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ZOOM R24/220EG  
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## ZOOM R24/220EG

### Specs

<b>Recorder</b> Sifra: 1443	
Kategorija proizvoda: Snimači/Rekorderi	24 (mono)
Proizvođač: ZOOM	
Track count:	
Maximum number of simultaneous recording tracks:	8
Maximum number of simultaneous playback tracks:	24 audio + metronome
Recording data format:	16 / 24-bit, 44.1 / 48 kHz WAV format
Maximum recording time:	200 minutes/1 GB (44.1 kHz 16-bit, mono tracks)
Projects:	1000
Markers:	100/project
Locator:	Hours/minutes/seconds/milliseconds and bars/beats/ticks
File editing:	Divide, trim
Other functions:	Punch-in/out (manual, auto), Bounce, A-B repeat, Undo/Redo
<b>Audio Interface</b>	
Number of recording channels:	8
Number of playback channels:	2
Quantization bit-rate:	24
Sampling frequency:	44.1, 48, 88.2, 96 kHz
<b>Mixer</b>	
Faders:	9 (mono x 8, master x 1)
Level meter display:	4-segment LED
Track parameters:	3-band equalizer, pan (balance), effect send x 2, invert
Stereo link:	Tracks 1 / 2 - 23 / 24 selectable in pairs
<b>Effects</b>	
Algorithms:	9 (CLEAN, DISTORTION, ACO/BASS, BASS, MIC, DUAL MIC, STEREO, 8xCOMP, EQ, MASTERING)
Patches:	330 insert, 60 send-return
Effect modules:	7 insert, 2 send-return
<b>Tuner</b>	
Type:	Chromatic, guitar, bass, open A/D/E/G, D modal

Cena: 55.800,00 rsd

<b>Rhythm</b>	
<b>Voices:</b>	8
<b>Sound format:</b>	16-bit linear PCM
<b>Drum kits:</b>	10
<b>Pads:</b>	8 (velocity-sensitive)
<b>Precision:</b>	48 PPQN
<b>Rhythm patterns:</b>	511/project
<b>Tempo:</b>	40.0 - 250.0 BPM
<b>Sampler</b>	
<b>Playback formats:</b>	16 / 24-bit, 44.1 / 48 kHz WAV
<b>Editing functions:</b>	Trim, Time-stretch
<b>Hardware</b>	
<b>Recording media:</b>	SD card (16MB - 2 GB), SDHC card (4 - 32 GB)
<b>Analog-digital conversion:</b>	96 kHz 24-bit delta-sigma ADC
<b>Digital-analog conversion:</b>	96 kHz 24-bit delta-sigma DAC
<b>Display:</b>	128 x 64 pixel LCD (with backlight)
<b>Inputs:</b>	Input 1-8 Type: 8 XLR/TRS combo jacks  Input impedance: (Balanced input) 1K $\Omega$ balanced (2 hot), (Unbalanced input) 50 K $\Omega$ unbalanced (1 with Hi-Z input impedance 1 M $\Omega$ (Hi-Z on), 6 with phantom power)  Phantom Power: 48V, 24V  Input level: -50 dBm < continuous < +4 dBm Built-in stereo microphones Type: Omnidirectional condenser microphones  Gain: -50 dBm < continuous < +4 dBm
<b>Outputs:</b>	Output Type: TRS phone (balanced) Phones Standard stereo phone jack 20 mW x 2 (32 $\Omega$ load)
<b>USB</b>	
<b>Mini-B type (USB 2.0):</b>	USB 2.0 Hi-Speed (operation as audio interface/control surface/ card reader/USB storage)
<b>USB Audio Interface</b>	
<b>Number of recording channels:</b>	8
<b>Number of playback channels:</b>	2
<b>Bit rate:</b>	24
<b>Sampling frequency:</b>	44.1, 48, 88.2, 96 kHz

Rhythm	
Sampler	
Hardware	
USB	
USB Audio Interface	
Power	
Other	
<b>Compatibility:</b>	<p>Windows® XP SP3 or later (32-bit)</p> <p>Windows® Vista SP1 or later (32-bit, 64-bit)</p> <p>Windows® 7 (32-bit, 64-bit)</p> <p>32-bit: Intel® Pentium® 4 1.8 GHz or faster, RAM 1 GB or more</p> <p>64-bit: Intel® Pentium® Dual Core 2.7 GHz or faster, RAM 2 GB or more</p> <p>Mac OS X 10.5.8 or later/10.6.5 or later with Intel® Core Duo 1.83 GHz or faster and RAM 1 GB or more</p> <p>USB 2.0 compatible port, Intel chipsets recommended</p>
Power	
<b>AC adapter:</b>	DC 5V 1A (Zoom AD-14)
<b>Batteries:</b>	6 AA batteries (4.5-hour continuous operation time with backlight set to 15 seconds and phantom power off)
Other	
<b>Dimensions:</b>	376 mm (W) x 237.1 mm (D) x 52.2 mm (H)
<b>Weight:</b>	1.3 kg

### Features at a glance

<p>24-track playback, 8-track simultaneous recording</p> <p>Records directly to SD and SDHC cards up to 32GB for up to 100 track hours</p> <p>Eight balanced mic/line/instrument-level inputs on XLR/TRS combo connectors</p> <p>+24 and +48V phantom power (6 channels)</p> <p>Headphone output with dedicated volume control</p> <p>More than 100 send-return and insert DSP effects, including amp/preamp models and mastering algorithms</p> <p>Independent level, pan, and EQ for each track</p> <p>Flexible overdubbing and both manual and automatic punch-in/out</p> <p>Variable playback speed from 50% to 150%, without affecting pitch</p> <p>Invert track phase function</p> <p>24-voice pad sampler (3 banks of 8 pads) with adjustable pad sensitivity</p> <p>Storage for 100 user-created rhythm patterns of up to 100 bars each</p> <p>Loop-based audio sequencer integrates recorder, rhythm machine, and pad sampler</p> <p>4-segment LED metering</p> <p>High-definition 24-bit/96kHz playback capability with DAW software</p>	<p>Built-in stereo condenser microphones</p> <p>Records mono and stereo WAV files (16 / 24-bit, 44.1 / 48kHz sampling rates)</p> <p>1 Low-Z input for connection of passive electric guitar and bass</p> <p>Dual balanced ¼" TRS output jacks</p> <p>Built-in metronome and chromatic tuner</p> <p>User editing of effects parameters, with 390 patch memories for storage</p> <p>Internal track bouncing and mixdown of multitrack to stereo</p> <p>Loop playback with waveform zoom and user-defined start/stop points</p> <p>Up to 100 marks per recording</p> <p>Trim and Divide file editing</p> <p>Rhythm machine with 160 drum and percussion sounds</p> <p>Manual play or step entry of rhythm patterns with adjustable quantization</p> <p>Backlit LCD with contrast control for easy viewing in low-light environments</p> <p>8-in/2-out USB audio interface for Macintosh/Windows computers</p> <p>Control Surface functionality (Mackie Control emulation)</p>
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Full mixing and transport controls for Cubase, Logic, Ableton Live, and other DAWs

USB bus power

Runs on 6 AA batteries, with alkaline battery life of more than 4.5 hours

Steinberg Cubase LE DAW software included

## Accessories

Operation manual

USB flash drive

AC adapter (Zoom AD-14)

Two R24s can be synchronized via USB for 48 tracks of playback and 16 tracks of simultaneous recording

SD card reader function

AC adapter included

2GB SD card

USB cable

Steinberg Cubase LE software

## Multitrack recording has never been easier

The R24 provides 24 tracks for recording and playback (up to 8 tracks can be recorded simultaneously) in full fidelity WAV format (16 or 24-bit, at 44.1 or 48 kHz sampling rates), making it ideal for both professional production and for use as a musical sketchpad. Battery operation allows for field recording and enables you to capture your musical ideas quickly. You can connect external microphones or line-level sources directly to the R24 or use the built-in stereo mic pair for minimal setup. You can also plug instruments such as electric guitar or bass right into the R24. When your multitrack recording is complete, you can use the R24's internal mixer, complete with real faders, equalization, panning, and more than 100 built-in DSP effects—including amp models and mastering effects like multi-band compression—to create a stereo mix with studio-quality sound.

## Create music any way you like

The R24 is a pad sampler and rhythm machine too. Eight velocity-sensitive pads allow the triggering of up to 24 samples, drum sounds, or loops. 400 internal loops and drum patterns are provided, along with a 2GB SD card which contains 500MB of loops and patterns from Big Fish Audio. There's also a USB flash drive included which contains an additional 500MB of drum loops recorded by Grammy Award-winning drummer Peter Erskine.

In addition, you can create your own custom samples and loops from recorded audio tracks. Quantization and time-stretching can be applied to ensure perfect synchronization. Three playback modes are available for each pad (Repeat, Gate, and 1Shot), and the onboard audio sequencer allows step entry of drum parts when absolute precision is required.

Best of all, the R24's multitrack recorder is fully integrated with the pad sampler and rhythm machine, allowing a wide variety of production styles to be accommodated. However you choose to build your productions, you'll find the R24 to be the ultimate creative tool.

## Control your DAW

If you use DAW (Digital Audio Workstation) software, you probably love mixing in the box but hate mixing with a mouse. The R24 provides the perfect solution. Mackie Control™ emulation enables it to act as a full-featured control surface for popular DAWs such as Cubase, Logic, and GarageBand, as well as providing an audio editing platform for video software packages such as Final Cut Pro, adding real faders and transport/autolocate/status buttons that streamline the process of creating the perfect mix. In addition, five assignable function keys allow you to set marker points and initiate advanced editing operations.

## Advanced features

The R24 offers eight inputs on combo connectors that can accept either XLR or ¼" balanced or unbalanced cables. All inputs can handle mic/line/instrument level signals, and Input 1 can also handle low impedance signals from passive electric guitars and basses. Phantom power of +24 or +48 volts can be applied to up to six inputs, allowing the use of external condenser microphones. There are also dual balanced ¼" TRS output jacks and a headphone output with a dedicated volume control.

Over 100 studio-quality DSP effects are provided, including insert effects such as equalization and dynamics processing as well as send-return effects such as reverb, delay, chorus, flanging, and phasing. In addition, there are guitar amp, bass amp, and mic preamp models, as well as effects specially designed for use on

vocals and stereo instruments such as electronic keyboards, plus mastering algorithms such as multi-band compression. Effects can be applied during recording and mixdown, or can be used for playback only.

A USB port allows the R24 to send and receive digital data and to act as an 8-input/2-output interface for DAWs such as the included Cubase LE. When operating at a sampling frequency of 44.1kHz, input signal can be routed through the R24's onboard DSP effects. You can even synchronize two R24s (or an R24 and an R16) via USB for 16 tracks of simultaneous recording and 48 (or 40) tracks of playback.

Just 6 AA batteries—either alkaline or rechargeable NiMH—are required for power. Battery life when using alkaline batteries is more than 4.5 hours, even during continuous recording. Alternatively, you can use the included AD-14 AC adapter, which allows you to power the R24 from any standard wall socket. The R24 can also be powered via USB when connected to a computer.

The R24 records directly to SD cards, with support for both standard SD and SDHC cards up to 32 gigabytes, for a maximum of 100 track hours. Using SD media for recording ensures increased reliability and means that you never have to be concerned about hard drive failure.

State of the art editing with every multi-track recorder

The Zoom R24 comes with a free download license for Steinberg's Cubase LE music production software, providing not just the ability to capture incredible audio in every box, but to do spectacular things with them.

Take your recordings to a more professional level. Steinberg's powerful and state-of-the-art audio software used by creators around the world now comes with every Zoom R24, R16, and R8 purchase.

Currently shipping with:

Cubase LE7 for Mac OS X 10.7, 10.8, 10.9 and Windows 7/8