



iProMOH-One
Installation and User Manual



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50-UM-513-002-00-EN-85

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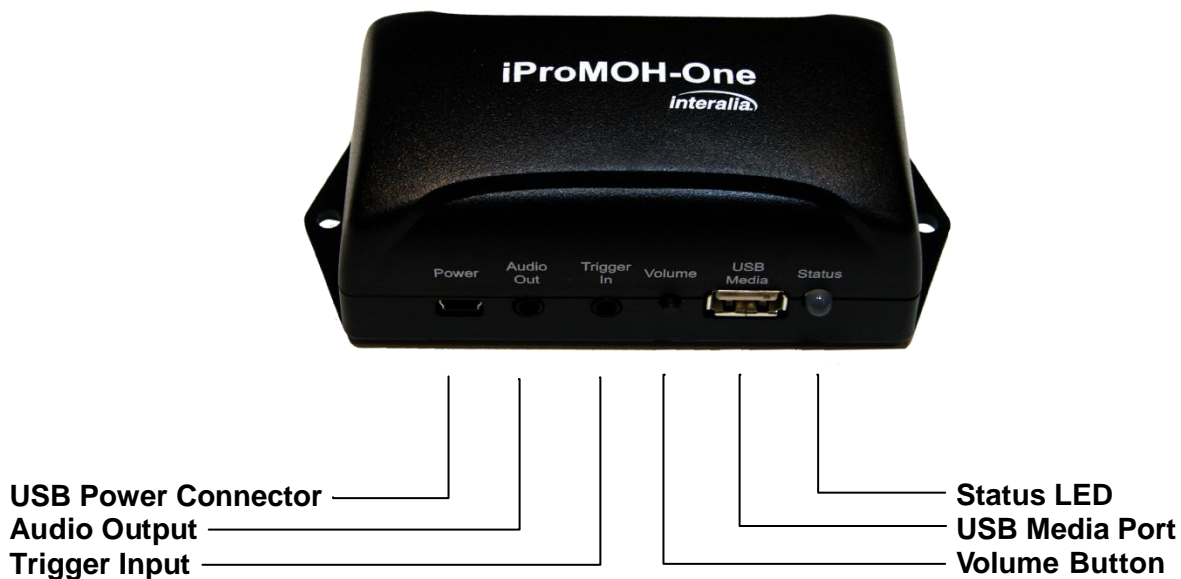
2 iProMOH-One Playback Device

2.1 Included in the Package

- 1x RCA to RCA cable
- 1x USB mini-B to male-A cable
- 1x RCA to 3.5mm audio adapter
- 1x RCA to 2 screw terminal connector
- 1x AC to USB power adapter

2.2 Installation

Affix the iProMOH-One to a smooth surface using the side mounting tabs near the PBX or overhead PA system.



The elements are:

- **USB Power Connector:** The device is powered off the mini-USB with the enclosed power supply.
- **Audio Output:** 3.5mm Line-level audio output from the TIP (RIGHT) channel.
- **Trigger Input:** 3.5mm Trigger input. Requires a stereo connection, with RING (LEFT) channel used as the trigger. The TIP (RIGHT) channel is utilized to auto-detect the connection. Utilizing a monaural connection will prevent the trigger function from operating. The media file is played each time the trigger is latched. If the trigger is continuously latched, the unit operates the same as in non-trigger mode: Media plays and then there is a “Time Between Repeats” delay before the media is played again.
- **Volume Button:** The volume is incremented from 10% to 100 and back to 10% in a circular manner.
- **USB Media Connector:** Utilized for loading content and firmware updates.
- **Status LED:** Shows the state of the iProMOH-One based on the color displayed. See the "**Status LED Table**" on the following page for details about the flashing patterns and their meaning.

Connect the USB cable to the iProMOH-One and the wall adaptor and plug into the wall outlet. The status LED will illuminate amber as the device boots, and the media content is verified. After a short time, the status LED will begin flash green, and the default royalty free music will play from the audio output connector.

IMPORTANT! For optimum operation and to meet safety requirements, the iProMOH-One ***MUST ONLY BE POWERED*** from the supplied power adaptor.

2.3 Status LED Table

Normal Operation / Booting	
Flashes Green on 1 second intervals.	System OK
Solid Amber.	System booting
Solid Red.	Unit defective.
Flashes Amber on 1 second intervals.	Media stale date reached
Alternates between Red and Green on 1 second intervals.	No valid media loaded.
Flashes Green on ½ second intervals.	Waiting for playback to start.
Media Update Operation	
Alternated between Red and Green on 1 second intervals.	Media has already been updated with this file.
Alternated between Amber and Green on 1 second intervals.	Searching USB stick / validating update file
Flashes Red on 1 second intervals.	Configuration file load/save failure, update file corrupt
Alternated between Amber and Red on 1 second intervals.	Media update in progress
Flashes Red on ½ second intervals.	Update file not found for this iProMOH
Solid Green	Media update success
Firmware Update Operation	
Alternated between Amber and Red on 1 second intervals.	Firmware update in progress.
Alternated between Amber and Green on 1 second intervals.	Searching USB stick / validating update file
Solid Red	Firmware update failed
Flashes Green on ½ second intervals.	Update not needed.
Flashes Amber on ½ second intervals.	Update successful
LED off for up to 5 seconds	Programming flash, DO NOT disconnect power during this time

2.4 Diagnostics

To aid in diagnostics, the iProMOH-One will write a “diagnostics.txt” file to the USB stick once it is inserted. The file can be opened in any text editor, and lists the current settings and configuration of the device.

3 Creating Content for the Device

To create content for the iProMOH-One, download the Simple Audio Mixer application from:

<http://www.interalia.com/downloads/SimpleAudioMixerInstall.zip>

The operation manual for Simple Audio Mixer can be found in the “Manual” section of the iProMOH-One page:

<http://interalia.com/ipromoh-one.php>

4 Loading Your Content onto the iProMOH-One

IMPORTANT!

- A Simple Audio Mixer file with a “Service Provider Key” of all zeros and the “Device ID” of all zeros (unlocked, playback on all devices), **MUST NOT** be present on a USB stick that contains other content files.
- The USB stick **MUST NOT** contain multiple Simple Audio Mixer files for the same Device ID.

To update the iProMOH-One media:

- 1) Power on the iProMOH-One, wait for it to boot.
- 2) Copy the Simple Audio Mixer media file to the root folder of a USB flash drive. Multiple Device ID files can be present on the drive, as long as they meet the criteria stated above.
- 3) Insert the USB stick into the USB port of the iProMOH-One. Once the stick is detected, playback will stop, while the update occurs. Consult the “**Status LED Table**” for expected LED patterns during this process.
- 4) If successful, the status LED will flash green, and playback will resume.

5 Upgrading Firmware

The latest firmware for the iProMOH-One can be obtained from Firmware/Software section on the Interalia site:

<http://interalia.com/ipromoh-one.php>

To update the iProMOH-One firmware:

1. Power on the iProMOH-One.
2. Copy the firmware file to the root folder of a USB flash drive. There **MUST NOT** be more than one firmware file in the root directory of that drive.
3. Insert the USB flash drive into the iProMOH-One to start the update. Consult the "**Status LED Table**" for expected LED patterns during this process.
4. The status LED will TURN OFF for approximately 3-5 seconds while the update completes. **DO NOT POWER OFF OR UNPLUG THE USB STICK DURING THIS TIME.** Unplugging the unit will result in a non-function device.
5. Once the upgrade is completed, the iProMOH-One will reboot, and start playback.

NOTE: *To eliminate confusion of the upgrade process status, it is recommended that no Simple Audio Mixer media files are on the USB stick at the same time.*

6 Technical Specifications

Audio Play Time:

- 12 minutes, stored in non-volatile flash memory (no back-up battery required)

Audio Formats:

- Audio storage format: .WAV
- Decoded audio sampling frequency: 22 KHz
- Supports the following file formats,
 - AIFF (*.aiff)
 - FLAC (*.flac)
 - PCM (*.pcm)
 - MPEG4 (*.mp4, *.mpeg4)
 - MP3 (*.mp3)
 - WAV (*.wav)
 - WMA (*.wma)
 - OGG (*.ogg)

Audio Inputs:

- None

Audio Outputs:

- Single channel, 3.5mm line level output.
- Output Impedance (8 Ω load, 1 kHz test tone): $Z=42 \Omega$
- Output Impedance (600 Ω load, 1 kHz test tone): $Z=75 \Omega$
- Output Impedance (10 k Ω load, 1 kHz test tone): $Z=125 \Omega$

Trigger Inputs:

- Single trigger input utilizing the LEFT channel on a stereo connector.

Play Options:

- Single music or message file only.

Power Supply:

- AC to USB adapter with multi-region connectivity
- Input: 100-240 VAC 50/60 Hz, 0.2 A Output: 5 VDC @ 1A

Dimensions:

- 124mm L x 57mm W x 40mm H (4.88" L x 2.23" W x 1.59" H)

Weight:

- 73 grams (2.6 oz.)

Specifications are approximate and subject to change without notice.