and control the U-24 with ease.

Includes Ableton Live 9 Lite

When you combine the U-24 with Ableton Live 9 Lite, you have everything the modern music creator needs. Record your tracks quickly and intuitively, enhancing them with studio-quality effects like EQ, compression, reverb, delay, chorus, filter, and more.

Audio Interface Holder

The AIH-1 Audio Interface Holder (sold separately) consists of a clamp and binding unit for attaching your U-series to any standard microphone stand or pole.

U-22 Handy Audio Interface

COMPACT. ACCESSIBLE. ESSENTIAL.

The U-22 is the essential mobile recording and performance interface, with an innovative 2-in/2-out ultra-portable design that makes it easy to connect to a laptop or iPhone/iPad and create great-sounding audio anywhere.
The interface features a high-performance, low-noise mic preamp so you can record vocals, instruments, and more with pristine sound quality—at resolutions up to 24-bit/96 kHz. The U-22 delivers the same excellent sound as our U-44 and U-24, with an even more compact form factor.

Innovative Handy Design
The U-22 can be bus-powered via USB and its compact form factor is perfect for use with a laptop or iPhone/iPad*. The innovative design provides quick access to connectors, knobs, and controls for effortless setup and operation.

*Requires 2 AA batteries or optional AC adapter for power, plus an Apple iPad Camera Connection Kit or Lightning-to-USB Camera Adapter for connection to iPhone/iPad.

Pristine Recording and Playback

The U-22 features a single high-performance, low-noise mic preamp—the same as our acclaimed H6 Handy Recorders—with less than -120 dBu EIN, as well as recording and playback at resolutions up to 24-bit/96 kHz. You can also use the U-22 as a studio-quality headphone amp and listen to your favorite music in full fidelity.

Get Connected
The U-22's XLR/TS combo input can be used to record with a microphone or line-level source, with 48V phantom power, and Hi-Z support for connecting a guitar or bass. The U-22 is also equipped with a mini stereo input so you can record an iPad, mixer, or other portable audio device.

*The U-22 can record one input at a time. When recording from the LINE IN jack, the XLR/TS combo input is disabled.

Power Your Live Performance

The U-22 is the perfect audio companion for musicians who incorporate digital audio processing or pre-recorded sound elements into their live performances. Connect your interface to a laptop or iPhone/iPad, pull up software effects or a looper, and send your processed signal to a mixer or the house PA via RCA stereo outputs.

Zero-Latency Monitoring
For zero-latency recording and mixing, the U-22's direct monitoring switch allows you to hear your signal before it passes through the computer. Separate RCA output jacks and an independent headphone output provide multiple options for monitoring.

Includes Albeton Live 9 Lite
With the U-22 and Ableton Live 9 Lite, you have everything the modern music creator needs. Record your tracks quickly and intuitively, enhancing them with studio-quality effects like EQ, compression, reverb, delay, chorus, filter, and more.

Audio Interface Holder
The AIH-1 Audio Interface Holder (sold separately) consists of a clamp and binding unit for attaching your U-series to any standard microphone stand or pole.

UAC-8 USB3.0 Audio Converter

CROSS-PLATFORM COMMUNICATIONS CENTRAL.

CUBASE LE

There's a whole new world of possibilities for Mac and PC creators — high-speed, high-resolution, and low-latency. Upgrade your rig with the rackmountable UAC-8, and add 18 inputs and 20 outputs to your USB 3.0-equipped Mac or Windows computer—even your iPhone/iPad.* Plug in a microphone, line-level device, or instrument and start bringing your ideas to life, or take the UAC-8 onstage to enable high-res audio playback, all the way up to 24-bit/192k.

*Optional power adapter and Apple Camera Connection kit or Lightning to USB Camera Adapter required

USB 3.0 SuperSpeed
The USB 3.0 SuperSpeed transfer protocol used by the UAC-8, with a speed of 2.0 ms roundtrip (@ 96kHz / 32 samples), is ten times faster than USB 2.0 and six times faster than FireWire 800. That not only ensures low latency, it provides a data stream that's unaffected by computer jitter (slight variations in timing), so there's no need to connect an external master clock source.

USB 3.0	5 Gbps
FireWire 800	800 Mbps
USB 2.0	480 Mbps

*USB USB3.0 cable included
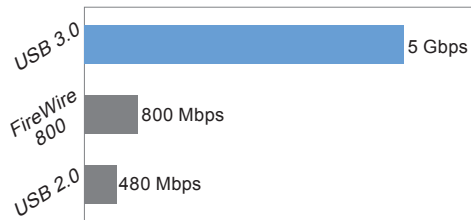
Upsampling, Standalone Mode
The UAC-8 uses high-end components such as the AKM AK5388 analog-to-digital converter and AKM AK4413 digital-to-analog converter. In addition, the UAC-8 performs 4-times upsampling during both analog-to-digital and digital-to-analog conversion. In other words, when the sampling frequency is set to 44.1kHz or 48kHz, the UAC-8 processes the signal at high-resolution 176.4kHz or 192kHz.

For A/D conversion, this means less aliasing noise; for D/A conversion, this means increased clarity and fidelity.

In standalone mode, the UAC-8 can be used as an 8-channel mic preamp and analog-to-digital or digital-to-analog converter while not connected to a computer.

Complete connectivity
The UAC-8 is an incredibly versatile interface. It works with everything from legacy USB 2.0 laptops and desktops all the way up to the latest-generation Mac or Windows USB 3.0-equipped computers. Or plug in an AC adapter and Apple Camera Connection kit or Lightning to USB Camera Adapter (sold separately) and use it with your iPhone/iPad.

The Hardware

INPUTS
The UAC-8 provides a wide variety of both analog and digital connectors. Eight front panel combo XLR/TRS inputs accept mic- and line-level signals, and you can even plug instruments directly into Inputs 1 and 2. Dedicated input gain controls and Clip LEDs make it easy to set optimum input levels, and a Phantom Power switch enables the use of condenser microphones.

OUTPUTS
The UAC-8 has dual balanced analog TRS output jacks for connection to monitors, and there are also 8 discrete balanced TRS analog line outputs for multichannel monitoring or connection to external effects devices. A large front-panel Output knob offers fast control over output level, and there are two independent ¼" stereo headphone jacks, each with its own dedicated volume control, for private monitoring.
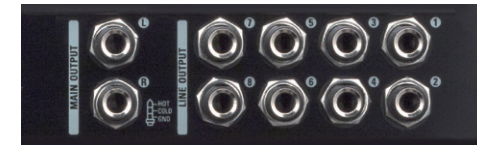
DIGITAL I/O
8 ADAT and stereo S/PDIF digital inputs/outputs allow for the connection of up to 10 external channels, and built-in Word Clock enables easy integration into any system. In addition, MIDI In and Out is provided to allow interfacing with devices such as electronic keyboards and drum machines.

Extend your capabilities with software
UAC-8 MixEfx is a free Macintosh and Windows compatible application designed specially by Zoom for the UAC-8. It provides a comprehensive onscreen mixer, with independent level, phase reversal, and panning control for each channel. UAC-8 MixEfx also allows you to freely route all inputs to all outputs and to create custom mixes. In addition, you can add effects like reverb and echo, and complete mixes can be stored in three different memory slots, allowing instant recall.
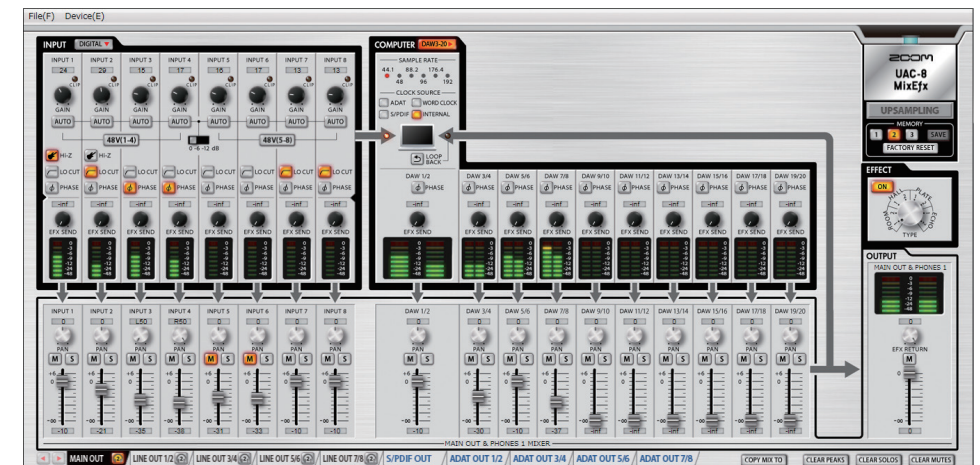
UAC-2 USB3.0 Audio Converter

HIGH-RESOLUTION, LOW-LATENCY, ULTRA-PORTABILITY.

CUBASE LE

Take your sound to new heights with the high-speed, high-resolution, low-latency, and ultra-portable UAC-2 USB 3.0 Superspeed Audio converter.
The bus-powered UAC-2 adds two channels of 24-bit/192kHz high-resolution audio to any USB 2.0 or 3.0-equipped Windows or Mac computer—even to your iPhone/iPad.* It utilizes USB 3.0 SuperSpeed technology for low latency and includes advanced features such as 4x upsampling, Loopback, and MIDI I/O. Plug in any microphone, line-level device, or instrument and use the UAC-2 for onstage playback, recording to a DAW, or enjoyment of high-res audio in your home or office.

★*Optional power adapter and Apple Camera Connection kit or Lightning to USB Camera Adapter required*

USB 3.0 SuperSpeed
The USB 3.0 SuperSpeed transfer protocol supported by the UAC-2 is ten times faster than USB 2.0 and six times faster than FireWire 800. The result? Low-latency (2.2ms roundtrip @ 96kHz / 32 samples) for improved performance from your DAW software, and a stable data stream that is unaffected by computer jitter (slight variations in timing), so there's no need to connect an external master clock source. What's more, the extra bus voltage carried by USB 3.0 (900 mA, as opposed to the 500 mA carried by USB 2.0) allows for the use of higher-end electronic components such as the advanced preamps and converters in the UAC-2.

|	
USB 3.0	5 Gbps
FireWire 800	800 Mbps
USB 2.0	480 Mbps

Upsampling
The UAC-2 uses high-end components such as the Burr Brown PCM4202 analog-to-digital converter and AKM AK4396 digital-to-analog converter. In addition, the UAC-2 performs 4-times upsampling during both analog-to-digital (A/D) and digital-to-analog (D/A) conversion. In other words, when the sampling frequency is set to 44.1kHz or 48kHz, the UAC-2 processes the signal at high resolution 176.4kHz or 192kHz.

For A/D conversion, this means less aliasing noise; for D/A conversion, this means increased clarity and fidelity.

Complete connectivity
The UAC-2 is an incredibly versatile interface. It works with everything from legacy USB 2.0 laptops and desktops all the way up to the latest-generation Mac or Windows USB 3.0-equipped computers. Or plug in an AC adapter and Apple Camera Connection kit or Lightning to USB Camera Adapter (sold separately) and use it with your iPhone/iPad.
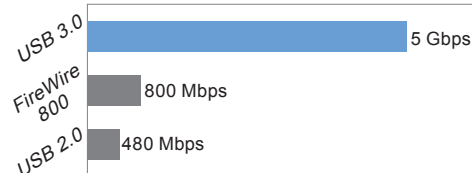
Live performance
Now you can get the best out of your laptop at every gig. The UAC-2 is portable, bus-powered (no AC connection required), and built rugged for the road, plus its advanced converters and support for USB 3.0 SuperSpeed ensures superior audio wherever your music takes you.

Webcasting, podcasting, gaming, and live-streaming
Broadcast your creativity, enhance your gaming experience, and share your performance with the world. The UAC-2's Loopback function combines the input from connected mics, instruments, and line-level devices along with background music or other audio tracks being played back by your computer and then instantly routes a custom blend of the signals to your favorite streaming software.

Recording and archiving
Pair a UAC-2 with your DAW and create great audio in any recording environment. Connect a wide variety of microphones, line-level devices, and instruments. Use Direct Monitoring for zero-latency overdubbing. Sync your MIDI controllers, sound modules, and drum machines. Archive your favorite recordings in high-resolution formats. The UAC-2 provides everything you need, in one compact device.

Desktop audio enhancement
Think your headphones and speakers already sound pretty great? Try plugging them into the UAC-2 instead of your computer's audio outputs and treat yourself to the true experience. Now you can enjoy the ultimate in streamed high-resolution audio—all the way up to 24-bit/192kHz—in full fidelity.
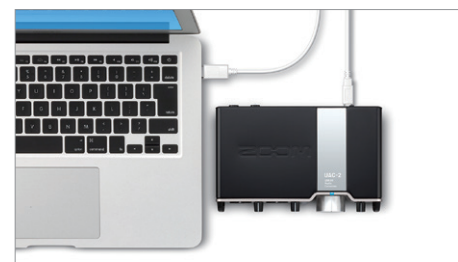
The Hardware
The USB 3.0 connector on the rear panel carries digital signal to and from your computer in addition to providing power to the UAC-2—no batteries or external power required. Dual front panel combo XLR/TRS inputs allow you to connect a wide variety of microphones as well as line-level signals from electronic keyboards and music players—even passive instruments such as electric guitars and basses. Dual-balanced TRS output jacks enable you to connect the UAC-2 to amplifiers or self-powered speakers, and there's an independent ¼" stereo headphone jack with dedicated volume control for private monitoring of the input or output signal.

Dedicated input gain controls and Clip LEDs make it easy to set optimum input levels, and a large Output knob enables fast control over overall output level. A phantom power switch applies +48 volts to the mic inputs, allowing you to use the UAC-2 with studio-quality condenser microphones, and a three-way Direct Monitoring switch enables monitoring of input signal with zero latency in both mono and stereo. MIDI In and Out connectors allow interfacing with devices such as electronic keyboards and drum machines. Last but not least, a Class Compliant Mode switch enables the UAC-2 to be connected to an iPhone/iPad.*

MIDI
The UAC-2's MIDI input and output connectors ensure rock-solid synchronization between your computer and devices such as electronic keyboards, controllers, drum machines, and synthesizer or sampler modules.

Extend your capabilities with software
UAC-2 MixEfx is a free Macintosh and Windows compatible application designed specially by Zoom for the UAC-2. With **UAC-2 MixEfx**, you can set mix parameters and add high-quality effects such as reverb and echo. Other features include a low cut filter, phase reverse, AUTO GAIN control for each input. **UAC-2 MixEfx** even has three memory slots for saving user settings with quick recall.

• Includes Steinberg Cubase LE software download

TAC-8 Thunderbolt™ Audio Converter

GET THE ABSOLUTE MOST FROM YOUR TECHNOLOGY.

CUBASE LE

Finally, an interface that allows you to fully take advantage of and experience today's most advanced technology. The TAC-8 is a rack-mountable, 8-channel Thunderbolt interface that delivers extremely high-resolution audio with near-zero latency for the modern creator. Now you can use sonic emulators, plug-ins, and DAW software at the fidelity they were designed for.

The TAC-8 makes multi-track performance and recording via computer intuitive, attainable, and of the highest quality. It's the device you and your Mac have been waiting for!

Comprehensive connectivity at Thunderbolt speed.

Thunderbolt technology opens up new doors. The TAC-8 provides 8 high-quality analog inputs, as well as up to 10 additional digital input options, at near-zero latency speeds. It gives creators of all kinds the best technology available in an easy to use interface so they can take their work to new heights.

Thunderbolt: There's no quicker way to get from here to there

More than twice as fast as USB 3.0—not to mention twenty times faster than USB 2.0 and twelve times faster than Firewire 800—Thunderbolt is the interconnection technology of the future. Co-developed by Apple and Intel Labs, it allows signal to be transferred at an incredibly fast 10 gigabits per second, which means virtually no latency. Thunderbolt interfaces such as the TAC-8 are also unaffected by computer jitter (slight variations in timing).
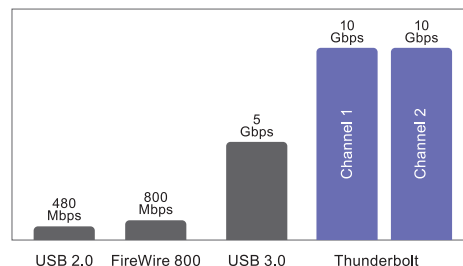
The Hardware

The TAC-8 provides a wide variety of both analog and digital connectors. Eight front panel combo XLR/TRS inputs accept mic- and line-level signals. Inputs 1 and 2 can also accept instrument-level signal from guitars and basses. Dedicated input gain controls and Clip LEDs make it easy to set optimum input levels, and the selectable multi-channel Phantom Power feature allows for the use of condenser microphones.

Dual balanced analog TRS output jacks enable you to connect the TAC-8 to amplifiers or self-powered speakers, and there are also 8 discrete balanced TRS analog line outputs for multichannel monitoring or connection to external effects devices.

A large front-panel Output knob offers fast control of main output level, and there are two independent ¼" stereo headphone jacks, each with its own dedicated volume control for private monitoring.

ADAT and S/PDIF digital inputs/outputs allow for the use of up to 10 inputs from external devices as well as 10 outputs, providing a combined total of 18 inputs and 20 outputs. Built-in Word Clock allows for syncing between devices, and MIDI In/Out allow electronic keyboards, sequencers, and drum machines to be connected to the TAC-8, with Thunderbolt speeds ensuring precise audio and MIDI sync.


In standalone mode, the TAC-8 can be used as an 8-channel mic preamp and analog-to-digital or digital-to-analog converter while not connected to a computer.

The TAC-8 performs 4-times upsampling during both analog-to-digital and digital-to-analog conversion. In other words, when the sampling frequency is set to 44.1kHz or 48kHz, the TAC-8 processes the signal at high resolution 176.4kHz or 192kHz respectively. For A/D conversion, this means less aliasing noise; for D/A conversion, this means increased clarity and fidelity.

Extend your capabilities with software

TAC-8 MixEfx is a free Macintosh application designed specially by Zoom for the TAC-8. It provides a comprehensive onscreen mixer, with independent level, phase reversal, and panning control for each channel. **TAC-8 MixEfx** also allows you to freely route all inputs to all outputs and to create custom mixes for each pair of outputs. In addition, a variety of reverb and echo effects can be used as a send/return effect. Complete mixes can then be stored in three different memory slots, allowing instant total recall.
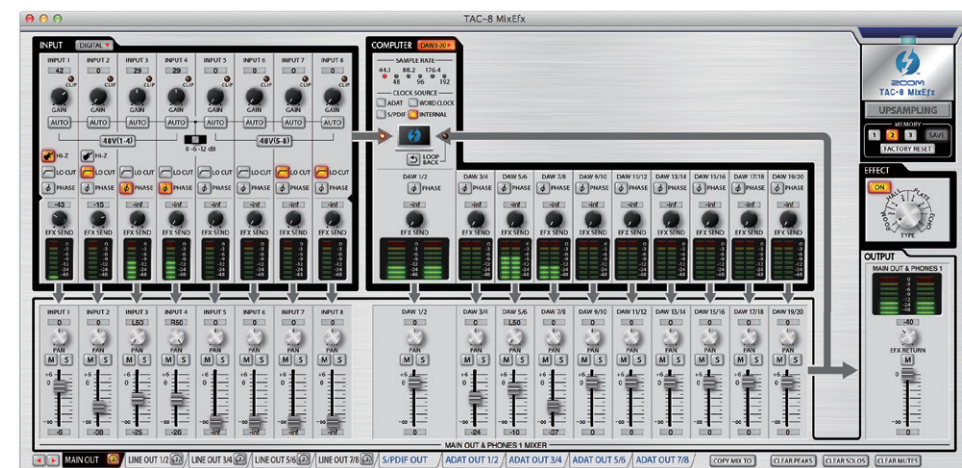
TAC-2R Thunderbolt™ Audio Converter

THUNDERBOLT™ FAST. CREATOR DRIVEN.

CUBASE LE

The compact, rugged TAC-2R audio interface uses the latest Thunderbolt technology for blazingly fast speed, near zero latency and the ultimate in high-quality audio, up to 24-bit/192kHz. With its easy-to-use design and advanced converters, the TAC-2R is perfect for studio and field recording of mics and instruments, onstage playback, and pristine audio streaming. It can even serve as an ultra-stable MIDI interface.

Thunderbolt: The ultimate in high-speed connectivity

More than twice as fast as USB 3.0—not to mention twenty times faster than USB 2.0 and twelve times faster than Firewire 800—Thunderbolt is the interconnection technology of the future. Co-developed by Apple and Intel Labs, it allows signal to be transferred at an incredibly fast 10 gigabits per second, which means virtually no latency. Thunderbolt interfaces such as the TAC-2R are also unaffected by computer jitter (slight variations in timing), so there's no need to connect an external master clock source.
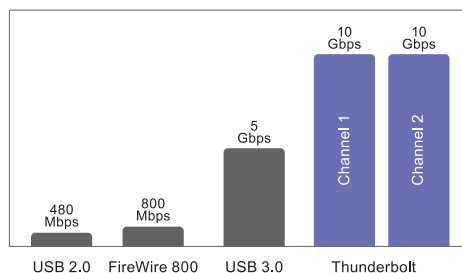
In addition, Thunderbolt carries 10 watts/18 volts of power (as compared to the 2.5 watts/ 5 volts carried by USB 2.0)—enough to provide stable phantom power. This also allows the use of high-end components such as the Burr Brown PCM4202 analog-to-digital converter and AKM AK4396 digital-to-analog converter in the TAC-2R.

The TAC-2R performs 4-times upsampling during both analog-to-digital and digital-to-analog conversion. In other words, when the sampling frequency is set to 44.1kHz or 48kHz, the TAC-2R processes the signal at high resolution 176.4kHz or 192kHz. For A/D conversion, this means less aliasing noise; for D/A conversion, this means increased clarity and fidelity.

			Channel 1	Channel 2
			10 Gbps	10 Gbps
		5 Gbps		
480 Mbps	800 Mbps			
USB 2.0	FireWire 800	USB 3.0	Thunderbolt	

⚡ THUNDERBOLT™

Thunderbolt cable included.

Onstage
Take your performance to the next level. Use the TAC-2R onstage to get the best sound quality from your laptop. With its Thunderbolt speed, high quality converters, and rugged chassis, you can trust the TAC-2R to deliver superior audio night after night.

In your home and office
Enhance the audio you enjoy everyday. Plug your headphones or speakers into the TAC-2R instead of your computer's audio outputs and enjoy streamed high-resolution audio—all the way up to 24-bit/192kHz—in full fidelity.
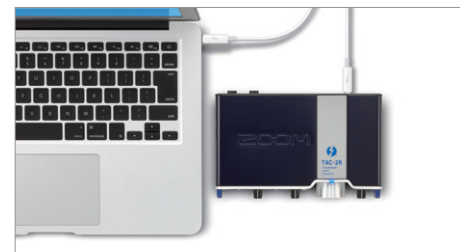
In the studio
The TAC-2R gives you all the tools you need to create great audio. Flexible routing options allow you to use a variety of microphones and instruments, with high-quality preamps to ensure crystal clear sound. There's even Direct Monitoring for zero latency overdubbing.

Make the MIDI connection
The TAC-2R serves as an ultra-stable MIDI interface too, allowing you to use your electronic keyboards and controllers as well as sound generating devices such as synthesizers and drum machines. The extreme speed and low latency of Thunderbolt ensure that your audio and MIDI tracks line up perfectly, every time.

The Ins and Outs
The Thunderbolt port on the rear panel carries digital signal to and from your computer as well as carrying power to the TAC-2R—no external power required. Dual front panel combo XLR/TRS inputs allow you to connect a wide variety of microphones as well as line-level signals from electric keyboards and music players—even passive instruments such as electric guitars and basses.

Dual balanced TRS output jacks enable you to connect the TAC-2R to amplifiers or self-powered speakers, and there's an independent 1/4" stereo headphone jack with dedicated volume control for private monitoring of the input or output signal. In addition, MIDI In and Out is provided to allow precise synchronization with devices such as electric keyboards and drum machines.

Dedicated input gain controls and Clip LEDs make it easy to set optimum input levels, and a large Output knob enables fast control overall output level. A phantom power switch applies +48 volts to the mic inputs, allowing you to use the TAC-2R with studio-quality condenser microphones, and a three-way Direct Monitoring switch enables monitoring of input signal with zero latency in both mono and stereo.

Extend your capabilities with software
TAC-2 MixEfx is a free Macintosh application designed specially by Zoom for the TAC-2R. With **TAC-2 MixEfx**, you can set mix parameters and add high-quality effects such as reverb and echo. Other features include a low cut filter, phase reverse, AUTO GAIN control for each input. There's also a LOOPBACK function that allows you to blend the input signal and playback signal for zero latency. **TAC-2 MixEfx** even has three memory slots for saving user settings with quick recall.

• Includes Steinberg Cubase LE software download

TAC-2 Thunderbolt™ Audio Converter

BLAZING SPEED. AMAZING SOUND.

CUBASE LE

In today's world, speed is everything. The blazingly fast Zoom TAC-2 interface uses the latest Thunderbolt™ technology for ultra-low latency and the ultimate in high-quality audio, up to 24-bit/192kHz. Lightweight and portable, the TAC-2 is also easy to use, with a single large rotary knob controlling all parameters.

Thunderbolt: The ultimate in high-speed connectivity

More than twice as fast as USB 3.0—not to mention twenty times faster than USB 2.0 and twelve times faster than Firewire 800—Thunderbolt is the interconnection technology of the future. Co-developed by Apple and Intel Labs, it allows signal to be transferred at an incredibly fast 10 gigabits per second, which means virtually no latency. Thunderbolt interfaces such as the TAC-2 are also unaffected by computer jitter (slight variations in timing), so there's no need to connect an external master clock source.
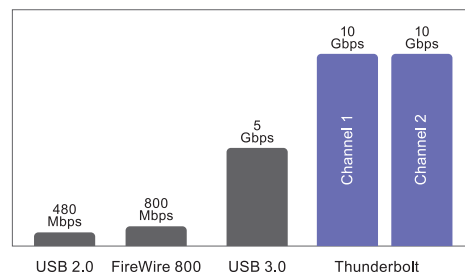
In addition, Thunderbolt carries 10 watts/18 volts of power (as compared to the 2.5 watts/ 5 volts carried by USB 2.0)—enough to provide stable phantom power. This also allows the use of high-end components such as the Burr Brown PCM4202 analog-to-digital converter and AKM AK4396 digital-to-analog converter in the TAC-2.

The TAC-2 performs 4-times upsampling during both analog-to-digital and digital-to-analog conversion. In other words, when the sampling frequency is set to 44.1kHz or 48kHz, the TAC-2 processes the signal at high resolution 176.4kHz or 192kHz. For A/D conversion this means less aliasing noise; for D/A conversion this means increased clarity and fidelity.


THUNDERBOLT™

The Ins and Outs

The Thunderbolt port on the rear panel carries digital signal to and from your computer as well as carrying power to the TAC-2. Two combo XLR/TRS inputs are provided for the connection of mic- and line-level signals, and there's a handy Hi-Z (high impedance) unbalanced input on the front panel for direct connection of passive electric guitars and basses using a standard 1/4" guitar cable. The TAC-2 also offers two balanced TRS output jacks which allow you to connect the TAC-2 to your monitors, as well as a dedicated 1/4" stereo headphone jack.

The TAC-2's single rotary control knob is used to set input, output and headphone levels and to provide +48 volts of phantom power to the selected input, allowing you to use the TAC-2 with any kind of microphone, from low-cost dynamics to expensive studio-quality condensers. Seven-position LEDs show continuous signal strength as well as input/output overload clipping.
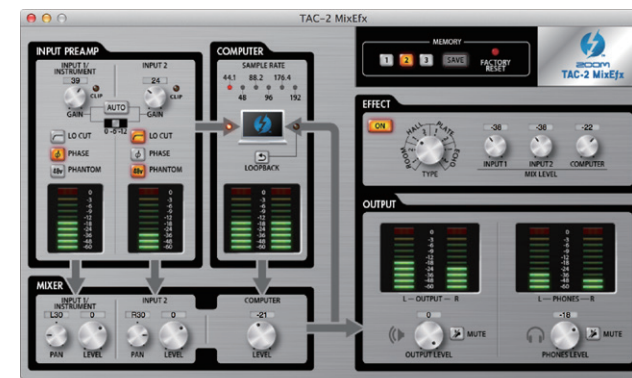
Zoom TAC-2 MixEfx

TAC-2 MixEfx is a free Macintosh application designed specially for the TAC-2. With **TAC-2 MixEfx**, you can set mix parameters and add high-quality effects such as reverb and echo. Other features include a low cut filter, phase reverse and AUTO GAIN control for each input. There's also a LOOPBACK function that allows you to blend the input signal and playback signal for zero latency. **TAC-2 MixEfx** has three memory slots for saving user settings with quick recall.

Applications

Whether in your home studio or on the road, you can rely on your TAC-2 to deliver pristine audio. Here are just a few suggestions of ways you can use it:

Recording voice and instruments into a DAW.
Enhance your music by adding your own instruments and voice. The TAC-2 makes it easy to do: Simply connect microphones and instruments to the inputs and then connect the TAC-2 to your computer's Thunderbolt port. The extremely low latency provided by Thunderbolt technology ensures that you can overdub to existing tracks with little or no audible delay.

Listening to high-resolution audio through headphones or connected speakers.
MP3s can sound good, but high resolution audio files—24/96 or 24/192 WAVs—sound way better. Now you can enjoy streamed high resolution files in full fidelity by connecting your computer to the TAC-2 via Thunderbolt and using the TAC-2 headphone jack instead of the one on your computer. Alternatively, you can use the rear panel balanced TRS outputs to connect the TAC-2 to your speakers.

Onstage playback of audio from your computer during live performance.
The TAC-2 allows you to use your laptop to deliver high quality sound onstage—simply connect it to your computer with a Thunderbolt cable and then connect the rear panel TRS outputs to your mixing board or PA system. That's all it takes to turn your laptop into a live instrument.

Routing audio signal to and from editing software.
Just connect the TAC-2 to your computer via Thunderbolt and then plug the audio source (such as a portable recorder, mixing console, smart phone, or music player) into the TAC-2's inputs. You can monitor signal coming from the software via headphones or by connecting the TAC-2 outputs to amplifiers or self-powered speakers.

• **Includes Steinberg Cubase LE software download**

The Total Music Production Solution.

The R8/R24 is a complete, compact and powerful portable music creation system with four key functions to accelerate your creativity.

RECORDER

Record live music performances, rehearsals, songwriting sessions or even audio for film and video at up to 24-bit/48kHz resolution as WAV files. If you make a mistake, use the UNDO/REDO function to cancel the last recording operation and restore the previous state. You can even mix down completed songs inside the R8/R24 and save a mix for each project.

CONTROLLER

The R8/R24 can be used as a control surface for DAW transport functions (play, record, stop) and mixing operations. You can easily move multiple faders at the same time, which is very difficult to do with a mouse! You can also assign the five function keys to various DAW software commands. Cubase, Logic, Sonar and other major DAW applications are supported in Mackie Control emulation mode.

INTERFACE

The R8/R24 can function as an audio interface, enabling direct input of sounds to a computer. Support for 24-bit/96-kHz encoding ensures high-quality sound. The internal DSP effects of the R8/R24 can also be used when the sampling rate is 44.1 kHz. A dedicated knob lets you adjust the balance between the DAW playback sound and the direct input sound when monitoring.

SAMPLER

The built-in sampler functions allow you to use audio files on any tracks as loops. Play the pads in real-time and create performance for an entire track by combining loops. Use the display of the audio waveform for visual confirmation when setting loop intervals. Use time-stretching to change the tempo of a file without changing its pitch, and trim unneeded parts of loops. The sampler and recorder can also be used together seamlessly, allowing you to also record instrument performances while playing back loops on other tracks.

Drum loops provided by Big Fish Audio
The R24 provides 1GB of drum loops from Big Fish Audio, one of the top producers of sample libraries. With an emphasis on rock, the collection of standard drum phrases can be used to create professional-sounding rhythm tracks just by lining them up.

(*The R8 provides 500MB of drum loops.)

Create your own beats with the powerful rhythm machine
The R8/R24 has a powerful drum machine with 10 types of drum kits that use linear PCM samples. With the touch sensitive drum pads, you can program your own original beats and save up to 511 of them. The rhythm patterns that you create can be used just like the audio loops. You can trigger patterns with the pads and use them in the unit's sequencer to arrange songs. The 472 preset patterns include intros, fills, endings and other phrase variations.

Built-in stereo microphones
The built-in high-sensitivity stereo microphones are convenient for recording sketches of musical phrases and melodies as they come to mind. Use these mics for clear recordings of vocals and acoustic instruments.

150 DSP effects, including guitar amp modeling
The 150 types of DSP effects can be used for recording, mixing and mastering. Insert effects are comprised of seven modules and include algorithms for guitars, basses, vocals and other sounds. One insert effect can be used simultaneously with the two types of send-return effects. 18 types of guitar amplifier models from our best-selling G2Nu and 6 types of bass amp models are included, so you can re-create a realistic amp sound simply by connecting a guitar or bass directly to the R8/R24.

Versatile inputs for guitars, mics and line sources
The balanced XLR-1/4-inch combination inputs can provide phantom power, so you can use studio-class condenser microphones to make professional-level recordings. One channel also includes a Hi-Z switch, allowing guitars, basses and other high-impedance instruments to be recorded.

Locate functions make editing easier
Set up to 100 markers and directly move to them whenever you want. Also, use the A-B repeat function to play or re-record a designated interval and use auto punch-in and punch-out for efficient editing.

•Supports SDHC cards with capacities of up to 32GB
•USB 2.0 Hi-Speed for fast file transfer
•Tuner and metronome functions
•Operates with an AC adapter, batteries or USB bus power
•Steinberg Cubase LE DAW software included

R24 ONLY

Synchronized recording of 16 tracks
Two units can be synchronized by connecting another R24 or an R16 by USB and making one unit the USB host device and the other the USB slave device. Used together, they form a recording system with up to 16 tracks of simultaneous recording and 48 tracks of simultaneous playback.
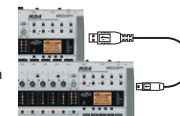
*When using an R16 as the second unit, 16 tracks of simultaneous recording and 40 tracks of simultaneous playback are possible.

USB host port for connecting USB memory
USB flash drive can be plugged into the R24's USB host port. This lets you distribute recordings to band members after a rehearsal and make backups of recordings without a computer.

Drum loops recorded by Peter Erskine
The R24 includes a USB flash drive containing 500MB of drum loops recorded by the Grammy Award winning jazz/fusion drummer, Peter Erskine. Peter has recorded a variety of grooves specifically for the R24 that will inspire your musical creativity.
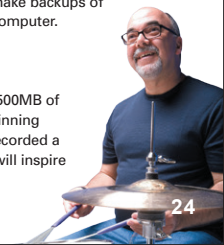
R-16 Recorder : Interface : Controller

One recorder with everything to go.

![CUBASE LE]

RECORDER	INTERFACE	CONTROLLER	SYNCHRO REC
Record 8 tracks simultaneously with 16-track playback	**Audio interface with 8-in / 2-out capability**	**Control surface for all major DAW functions**	**Sync two R16s for 16 tracks of simultaneous recording**
Capture audio in any setting, from live music performance, drums with multiple mics to music rehearsals and songwriting, even audio for film and video. The R16's simultaneous 8-track capability makes professionalism easy. Playback up to 16 tracks using its 16/24-bit linear WAV format and 44.1kHz sampling rate.	The R16 functions as an audio interface enabling direct input of sound to a computer. Support for 24-bit/96kHz encoding ensures great sound. Eight input channels and two output channels can be used simultaneously. If you use the sampling rate of 44.1kHz, the internal DSP effects are also usable on your computer tracks.	Transport and mixing operations of the DAW software can be controlled using the R16. This gives you greater control and a better feel for mixing. In Mackie Control emulation mode, major DAW applications such as Cubase, Logic, and Sonar are supported.	By connecting two R16 units via USB, you can designate one to function as a USB host and the other as a USB slave, allowing synchronized transport operation. This lets you record on up to 16 tracks simultaneously to competently handle a live performance.

Versatile inputs for guitars, mics and line sources
Its eight combination mic/line input jacks can handle mics or line-level signals. Phantom power is provided on channels 5 and 6 for use with condenser mics, and the Hi-Z switch for channel 1 accommodates a guitar or bass. The R16 is ready for any kind of input source.

Use master track for final mix
A dedicated master track lets you do the final mixdown right on the R16 without a separate master recorder. With sequence play, several projects can be mastered together and played automatically.

135 DSP effects including guitar amp simulations
The R16 comes preprogrammed with 135 types of digital effects for recording, mixing, and mastering. The insert effect has seven modules with algorithms optimized for guitar, bass and vocals. In addition, two send/return effects are also available, so that you can use up to three effects simultaneously. The R16 also comes with models of 18 different guitar amps such as Fender, Marshall, Vox and Mesa Boogie, and 6 bass amps such as Ampeg, Bassman and Hartke.

Locate function makes editing easy
Set up to 100 marker points and directly locate them whenever you want. Other convenient functions for editing include A-B repeat playback and auto punch-in/out, making it easy to re-track part of the recording.

Built-in high-sensitivity stereo microphones
When you want to quickly record anything from songwriting ideas to ambient room audio, the R16's built-in set of stereo mics will come in handy. Vocals and acoustic instruments can be captured with excellent clarity.

USB host capability for connecting USB memory
A USB flash drive can be plugged into the USB port of the R16. This lets you quickly distribute a recording to band members after a rehearsal session.

• Tuner and metronome onboard
• Includes 1GB SD card & supports up to 32GB SDHC
• Operates with an AC adapter, batteries or USB bus power
• USB 2.0 Hi-Speed mode for fast file transfer
• Steinberg Cubase LE software download

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OPTIONAL ACCESSORIES

Mic Capsules for U-44

XYH-6
X/Y Mic Capsule

XYH-5
X/Y Mic Capsule

SGH-6
Shotgun Mic Capsule

SSH-6
Stereo Shotgun Mic

MSH-6
MS Mic Capsule

EXH-6
XLR/TRS Combo Capsule
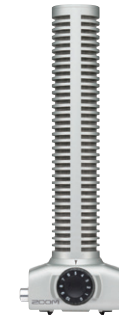
ECM-3
Extension Cable for Mic Capsule (3m)

ECM-6
Extension Cable for Mic Capsule (6m)

AIH-1
Audio Interface Holder for U series

RKL-12
Rack Mount Adapter for LiveTrak L-12

SCR-16
R16/R24 soft case

FS01
Foot Switch for L-12 / R series

AD-14
AC Adapter for R series
• DC5V/1A (Center positive)

AD-17
AC Adapter for U series
•DC5V/1A (Center positive)

AD-19
AC Adapter for UAC-8
• DC12V/2A (Center positive)