

WARNING!

DO NOT ATTEMPT TO INSTALL THIS UNIT WHILE IT, OR ANY CONNECTING UNITS, ARE POWERED ON. RISK OF ELECTRICAL SHOCK EXISTS IF ALL UNITS ARE NOT POWERED OFF DURING INSTALLATION. TO PREVENT ELECTRICAL SHOCK OR FIRE HAZARD, DO NOT EX-POSE THIS APPLIANCE TO RAIN OR MOISTURE.

DESCRIPTION:

The IPA™ 75T is a high performance utility amplifier designed to meet the needs of the most demanding fixed installation/PA application. The convenient patch panel layout, coupled with state of the art circuit design assures reliable long-term operation and smooth trouble-free installation.

Twenty five and seventy volt fully isolated line output capability is standard eqiupment. The IPA 75T has been packaged for standard 19" "rack-mount" capability with optional rack-mount kit, and occupies only two vertical rack spaces.

FEATURES

POWER OUTPUT:

• 75 Watts RMS into 4 ohms

CONTROLS AND INDICATORS:

- Level control
- Subsonic filter switch
- Power on LED
- Power switch

OUTPUTS:

- · 4 ohm screw terminal direct output
- 8 ohm balanced output
- · 25 volt balanced output
- 1V/600 ohm balanced output
- 70 volt balanced output
- AC convenience outlet



LEVEL (1)

Controls the volume level of the system.

SUBSONIC FILTER (2)

The ''in'' position of this switch activates the 18 dB/octave subsonic filter at 42 Hz. The ''out'' position removes the subsonic filter from the system.

POWER ON LED (3)

Indicates when AC power is being supplied to the unit.

POWER SWITCH (4)

Depress to "on" position to turn on.



LINE INPUTS (5)

The input connections are configured to allow balanced and unbalanced signals to be connected to the system. See figures 1 and 2.

EXTERNAL MASTER VOLUME (6)

These terminals allow connection of an external volume control. To gain complete control of volume from an external volume control, the front panel "level" control must be set to maximum. The external volume control should be connected as shown in figure 3.

RCA INPUT JACK (7)

The RCA line input is paralleled with other inputs. See figure 4 concerning use of this jack.

1/4" INPUT JACK (8)

The 1/4" phone input allows balanced operation (RTS).

OUTPUTS (9)

A direct output, as well as several transformer outputs, are provided to allow the proper interface between the amplifier and the speaker system. The direct output allows direct connection to a 4 ohm speaker system. To use this output, disconnect the jumper between the OUT terminal and the XFMR terminal. Connect the speaker (or speakers) between the GND terminal and the 4 ohm terminal. 8 ohm, 25 volt and 70 volt balanced outputs are also provided. To use these outputs, the jumper between 4 ohm and XFMR must be installed. For 8 ohm speaker systems, connect between the COM terminal and the 8 ohm terminal. 25V and 70V outputs are also provided for "constant voltage" speaker distribution systems. The connection for distributed systems is between the COM terminal and either the 25V or 70V terminals, depending on the required system voltage. One more output is provided on the IPA 75T amplifier. This is a balanced, transformer isolated line level output that is provided for direct connection to "music on hold" systems, booster power amplifiers, etc. This output is designed to deliver 1V RMS into a 600 ohm load. See figures 5 through 8 for possible output connections.

INSTALLATION INFORMATION POWER HANDLING AND GROUNDING:

For your safety, we have incorporated a 3-wire line (mains) cable with proper grounding facilities. It is not advisable to remove the ground pin under any circumstances. If it is necessary to use the equipment without proper grounding facilities, suitable grounding adaptors should be used. Less noise and greatly reduced shock hazard exists when the unit is operated with the proper grounded receptacles.

INSTALLING THE RACK-MOUNT EARS

This unit can be rack-mounted with optional rack-mount kit. To attach the rack-mount ears, simply remove the three screws already in the front on either side of the unit and align the ears with the rack-mount flange forward of the unit. Replace the screws and tighten securely, being careful not to overtighten. The unit then mounts in a standard 2 space 19" rack. You may find it desirable to remove the rubber feet from the bottom of the unit in rack-mount installations. The rack-mount ears may also be used to secure the unit in a shelf application to deter theft.

RACK-MOUNT RECOMMENDATION

To provide adequate ventilation, leave at least one rack space between units when multiple amplifiers are mounted in the same rack.

ARCHITECTURAL & ENGINEERING SPECIFICATIONS

The power amplifier shall have one input that has provisions for both balanced and unbalanced signals. Connections for the unbalanced input shall be provided via an (RTS) 1/4" jack or by barrier strip connections. Connections for the unbalanced input shall be provided by the (RTS) 1/4" jack, the barrier strip connections, and the RCA phono jack.

Provisions for an external master volume control shall be made via barrier strip connections on the back panel. The unit shall be packaged in a rugged metal chassis 17" wide by 3 1/2" high by 15 3/4" deep (including external heatsinks). The unit shall operate from standard 120 volts AC, 60 Hz power. The power amplifier shall be capable of delivering 75 watts into 4 ohms and 8 ohms, as well as providing 25 volt and 70 volt line outputs. The unit shall be capable of delivering 40 Hz to 20 kHz, +0/-2 dB into 4 ohms at its direct output at 0.2% or less distortion with system hum and noise at least 95 dB below rated output. The unit shall be called the Peavey Architectural Acoustics Division model IPA 75T.

Rated Power & Load:

Direct Output: 75W RMS @ 4 ohms Transformer Output: (Fully Isolated) 75W RMS @ 8 ohms (25V)/66 ohms (70V)12 watts RMS

Distortion:

0.2% THD @ rated power



Frequency Response:

Direct Output: +0/-2 dB 40 Hz to 20 kHz

1.0V RMS

Hum & Noise

Greater than 95 dB below rated

Subsonic Filter

Provides an 18 dB per octave roll off of low frequencies with the 3 dB point at 42 Hz









Figure 4 RCA Phono Jack Configuration of Barrier Strip



Figure 5: 70V "Constant Voltage" Distribution System



Figure 6: 1 V Balanced Output Connectors





LIMITED WARRANTY

Peavey Electronics Corporation warrants to the original purchaser of this new Architectural Acoustics product that it is free from defects in material and workmanship. If within one (1) year from date of purchase a properly installed product proves to be defective and Peavey is notified, Peavey will repair or replace it at no charge. (Note: Batteries and patch cords not covered.) "Original purchaser" means the customer for whom the product is originally installed.

Damage resulting from improper installation, interconnection of a unit or system of another manufacturer, accident or unreasonable use, neglect or any other cause not arising from defects in material and workmanship is not covered by this warranty. The warranty is valid only as to products purchased and installed in the United States.

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Peavey's liability to the original purchaser for damages for any cause whatsoever and regardless of the form of action, is limited to the actual damages up to the greater of Five Hundred Dollars (\$500) or an amount equal to the purchase price of the product that caused the damage or that is the subject of or is directly related to the cause of action. This limitation of liability will not apply to claims for personal injury or damage to real property or tangible personal property allegedly caused by Peavey's negligence. For information on service under this warranty, call a Peavey customer service representative at (601) 483-5376.





Features and specifications subject to change without notice.

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