

Using the SM3 Microphone to SM2 Adapter

Introduction

The **SM3 Microphone to SM2 Adapter** is designed to allow the use of the new and improved SM3-U1 Ultrasonic Microphone with the SM2BAT+ system. The SM3-U1 Ultrasonic Microphone has a differential output to reduce noise interference, which is not compatible with the input to the SM2BAT+ system. This adapter converts the signal to a compatible signal.



Using the Adapter

The adapter includes a 3m cable for connection to the SM2BAT+. This reversible cable has a 3-pin connector and attaches to the 3-pin connector on the adapter. On the reverse side is a 5-pin connector for attachment to the SM3-U1 microphone. You can extend the length on the microphone side with any 5-pin SM3-U1 extender cable and you can extend the length on the SM2BAT+ side with any 3-pin SM2 extender cable. The total length of cable on both sides of the adapter should not exceed 100m.

NOTE: For maximal immunity from EMI interference, long cables should be attached to the microphone side of the adapter.

The adapter and its connections are fully weatherproof but should not be submersed in water.

The SM3-U1 Microphone includes circuitry with gain in the microphone; therefore a lower gain should be used on the SM2BAT+ than recommended for the older microphones. 12 dB gain should be used for general deployments and 0 dB for deployments with bat activity expected very close to the microphone such as is in a cave roost.

Specifications

- Length of Pipe: 7.00 inches (178 mm)
- Length Including Connectors: 7.75 inches (197 mm)
- End Cap Diameter 1.63 inches (41 mm)
- Center Diameter: 1.25 inches (32 mm)
- Weight: 6.4 Ounces (180 grams)
- Operating Temperature: -4°F to 122°F (-20°C to 50°C)

NOTE: The adapter also allows the use of the new SM3-A1 Acoustic Microphone with SM2BAT+ systems.