

**Installation & User  
Manual for the  
Model TM1-OVTRI  
Sound Monitor**

Issue 1118



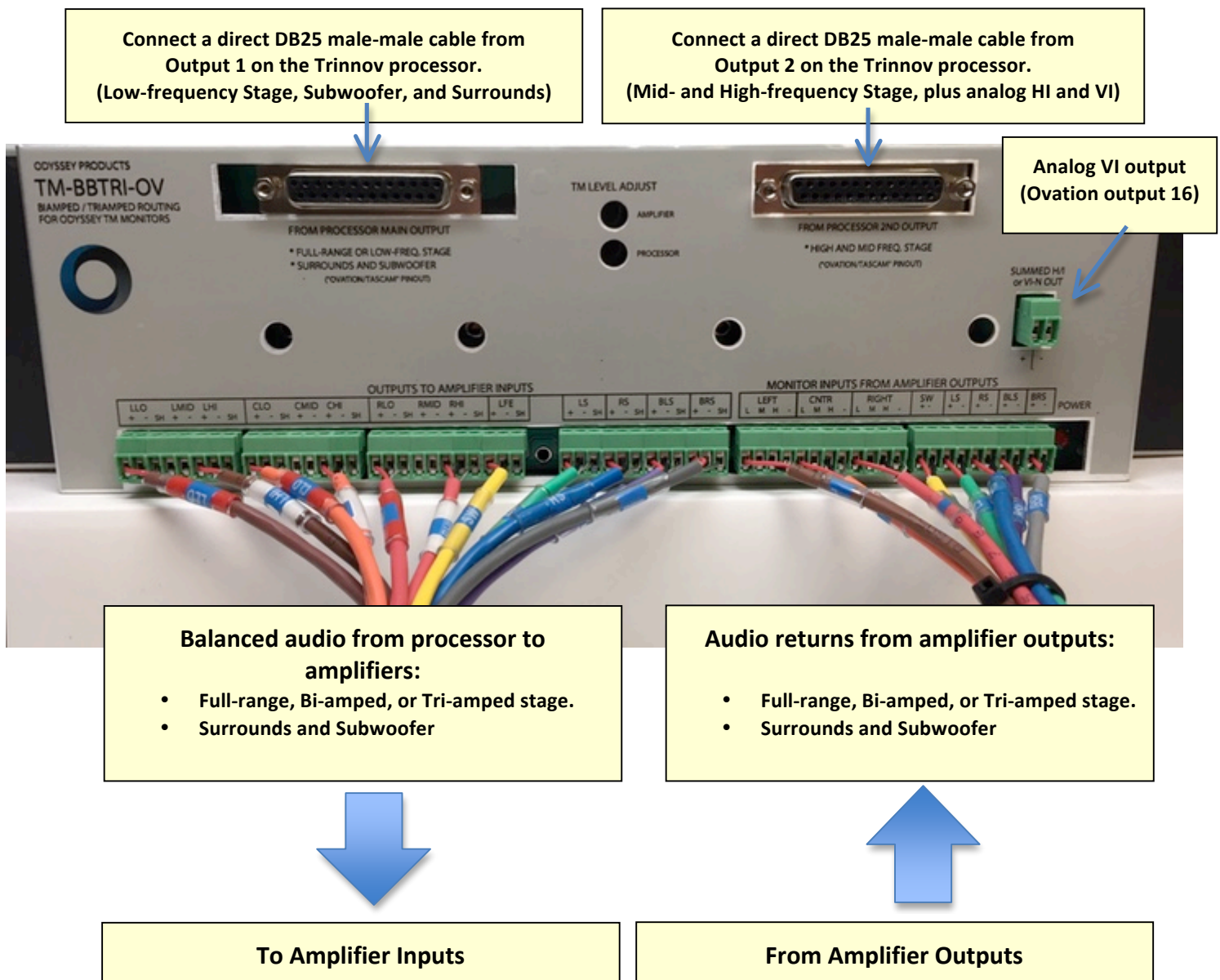
## TM1-OVTRI Backboard

This TM1 monitor is equipped with the Odyssey add-on backboard module: Model TM-BBTRI-OV.

This module provides a clean/heat termination point for the following inputs and outputs:

- \* Simple DB25 direct cable-connection from a bi-amped or tri-amped Trinnov Ovation processor.
- \* Plug-able terminal blocks for up-to-triamped amplifier feed cables.
- \* Plug-able terminals for up-to-triamped returns from amplifier outputs

Below is a picture of the backboard module, with a typical biamped harness attached:



Odyssey Products Inc.

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### Regarding the “Outputs to Amplifier Inputs” section:

This terminal section is in parallel to the input DB25 connectors on this “OV” module. These balanced audio outputs are ALWAYS present, even if power is removed from the monitor.

There are terminals available for stage channels that are full-range, bi-amped, or tri-amped. (NOTE: For full range signals, you can use the “LO” section.

OUTPUTS TO AMPLIFIER INPUTS																	
LLQ	LMID	LHI	CLO	CMID	CHI	RLQ	RMID	RHI	LFE		LS	RS	BLS	BRS			
+	-	SH	+	-	SH	+	-	SH	+	-	SH	+	-	SH	+	-	SH

Each channel is a balanced audio signal (Plus, Minus, and shield).

### Regarding the “Monitor Inputs from Amplifier Outputs” section:

This terminal section accepts return signals from the amplifier outputs.

MONITOR INPUTS FROM AMPLIFIER OUTPUTS																					
LEFT				CNTR				RIGHT				SW		LS		RS		BLS		BRS	
L	M	H	-	L	M	H	-	L	M	H	-	+	-	+	-	+	-	+	-	+	-

For each stage channel:

L = Low frequency  
 M = Mid frequency  
 H = High frequency  
 - = Amp output “-“ or “GND”

NOTE: All of the “-“ terminals are connected, so in most installations, only one amplifier “-“ needs to be connected to the monitor.

Call Mark at Odyssey with any questions regarding TM add-on backboards and harnessing information.

**NOTE: The following pages are for the base-model TM-1 monitor. The information regarding the small input/output terminal boards does not apply to this monitor version.**

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The **TM-1** Monitor is a low-cost 7.1 channel booth sound monitor. Features include:

- Small, light package. 2 rack space height.
- Eight separate signal present indicators.
- Input terminal boards for monitoring processor output signals, and for amplifier outputs. (Accepts passive, bi-amplified, and tri-amplified amplifier signals.)
- Simple level-adjustment potentiometers for Processor and Amplifier input levels.
- Summed L-C-R analog audio output for Hearing Impaired systems
- Universal-input wall power supply.

### TM-1 Rear View

#### Input Level Adjustments



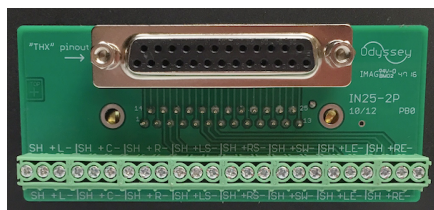
Power Section

Processor Inputs  
"THX" pinout

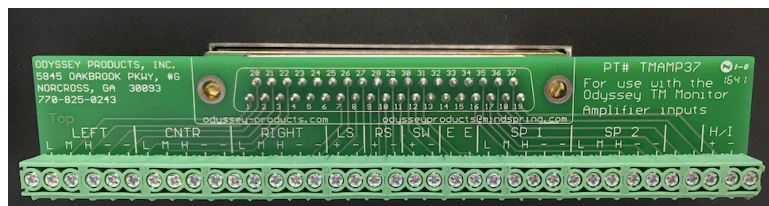
Amplifier Inputs

### Each base-model TM-1 Monitor ships with:

- One **INPUT25-2P** terminal and "Pass-through" board for the processor signals. Features "THX" pin-configured DB25 connector. Also available in "TASCAM/Ovation" pinout.
- One **TMAMP37** terminal board for the amplifier inputs.
- One 20V DC / 2A universal wall power supply.



INPUT25-2P



TMAMP37

Odyssey Products Inc.

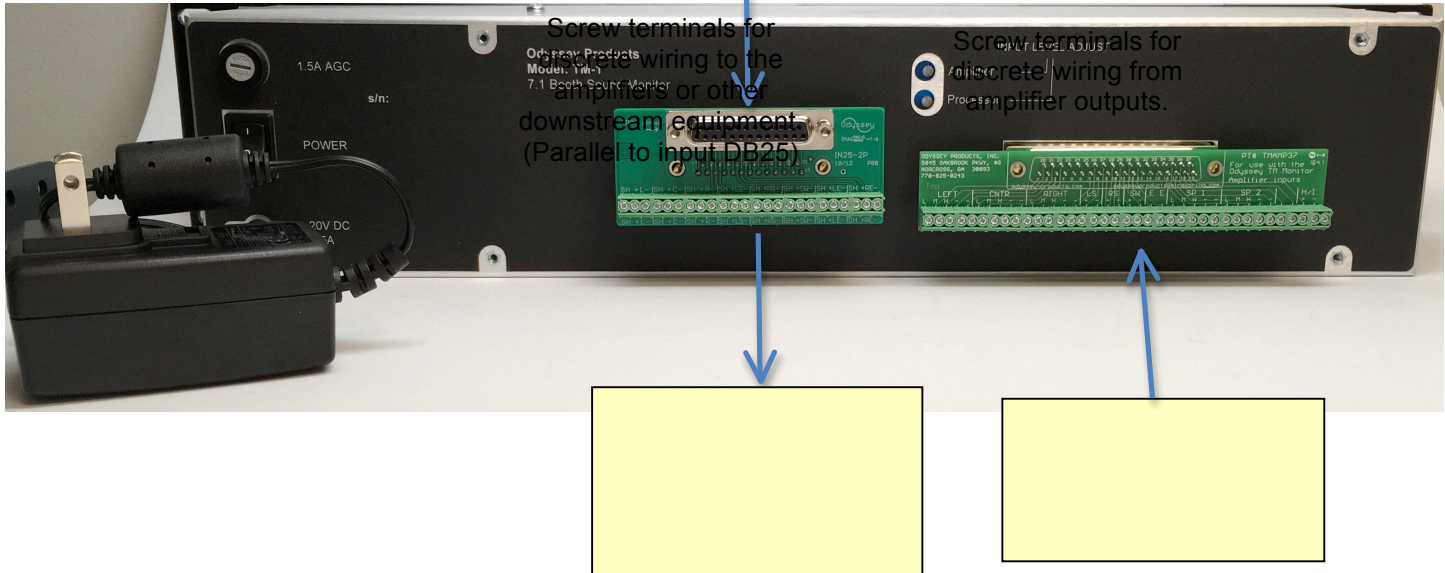
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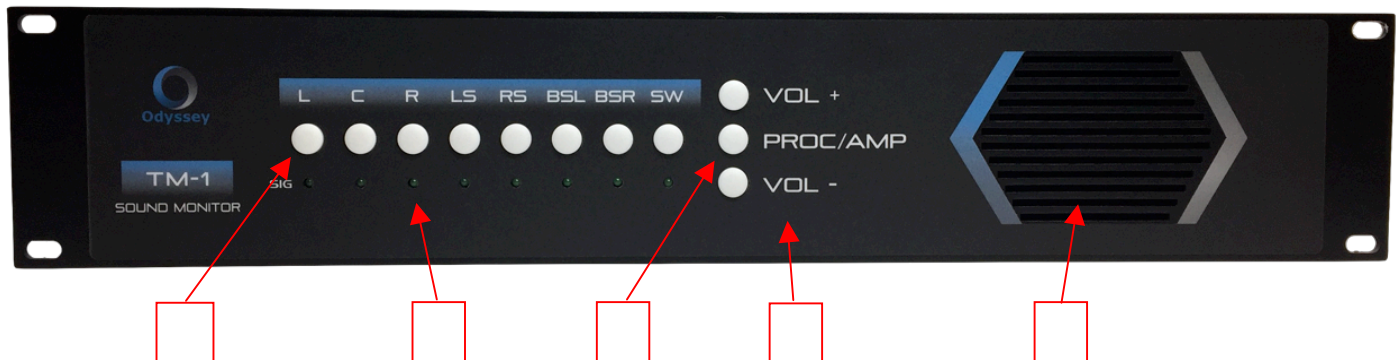


Direct DB25 connection  
from processors such  
as the CP750, JSD-60,  
JSD-80, and others  
with the "THX" pinout.

## Wiring the TM-1 Monitor:



## TM-1 Front Panel Features:



1. *Channel Select Buttons* – Select one or all of the monitored channels..
2. *Signal Present Indicators* – **Green** LED's indicate audio signal on amplifier channels.
3. *Processor/Amplifiers Selector Switch* – Selects whether processor or amplifier inputs. The button changes color depending on the input selected (**Green** and **Red**).
4. *Volume Control* – Digital volume control with two buttons (Up and Down).
5. *Speaker*

### Channel Select Buttons:

Pressing each button toggles the channel ON and OFF. The button for each selected lights **Red**. You can select any or all channels simultaneously.

### Signal Present LED's:

These **Green** LED's indicate audio signal on amplifier channels, and independent of which channels are selected. There is no method of calibrating the LED levels. They are simply a quick-diagnosing tools.

### Processor/Amplifier switch:

Pressing this button toggles the monitor input between Processor input and Amplifier input.

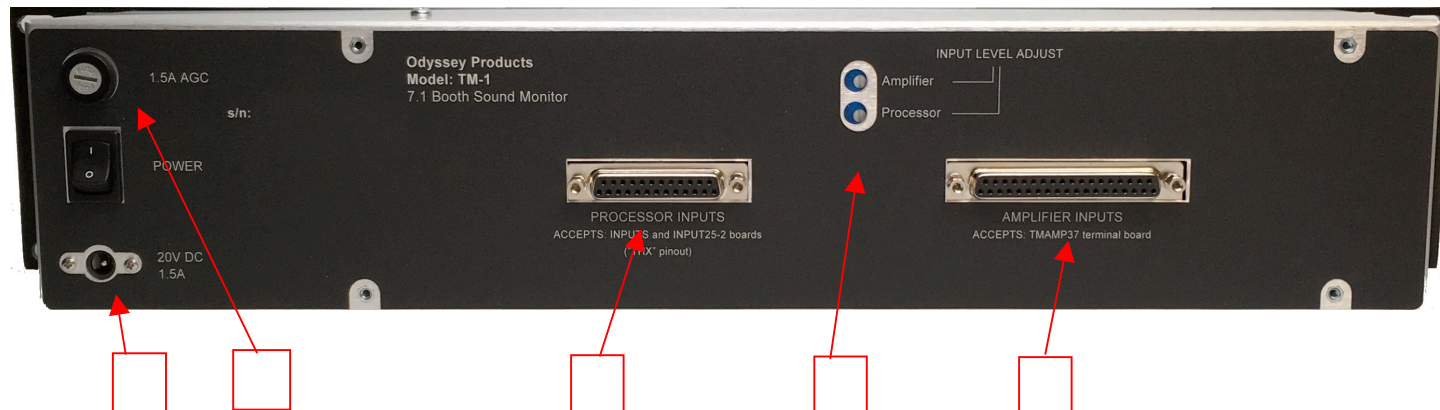
- The button lights **Green** for Amplifier input.
- The button lights **Red** for Processor input.

### Volume Control:

The TM-1 features a digital volume control. Pressing the "VOL +" and "VOL –" buttons raises and lowers the speaker volume.

- **UP:** Pressing or holding the "VOL +" button raises the volume. The **Yellow** LED in this switch pulses with each step. When the volume reaches maximum, this LED stays on.
- **DOWN:** Pressing or holding the "VOL –" button lowers the volume. The **Yellow** LED in this switch pulses with each step. When the volume reaches minimum, this LED stays on.
- **MUTE:** By pressing both "VOL +" and "VOL –" simultaneously, the speaker volume is muted.
- **RESTORE:** Once muted, pressing both volume buttons again simultaneously restores the speaker volume to its last setting.
- **Speaker:** 8-ohm, 8-watt oval speaker.

## Back Panel Features



1. Fuse Holder – accepts fuses 1- $\frac{1}{4}$ " X  $\frac{1}{4}$ " AGC fuses. Replace with 1.5A AGC Fast-Blow fuses.
2. Power Connector – 2.5 X 5mm connector for the external plug-in DC power supply.
3. Processor Inputs Connector – DB25F connector, pin-configured for "THX".
4. Input Level Adjustment Potentiometers – 1 each for processor level and amplifier level.
5. Amplifier Inputs Connector – DB37 female connector, accepts Odyssey TMAMP37 Card.

### Processor Inputs:

The Processor Inputs connector is a DB25 female. It has the same pin configuration as a THX monitor. It will accept the following Odyssey breakout cards: Model **Input 25-2P**.

It can also be directly connected to the Main Output connectors of most modern processors, such as the CP650, CP750, USL JSD-80, JSD-100, and JSD-60 processors.

### Amplifier Inputs:

This connector is a DB37 female. It accepts the Odyssey Breakout Card Model **TMAMP37**. Wires from the amplifier outputs are connected to the terminal strips on the **TMAMP37** card.

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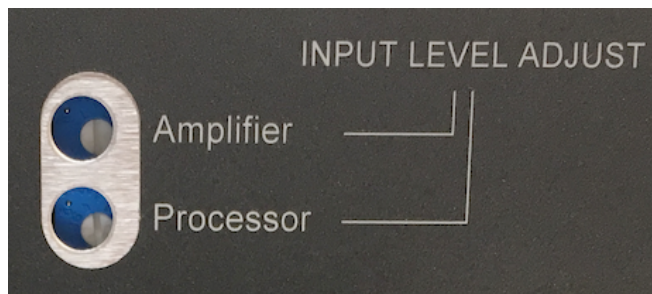
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## Input Level Adjust:

There are two input level control potentiometers that are accessed from the back of the TM-1. There is one for processor levels, and one for amplifier levels. These are used to trim the two sets of inputs until the sound levels match switching between Processor to Amplifier on the front panel.

**NOTE:** When adjusting the input level:

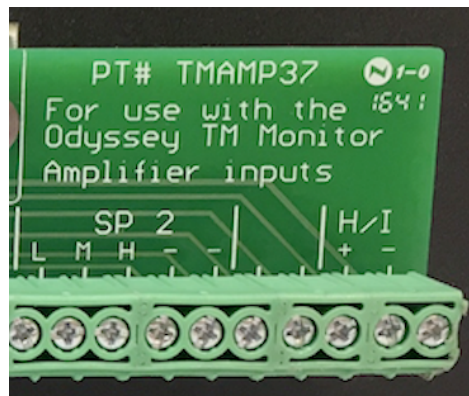
- Raising the gain is achieved by turning each potentiometer **Counter-Clockwise**.
- Lowering the gain is achieved by turning each pot **Clockwise**.



## Summed Hearing Impaired output:

The TM-1 Monitor also provides a Hearing-Impaired output. This output can be used to feed hearing-impaired assisted devices. It is a fixed-level signal formed from summing Left, Center, and Right Channels (internally). This output is not affected by the main Volume Control, or by the Input Level Trim Potentiometers.

This unbalanced audio signal can be accessed on the last two pins of the TMAMP37 terminal board.



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