



EM3 Handheld Active Detector

The Echo Meter EM3 is the latest addition to the Wildlife Acoustics product family. An all-in-one handheld bat detector and recorder for active monitoring, the EM3 offers all the features and more of competing solutions, but at a fraction of the price.

- Fully self-contained, the EM3 is easy to hold, lightweight and requires no additional hardware.
- Monitor bat calls with headphones or the built-in speaker.
- Record 16-bit full spectrum in our compressed WAC format or record an individual WAV file for each bat pass.
- Optionally, record files compatible with Titley Scientific™ AnaBat™ sequence files for analysis in AnaLookW™. No conversion needed!
- While recording, simultaneously listen to bat calls in the method of your choice: Heterodyne, Frequency Division or our patent pending Real Time Expansion.
- Built-in real-time spectrogram displays current and recent bat passes in expanded or compressed mode to see a history of bat calls.
 - Zoom in and out of the vertical and horizontal axis of the spectrogram for recently heard bat calls while continuing to monitor and record.
- Playback bat calls in Time Expansion mode at desired speed to hear details of the call.
- The most flexible heterodyne detector on the market:
 - Auto-Het feature automatically selects frequency based on call dynamics.
 - Program up to four frequency presets to rapidly tune into a bat call.
 - Fine tune any frequency setting with easy to use button navigation.
- Tag a bat call in real-time in one of four categories and/or capture voice notes and bat passes in the same trigger for direct correlation.
- Optional GPS accessory maps bat signal to location.



SPECIFICATIONS

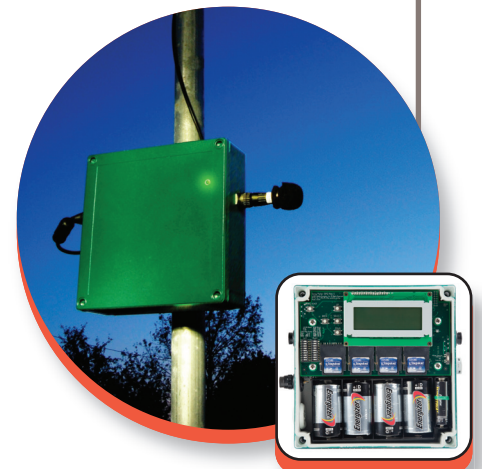
- POWER:** Four AA rechargeable NiMH batteries included with integrated battery charger.
- STORAGE:** One SDHC/XC card slot supporting up to 128GB.
- BATTERY LIFESPAN:** Up to 10 hours on a single charge.
- RECORDING BANDWIDTH:** 1kHz to 192kHz.
- RECORDING TECHNOLOGY:** 16-bit full spectrum & native zero crossing.
- WEIGHT:** Less than 0.35kg with batteries.



SM2BAT+ Long-term Passive Recorder

The Song Meter SM2BAT+ revolutionizes unattended automatic recordings of bat activity. Full featured at an affordable system price, the SM2BAT+ helps customers stay within budget while not sacrificing on quality.

- Weatherproof enclosure and microphone withstand harsh climates.
- Omnidirectional microphone is more sensitive to detecting bat calls in all directions.
- Recording in 16-bit full-spectrum preserves the amplitude and harmonic details of original bat signals and is more sensitive to detecting bat calls.
- Record directly to WAV files for immediate analysis.
- Sophisticated triggering assures only bats are recorded to reduce storage requirements.
- Native zero cross mode records to files that can be opened directly in zero cross software.
- Record bats, birds, frogs and other wildlife via a second microphone positioned up to 100 meters away.
- Effortlessly program on your computer or directly on the SM2BAT simple schedules or complex monitoring timetables relative to local sunrise, sunset and twilight.
- Compatible with all industry standard bat analysis software.



SPECIFICATIONS

- POWER:**
- Two AA batteries for internal clock last for two years.
 - Four D-size Alkaline or NiMH batteries enable up to 9 nights of recording in full spectrum or up to 1 month in zero cross mode.
 - Extended deployments possible with SM2 Power Adapter (sold separately).
- STORAGE:**
- From 8GB up to 128GB with SDHC or 512GB with SDXC cards.
 - In full-spectrum, 128GB with SDHC cards supports storage up to 4 months, longer using SDXC cards.
 - One 32GB SDHC card can record for years in zero cross mode.
- SAMPLING RATE:** 192kHz on two channels or 384kHz on one channel.
- RECORDING TECHNOLOGY:** 16-bit full spectrum or native zero crossing.

Comparison of Active Monitoring Solutions

Features		Wildlife Acoustics Echo Meter EM3	Batbox Duet	Pettersson D240X	Elekon Batlogger	Batbox Griffin	Titely™ AnaBat™ SD2	Pettersson D1000X	
Integrated Real-time Spectrogram		✓	✗	✗	✗	✗	✗	✗	
Monitoring Technology	Heterodyne	Automatic	✗	✗	✗	✗	✗	✗	
		Presets	✓	✗	✗	✗	✗	✗	
		Manual	✓	✓	✓	✗	✓	✗	✓
	Frequency Division		✓	✓	✗	✗	✓	✗	✓
	Time Expansion		✓	✗	✓	✓	✓	✓	✓
	Real Time Expansion		✓	✗	✗	✗	✗	✗	✗
Recording Technology	Full Spectrum		✓	✗	✓	✓	✗	✓	
	Frequency Division		✓	✓	✗	✗	✗	✓	✗
Scheduled Recording		✓	✗	✓	✓	✓	✓	✓	
Voice Notes		✓	✗	✓	✗	✗	✓	✓	
Recording Tags		✓	✗	✗	✗	✗	✗	✗	
Available GPS		✓	✗	✗	✓	✗	✓	✓	
External Microphone Connector		✓	✗	✗	✗	✓	✓	✗	
Internal Battery Charger		✓	✗	✗	✓	✗	✗	✗	
External Power Port		✓	✗	✗	✗	✓	✓	✓	
Price (US\$)		\$999	*\$650	*\$1,650	\$1,900	\$2,670	\$2,200	\$6,300	

* added \$250 for an MP3 recorder

Comparison of Passive Monitoring Solutions

Features		Wildlife Acoustics SM2BAT+	Pettersson 500X	Titely™ AnaBat™ SD2	ecoObs Batrecorder 2.0
Recording Technology	16-bit Full Spectrum	✓	✓	✗	✓
	Native Zero Crossing	✓	✗	✓	✗
Real-time Monitoring		✓	✗	✓	✗
Weatherproof Enclosure		✓	✓	✗	✓
Weatherproof Microphone		✓	✗	✗	✗
Omnidirectional Microphone		✓	✓	✗	✓
Maximum Internal Battery Lifespan	16-bit Full Spectrum	9 nights	4 nights	✗	9 nights
	Native Zero Crossing	1 month	✗	3 nights	✗
Maximum Storage Capacity	16-bit Full Spectrum	8 months	1 month	✗	1 month
	Native Zero Crossing	years	✗	8 months	✗
Recording Schedule Relative to Sunrise/Sunset		✓	✗	✗	✗
Temperature Sensor		✓	✗	✗	✗
Record Birds/Frogs on Second Channel		✓	✗	✗	✗
Record Two Ultrasonic Channels Simultaneously		✓	✗	✗	✗
Time Synchronization Option for Localization		✓	✗	✗	✗
Price (US\$)		\$999	\$2,099	\$2,200	\$3,050

www.wildlifeacoustics.com • (888) 733-0200 • +1 (978) 369-5225

Wildlife Acoustics, Song Scope, Song Meter, Echo Meter, SM2, SM2BAT+, SM2M and EM3 are trademarks of Wildlife Acoustics, Inc. Product names, logos, brands, and other trademarks featured or referred to are the property of their respective trademark holders.