

# Song Meter SM4 Acoustic Recorder

The smallest and lightest dual-channel, weatherproof acoustic recorder available.



The new Song Meter SM4 features two built-in microphones, innovative scheduling tools, large data storage and low power consumption – a unique combination of features that provide the longest deployment times of any acoustic recorder available.

**A new generation of microphones.** The SM4 features entirely new, built-in microphones that create higher quality recordings than those from all previous Song Meter recorders. In addition to its built-in microphones, the SM4 includes two microphone ports – giving you the flexibility to record additional data from a new SMM-A2 cabled acoustic microphone, and/or hydrophone

**Two channels for more recording flexibility.** If you need to record two sources of audio at the same time, take advantage of the SM4's dual channel feature. Record in stereo or mono using the built-in microphones, or connect one or two cabled microphone/hydrophones. Adding additional runs of cable to the external microphone gives you the ability to capture audio from far-off wildlife such as birds in the forest canopy, or frogs at a nearby pond.

**The longest deployment times of any recorder.** The SM4 features new power circuitry that significantly increases deployment time over the SM3. In Sleep Mode, between scheduled recordings, the SM4 uses almost no power, allowing it to remain idle for months – meaning longer deployments, and fewer trips into the field.

**Easy scheduling.** The SM4's new Quick Start menu and Scheduler feature are an industry first. The SM4 comes with out-of-the box recording programs; including daytime, nighttime, and continuous recording schedules. Simply choose schedule and press the Start button. The SM4's new Scheduler features makes it easy to create custom schedules that suit your exact needs.

**More than a terabyte of data storage capacity.** The SM4 has two SD card slots that accept SDHC and SDXC cards. When fitted with two 512GB cards, the SM4 can store over a terabyte of data. In the future, when higher capacity cards come to market, the SM4 will store even more.

Learn more at [WildlifeAcoustics.com](http://WildlifeAcoustics.com)



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## Specifications:

### Recording Technology:

- Two-channel, 16 bit .wav

### Recording Bandwidth:

- 20Hz – 48kHz

### Built-in Microphones (2):

- Omni-Directional
- Sensitivity: -28 dB +/- 3 dB at 1 kHz (0 dB=1 V/Pa)
- Signal to Noise Ratio: 80 dB Typ. at 1kHz (1 Pa, A weighted network)
- Max Input Sound Level: 122 dB S.P.L. Typ.

### Power:

- More than 300 hours with 4 D-cell Alkaline or NiHM batteries
- External power via optional SM3/SM4 Power Cable

### Storage:

- 2 SDXC/SDHC flash card slots (Class 4 or greater)
- More than 1 terabyte total capacity using 2 512GB SDXC cards

### Dimensions:

- Height: 8.6" / 21.8 cm
- Width: 5.9" / 15.0 cm
- Depth: 2.8" / 7.1 cm

### Weight:

- 1.4 lbs / .6 kg without batteries
- 2.7 lbs / 1.2 kg with batteries

### Enclosure Material:

- Polycarbonate

### Operating Temperature:

- -4°F to +122°F or -20°C to 50°C

### Warranty:

- 3 years



The cabled **SMM-A2** acoustic microphone is completely weatherproof and can be deployed away from the recorder using multiple lengths of additional cable.



The SM4 recorder can also be used with an available hydrophone, the **SM3-H1**, for making underwater recordings. The hydrophone ships on a 20 meter cable and attaches to the same connectors as the cabled microphones.



The **GPS option** is a valuable, time-saving tool for researchers who have large coverage areas with the need to synchronize multiple recorders.\*

