NABat NORTH AMERICAN BAT MONITORING PROGRAM

Wildlife Acoustics SM4BAT

Stationary Point Surveys			SM4BAT-FS	SM4BAT-ZC
SETTINGS	AUDIO	Gain	0 = if bats approach close; 12 general foraging	*n/a*
		16k High Filter	on' (if no bats in area produce below 16kHz)	n/a
		Sample Rate	256	n/a
		Min Duration (noise scrubber)	1.5ms	1.5ms
		Max Duration (noise scrubber)	50ms	50ms
		Min Trigger frequency	16kHz if no bats in area produce below 16kHz), otherwise, 8kHz	16kHz if no bats in area produce below 16kHz), otherwise, 8kHz
		Trigger level	12dB	*n/a*
		Trigger window	2s	2s
		Max Length	15s	15s
	Date/Time		set date/time using GPS or manually (always manually adjust time zone)	set date/time using GPS or manually (always manually adjust time zone)
	Location		set location manually or via GPS plug-in	set location manually or via GPS plug-in
	Sunrise/Set type		leave at sunset/sunrise	leave at sunset/sunrise
	Delay start		n/a	n/a
	LED indicator		usually best to turn off to avoid attracting unwanted attention from people/wildlife	usually best to turn off to avoid attracting unwanted attention from people/wildlife
	Advanced		generally n/a for short term deployment	generally n/a for short term deployment
Program/Schedule	Time Blocks		START:	set -00:30
	(load sunset to sunrise built-in program and modify)		DUTY:	always
			END:	rise +00:30
			Records 30 minutes before sunset, all night, and then stops 30 min after sunrise.	

Mobile Transect Surveys			**SM4BAT-FS** (with handheld GPS synchronized; and directional horn on mic)	SM4BAT-ZC
SETTINGS	AUDIO	Gain	0 = if bats approach close; 12 general foraging	** not recommended for Mobile Transect Surveys*
		16k High Filter	on (if no bats in area produce below 16kHZ)	
		Sample Rate	256	
		Min Duration (noise scrubber)	1.5ms	
		Max Duration (noise scrubber)	50ms	
		Min Trigger frequency	16kHz	
		Trigger level	12dB	
		Trigger window	2s	
		Max Length	15s	
	Date/Time		set date/time	
	Location		set location manually or via GPS plug-in, but ensure handheld GPS and detector are set as close as possible to the same exact time	
	Sunrise/Set type		sunrise/sunset	
	Delay start		n/a	
	LED indicator		n/a	
	Advanced		n/a	
Program/Schedule	Time Blocks		load 24 Hours program	
	Post recording		Use 3rd party sofware such as Myotisoft Transect to create track log from GPS and;embed GPS waypoints into filenames	