DR-07X

Stereo Handheld Audio Recorder and USB Audio Interface

Record Clean and Clear Audio Everywhere

The Tascam DR-07X is a handheld digital recorder and USB audio interface building on the popular, powerful Tascam DR-07. Ideal for music recording, sound design and more, the DR-07X offers immense power and performance in a compact package. A pair of cardioid condenser microphones handles high sound pressure levels and can be set up in AB or XY orientation for a wide stereo field or extra-clear reproduction with reduced phase displacement between both channels. Users can also use their own microphone or line-level source through the mini-jack stereo input which includes plug-in power for microphones that need it. And with increased capacity for microSDXC cards up to 128 GB, the DR-07X can literally record for days on end.

Simple to Operate

The DR-07X has a simple multilingual user interface, making it easy to access recording, adjusting levels, deleting takes, adding markers, and other common functions with just the click of a thumb. Menus are available in English, Spanish, Portuguese, French, Italian, German, Russian, Chinese, Korean, Japanese. Three different auto level modes (Limiter, Peak Reduction, Auto Level) can help to prevent accidental distortion while recording. Users may apply one out of six reverb effects to the input or output signal, and an Overdub feature allows voices or instruments to be added to existing audio files. There is also a Level Align function that allows to smooth out any sudden volume jumps during playback, and a built-in speaker is provided for quick check-back. Other features like variable speed audition, low-cut filtering, chromatic tuner and more can be chosen from the menu.

Transcript Your Voice Recordings

The new Dictation Mode enables the user to jump back and forth in preselected increments while playing back a file. It can be combined with speed control and a special dictation EQ making it useful for transcribing minutes recordings, for example. The new tape-style Overwrite mode with one level of undo allows users to select a drop-in time and replace part of an existing recording.

Turn Your Room Into a Studio – In a Minute

Apart from handheld recording, the DR-07X can also be used as a USB audio interface with two inputs and outputs, making it a strong yet easy gear for voiceover work, live streaming, podcasting and songwriting with studio-quality audio.

Videos

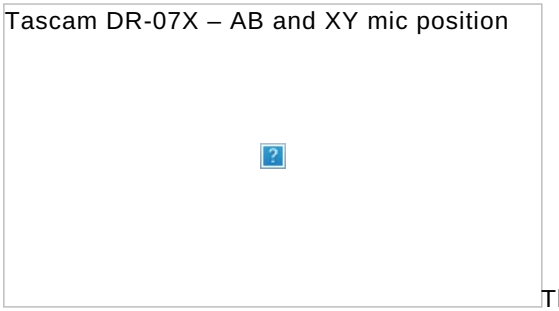
An overview of the DR-X series

How to use a Tascam DR-X as USB microphone for Zoom

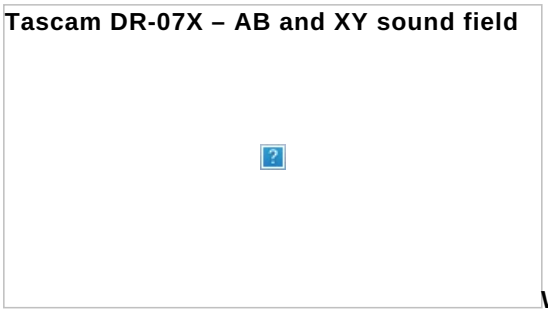
How to record using the Auto Timer

Details

Adjustable Microphones for Preferred Stereo Image.



The DR-07X is equipped with adjustable unidirectional microphones that can be used for recording in both the AB position and XY position. Advanced microphone placing allows for a wide stereo sound recording or a clear stereo sound recording with less phase difference, making it possible to achieve professional quality results.



What is A-B and X-Y stereo?

For example, even if you want to record an acoustic guitar duo one day and a large choir or band concert on the other day, you can change the mic orientation and set it for more suitable stereo capturing. AB orientation captures a wider horizon with the image sounding farther away. On the other hand, XY can prevent missing parts of the signal in the centre of the stereo image, the so-called sweet spot. This is why XY orientation delivers a tighter image.

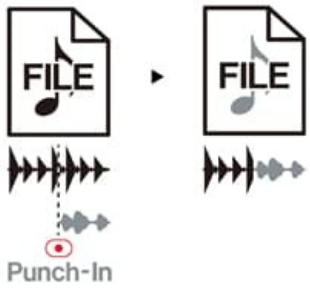
Never Miss the Beginning.

The auto-recording function can detect the signal level of the input sound to start recording automatically. And the pre-recording function provides fail-safe protection by actually capturing the audio up to two seconds before you press the Record button.

Still Safe If It's Louder Than You Thought.

Peak Reduction works in rehearsal mode or in record. So even if the sound or performance is louder than the soundcheck you're safe. Combined with Auto Level and Limiter for preventing distortion, you never have to worry about sudden level changes.

No Need to Go Through "Take 2" All Over Again.



If you don’t like the last part of a phrase you just recorded with your guitar, or if you change your mind and want to rephrase narration, the “Overwrite mode” is exactly what you need. It allows punch-in recording from a desired point. This means destructive editing with one level of undo.

Nondestructive Overdubbing.

The overdubbing function makes it possible to record while playing a previously recorded file. This allows you to record other parts such as a guitar solo over a backing track made such as at a rehearsal studio. Overdubbing creates a new file, leaving the original file unaffected, thus making it easy to re-record.

192 Hours of CD-Quality With a Single Memory Card.

The DR-07X supports SDXC cards as recording media, which are available with very large data capacities. If you record one stereo file in 44.1-kHz / 16-bit CD quality, it can be as long as 192 hours. In MP3 format at 320 kBit/s, such a card can hold up to 896 hours (that is 37 days!).

Comparison chart for DR-X series recorders

	DR-05X	DR-07X	DR-40X
Mic type / polar pattern	Electret condenser / Omni-directional	Electret condenser / Uni-directional	Electret condenser / Uni-directional
Mic configurations	AB (fixed)	AB/XY (swivelling)	AB/XY (swivelling)
Mid-side mic support	no	no	yes
Audio tracks	2	2	4
Recording resolution	WAV or MP3, up to 96 kHz / 24 bit	WAV or MP3, up to 96 kHz / 24 bit	WAV or MP3, up to 96 kHz / 24 bit
MP3 bit rates	32–320 kbit/s at 44.1/48 kHz	32–320 kbit/s at 44.1/48 kHz	32–320 kbit/s at 44.1/48 kHz
Recording media	microSD up to 128 GB	microSD up to 128 GB	SD up to 128 GB
Power supply	2 × AA, USB, PS-P520E (optional)	2 × AA, USB, PS-P520E (optional)	3 × AA, USB, PS-P520E (optional)
Battery life	17+ hours	17+ hours	up to 18 hours
Mic/line input	Stereo 3.5-mm mini jack with plug-in power	Stereo 3.5-mm mini jack with plug-in power	Balanced XLR/jack combo with 48 V phantom power
Built-in speaker	yes	yes	yes
Phones/line output	Stereo 3.5-mm mini jack	Stereo 3.5-mm mini jack	Stereo 3.5-mm mini jack

Remote control	no	no	RC-3F / RC-10
Low-cut filter	40/80/120 Hz	40/80/120 Hz	40/80/120/220 Hz
Frequency response	20 Hz – 40 kHz +1/−3 dB	20 Hz – 40 kHz +1/−3 dB	20 Hz – 40 kHz +1/−3 dB
Distortion (THD)	≤0.05 %	≤0.05 %	≤0.05 %
S/N ratio	≥92 dB	≥92 dB	≥92 dB
Dual recording	no	no	dual-level
4-track recording	no	no	internal mics + stereo line
Non-destructive overdubs	yes	yes	yes
Dictation mode	yes	yes	yes
Auto-level control	Peak Reduction, Auto Level, Limiter	Peak Reduction, Auto Level, Limiter	Peak Reduction, Auto Level, Limiter
Auto recording by input level	yes	yes	yes
Pre-recording buffer	2 seconds	2 seconds	2 seconds
Self-timer	yes	yes	yes
Mark function	yes	yes	yes
Variable speed audition	yes	yes	yes
Playlist function	yes	yes	yes
Playback EQ	yes	yes	yes
Auto level align on playback	yes	yes	yes
Reverb effect	yes	yes	yes
Chromatic tuner	yes	yes	yes
Multilingual menu	yes	yes	yes
USB audio interface mode	yes	yes	yes
Dimensions (W × H × D)	61 mm × 141 mm × 26 mm	68 mm × 158 mm × 26 mm	70 mm × 155 mm × 35 mm
Weight with batteries	165 g	171 g	282 g

Features at a glance

- High-quality handheld stereo recording
- Small size and easy operation
- Micro SD/SDHC/SDXC cards can be used as recording media (up to 128 GB)
- Supported audio formats:
  - Linear PCM (WAV format) at 44.1 kHz / 16 bit (CD quality) or 44.1 kHz / 24 bit
  - Linear PCM (WAV format), 48 kHz / 24 bit
  - Linear PCM (WAV format), 96 kHz / 24 bit
  - Compressed (MP3 format): 32–320 kbit/s at 44.1/48 kHz (VBR files can be played but not recorded)
- Can be used as a USB audio interface with Mac and Windows computers (two inputs, two outputs)

Recording

- Built-in cardioid stereo condenser microphone
  - Proven high sound pressure design for capturing sounds of up to 125 dB SPL, making it ideal for loud band recordings
  - Easy setup (AB and XY configuration supported)
  - XY configuration allows mono compatible recordings and high sound localization acuity (lively interviews or field recordings with ambience)
  - Good directivity and channel separation
  - Ideal for live music and field recording, news gathering etc.
- Switchable filter to minimize unwanted low-frequency noise (40 Hz, 80 Hz, 120 Hz)
- Manual recording level setting for music and field recording
- Three options of automatic level control during recording: Peak Reduction, Auto Level, Limiter
- Auto-recording function to automatically start recording based on input level
- Marks can be added automatically when using the automatic recording function
- Overwrite function for punch-in recording with one level of Undo
- Overdub function for non-destructive overdubbing
- Dictation mode designed for human voice recording and transcription
- Pre-recording buffer (2 seconds) allows a recording to start before the record key is pressed
- Self-timer allows a recording to start 5 or 10 seconds after pressing the RECORD button
- A new file can be created manually during recording or automatically when a certain file size is reached

- Set marks to quickly locate certain audio positions (up to 99 per file)
- Automatic tone generator convenient when editing with video on other equipment
- Stereo mic/line input with plug-in power to connect an external source or microphone
- File name format can be set to use a predefined word or the date

Playback

- Automatic level align prevents uneven playback levels
- Variable speed audition to change the playback tempo without affecting the key (50–200 %)
- Repeat/loop function (repeat one track, all tracks or a marked section, convenient for practicing music and studying languages
- Playlist feature to play files in a certain order
- Resume function retains the last stop position and starts playback from that position when power is turned back on
- Jump back function to instantly review playback (1–10, 20, 30 seconds)
- Equalizer for tone control during playback
- MP3 ID3 tag display (up to version 2.4)
- Built-in loudspeaker
- Headphones/Line output

Other features

- Built-in reverb effect (6 presets, can be applied to input or output signal)
- Chromatic tuner function to tune your instrument
- QUICK menu button for easy access to various functions
- File divide function to cut unwanted noise or to extract parts from long recordings
- Folder management to organize your files
- Hold function to avoid inadvertent operation
- Menu language can be selected between English, German, French, Italian, Spanish, Portuguese, Russian, Korean, Japanese, Chinese
- Clear, backlit LC display
- USB 2.0 port for file transfer to/from computer

- Power supply by 2 AA size Alkaline or NiMH batteries, USB bus power or optional AC adapter (Tascam PS-P520U)
- Stand adapter (¼ inch) on bottom side to attach the unit to a tripod or microphone stand

Supported Operating Systems

Windows

- Windows 11 (version 24H2)
- Windows 11 (version 23H2)
- Windows 11 (version 22H2)
- Windows 11 (version 22H1)
- Windows 10 (version 22H2)
- Windows 10 (version 21H2)
- Windows 10 (version 21H1)
- Windows 8.1
- Windows 7

Mac

- macOS Tahoe (26)
- macOS Sequoia (15)
- macOS Sonoma (14.0)
- macOS Ventura (13.0)
- macOS Monterey (12.0)
- macOS Big Sur (11.0)
- macOS Catalina (10.15)
- macOS Mojave (10.14)
- macOS High Sierra (10.13)
- macOS Sierra (10.12)

iOS

- iOS 18 / iPadOS 18
- iOS 17 / iPadOS 17
- iOS 16 / iPadOS 16
- iOS 15 / iPadOS 15
- iOS 14 / iPadOS 14
- iOS 13 / iPadOS 13
- iOS 12
- iOS 11

Options

WS-11: Windscreen for Portable Audio Recorders

AK-DR11: Accessory Pack for DR Series Audio Recorders

TM-10L: Lavalier Microphone With Screw-Lock Connector

PS-P520U: 5-Volt AC Adapter

BP-6AA: Battery pack

Related products

DR-05X: Stereo Handheld Audio Recorder and USB Audio Interface

DR-40X: Portable Four-Track Digital Audio Recorder and USB Audio Interface

Portacapture X6: High-Resolution Multi-Track Handheld Recorder

Specifications

General

Recording media	microSD card (64 MB – 2 GB) microSDHC card (4–32 GB) microSDXC card (48–128 GB)
Recording/playback formats	WAV: 44.1/48/96 kHz, 16/24 bit MP3: 44.1/48 kHz, 32/64/96/128/192/256/320 kbit/s
Number of channels	2 channels (stereo)
Compatible computers	Windows computer with a USB port (2.0 or higher) Mac (Intel and Apple Silicon M1 or M2 hardware) with a USB port (2.0 or higher)

Inputs and outputs

External Mic input (can provide plug-in power)	3.5-mm stereo mini jack
Headphones / Line output	3.5-mm stereo mini jack
Built-in loudspeaker	0.3 W (mono)

Control input/output

USB port	Micro-B connector
Format	USB 2.0 High Speed
Features	Mass Storage Class Audio Interface (44.1 kHz, 48 kHz)

Audio performance

Frequency response	20 Hz – 20 kHz +0/−1 dB (MIC/EXT IN to LINE OUT, Fs 44.1 kHz, JEITA) 20 Hz – 22 kHz +0/−1 dB (MIC/EXT IN to LINE OUT, Fs 48 kHz, JEITA) 20 Hz – 40 kHz +0/−1.5 dB (MIC/EXT IN to LINE OUT, Fs 96 kHz, JEITA)
Total harmonic distortion	≤0.01 % (MIC/EXT IN to LINE OUT, Fs 44.1/48/96 kHz, JEITA)
S/N ratio	≥94 dB (MIC/EXT IN to LINE OUT, Fs 44.1/48/96 kHz, JEITA)

Note: JEITA indicates compliance with JEITA CP-2150

Approximate battery operation time (continuous operation)

Alkaline batteries (Evolta)	
WAV, 96 kHz, 24 bit	15:30 (recording with built-in mics)
WAV, 44,1 kHz, 16 bit	17:30 (recording with built-in mics)
MP3, 44,1 kHz, 128 kbit/s	16:30 (recording with built-in mics)
MP3, 48 kHz, 320 kbit/s	11:00 (recording with built-in mics)
WAV, 96 kHz, 24 bit	14:00 (playback using headphones or built-in speaker)
WAV, 44,1 kHz, 16 bit	16:30 (playback using headphones or built-in speaker)
MP3, 44,1 kHz, 128 kbit/s	16:30 (playback using headphones or built-in speaker)
MP3, 48 kHz, 320 kbit/s	15:30 (playback using headphones or built-in speaker)
NiMH rechargeable batteries (Eneloop)	
WAV, 96 kHz, 24 bit	12:30 (recording with built-in mics)
WAV, 44,1 kHz, 16 bit	14:30 (recording with built-in mics)
MP3, 44,1 kHz, 128 kbit/s	13:00 (recording with built-in mics)
MP3, 48 kHz, 320 kbit/s	10:00 (recording with built-in mics)
WAV, 96 kHz, 24 bit	13:00 (playback using headphones) 12:00 (playback using built-in speaker)
WAV, 44,1 kHz, 16 bit	14:00 (playback using headphones) 15:00 (playback using built-in speaker)

MP3, 44,1 kHz, 128 kbit/s	13:30 (playback using headphones) 13:00 (playback using built-in speaker)
MP3, 48 kHz, 320 kbit/s	13:30 (playback using headphones) 13:00 (playback using built-in speaker)

Power supply and other specifications

Power requirements	2 AA batteries (alkaline or NiMH) USB bus power from a computer AC adapter (Tascam PS-P520U, sold separately)
Power consumption	1.7 W (maximum)
Dimensions (W × H × D)	68 mm × 158 mm × 26 mm (mics folded in) 90 mm × 158 mm × 26 mm (mics folded out)
Weight	127 g (without batteries) 171 g (with batteries)
Permissible operating temperature range	0–40 °C

Design and specifications subject to change without notice.
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