

SUPERSCOPE®



PAC770 / PAC750 Professional Sound System

The Superscope PAC770 and PAC750 (pre-amplifier only) provide a remarkably easy to use, feature-rich, and cost-effective installation solution for applications requiring music and public address. In one durable, commercial-grade product (taking up just 4U of rack space) the PAC770 combines four

quality system components. This all-in-one unit offers a CD player with music playback features specially designed for the performing arts, a full-featured cassette recorder, an elegant mixer that any novice can handle with ease, and a powerful and reliable amplifier.

INTEGRATED MIXER

No stand-alone mixer is as simple to operate in a variety of commercial installations as the one built into the PAC770 and PAC750.

- **Multiple Inputs** – Simultaneous independent control of 4 XLR mic/line inputs, tape, CD, and stereo aux input.
- **Gain Control** – The amount of signal each input sends to the mixer can be easily adjusted using each input's gain control knob. Easier still, the auto gain feature will set an optimal level for the mic/line inputs.
- **Final Output Control** – Master output volume, EQ, and balance are simply controlled from the front panel, while individual mic/line EQ, panning, phantom power, and input attenuation are designed to be "set-once" on the back panel.
- **Effect Loop** – Parametric EQ and speaker processing can be looped through the unit.
- **Voice Reduction** – A voice reduction circuit can reduce the lead vocals in most music from the CD, tape and aux sources.
- **Simplified Auto Ducking** – For paging applications, the unit can be set to automatically duck music when any mic/line input is active, either eliminating levels or reducing them by -15dB.

AMPLIFIER

The PAC750 is built with a preamplifier only, enabling flexible installation. The PAC770, however, comes with a high performance amplifier. It includes:

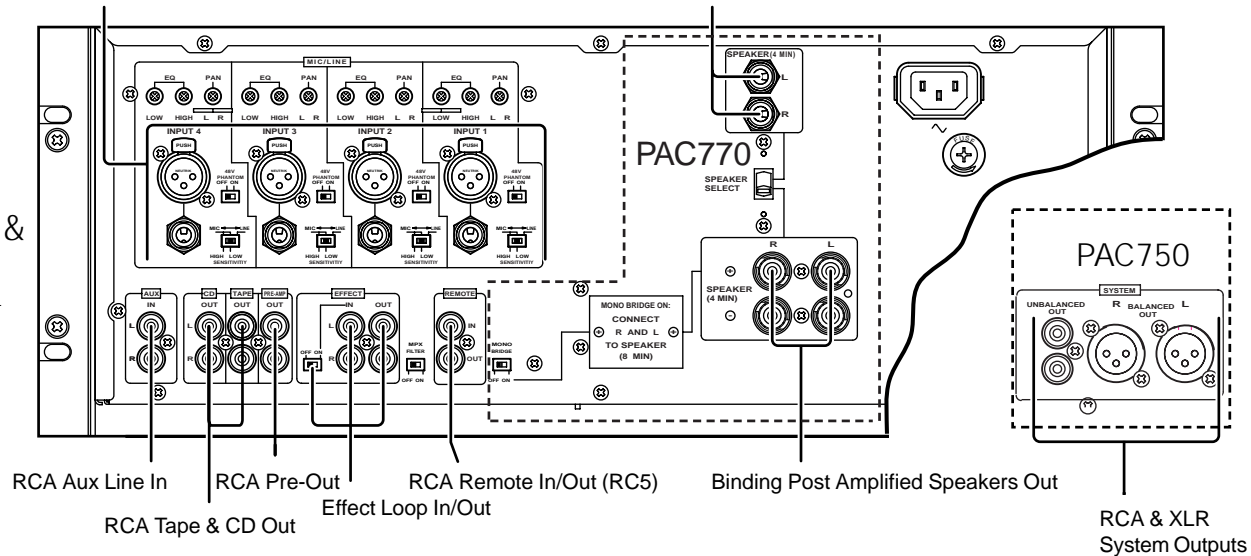
- **Stereo or Mono Bridge Modes** – The unit allows stereo or monoaural amplification.
- **Power Protection Circuit** – The amplifier is designed to protect itself from running at levels that can cause damage.

CD PLAYER

Innovative features for controlling music playback have been built into the CD player.

- **Plays CD-RW** – The built-in CD player is among the first that can play finalized CD-RW discs.
- **Tempo Control** – Playing speed can be adjusted from -50% to +50% without changing the key.
- **Key Control** – The key of a CD can be altered by ± 1 octave, in $1/16^{\text{th}}$ note increments, without changing tempo.
- **A-B Loop** – Audio loops can be defined within a CD track utilizing the A-B button.
- **Program Play** – A selection of tracks or a single track can be programmed for custom playback.
- **Single Track Play** – Automatically cues tracks to audio and after playing, cues up the next track.

PAC770 &
PAC750
REAR PANEL



CASSETTE RECORDER

Loaded with professional features, the tape deck provides exceptional versatility along with reliable operation.

- **Quick Auto Reverse** – Optical sensing of leader tape will reverse the direction of tape transport, for seamless double-sided recording.

- **Pitch Control** – Playback pitch (tempo + key) can be adjusted from -12% to +12%.
- **Auto Record Level Control** – The unit can automatically set the optimal record level for worry-free recording.

TECHNICAL SPECIFICATIONS

INTEGRATED MIXER

INPUT/OUTPUT LEVELS

Mic High Input Level / Impedance	4mV/10kΩ
Mic Low Input Level / Impedance	40mV/10kΩ
Phantom Power Output	+48V
Line Input Level / Imp	1000mV/10kΩ
Aux Input Level / Imp	1000mV/47kΩ
Pre-Out Output Level/Imp (PAC770)	200mV/1.5kΩ
System RCA Output Level/Imp (PAC750).....	1000mV/1.5Ω
System XLR Output Level/ Imp (PAC750).....	1000mV/150Ω

EQ - MASTER & MIC/LINE

Low Band Center	100Hz
Mid Band Center	1kHz
High Band Center	15kHz

AMPLIFIER (PAC770)

Frequency Response	5 - 30kHz (±3dB)
THD.....	0.08%

STEREO POWER OUTPUT (RMS continuous <0.08% THD)

4W Speaker Load	110W+110W
8W Speaker Load	90W+90W

MONO BRIDGE POWER OUTPUT (RMS continuous <0.08% THD)

8W Speaker Load	210W
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CD PLAYER

Frequency Response.....	20Hz to 20KHz (± 0.3dB)
Conversion.....	Bitstream (1-bit)
Oversampling	32x
Overall S/N	70dB
Channel Separation	70dB

THD.....	<0.005%
Wow and Flutter	Below Measurable Limits
Output Level/Impedance.....	2V/1KΩ

CASSETTE RECORDER

Number of Heads per Deck.....	2
Head Type	Hard Metal Alloy (Rotary)
Number of Motors per Deck.....	2
Motor Type	DC Servo
Wow and Flutter (JIS weighted)	<0.07%
Line Output Level / Impedance	500mV/1kΩ

FREQUENCY RESPONSE

Type IV (Metal) tape	20-18kHz (±3dB)
Type II (CrO2) tape	20-17kHz (±3dB)
Type I (Fe/Normal) tape	20-16kHz (±3dB)

SIGNAL TO NOISE RATIO (A' WEIGHTED)

No Noise Reduction	58dB
Dolby B	67dB
Dolby C	75dB

OVERALL

POWER

Power Requirements	120VAC, 60Hz
Power Consumption - PAC770	500W
Power Consumption - PAC750	30W

DIMENSIONS/WEIGHT

Panel Width	19.0" (480mm)
Panel Height (4U)	6.0" (133mm)
Depth	18.0" (455mm)
Weight - PAC770	39.7lbs. (18.0kg)
Weight - PAC750	26.4lbs. (12.0kg)

Specifications are based on measurement conditions and proper care for the machine, and are subject to change without notice.

