

WildSonic Recorder Service Manual

Required Resources:

- **Micro SD card:** Any capacity up to 2TB
 - **Recommended:** SanDisk Extreme Pro
 - [SanDisk Extreme Pro 64GB microSDXC UHS-I, V30](#)
 - [SanDisk Extreme Pro 128GB microSDXC UHS-I, V30](#)
 - [SanDisk Extreme Pro 256GB microSDXC UHS-I, V30](#)
- **Micro SD card Reader:**
 - **Recommended:** [SanDisk MobileMate USB 3.0 microSD Card Reader - SDDR-B531-GN6NN](#)
- **21700 Li-ion batteries** x 2 batteries
 - **Recommended:** [AMS NMC 21700 5000mAh \(3c\) Lithium-Ion Battery](#)
- **Battery Charger**
 - **Recommended:** [Nitecore New i4 Battery Charger](#)
- **Large-head Phillips #2 Screwdriver**
- **Dry towel** or moisture-absorbing cloth
- A windows computer / laptop to perform device configuration using the app.

Precautions Before Opening the Recorder Unit:

Moisture Removal:

- Ensure to wipe away all moisture from outside of the plastic enclosure.
- Rotate the unit in different directions to remove any hidden moisture around the lid.
- Properly drying the unit is crucial to prevent water damage upon opening.
- Insert silica gel packet(desiccant) to absorb any moisture ingress during installation

Device Overview:

The Wildsonic Recorder consists of following key components, shown in the figure:

- **Battery Holder:** Designed to power the device using 21700 cell batteries. The holder can accommodate either four (4) or five (5) cells depending on the required configuration. At least 2 cells must be installed for operation.
- **Power Switch:** Used to switch the device **ON** or **OFF**.
- **Main PCB and Power PCB Assembly:** A stack of the main working board and the **Power card**, they perform audio recording and storage to the SD card.

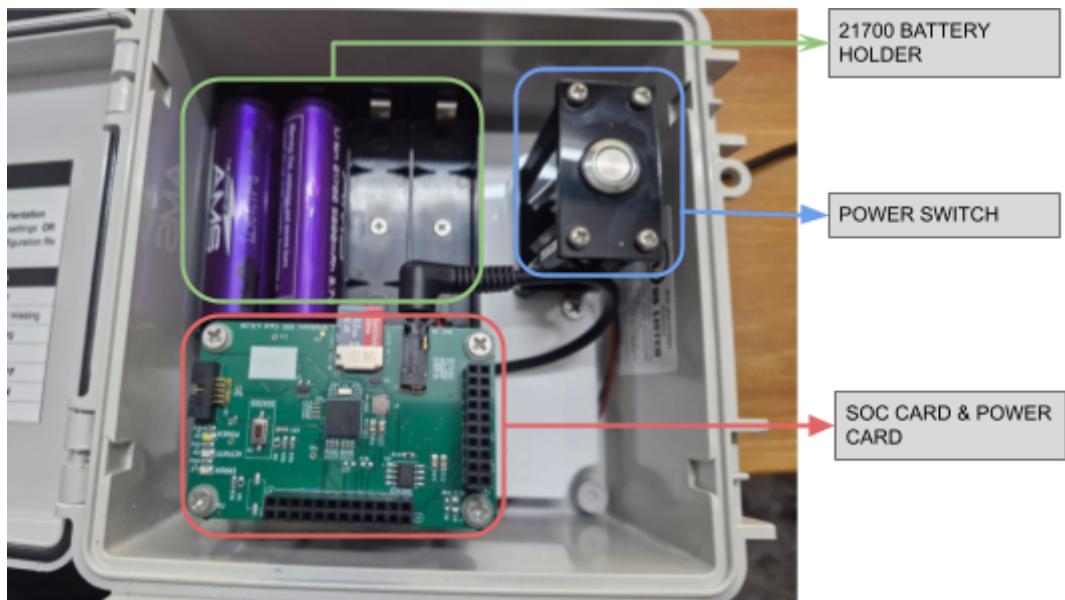


Fig 1.1 : Key parts of a WildSonic recorder

LED Indicators:

LED indicators will be in OFF mode and will activate once STATUS switch is pressed

- **White LEDs:** Power indicators
 - Blinking
 - Low battery
 - ON / OFF state indicates device in ON/OFF state
- **Blue LED:** Activity indicator
 - **Blinking:**
 - Device is still recording
 - **OFF:**
 - The device is in a sleep cycle state
- **Red LED:** Error indicator
 - Indicates an error if **blinking** (SD card is faulty/missing)

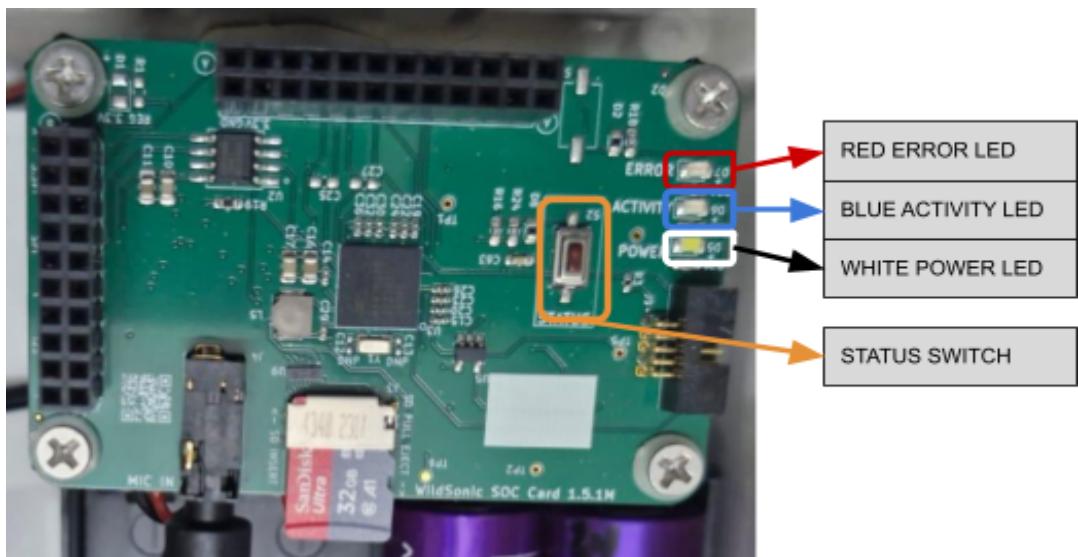


Fig 1.2 : LED indicators on the WildSonic PCB

WildSonic Recorder		
Quickstart	<ol style="list-style-type: none"> 1. Check that the device is OFF 2. Insert batteries in correct +/- orientation 3. Insert blank SD card for default settings OR Insert SD card with optional configuration file 4. Turn ON the recorder 	
Guide to LEDs (press STATUS button)		
ERROR LED (Red)	Off	No error
	On	SD Card faulty or missing
ACTIVITY LED (Blue)	Off	Not recording
	Blinking	Recording
POWER LED (White)	Off	Recorder is OFF
	On	Recorder is ON
	Blinking	Low battery

Replacing the Micro SD Card:

1. **Open:** the recorder unit
2. **Power Down:** Ensure the system is powered OFF by the Power switch in OFF position.
3. **Micro SD Card:**
 - Temporarily remove the audio jack connection from the 3.5mm audio port.
 - Remove the old micro SD card from the slot.

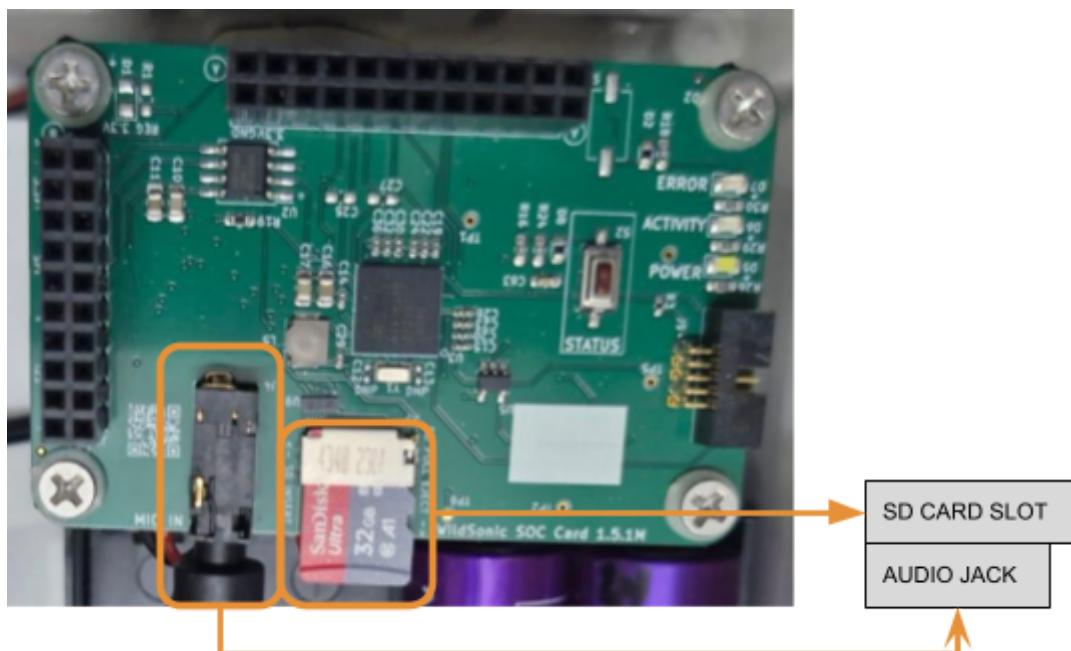


Fig 1.3: Figure to show the key parts for a SD card replacement.

4. **Adding Configuration file to the New SD Card:**
 - Insert the empty Micro SD card into a Micro SD card reader on your PC.
 - Download the WildSonic Configuration INI File Generator software utility (WildSonic Config App.exe).
[Download WildSonic Config App](#)
 - Open the utility.
 - If unsure, leave the values at default.
 - Set the system time offset (in seconds) based on the time it takes to complete the remaining steps 4-5.
 - Click “Save Config” and select the Micro SD card root directory as the destination folder.



WildSonic Configuration INI File Generator 1.0.1

System Time Offset ②

60

Sampling Rate ② Lower Freq ② Upper Freq ②

48000

0

100000

Number of Channels Bits per Sample Mic Gain ②

1

16

0



Time Per audio file ② Sleep time ② Folder Structure ②

3600

0

daily

YYYY

MM

DD

YYYY

MM

DD

Date Range ② : Time Range ② : Days of Week ② : Mon Tue Wed Thu Fri Sat Sun

Transmission Mode

SMS Status Frequency ②

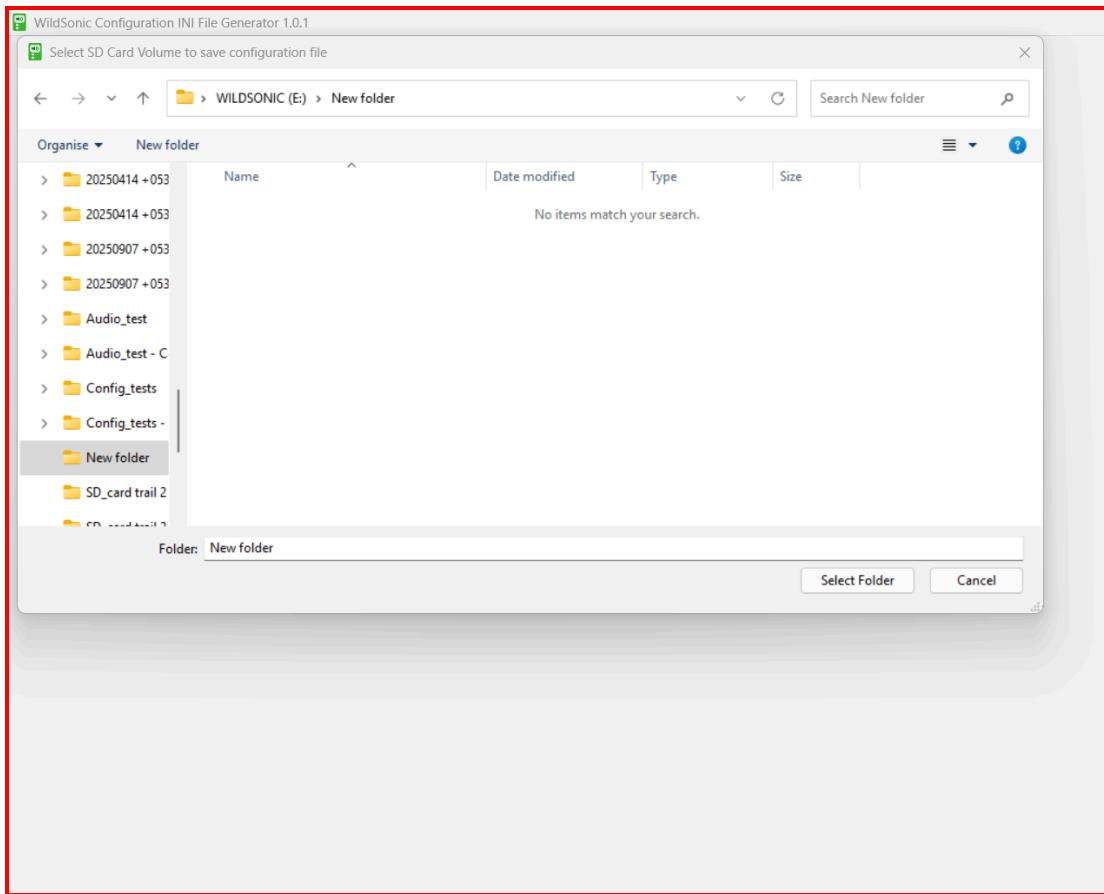
3600

4G



[Save Config](#)

[About](#)

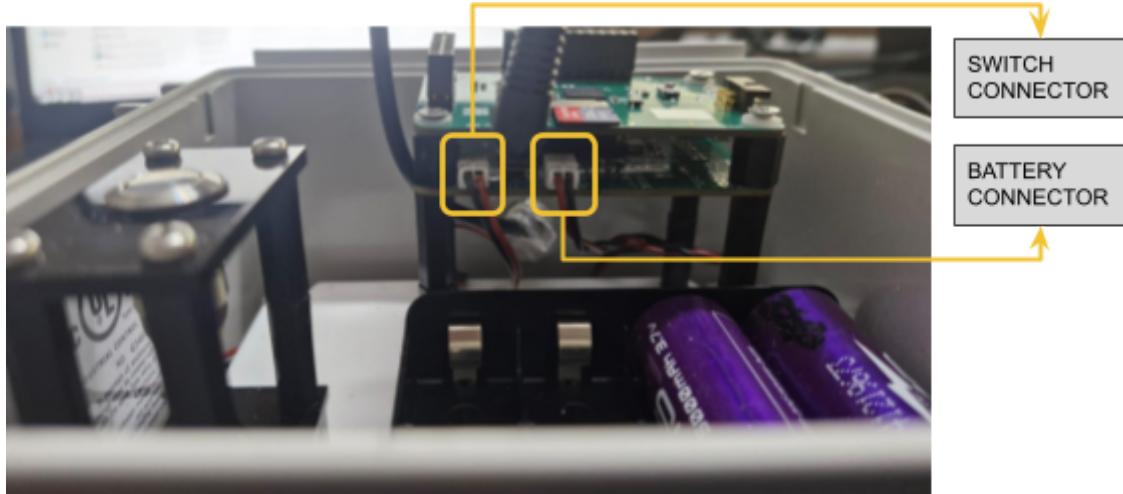


5. Final Steps:

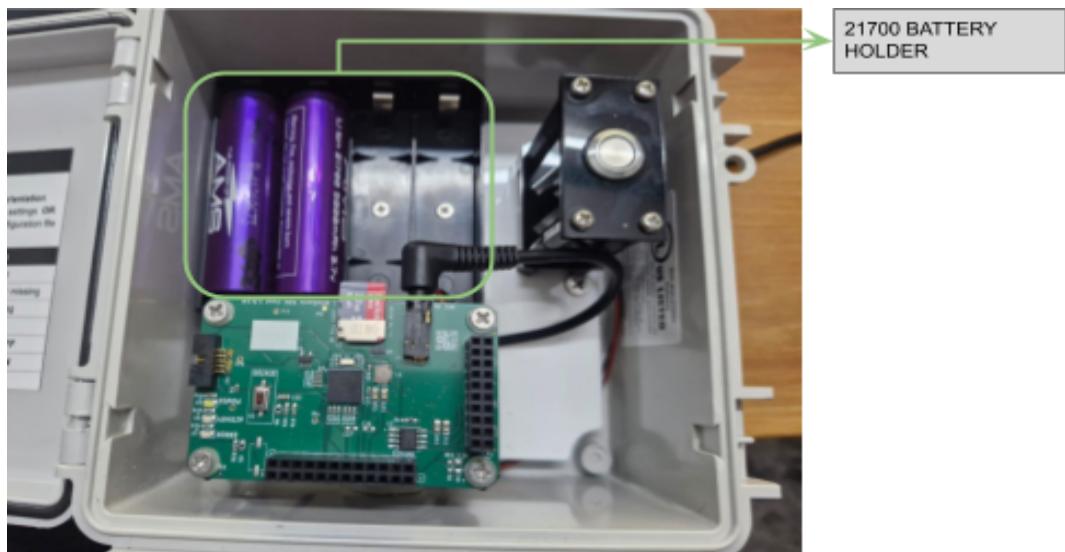
- Eject the Micro SD card from your PC.
- Insert the configured Micro SD card into the device's Micro SD card slot.
- Reconnect the Mic audio jack and any other previously disconnected connections.
- Power on the device by pressing the power switch
- The Activity LED (White) should blink.
- If the Error LED (RED) is blinking or ON, power off and then on again. The Activity LED (White) should resume blinking.
- Close the lid and secure the device.

Replacing the Battery:

- Clear all extended cables across the boards. *Precaution: Take note which cable is connected to which jack before disconnecting:*
 1. Disconnect the Switch and Battery JST connector from the board.
 2. Disconnect audio jacks.



1. **Replace the batteries:** Insert the battery, following the +/- polarity indicated on the battery holder. *Properly executing this step is crucial to preventing damage to the unit.*



2. **Reconnect cables:**
 - a. Reattach audio jacks.
 - b. Reattach the Switch and Battery JST connector to the board.

Remember to follow these steps carefully to maintain the functionality and longevity of your WildSonic Recorder.  