Messager USB
by
Nel-Tech Labs, Inc.

Installation & User Manual
Introduction:

The Messager USB is a state-of-the-art digital audio playback device designed to provide a continuous-play audio source for message-on-hold, background music, or any other audio application where high-quality audio playback is required. Messages are stored on industry standard USB flash drives of 16MB and larger.

Unpacking and Inspection:

Before you begin installation, unpack and verify you have all the correct parts.

(1) Messager USB (or USB Plus)
(1) USB flash drive
(1) 12VDC @ 500mA power supply
(1) Instruction manual
(1) RCA to RCA cable
(1) 1/8” Adapter
(2) Wall mount screws
(4) Rubber feet

If you are missing any of these parts STOP and call your dealer.

Important Notes:

Some USB drives have an indicator LED - This LED may blink slow, fast or may stay solid during playback. Any description in the manual about the LED is referring to the BLUE STATUS LED on the player.

If unit is equipped with Sonocrypt Level 3 encryption then it will only play encrypted MP3 files. Talk to your dealer or service provider for more information.
Messager USB Layout Summary:

Front of Unit

SPEAKER - The SPEAKER switch can be turned ON and OFF to monitor audio playback. The switch has no effect on the audio output connections on the rear of the unit. Switch should normally be kept OFF.

USB JACK - The USB drive is inserted here to play or load audio. If insertion of drive is difficult, turn the drive over and try reinserting. Drive should slide into jack smoothly.

STATUS - The STATUS indicator is a BLUE LED that during normal operation will be SOLID during playback. If there is a problem with the drive, it is not inserted or is empty, the LED will BLINK.

Rear of Unit

VOLUME - This pot is used to control the 8Ω and 600Ω output level of the stored messages. Volume up is clockwise, volume down is counter-clockwise.

8Ω and 600Ω OUTPUT - This jack connects to the INPUT of the phone systems MOH port or PA system. Depending upon the systems impedance use either the 8Ω or 600Ω jack - **DO NOT USE BOTH!**

12VDC - This is where the supplied 12VDC @ 500mA power pack is connected.
Installation:

The Messager USB should be installed using the following steps outlined below:

**Step 1:** Wall or shelf mount the unit. Screws and rubber feet are supplied in the accessory kit.

**Step 2:** If connecting to an amplifier make sure it is turned OFF for this part of the installation.

**Step 3:** Connect a RCA cable (supplied in the accessory kit) to the OUTPUT jack on the rear of the unit. Depending upon the required impedance use either the 8Ω or 600Ω output RCA jack. Connect the other side to the MOH port on the phone system, PA system or speaker.

**Step 4:** Insert USB media. If insertion of drive is difficult, turn the drive over and try reinserting. Drive should slide into jack smoothly. See Message Programming & Operation section if USB media is blank.

**Step 5:** Attach the included power pack to a wall or power strip receptacle, then attach the other end to the jack on the rear of the unit labeled 12VDC.

**Step 6:** If any amplifiers were turned OFF during installation then turn them back ON now.

**Step 7:** Adjust the volume level pot labeled VOLUME on the rear of the unit. Depending upon the application either call into the phone system and be placed on hold OR listen to the PA systems speakers to fine tune volume. Volume up is clockwise, volume down is counter-clockwise.

Wiring Diagram
**Message Programming & Operation:**

All messages that are available for the Messager USB play are stored on an industry standard USB flash drive. Messages should be formatted as a mono MP3 file not to exceed 128Kbps @ 48KHz. Follow these steps to add or remove files from a USB flash drive.

**Step 1:** Plug the USB flash drive into an available USB port on a any PC or MAC compatible computer. The flash drive should show up as a “Removable Disk” on the computer.

![Removable Disk](image)

**Step 2:** Drag ‘n’ drop the file(s) to the USB flash drive. If removal of files are required then select the files and press the <delete> key on the keyboard.

**Step 3:** Remove the USB flash drive from the computer.

**Step 4:** Plug the USB flash drive into the Messager USB for playback.

If the USB drive ever needs to be erased completely then it can be formatted using your computer. Drives smaller than 2GB can be formatted using FAT, and drives 2GB or larger can use FAT32.

**Note:** Audio files should be named using alpha-numeric labels (A-Z, 0-9). Any other characters or symbols, such as +, -, /, (, ), & etc. should NOT be used.

### Troubleshooting:

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status LED - OFF</td>
<td>Power pack not plugged in or on a switched outlet</td>
</tr>
<tr>
<td>Status LED - BLINKING FAST</td>
<td>No audio on unit or USB media not inserted correctly</td>
</tr>
<tr>
<td></td>
<td>Files are encrypted with Sonocrypt, or improperly named</td>
</tr>
<tr>
<td>MOH message not playing</td>
<td>Check USB media for missing, improperly named, or encrypted file</td>
</tr>
<tr>
<td></td>
<td>Check volume output level by adjusting the VOLUME pot</td>
</tr>
<tr>
<td></td>
<td>Check OUTPUT connection from unit to phone or PA system</td>
</tr>
<tr>
<td></td>
<td>Try switching between the 8Ω and 600Ω OUTPUT connections</td>
</tr>
<tr>
<td>Skipping over files</td>
<td>File not compatible with unit/encrypted file</td>
</tr>
<tr>
<td>Popping audio</td>
<td>File was encoded using too high of a bit-rate</td>
</tr>
<tr>
<td></td>
<td>File incompatible with unit</td>
</tr>
<tr>
<td></td>
<td>File audio starting too close to beginning of file</td>
</tr>
<tr>
<td>Distorted audio</td>
<td>Check to make sure volume is not too high</td>
</tr>
<tr>
<td></td>
<td>Check MP3 file quality</td>
</tr>
<tr>
<td></td>
<td>Try switching between the 8Ω and 600Ω OUTPUT connections</td>
</tr>
<tr>
<td></td>
<td>File was encoded using too high of a bit-rate</td>
</tr>
<tr>
<td></td>
<td>File was encoded using too low of a bit-rate</td>
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<tr>
<td></td>
<td>File incompatible with unit</td>
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</tbody>
</table>
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CONTACT: Please contact Nel-Tech Labs at the address and phone number below to receive a return authorization number and to arrange for the repair or replacement of a flawed part covered by this warranty. Please indicate the Product’s serial number in all correspondence or a RMA authorization number in the absence of a serial number. Nel-Tech Labs, 4 Ash Street Extension, Derry, NH 03038, Phone: 1.603.425.1096.

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FCC Part 15: This equipment has been tested and found to comply within the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of the equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct interference at his own expense. In order to maintain compliance with FCC regulations shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio & television reception.

Changes or modifications not expressly approved by Nel-Tech Labs could void the users’ authority to operate the equipment.

IC ES 003: This Class A digital apparatus complies with Canadian ICES-003 C et appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.
