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ZOOM R16

Specs

Recorder	
Model: R16	
Track count:	16 (mono)
Proizvođač: ZOOM	
Maximum number of	
Cena: 44.280,00 rsd	8
simultaneous recording tracks:	
Maximum number of simultaneous playback tracks:	16 audio + metronome
Recording format:	44.1 kHz, 16/24-bit WAV format
Maximum recording time:	200 minutes/1 GB (mono tracks)
Projects:	1000
Markers:	100/project
Locator:	Hours/minutes/seconds/milliseconds and bars/beats/ticks
File editing:	Divide
Track parameters:	3-band equalizer, pan (balance), effect send x2, invert
Stereo link:	Tracks 1 / 2 - 15 / 16 selectable
Other functions:	Punch-in/out (manual, auto), Bounce, A-B repeat, Undo/Redo
Effects	
Algorithms:	8 (CLEAN, DISTORTION, ACO/BASS SIM, BASS, MIC, DUAL MIC, STEREO, MASTERING)
Patches:	330 insert, 60 send-return
Effects modules:	7 insert, 2 send
Tuner	
Type:	Chromatic, guitar, bass, open A/D/E/G, D modal
Metronome	
Tones:	5
Beat:	No accent, 1 / 4 - 8 / 4, 6 / 8
Tempo:	40.0 - 250.0 BPM
Hardware	
Mixer faders:	9 (mono x 8, master x 1)
Pads:	8 (velocity-sensitive)
Recording media:	SD card (16MB - 2 GB), SDHC card (4 - 32 GB)

Recorder	
Effects	
Tuner	
Metronome	
Hardware	
USB	
USB audio interface	
Power	
Other	
Analog-digital conversion:	96 kHz 24-bit delta-sigma ADC
Digital-analog conversion:	96 kHz 24-bit delta-sigma DAC
Display:	20-digit 2-line custom LCD (with backlight)
Level meters:	4-segment LED
Inputs:	Input 1-8 Type: XLR/TRS combo jacks Input impedance: (Balanced input) 1K Ω balanced (2 hot), (Unbalanced input) 50 K Ω unbalanced (1 with Hi-Z input impedance 470 K Ω (Hi-Z on), 5 / 6 with phantom power) Phantom Power: +48V Input level: -50 dBm < continuous < +4 dBm Built-in stereo microphones Type: Omnidirectional condenser microphones Gain: -50 dBm < continuous < +4 dBm
Outputs:	Output Type: TRS phone (balanced) Phones Standard stereo phone jack 20 mW x 2 (32 Ω load)
USB	
Mini-B type (USB 2.0):	Operation as audio interface/ control surface and mass storage
USB audio interface	
Number of recording channels:	8
Number of playback channels:	2
Bit rate:	24
Sampling frequency:	44.1, 48, 88.2, 96 kHz

Recorder	
Effects	
Tuner	
Metronome	
Hardware	
USB	
USB audio interface	
Power	
Other	
USB	
USB audio interface	
Power	
Other	
Compatibility:	<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	
AC adapter:	DC 5V 1A (Zoom AD-14)
Batteries:	6 AA batteries (4.5-hour continuous operation time with backlight on and phantom power off)
Other	
Dimensions:	376 mm (W) × 237.1 mm (D) × 52.2 mm (H)
Weight:	1.3 kg

Features at a glance

16-track playback, 8-track simultaneous recording Records directly to SD and SDHC cards up to 32GB for up to 100 track hours	Built-in stereo condenser microphones
Eight mic/line level inputs on XLR/TRS combo connectors +48V phantom power Headphone output with dedicated volume control 135 send-return and insert DSP effects, including amp/preamp models and mastering algorithms	Records 16/24-bit, 44.1kHz mono and stereo WAV files Input 1 can also be used for Hi-Z instrument-level signals such as electric guitar or bass Dual balanced ¼" TRS output jacks Built-in metronome and chromatic tuner User editing of effects parameters, with 390 patch memories for storage Internal track bouncing and mixdown of multitrack to stereo
Independent level, pan and EQ for each track Flexible overdubbing and both manual and automatic punch-in/out Up to 100 marks per recording Divide file editing	Loop A/B playback with user-defined start/stop points Invert track phase function Backlit LCD with contrast control for easy viewing in low-light environments

8-in/2-out USB audio interface for
Macintosh/Windows computers

Control Surface functionality (Mackie Control emulation)

Two R16s can be synchronized via USB for 32 tracks of
playback and 16 tracks of simultaneous recording

SD card reader function

AC adapter included

Accessories

Here's what comes included with the R16:

Operation manual

AC adapter (Zoom AD-14)

Steinberg Cubase LE software

High-definition 24-bit/96kHz playback capability with
DAW software

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

2GB SD card

USB cable

Multitrack recording has never been easier

The R16 provides sixteen tracks for recording and playback (up to eight tracks can be recorded simultaneously) in full fidelity WAV format, 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 R16, 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 R16. When your multitrack recording is complete, you can use the R16's internal mixer, complete with real faders, equalization, panning, and 135 built-in DSP effects—including amp models and mastering effects like multi-band compression—to create a stereo mix with studio-quality sound.

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 R16 provides the perfect solution. Its Mackie Control™ emulation enables the R16 to act as a full-featured control surface for popular DAWs such as Cubase, Logic, and GarageBand, adding real faders and transport/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 R16 offers eight inputs on combo connectors which can accept either XLR or ¼" balanced or unbalanced cables. All can handle mic- and line-level signals, and Input 1 can also handle instrument-level signals from passive or active electric guitars and basses. Phantom power of +48 volts can be applied to Inputs 5 and 6, allowing the use of external condenser microphones. There are dual balanced ¼" TRS output jacks and a headphone output with a dedicated volume control.

135 studio-quality DSP effects are provided, including insert effects such as equalization/dynamics processing and 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. The R16's USB port allows it to send and receive digital data and to act as an 8-input/2-output interface for DAWs such as the included Cubase LE. All level meters and the onboard chromatic tuner remain fully operational when using the R16 as an interface, and when operating at a sampling frequency of 44.1kHz, input signal can be routed through the R16's onboard DSP effects. You can even synchronize two R16s via USB for 32 tracks of playback and 16 tracks of simultaneous recording. 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 R16 from any standard wall socket. The R16 can also be powered via USB when connected to a computer.

State of the art editing with every multi-track recorder

The Zoom R16 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

The R16 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.