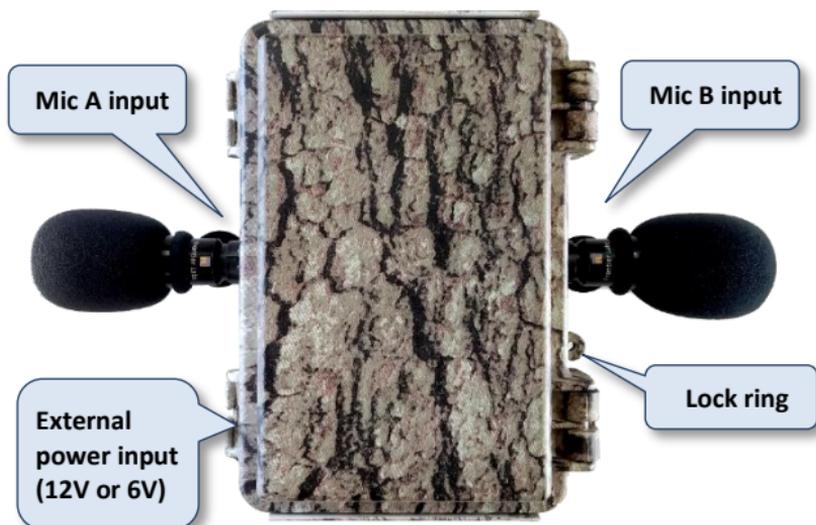




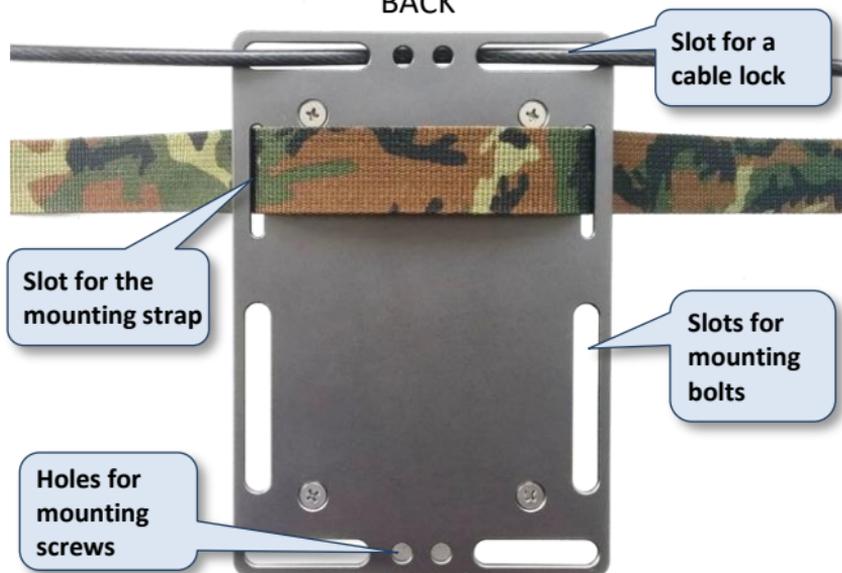
BAR-LT Quick Start Guide

Version 1.0

FRONT



BACK



Battery slots

Insert up to six 18650 Lithium-Ion rechargeable batteries. The more batteries you use the longer it will record for.

Light sensor

Senses if the lid is open or closed. If the screen does not turn on, make sure it is light enough.

SD cards slots

To eject a card, push it in then it will spring back out.

Desiccant bucket

Replace when it charges to green.



GPS status

Shows number of visible satellites, or a tick when completed.

Microphone detected (A/B)

Battery level (% full)

Recording info

sample rate, channels, file format duration and time remaining.



SD cards (1 to 4)

Shows % used space. Underline shows the active card.

Current time and date

In HH:MM:SS [UTC timezone] DD/MM/YY format.

Before you deploy:



Format your SD cards before every deployment to keep them running fast. (Do not just delete the files.) We recommend using San Disk ultra, class 10 or higher.



Check your recording schedule on the BAR-LT or using the Scheduler program on your PC.

- By default, the BAR-LT comes pre-programmed with a schedule that records continuously all day every day, broken into 1-hour blocks.
- If your schedule contains sunrise or sunset based recordings, set the location in the Scheduler program and copy it onto the recorder, it can use this as a backup location to calculate sun-based times if it is unable to get a GPS position fix in the field.
- To copy a PC schedule onto the recorder, save it as ***schedule.flis*** on your SD card then insert it into the recorder. It will automatically detect the new schedule file and ask if you would like to copy it across.



Charge your batteries. Unfortunately, due to transport regulations we are not allowed to ship your batteries fully charged. Please make sure you charge your batteries before each use.

Now is a good time to check everything is working as expected before heading out into the field. Run through the following operating procedure and check the time of the next scheduled recording is correct. You can then turn the recorder OFF until you are ready to deploy it or leave it ON and close/lock the lid if you want to have untrained volunteers deploy the recorders at a later date without having to do anything (it will go to sleep until the first recording then re-acquire a GPS fix).

Operating procedure:

1. Insert the SD cards (up to 4 x 512GB) then insert the batteries (up to 6 x 18650 rechargeable Li-ion).
The more batteries you use, the longer it can record for.
2. Turn the recorder on with the Power button.
As the recorder turns on, it shows the serial number and firmware version on the screen.
3. Enter the time zone where the recorder is being deployed (note daylight savings is not taken into account).
The home screen will then say "Waiting for GPS synchronisation" until the clock is automatically updated by the GPS or manually set by the user. It will then display the time of the next scheduled recording or start recording if it is in the middle of a recording period.
4. Connect the microphone(s) and check the microphone detect status icon appears on the screen.
5. It's good practice to wait until the GPS has acquired a fix in case you need to move to a clearing to get a better signal.
It only records a GPS fix once after it has been switched on, then disables the GPS to conserve power. If you move the recorder and want to get a new fix, simply turn the recorder off and then back on again.
If you turn the recorder on more than 1 day before the first recording is scheduled it will automatically try to get a new fix when it starts up for that first recording, so untrained volunteers can deploy the recorders without having to open the lid or do anything.



WARNING: Never eject SD cards while the recorder is on as this can result in loss of data and corruption of the file system. Always switch the recorder off before swapping SD cards.

Sample rate	Total mono recording time per battery (hrs)					
	1	2	3	4	5	6
16 kHz	165	330	495	660	825	990
22.05 kHz	155	310	465	620	775	930
32 kHz	150	300	450	600	750	900
44.1 kHz	140	280	420	560	700	840
48 kHz	125	250	375	500	625	750
96 kHz	120	240	360	480	600	720

Sample rate	Total stereo recording time per battery (hrs)					
	1	2	3	4	5	6
16 kHz	140	280	420	560	700	840
22.05 kHz	130	260	390	520	650	780
32 kHz	125	250	375	500	625	750
44.1 kHz	110	220	330	440	550	660
48 kHz	105	210	315	420	525	630
96 kHz	90	180	270	360	450	540

Sample rate	Total mono recording time per SD card (hrs)					
	16 GB	32 GB	64 GB	128 GB	256 GB	512 GB
16 kHz	138	277	555	1111	2222	4444
22.05 kHz	100	201	403	806	1612	3224
32 kHz	69	138	277	555	1111	2222
44.1 kHz	50	100	201	403	806	1612
48 kHz	46	92	185	370	740	1481
96 kHz	23	46	92	185	370	740

Sample rate	Total stereo recording time per SD card (hrs)					
	16 GB	32 GB	64 GB	128 GB	256 GB	512 GB
16 kHz	69	138	277	555	1111	2222
22.05 kHz	50	100	201	403	806	1612
32 kHz	34	69	138	277	555	1111
44.1 kHz	25	50	100	201	403	806
48 kHz	23	46	92	185	370	740
96 kHz	11	23	46	92	185	370

For more information, please see the full user manual available at:
www.frontierlabs.com.au/manuals

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