

# DR-44WL

## 4-track handheld recorder with Wi-Fi functionality



Multi-lingual menu: EN, DE, FR, IT, ES, RU, RC, JP

The DR-44WL revolutionises handheld recorders with its new Wi-Fi feature. A free app for iOS or Android devices provides control, file transfer, and audio streaming to your smartphone or tablet computer. Start recording while on stage or from anywhere in the room. Set trim levels, check meters and control the transport. At the end of a performance, transfer recordings to your smartphone and instantly upload them to SoundCloud or Facebook, or even e-mail directly to fans.



The DR-44WL has a pair of high-quality stereo condenser microphones built from high-performance components and arranged in XY pattern. These mics can handle high sound pressure levels without distortion. Two locking XLR inputs for external mics or sources are also available.

With four independent recording tracks, built-in mixer with reverb effect plus a bounce feature, the DR-44WL offers the ability to create true multitrack recordings. Or record two tracks in different formats (WAV/MP3) or with different level settings.

# Details

## Remote Wi-Fi operation eliminates handling noise



TASCAM has once again revolutionized handheld recording! The DR-44WL creates its own Wi-Fi network, and a free dedicated app can be used for remote operation without touching the unit. Since the Wi-Fi transmission range is about 20 metres, this feature can be used with the recorder in places that are normally out of reach. Not only does the app allow recording to be started and stopped, it can also be used to check and adjust input levels from an iOS or Android device. Everything related to recording can be done by Wi-Fi.

In addition, audio can be checked by Wi-Fi after recording. The audio quality can be checked through headphones connected to a smartphone. With operation capabilities and flexibility that exceeds infrared remotes – and reliability that approaches that of wired remotes – this handheld recorder allows freedom of placement that far surpasses that of previous models.

Starting with firmware version 2.0 it is also possible to connect via an existing router or access point. Advantages are that (1) you can use other web services like e-mail or sharing portals at the same time with your mobile device, and (2) Wi-Fi range thus control range might be larger, depending on the router capabilities. A direct connection, in contrast, is ideal when there is no Wi-Fi available or you don't have permission to use it.

Note: Checking audio via Wi-Fi is intended for use after recording.

- Choose which type of Wi-Fi connection to use: Simple direct connection (no router necessary) or connection via an existing Wi-Fi network (local router or access point)
- Remote control using the free **DR CONTROL** app (iOS/Android)
- Check recorded audio using wireless playback

## Built-in professional X-Y stereo mics enable high-quality audio recording



Two cardioid mic capsules are arranged so that their diaphragms overlap in the same axis. This X-Y configuration provides a true stereo image. The microphone capsules and input circuitry are designed to perform without distortion in environments with high sound pressure levels – such as live concerts and recording close to a sound source.

In addition, a newly-designed shock mount absorbs vibrations effectively - even when mounted on a digital SLR camera.

- Cardioid condenser mics in an X-Y configuration for impeccable stereo recordings
- Designed to handle high sound pressures of up to 132 dB
- Shock mount structure reduces physical noise
- Dual-level recording function helps avoid overloads

## XLR/TRS input jacks for professional applications



The XLR/TRS external input jacks can be used to record the outputs of a PA console or external mics while recording with the built-in mics – recording four tracks (two stereo tracks) simultaneously. Set the recorder to capture four mono, one stereo and two mono, or two stereo tracks according to your recording needs. Since this unit can also provide +48V phantom power, users can also connect their favorite condenser mics.

Moreover, this unit supports +4dBu input, which is necessary to interface with professional-level equipment

- XLR/TRS inputs that support +4dBu and +48V
- Low noise realized through the use of a PGA and high-performance audio codec
- Four-track recording is easy using the external inputs for mics or other devices

### **MTR mode can be used for serious music production**

The DR-44WL is also a powerful tool for songwriters. By selecting MTR mode, the user can use the DR-44WL as a multitrack recorder to overdub one track at a time. With functionality that approaches that of a dedicated MTR, it is possible to produce studio-quality music files using just one DR-44WL. In addition, the reverb effect can be used to sweeten recordings.

- MTR mode enables music production similar to using a dedicated multitrack recorder
- Reverb gives vocal and instrumental performances a pleasing sense of space

### **Smartphone can be used with unit to send recorded files**



The benefits of Wi-Fi are not limited to recording. Audio files can be transmitted via Wi-Fi to smartphones and computers. Files can also be uploaded to SoundCloud using a dedicated application. SoundCloud is tightly linked with other social networking services. For example, if a recording is shared to Facebook, it will appear on the user's timeline. By uploading a live recording immediately after performance, audience members could listen to the concert again on their way home.

Note: An Internet connection is necessary to upload files to the Internet from a smartphone.

- Dual-format recording function allows simultaneous recording of both WAV and MP3 files
- Share audio files from SoundCloud to other social networking services
- Transfer files to computers wirelessly

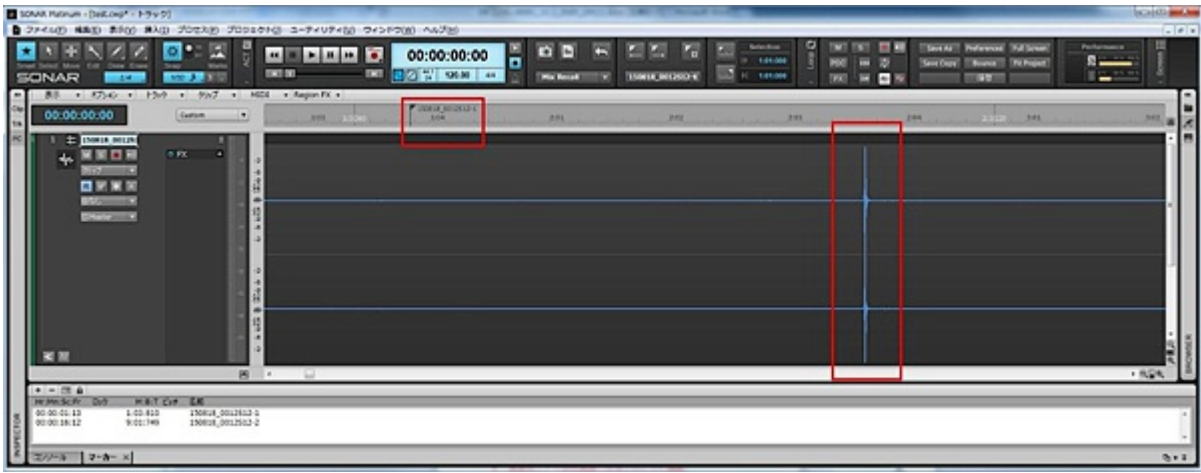
### **Multiple automatic features allow simplified operation**

Even though the DR-44WL is a professional recording device, it also has numerous automatic functions that make capturing high-quality recordings easy for anyone. In addition to automatic recording functions, the unit also has functions that simplify file management. Users can create high-quality recordings without complicated operations.

- Automatic level optimization functions (peak reduction and limiter)
- Automatic track incrementation functions (new file creation) can be set according to the application
- Automatic recording function that starts recording when a preset audio input level is detected
- Automatic mark function that adds marks according to set conditions
- Automatic division function that divides files at pre-set marks (V1.10)

### **Over-level peaks can be marked automatically**

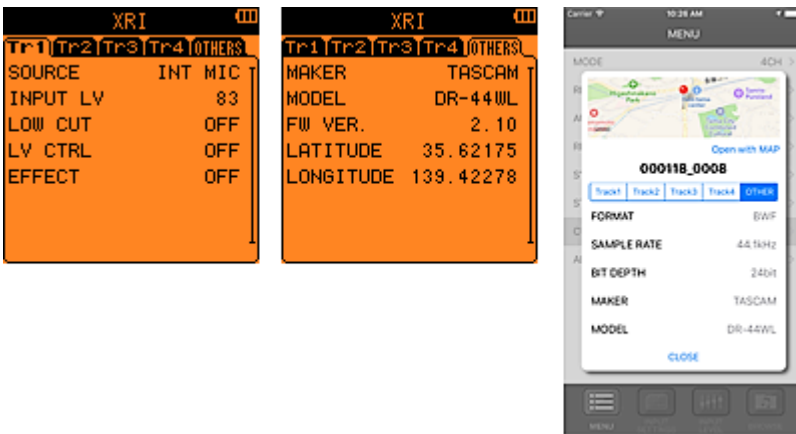
The Peak Mark function automatically places a mark two seconds before a detected peak (PEAK LED) during recording, which is useful for post-recording confirmation. When there are no problems found after confirmation, the mark can be deleted. In the BWF format (in the same way as with other types of marks) the peak mark can be utilized in corresponding DAWs. To avoid multiple marks for the same overload event, new marks are only set 10 seconds after the previous peak mark.



## Other convenient features

### Recording settings and GPS information can be saved with BWF files

The XRI (eXtended Recording Information) feature, that can be used with BWF format recordings, stores the recording settings after each recording and allows the user to identify the recorder as well as the settings used for a certain recording. In addition, a smartphone's GPS information can be embedded while connected to the recorder via Wi-Fi and using the DR CONTROL app. Storing GPS data is useful when working in multiple locations, e.g. when making outdoor sound-gathering recordings. XRI information can be displayed on the main unit, on the DR CONTROL app or on other XRI-compatible models and applications.



### Protection for important files

The Protect function prevents important recorded files from being mistakenly deleted by operating the main unit. Protection can be switched on or off for each recording file individually.

### Listen to a recording of a Hammond B-3 with Leslie 147

Here's a recording ([link to soundcloud.com](https://www.soundcloud.com)) of a Hammond B-3 with Leslie 147 played by the famous Japanese organ player **Kiyomi Otaka**.

Thanks to the DR-44WL's sensitive built-in mics, you can hear the characteristic warm sound of the organ with details like movements of the drawbars and the tone-wheel.

# Features at a glance

## Key features

- Supported WAV recording formats: 44.1/48/96 kHz, 16/24 bits, WAV/BWF format
- Supported MP3 recording format: 44.1/48 kHz, 32–320 kbit/s MP3
- Two recording modes:
  - Normal recording mode (up to 4 tracks) for simple recording
  - Professional MTR mode for music creation
- Wi-Fi connection supports monitoring, transport control, level control, file transfer and more
- Easy Wi-Fi direct connection with Android/iOS or through an existing router or access point
- Dedicated Wi-Fi file transfer application for Windows/Mac available
- Improved internal clock – ideal for filmmaking

## Recording hardware

- Unidirectional (cardioid) condenser microphones in X-Y configuration
- Can handle high sound pressure levels up to 132 dB SPL
- Dedicated shock mount system to eliminate handling noise
- XLR/TRS analogue inputs compatible with +4 dBu line level signals
- 48V phantom power for condenser microphones
- Improved microphone preamps for higher-quality audio
- Cirrus Logic AD/DA codec for low-noise, high-performance audio recording and low power consumption
- Recording media: SD/SDHC/SDXC card (up to 128GB SDXC card)

## Recording functions

- QUICK menu button shows convenient features for various recording situations
- Dual recording with different level settings or in different formats
- Four-position low-cut filter (40/80/120/220 Hz)
- M-S decode function for external M-S microphone
- Peak-reduction function automatically sets the optimal level when peaks are detected in music recordings
- Limiter function for overload protection
- Auto-recording function to automatically start recording based on input level
- Pre-recording function that can record up to 2 seconds prior to actual record start
- Self-timer recording function
- Mark function (manual or automatic by peak or by time)
  
- Input delay function for adjusting distance/time delay differences between external mic and internal mic
- Punch in/out function in MTR mode
- Bounce function in MTR mode
- Information on the recording settings used and the current GPS position derived from a connected smartphone can be embedded in BWF files

## Playback functions

- Variable Speed Audition (VSA) is ideal for practice and arrangement (50–150% change of speed)
- Key changing function with fine-tuning ( $\pm 6$  halftones)
- I-O loop playback function – ideal for rehearsal
- Resume function retains the last stop position when power is turned back on
- Audio files created on computer can be played back (only in formats compatible with this product)
- Built-in monaural speaker (300 mW)

## Editing functions

- Divide function (manual or automatic by markers)
- Files and empty folders can be deleted
- Track division function creates new files during recording (manual or automatic by time or by level)
- Mixdown function for 4-track recording

## Other features

- Reverb effect for acoustic instruments and vocals
- Automatic power-saving function that prevents unnecessary use of battery power
- Chromatic tuner and metronome for rehearsal)
- File name format can be set to use a user-defined word or date
- Long-time operation of over 16 hours using the internal batteries
- Stereo-mini headphones/line output with 20 mW output power per channel
- 128×128 graphic LCD with backlight
- Screw hole for tripod attachment
- USB 2.0 high-speed file transfer to/from computer

- Included accessories: AC adapter, hot-shoe adapter, soft case, hand grip, wind screen and micro USB cable
- Powered by four AA batteries, included AC adapter or USB bus power
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# Supported Operating Systems

## Windows

- Windows 10 (May 2020 Update 2004)
- Windows 8.1
- Windows 7

## Mac

- macOS Catalina (10.15)
- macOS Mojave (10.14)
- macOS High Sierra (10.13)

# Options



**AK-DR11:** Accessory Pack for DR Series Audio Recorders



**DR Control:** Remote app for DR-series recorders





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



**PS-P520U:** 5-Volt AC Adapter



**BP-6AA:** Battery pack

# Related products



**DR-22WL:** Handheld Recorder with Wi-Fi functionality



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



**DR-100MKIII:** Professional Handheld Recorder

# Specifications

## General

Recording media	SD card (64 MB – 2 GB) SDHC card (4–32 GB) SDXC card (64–128 GB)
Recording/playback formats	BWF: 44.1k/48k/96kHz, 16/24 bit WAV: 44.1k/48k/96kHz, 16/24 bit MP3: 44.1k/48kHz, 32/64/96/128/192/256/320 Kbit/s
Number of channels	4 channels
Recorded files, 4-channel mode	Mono: Up to 4 files Stereo: Up to 2 files Stereo (1 file) + mono (up to 2 files)
Recorded files, multitrack mode	Mono: Up to 4 files

## Analogue audio inputs and outputs

EXT MIC/LINE IN jack (supporting phantom power supply)	Combo type XLR-3-31 (1: GND, 2: HOT, 3: COLD) 6.3-mm TRS standard jack (Tip: HOT, Ring: COLD, Sleeve: GND)
When EXT IN switch set to MIC or MIC+PHANTOM	
Input impedance	2.2 k $\Omega$ or more
Reference input level	-17.3 dBu $\pm$ 2 dB
Maximum input level	-1.3 dBu $\pm$ 2 dB
When EXT IN switch set to LINE	
Input impedance	2.2 k $\Omega$ or more
Reference input level	+4 dBu
Maximum input level	+20 dBu
Phones/LINE OUT jack	3.5-mm stereo mini jack
Output impedance	12 $\Omega$
Reference output level	-14 dBV (at 10 k $\Omega$ load)
Maximum output level	+2 dBV (at 10 k $\Omega$ load)
Maximum output power	20 mW + 20 mW (at 32 $\Omega$ load)
Built-in speaker	0.3 W (mono)

## Other inputs/outputs

USB port	Micro-B type
Format	USB 2.0 HIGH SPEED mass storage class

## Audio performance

Frequency response (EXT IN to LINE OUT)	20 Hz – 20 kHz +1/-3 dB (44.1 kHz, JEITA) 20 Hz – 22 kHz +1/-3 dB (48 kHz, JEITA) 20 Hz – 40 kHz +1/-3 dB (96 kHz, JEITA)
Distortion (EXT IN to LINE OUT)	0.05% or less (44.1/48/96 kHz, JEITA)
S/N ratio (EXT IN to LINE OUT)	92 dB or higher (44.1/48/96 kHz, JEITA)

Note: Measurements based on JEITA CP-2150

## Requirements for connected computers

Windows	Pentium 300 MHz or more 128 MB or more memory USB port (USB2.0 is recommended)
Mac	Power PC, iMac, G3, or G4 with 266 MHz or higher 64MB or more memory USB port (USB2.0 is recommended)

## Recommended USB host controller Requirements for connected computers

Wi-Fi standard

Wireless communication mode

WiFi security

Intel chip set  
Windows XP, Windows Vista, Windows 7, Windows 8  
(including 8.1)  
Mac OS X 10.2 or later

IEEE 802.11b/g/n (2.4 GHz only)

Simple access point (Limited AP)

WPA2-PSK (WPS2.0 compatible)

## Power supply and other specifications

Power supply

4 AA batteries (alkaline or NiMH)  
USB bus power from a computer  
Dedicated AC adapter (GPE053B provided with unit)  
Dedicated AC adapter (TASCAM **PS-P520U**; sold separately)

Power consumption

2.5W (maximum)

Dimensions (W × H × D)

79 mm × 162 mm × 43 mm

Weight

346 g (including batteries)  
251 g (excluding batteries)

Operating temperature

0–40 °C

## Approximate battery operation time (continuous operation)

Alkaline batteries (EVOLTA)

2ch WAV, 96 kHz, 24 bit

13 hours  
(Recording with built-in microphone)

2ch WAV, 44.1 kHz, 16 bit

16 hours  
(Recording with built-in microphone)

2ch MP3, 44.1 kHz, 128 Kbit/s

14 hours  
(Recording with built-in microphone)

4ch WAV, 96 kHz, 24 bit

13 hours  
(Recording with built-in microphone + line input)

4ch WAV, 44.1 kHz, 16 bit

13.5 hours  
(Recording with built-in microphone + line input)

4ch MP3, 44.1 kHz, 128 Kbit/s

13.5 hours  
(Recording with built-in microphone + line input)

2ch WAV, 44.1 kHz, 16 bit

15.5 hours  
(Playback using headphones)

2ch MP3, 44.1 kHz, 128 Kbit/s

16 hours  
(Playback using headphones)

NiMH batteries (eneloop)

2ch WAV, 96 kHz, 24 bit

10.5 hours  
(Recording with built-in microphone)

2ch WAV, 44.1 kHz, 16 bit

12.5 hours  
(Recording with built-in microphone)

2ch MP3, 44.1 kHz, 128 Kbit/s

10 hours  
(Recording with built-in microphone)

4ch WAV, 96 kHz, 24 bit

10.5 hours  
(Recording with built-in microphone + line input)

4ch WAV, 44.1 kHz, 16 bit

11.5 hours  
(Recording with built-in microphone + line input)

4ch MP3, 44.1 kHz, 128 Kbit/s

11 hours  
(Recording with built-in microphone + line input)

2ch WAV, 44.1 kHz, 16 bit

12.5 hours  
(Playback using headphones)

2ch MP3, 44.1 kHz, 128 Kbit/s

12 hours  
(Playback using headphones)

Recording: JEITA recording time, Playback: JEITA music playback time

Design and specifications subject to change without notice.

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