

SPECIFICATIONS

Recorder	Physical Tracks	24
	Simultaneous Recording Tracks	8
	Simultaneous Playback Tracks	24
	Recording Data Format	44.1/48kHz, 16/24bit WAV
	Maximum Recordable Time	200 minutes / GB (44.1kHz 16-bit, mono tracks)
	Projects	1,000
	Markers	100 / Project
	Locator	Hours / Min. / Sec. / msec or Bars / Beats / Ticks
	File Editing	Divide, Trim
	Other Functions	Punch-In / Out (Manual, Automatic), Bounce, Marker A-B Repeat, Undo / Redo, Metronome
Audio Interface	Input Channels	8
	Output Channels	2
	Quantization	24bit
	Sampling Frequency	44.1, 48, 88.2, 96kHz
Mixer	Faders	9
	Level Meters	4-Segment LED
	Track Parameters	3-Band Equalizer, Pan (Balance), Effect Send x 2, Invert
Effects	Stereo Links	Track pairs
	Algorithms	9 (CLEAN, DISTORTION, ACO / BASS SIM, BASS, MIC, DUAL MIC, STEREO, 8 x COMP EQ, MASTERING)
	Types	150
	Modules	7 for Insert, 2 for Send / Return
	Patches	330 for Insert, 60 for Send / Return
Sampler	Tuner	Chromatic, Guitar, Bass, Open A/D/E/G, D modal
	Playback Data Format	44.1/48kHz, 16/24bit WAV
	Voices	24
Rhythm	Editing Functions	Trim, Time-stretch
	Voices	8
	Sound Format	16-bit Linear PCM
Drum Kits	10	

Rhythm	Pads	8 (Velocity-sensitive)	
	Precision	48 PPM	
	Rhythm Patterns	511 / Project	
	Patterns	511 (472 factory, 39 blank) / Project	
	Beat	1/4 - 8/4	
Hardware	Tempo	40.0 - 250.0 BPM	
	Recording Media	SD Card (16MB - 2GB), SDHC Card (4 - 32GB)	
	A/D Conversion	96kHz 24bit delta-sigma ADC	
	D/A Conversion	96kHz 24bit delta-sigma DAC	
	Display	128 x 64 pixel LCD (with backlight)	
Inputs	Inputs	8 x XLR-1/4" Phone Combo Jack Input Impedance: (Balanced input) 1kΩ balanced, 2nd hot (Unbalanced input) 50kΩ unbalanced (Hi-Z Input) 470kΩ Input Level: -50dBm to +4dBm continuously variable	
	Built-in microphones	Omnidirectional condenser microphones Gain: -50dBm to +4dBm continuously variable	
	Phantom Power Supply	48V / 24V	
	Master Output	1/4" TRS Phone (Balanced) Output Impedance: 1kΩ Rated Output Level: +4dBm	
	Headphones Output	1/4" Stereo Phone Jack, 20mW x 2 (at 32Ω load)	
	USB	USB	B type (USB2.0 High-Speed compatible): Audio Interface / Control Surface or Mass Storage Class operation A type (USB2.0 High-Speed compatible): USB Host capability
		Power Requirements	AC adapter (DC5V/1A/center positive) or AA size (LR6) battery x6
		Battery Life	4.5 hours (with backlight on and phantom power off)
		Dimensions	376(W) x 237.1(D) x 52.2(H) mm
		Weight	1.3kg (without batteries)

*0dBm=0.775Vrms

CONNECTIONS



R24 Audio Interface System Requirements

Windows®	Intel® Mac
Windows® XP SP2 or later / Vista SP1 or later / 7	OS X 10.4.11 or later / 10.5 / 10.6
Intel® Pentium® 4 1.8GHz or better	Intel® Core Duo processor 1.83GHz or better
1GB RAM or more	1GB RAM or more
USB 2.0 compatible port	USB 2.0 compatible port

*USB hub is not supported. *Intel® Chipset is recommended.

R24 Included Accessories



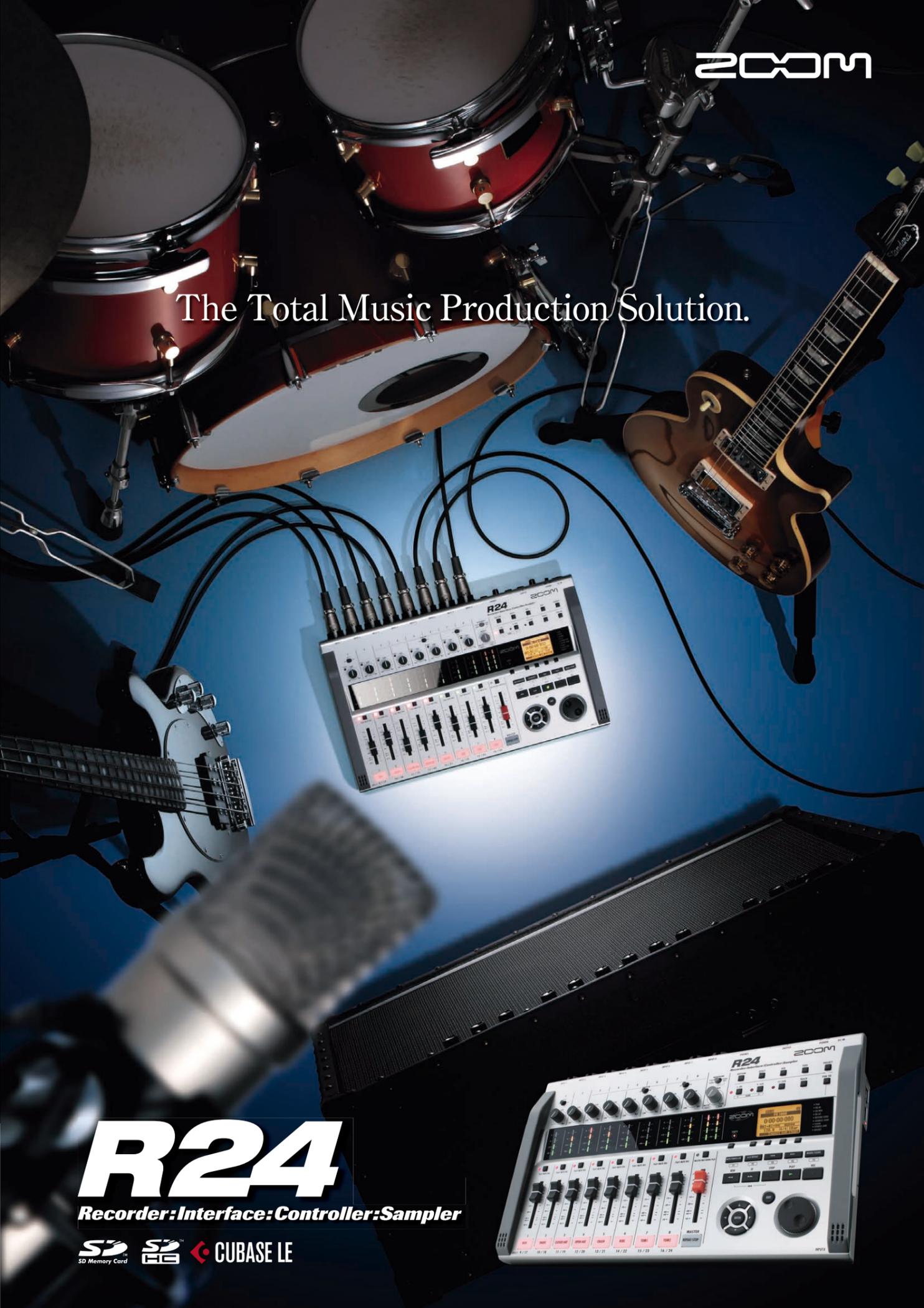
R24 Optional Accessories



Steinberg Cubase LE DAW software included

Cubase LE is a powerful music production system with recording, editing, and mixing functions for both audio and MIDI. It uses the same audio engine as the full version of Cubase, which has won multiple awards, and provides a great introduction to computer-based music production.

CUBASE LE



The Total Music Production Solution.

R24

Recorder: Interface: Controller: Sampler



The Total Music Production Solution.

The R24 is a complete, compact and powerful portable music creation system with four key functions to accelerate your creativity: a 24-track recorder, an audio interface with eight ins and two outs, a DAW control surface and a drum machine/sampler with pads and a loop sequencer.

► Recorder

Simultaneous recording of 8 tracks and playback of 24 tracks

The R24's simultaneous 8-track recording capability allows you to capture live band performances, record drum kits with multiple mics and make other recordings of multiple sound sources. Play back up to 24 tracks of 16/24-bit and 44.1/48-kHz sampling rate WAV format files. You can use the UNDO/REDO functions to cancel the last recording operation and restore the previous state. When you complete a song, you can mix it down and save a stereo mix for each project in the R24.



► Interface

Audio Interface supports 8 inputs and 2 outputs

The 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. Eight input channels and two output channels can be used simultaneously. The internal DSP effects of the 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.



► Controller

Control surface functions for most DAW software

The 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.



► Sampler

24-voice sampler with 8 pads and 3 banks

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.



Built-in stereo microphone pair

The built-in high-sensitivity stereo mic pair is handy for quickly recording phrases and melody ideas as they come to mind. Vocals and acoustic instruments can be captured with excellent clarity.



Guitar amp modeling and other DSP effects total 150 types

The DSP effects, which include 150 types and 390 patches, can be used for recording, mixing and mastering. Three types of effects—the insert effect and the two send-return effects—can all be used at the same time. You can achieve a powerful amp sound just by connecting a guitar or bass directly to the R24 and using one of the 18 types of guitar amp models or 6 types of bass amp models that have been brought straight from our best-selling G2Nu effects unit. You can also use the 8 x COMP EQ effect, which lets you apply compression and EQ to eight channels simultaneously.

Tuner and metronome functions

The R24's built-in tuner is great for quickly tuning instruments and checking the pitches of vocals. The metronome can provide a click track for a drummer during recording and is also useful during instrument practice. The metronome sound can also be sent just to the headphones. During a live performance, this allows you to play along with a backing track previously recorded on the R24.

Locate functions make editing easier

Set up to 100 markers and directly move to them whenever you want. Other convenient functions for editing include A-B repeat playback of a designated interval and auto punch-in and punch-out.

Versatile inputs for guitars, mics, and line sources

The R24 can handle a variety of input sources. The unit is equipped with 8 input jacks that accept both XLR and standard phone connectors, including 6 that can supply phantom power, allowing the use of multiple condenser microphones for serious multi-mic recording. Use the channel with a Hi-Z switch to input electric guitars, basses and other high impedance instruments.

Supports SDHC cards with capacities of up to 32 GB

The R24 utilizes compact and readily-available SD and SDHC memory cards as recording media. Unlike tape and disc recorders, this unit has no motor, making it more resistant to external vibrations and eliminating concerns about mechanical noise.



USB 2.0 Hi-Speed for fast file transfer

The R24 USB 2.0 Hi-Speed port allows WAV files recorded by the R24 to be transferred to a computer quickly and easily. Computer-based tasks, such as editing audio with DAW software, creating original CDs and importing WAV files, can be integrated into your music production.

USB host port for connecting USB memory

A USB flash drive or large-capacity external hard disk 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.



Operates with an AC adapter, batteries or USB bus power

The R24 can be powered using either the included AC adapter or six AA batteries. One set of batteries will last for about four and a half hours, providing lots of time for location recording. When using the audio interface and control surface functions, another option is to power the unit from the computer's USB bus.



R24

SD Memory Card SD CUBASE LE
Recorder:Interface:Controller:Sampler

Create your own beats with the powerful rhythm machine

The 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.



Synchronized recording of 16 tracks

The R24 synchronization system generates a clock signal based on USB data transmission timing.^{*1} 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.^{*2}



^{*1}: Synchronization precision is accurate to about 1-2 msec.
^{*2}: When using an R16 as the second unit, 16 tracks of simultaneous recording and 40 tracks of simultaneous playback are possible.



The included USB flash drive contains 500MB of drum loops recorded by the Grammy-winning jazz/fusion drummer, Peter Erskine specifically for the R24. By simply lining up drum loops, anyone can easily create professional-level rhythm tracks.

Huge 1.5GB drum loop library

We also include 1GB of drum loops provided by Big Fish Audio, a top producer of sample libraries. The focus of this library is rock, but other rhythms also include jazz, funk, country, bossa nova and hip-hop.

bigfish audio
professional sound libraries

^{*} Drum loops are provided by Big Fish Audio and Peter Erskine.

SLIM & PORTABLE DESIGN