FR-AV4

■ Description

LINEAR PCM RECRODER

■ Marketing name

32-Bit Float 4ch Field Recorder with Mixer, Timecode Generator and HDMI Sync

■ Product outline

The TASCAM FR-AV4 is more than just a 4-channel field recorder - it's an essential audio solution for videographers, content creators, and audio professionals. With dual AD converters, Ultra HDDA low-noise microphone preamps, and 32-bit float recording, the FR-AV4 captures every nuance, from the quietest of whispers to the largest explosions, all with crystal clarity and no fear of clipping. With its built-in timecode generator and HDMI sync to firmly lock audio to video, this compact and rugged recorder is the ideal solution for videographers and sound designers in any environment. When there's no second take, the FR-AV4 delivers.

Brand	TASCAM
Model	FR-AV4
Launching date	September, 2025
Available date	October, 2025
EAN code	4907034 135646
Overall dimensions (W x H x D)/weight (Inc. battery)	184 x 42 x 130 [mm]/0.756 kg 7.25 x 1.66 x 5.12 [inch]/1.67 lb
Package dimensions (W x H x D)/weight	161 x 232 x 72 [mm]/0.789 kg 6.34 x 9.14 x 2.84 [inch]/1.74 lb
Master carton dimensions (W x H x D)/weight	484 x 190 x 380 [mm]/8.57 kg 19.06 x 7.49 x 14.97 [inch]/18.90 lb
Qty per master carton	10

■ Main Features

- 133dB wide analog dynamic range with dual AD converters and 32-bit float recording
- Ultra-low noise preamps (Ultra HDDA / EIN -127dBu) on all four XLR/TRS combo inputs ensure crystal-clear sound capture
- Mix up to four inputs to two outputs using the built-in mixer
- Record six tracks (four tracks + stereo mix) to an SDXC card
- Built-in timecode generator, HDMI and 3.5mm stereo mini jack Timecode In/Out, USB Timecode Out and Atomos Bluetooth sync

- Enables precise AV sync via HDMI clock, along with cascade and record trigger control, supporting 4K/8K video pass-through
- A portable, lightweight, and slim design—ideal for portable use, mobile recording, and studio production.
- Wireless audio monitoring *
- App control via TASCAM RECORDER CONNECT*

■ Additional Features

- Selectable recording formats to suit your project (24-bit/ 32-bit float, 48 / 96/ 192 kHz)
- 6-in/2-out USB-C audio interface (24-bit / 32-bit float)
- Monitor Select menu allows quick and easy routing
- 1.9-inch LCD touchscreen and an intuitive jog wheel for easy operation
- A function key that instantly recalls your preferred function.
- Built-in low-cut filter, EQ, limiter, and noise gate
- Input and output delay functions [0–300 msec]
- Four AA batteries, USB mobile battery, or optional AC adapter (PS-P520U)
- High accuracy TCXO for Jam Sync and time code generation.
- Supports ambisonics audio recording in A-format / B-format (AmbiX, FuMa)
- Free TASCAM RECORDER CONNECT app for iOS, iPadOS, and Android allows you to control up to 5 units*
- Automatic file closing function to prevent the loss of recorded data if the batteries run out
- 3.5mm TRS CAMERA/EXT input (MONO/ST) with plug-in power (+2.5V/+5.0V)
- 3.5mm stereo CAMERA/TC/LINE out
- 3.5mm stereo headphone out
- Built-in tone generator for easy level matching between devices
- Camera screw mount designed for use with camera rigs
- Includes a BH-4AA battery holder (additional BH-4AA available for quick and easy battery swaps)

  * Requires optional Bluetooth adapter “AK-BT2”

■ Specifications/ratings

Recorder specifications

Recording media:

SD/SDHC/SDXC cards (512 GB maximum)

Recording/playback formats:

WAV (BWF)

Sampling frequency: 48 kHz, 96 kHz, 192 kHz

Quantization bit depth: 24-bit/32-bit float

Metadata support: BTEXT, iXML

MP3

Sampling frequency: 48 kHz

Bit rate: 128/192/256/320 kbps

Maximum number of input channels: 4

Maximum number of recordable tracks: 6

(4 inputs+ 2 ch master mix)

Timecode

Mode

OFF / Free Run (Custom, Time of Day),

File TC Offset

Sync master

Internal / TC In / HDMI® / ATOMOS1 supported

Jam Sync

Output

TC OUT, Camera/TC/LINE OUT, HDMI®*1, USB -C

Frame Rate

23.98, 24, 25(50), 29.97(59.94),

29.97DF(59.94DF), 30(60) fps*2

*1 For video with frame rates of 50 fps and higher, timecode of half the frame rate is used.

* 2 AK-BT2 Bluetooth adapter is required

Analog audio input ratings

Mic/line inputs jacks 1–2 (balanced)

Connectors: XLR/TRS combo jacks

XLR3-31 equivalent (1: GND, 2: HOT, 3: COLD)
*Supports phantom power only when MIC input selected
6.3 mm standard TRS jacks (balanced)
(Tip: HOT, Ring: COLD, Sleeve: GND)
*TRS jacks do not support phantom power

[MIC] input is selected
Maximum input level: +4 dBu
Minimum input level: -76 dBu
Input impedance: 2.0 kΩ or more
Phantom power: +24V / +48V
*selectable when [MIC] input is selected

[LINE] input is selected
Maximum input level:+24 dBu
Nominal input level:+4 dBu (GAIN setting at minimum)
Input impedance: 8 kΩ or more

Line input (unbalanced): Camera/EXT/TC IN jack (can provide plug-in power)
Connector: 3.5mm (1/8") stereo mini jack
Input Impedance: 6.0 kΩ or more
(when plug-in power is turned off)
1.6 kΩ or more
(when plug-in power is turned on)
Nominal input level: - 19 dBV
(GAIN setting at minimum)
Maximum input level: +1 dBV
Minimum input level : - 79 dBV
Plug-in power: +2.5 V/+5.0 V

Analog audio output ratings

Line output (unbalanced): Camera/LINE/TC OUT jack
Connector: 3.5 mm (1/8") stereo mini jack
Camera/LINE (Tip: L ch, Ring: R ch, Sleeve: GND)
Output impedance: 210 Ω

[LINE] is selected
Nominal output level: - 14 dBV
Maximum output level: +6 dBV

[CAMERA] is selected
Nominal output level: - 34 dBV
Maximum output level: -14 dBV

TC OUT
(Tip: Timecode OUT, Ring: R ch, Sleeve: GND)
Output level: 10 mVp-p
Output impedance: 150 Ω
Format: LTC (SMPTE ST 12-1 compliant)
* 0 dBV=1 Vrms, 0 dBu=0.775 Vrms

Headphone output: headphone jack
Connector: 3.5mm (1/8") stereo mini jack
Maximum output: 50 mW + 50 mW
(THD + N less than 0.1% into 32 Ω load)
Recommended headphone impedance: 16–600 Ω
(Sufficient volume might not be achieved from low-sensitivity headphones even if in the recommended range)

TC IN/OUT jacks
Connector: 3.5mm (1/8") stereo mini jack

TC IN jack
(Tip: Timecode IN, Ring: –, Sleeve: GND)
Input impedance: 10 kΩ or more
Signal level range: 0.5Vp-p to 5.0 Vp-p

TC OUT jack
(Tip: Timecode OUT, Ring: –, Sleeve: GND)
Output impedance: 1.0 kΩ
Output level: 1.8 Vp-p

Format: According to SMPTE ST 12-1 (LTC)
Frame rate: 23.98, 24, 25(50), 29.97(59.94), 29.97DF(59.94DF), 30(60) fps *
* Half frame rate time code is used for high frame rate videos of 50 fps or higher.

HDMI® IN/OUT jacks

Port: Type-A
Version: 2.1, supports 4k/60Hz and 8k/30Hz
*ATEN LockPro 2X-EA12 can be used to prevent cable disconnection.

USB

Port: USB Type-C
Transfer format: USB2.0 High Speed
Device class: Mass Storage Class
USB Audio Class 2.0 (USB Class Compliant)

USB Audio

Sampling frequency: 48/96 kHz
Quantization bit depth: 24-bit / 32-bit float
Number of inputs: 6 channels * output from this unit
Number of outputs: 2 channels *input to this unit

Bluetooth device connector

Designed for AK-BT2 Bluetooth® adapter

Audio performance

Mic amp EIN (equivalent input noise)

-127dB or less

Frequency response

Input jacks 1–2 to PCM data

20-20 kHz at 48 kHz: +0 dB/-0.5 dB

20-40 kHz at 96 kHz: +0.5 dB/-1.0 dB

20-60 kHz at 192 kHz: +0.5 dB/-3.0 dB

Dynamic range

Input jacks 1–4 to PCM data

(20kHz LPF, A-weighting, JEITA)

133 dB or higher

Total harmonic distortion ratio (THD+N)

Input jacks 1–4 (LINE/MIC IN) to PCM data

(1kHz sine wave, –2dBFS input, minimum recording level setting, 20kHz LPF, JEITA)

0.01% or less

Note: JEITA indicates conformance to JEITA CP-2150

Recording times (in hours : minutes)

File format (setting at recording)		Card capacity	
		256 GB	512 GB
WAV 24-bit (2-track recording)	48 kHz	246:52	493:44
WAV 24-bit (4-track recording)	48 kHz	123:26	246:52
WAV 24-bit (6-track recording)	48 kHz	82:16	164:32
WAV 24-bit (2-track recording)	96 kHz	123:26	246:52
WAV 24-bit (2-track recording)	192 kHz	61:42	123:52
WAV 32-bit float (2-track recording)	48 kHz	185:4	370:8
WAV 32-bit float (4-track recording)	48 kHz	92:36	185:12
WAV 32-bit float (6-track recording)	48 kHz	61:40	123:20
WAV 32-bit float (2-track recording)	96 kHz	92:32	185:4
WAV 32-bit float (2-track recording)	192 kHz	16: 16	92:32

o The recording times shown above are estimates. They might differ depending on the microSD card in use.
o The recording times shown above are not continuous recording times, but rather they are the total possible recording times for the microSD card.
o The recording time for 4-track recording is half of the above recording time, and for 6-track recording it is one-third.

Note

o When the file size reaches 4GB during recording, a new file is automatically created and recording continues (file increment).
o When DUAL FORMAT is ON, sound may be interrupted when switching recording files in MP3 format.

Operating system and other requirements

Check the TASCAM website (https://tascam.jp/int/product/fr-av4/spec#osmedia) for the latest information about supported operating systems.

Supported OS

FR-AV4

Windows, macOS, iOS/iPadOS, Android

TASCAM FR-AV Series Settings Panel

Windows, macOS

TASCAM RECORDER CONNECT

iOS/iPadOS, Android

Audio Drivers

Windows: ASIO 2.0, WDM

macOS, iOS/iPadOS: Core Audio

Supported Versions at Time of Release

FR-AV4:

Windows 11

macOS 14 Sonoma, macOS 15 Sequoia

Android 15

TASCAM FR-AV Series Settings Panel:

Windows 11

macOS 14 Sonoma, macOS 15 Sequoia

TASCAM RECORDER CONNECT:

iOS/iPadOS 17, iOS/iPadOS 18

Android 15, Android 16

General

Power

4 AA batteries (alkaline, NiMH or lithium-ion)

USB bus power from a computer, etc.

TASCAM PS-P520U AC adapter (sold separately)

Power consumption

5.4 W (maximum)

Battery operation time (continuous operation)

*Using alkaline batteries (EVOLTA)

Use conditions	Operation time
Input through input jacks 1–2 Phantom power unused 48kHz STEREO WAV (BWF) 24-bit recording	About 9.0 hours
Input to input jacks 1–4 Phantom power used (+48V, 3mA×4 load) 48kHz 6ch WAV (BWF) 32-bit float recording Headphones connected HDMI® not connected	About 2 hours 30 minutes
Input to input jacks 1–4 Phantom power used (+48V, 3mA×4 load) 48kHz 6ch WAV (BWF) 32-bit float recording Headphones connected HDMI® connected	About 1 hours 30 minutes

*Using NiMH battery (eneloop)

Use conditions	Operation time
Input through input jacks 1–2 Phantom power unused 48kHz STEREO WAV (BWF) 24-bit recording	About 8 hours 30 minutes
Input to input jacks 1–4 Phantom power used (+48V, 3mA×4 load) 48kHz 6ch WAV (BWF) 32-bit float recording Headphones connected HDMI® not connected	About 3 hours
Input to input jacks 1–4 Phantom power used (+48V, 3mA×4 load) 48kHz 6ch WAV (BWF) 32-bit float recording Headphones connected HDMI® connected	About 2 hours

*Using lithium-ion batteries (Energizer Ultimate Lithium)

Use conditions	Operation time
Input through input jacks 1–2 Phantom power unused 48kHz STEREO WAV (BWF) 24-bit recording	About 17 hours
Input to input jacks 1–4 Phantom power used (+48V, 3mA×4 load) 48kHz 6ch WAV (BWF) 32-bit float recording Headphones connected HDMI® not connected	About 6 hours 30 minutes
Input to input jacks 1–4 Phantom power used (+48V, 3mA×4 load) 48kHz 6ch WAV (BWF) 32-bit float recording Headphones connected HDMI® connected	About 4 hours

Note) When phantom power is used, the duration may be shorter depending on the microphone used.

Dimensions

184 x 42 x 130 [mm]
7.25 x 1.66 x 5.12 [inch]
(W x H x D, including protrusions)

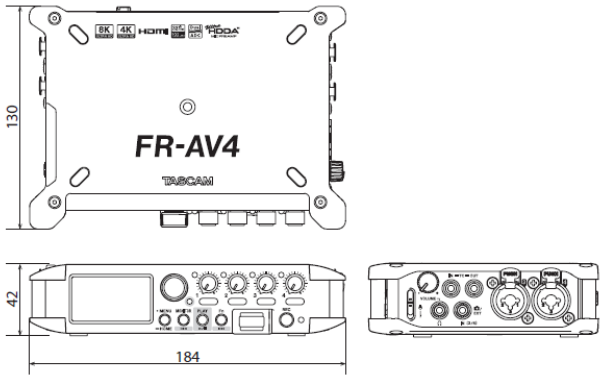
Weight

756 g / 1.67 lb (including batteries)
660 g / 1.46 lb (not including batteries)

Operating temperature range

0 - 40°C / 32 - 104 °F

<Dimensional drawings>



Included items

FR-AV4 x1
Battery Holder BH-4AA (pre-installed) x1
Safety guide (with warranty) x1
TASCAM ID registration guide x1