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MB1 Digital Wireless Microphone Transmitter Instruction Manual

Zaxcom Inc.
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Zaxcom Transmitter Operating Instructions

Initial draft copy

The external connections on the MB1 transmitter consist of a 4 pin microphone connector and an SSMA antenna connector. Only use the proper antenna and microphone supplied by Zaxcom. Do not operate the transmitter without the antenna. When mounting the transmitter be sure to always leave at least 2.5 cm clearance between the antenna and any other objects.

The user interface for the transmitter consists of 3 LED digits and 4 buttons:

PWR = Power on/off: Hold this key for 3 seconds to turn the transmitter on or off.

FNCT = Function/menu page select: Press to cycle through each menu page.

INC = Increment the current parameter selected by the FNCT key.

DEC = Decrement the current parameter selected by the FNCT key.

BATTERY

The battery module consists of a 4 Volt Lithium Ion rechargeable battery. The battery slides on from left to right and snaps in place. In order to remove the battery module, firmly slide the silver battery release up and then slide the battery to the left.

Nominal operating voltage: 3.8 volts at 320 milliamps

Maximum RF output power: 50 milliWatts

Antenna impedance: 50 Ohms

When the battery is in place, the unit will boot up in about 2 seconds. The display will default to a pacifier mode where the INC and DEC keys have no function and a single center LED segment stripes across the screen every second. If this display does not come up after the battery has been installed, check to be sure the battery is fully charged. The battery must supply between 3.4 and 4.5 volts for the transmitter to operate properly. If the battery voltage falls below 3.3 volts the transmitter will partially power down in a reset mode. To prevent permanent damage to the battery, do not leave the battery in place so that it fully discharges.

Transmitter Menu Pages

The Transmitter has a few menu pages which allow the user to change various settings. Note that the transmitter will reset all of its settings back to factory default when powered up.

PACIFIER PAGE

At power-up the transmitter will display a pacifier page. The INC and DEC keys have no functionality in this page.

AUDIO GAIN PAGE

Press the FNCT key once and the LEDs will go blank. When audio is applied to the microphone input the LEDs will display the audio level. The mic preamp gain may be adjusted in this page by pressing the INC or DEC keys repeatedly. The mic gain is set to maximum at boot up and should provide normal operation at this setting.

CHANNEL SELECT PAGE

Press the FNCT key again to display the Channel Select page.

This page will display the current channel code. To change channels press the INC and DEC keys.

The transmitter will operate at 1 of the 16 channels (spaced 1.920 MHz) as shown below:

Center = 652.32 MHz
636.96 = channel 0
638.88 = channel 1
640.80 = channel 2
642.72 = channel 3
644.64 = channel 4
646.56 = channel 5
648.48 = channel 6
650.40 = channel 7
652.32 = channel 8
654.24 = channel 9
656.16 = channel A
658.08 = channel B
660.00 = channel C
661.92 = channel D
663.84 = channel E
665.76 = channel F

TONE and ID CODE SELECT PAGE

This page allows the user to cause a 2 kHz sine wave to be transmitted instead of normal microphone audio. The transmitter boots up in TONE=OFF as its default mode.

Press the INC key and then the DEC key to turn off the test tone.

Zaxcom Battery Charger Operating Instructions

The battery charger runs from about 12 Volts at 1.5 amps when in rapid-charge mode.

Place a battery in the slot and the green LED should light. In a few seconds, the yellow LED should light indicating the battery is in high-current charge mode. When the battery is done charging all LEDs should go off. The transmitter batteries will last about 4 hours when fully charged. Be sure to remove the batteries from the transmitter before they become completely discharged to prevent damage to the battery.