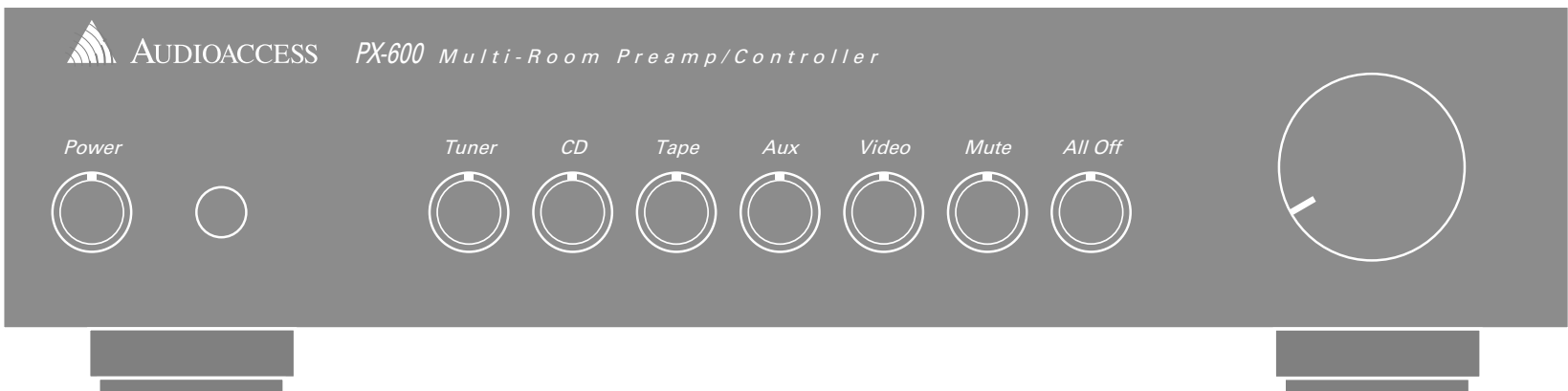





PX-600

Multi-Room Preamp/Controller



 **AUDIOACCESS**
Madrigal Audio Laboratories
2081 South Main Street
Middletown, CT 06457
A Harman International Company


Printed in the USA
All contents ©1994 Audioaccess
826-0600-000-B

OWNER'S MANUAL



PX-600 MULTI-ROOM

OWNER'S RECORD

**CAUTION**
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

Use 120-volt AC only.

Connecting the unit to an outlet supplying a higher voltage may create a fire hazard.

Do Not Open the Cabinet.

Do not attempt to service this unit. Tampering with internal components can cause a fire or shock hazard, and may void your warranty.

Service.

Your PX-600 should be serviced only through authorized Audioaccess dealers.

Please take a moment and complete the Limited Warranty Registration Card and return it to Audioaccess.

The serial number is located on the rear panel. Record this number in the space provided below. Refer to this number whenever you call upon your authorized Audioaccess custom installation dealer regarding this product.

Model No. **PX-600** Serial No. _____

Should you have any questions or be in need of service, please contact the Audioaccess dealer that installed your system. The area provided below is for you to record your Audioaccess dealer information.

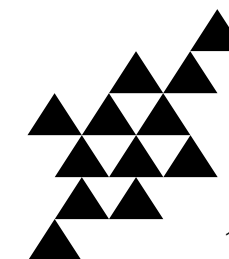
DEALER: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP CODE: _____

CONTACT PERSON: _____ TELEPHONE: (____) _____

DATE INSTALLED: _____



SPECIFICATIONS PREAMP/CONTROLLER

Controls:

- ▲ Front panel controls zone 6 (controls include power, source selectors, volume, mute, and all off)
- ▲ Independent source selection: Tuner, CD, Tape, Aux, Video
- ▲ Control of basic source functions (i.e. play, skip track, skip disc, skip preset, fast forward, etc.)
- ▲ Independent volume control per zone
- ▲ Independent On/Off per zone
- ▲ Programmable All On features

Power Requirements:

115 volts AC, 50Hz, 40 watts (not including equipment connected to switched outlet)

Dimensions:

17 3/8" W x 4" H x 15" D
(442 mm x 102 mm x 381 mm)
Includes connectors and feet

Weight:

13 lbs (6 kg)

Thank you for choosing the Audioaccess PX-600 Multi-Room Preamp/Controller.

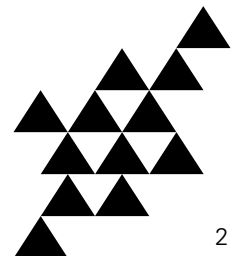
And congratulations. Your new unit is an exceptionally well-engineered product that will give you years of superb performance.

Flagship of the Audioaccess product line, the PX-600 Multi-Room Preamp/Controller forms the heart of a powerful multi-room audio system. Together with our time proven wall mounted keypads and conventional audio source equipment, the PX-600 allows you to access and control five different music sources in six different areas simultaneously. The PX-600 combines a learning IR based source controller with six independent stereo preamps to form a six zone system in one compact package. Multiple PX-600's are easily interconnected to form systems as large as 36 independent zones and the PX-600 can be readily interfaced to both complex home automation and home theater systems.

You can turn zones on or off, select sources, control their basic functions, and change volume independently in each zone, just by the touch of a single button on the keypad. And unlike rotary volume controls, our low profile keypad blends seamlessly with any decor. The PX-600 can also be operated from its own optional hand-held IR remote control from any zone. Of course, the main zone can always be operated from the PX-600's front panel. Learning to operate the system is simplicity itself. Keypads, remotes, and even the front panel have identical controls and operate in exactly the same way.

Your PX-600 was configured by your authorized Audioaccess dealer at the time of installation. Programmable features include the turn-on volume, maximum volume, lockout, bass and treble settings for each zone, group set-up, paging setup, and specific IR protocols for tuners, CD players, high-capacity CD changers, tape players and VCR's, as well as special macro commands tailored for control of popular surround processors.

SPEC	PREAMP OUTPUT	ZONE OUTPUT
Frequency Response	10 - 84k Hz, +0, -1 dB	10 - 95k Hz, +0, -1 dB
S/N (ref: 1k Hz, 1 Vrms, filter at 22k Hz, Volume at unity gain)	>99 dBV	>100 dBV
THD+Noise (@1k Hz, Filter at 80k Hz, Volume set at unity gain)	<0.008 % (500 mV input signal)	<0.004 % (1 V input signal)
Maximum Output Level	3.5 Vrms	3.5 Vrms
Output Impedance	470Ω	470Ω
Left/Right Crosstalk (@ 1k Hz, each input)	<-85 dB	<-85 dB
Input to Input Crosstalk (@ 1k Hz, any two inputs)	<-100 dB	<-100 dB
Zone to Zone Crosstalk (@ 1k Hz, any two zones)	<-100 dB	<-100 dB
Maximum Gain	20 dB	Unity
Volume Control	80 dB in 2 dB steps	N/A
Bass (Shelving type, 100 Hz)	+15, -12 dB (3 dB steps)	N/A
Treble (Shelving Type, 10k Hz)	+12, -12 dB (3 dB steps)	N/A
Signal Connector Type:	RCA with short hot pin (makes shield connection first)	





SYSTEM OPERATION

The Audioaccess PX-600 keypads, front panel and IR remote controls are designed for simple, intuitive system operation. You will not need lengthy training or a full understanding of audio/video systems to master the operation of your PX-600 system. Use the following outline (which focuses on the operation from the keypad) and experiment. Check with your dealer to find out about any special or alternate features that may have been installed for you. You'll soon be an expert!

ON

(Substitute the word POWER for PX-600 front panel operation)

- ▲ To turn on a single zone, momentarily press the ON button. The ON LED will illuminate on keypads. The FM (TUNER on front panel) will be selected when a zone is first turned on.
- ▲ To turn off a single zone, momentarily press the ON button again.
- ▲ To turn on a group of zones (this is called an ALL ON group), start with the zone off, then press-and-hold the ON button for about two seconds or until the ON LED flashes.
- ▲ To turn off an ALL ON group, momentarily press the ON button from any zone within the group.¹

- ▲ To turn off *all* zones in the system, as well as the power to the source components, regardless of ALL ON grouping, go to any keypad, make sure it is ON, then press-and-hold the ON button for about two seconds or until the ON LED flashes on a keypad. All zones will turn off. (The front panel has a separate ALL OFF button.)

¹ Certain options are available that affect the operation of ALL ON. For example, if your system is programmed with the TIMEOUT feature, the zones in an ALL ON group may be set up to revert back to independent operation 30 seconds after the ALL ON is initiated. If this is the case, momentarily pressing the ON button will only turn off the zone you're in. Check with your dealer for further information.

VOLUME ▲ ▼

- ▲ To increase the volume, press ▲. To decrease the volume press ▼. (On the front panel use the large knob.)
- ▲ To mute the audio, press ▲ and ▼ together. (Press the MUTE button on the front panel or IR remote control to get the same response.)
- ▲ To un-mute the audio, press either the ▲ or ▼ buttons. (Press MUTE again on the front panel.)



SPECIFICATIONS

Audio Section

Inputs:

- ▲ Five stereo source inputs, 1 mono page input, each with loopthru capability
- ▲ Input impedance: 10k Ω
- ▲ Maximum input voltage: 3.5 Vrms

Outputs:

- ▲ Six stereo preamp outputs with independent volume, bass and treble
- ▲ Six stereo zone outputs (fixed level, post input selector)
- ▲ Tape output from the main zone (zone 6)

Source Equipment Control and Interface Section

Inputs:

- ▲ Trigger input to facilitate sharing source equipment (controls switched outlet and "stop" commands)
- ▲ Keypad interface connector
- ▲ DC voltage input for zone trigger outputs
- ▲ Hardwired IR input to control main zone from industry standard IR receivers

Outputs:

- ▲ Trigger output from each zone to control external relays
- ▲ One system trigger output to control external relay (active when system is on)
- ▲ Six infrared emitter jacks, one for each audio source (5) plus ALL
- ▲ IR loopthru output
- ▲ Switched outlet (North American model only)

SYSTEM OPERATION

TAPE

- ▲ To select the TAPE and issue a PLAY command, momentarily press the TAPE button. The TAPE LED will illuminate.
- ▲ To reverse the play direction of the tape, momentarily press the TAPE button again. Each subsequent press of the TAPE button will toggle the play direction.
- ▲ Depending upon whether you have a single or multiple cassette player, the tape button press-and-hold function will operate differently:

Single Cassette Players

The press-and-hold function can be used for one of many other functions on the cassette deck depending on which IR function is programmed. Some examples of functions that may be used are: Automatic Music Search [AMS], Fast Forward, Rewind, Stop, etc. Ask your dealer how your system is set up.

Multiple Tape Player

If your tape player holds multiple tapes, the press-and-hold function may be used to advance to the next tape.

AUX

- ▲ Ask your dealer what source, if any, is attached to the AUX input. If it is a second CD player or a tape deck, chances are it will work in the same way as the examples above.
- ▲ If it is some other IR controlled component, your dealer will explain its operation from a keypad or IR remote control.

VID

- ▲ To select the audio from your VIDEO source, momentarily press the VID button.
- ▲ The RTA remote control has the following buttons dedicated to controlling VIDEO functions: PLAY, STOP, FAST FORWARD, REWIND, CHANNEL s, CHANNEL t, PAUSE, TV/VCR. These functions are custom programmed for your specific needs by your dealer which may or may not match the labeling on the remote. Ask your dealer to explain the operation of these buttons for your particular system.

FM

(Substitute the word TUNER for PX-600 front panel operation)

- ▲ To select the TUNER, momentarily press the FM button. The FM LED will illuminate.
- ▲ Once the tuner is selected, you can cycle through up to 9 tuner presets by repeatedly pressing the FM button.²
- ▲ Press-and-hold the FM button for about two seconds or until the FM LED flashes to access an optional, additional command for the tuner (such as SEEK).

² The number of presets depends on the tuner in your system and the way your dealer has set it up.

CD

- ▲ To select the CD and issue a PLAY command, momentarily press the CD button. The CD LED will illuminate.
- ▲ The second and subsequent momentary presses of the CD button will send the SKIP TRACK command to the CD player.

- ▲ To skip to the next disc, press and hold the CD button for about two seconds or until the CD LED flashes.

High-capacity CD changer operation

If your CD player is a high capacity changer (usually 100 or more discs), substitute this outline of functions:

CD button pressed first time:

This will select the CD changer and begin to play GROUP 1 or PLAYLIST 1.

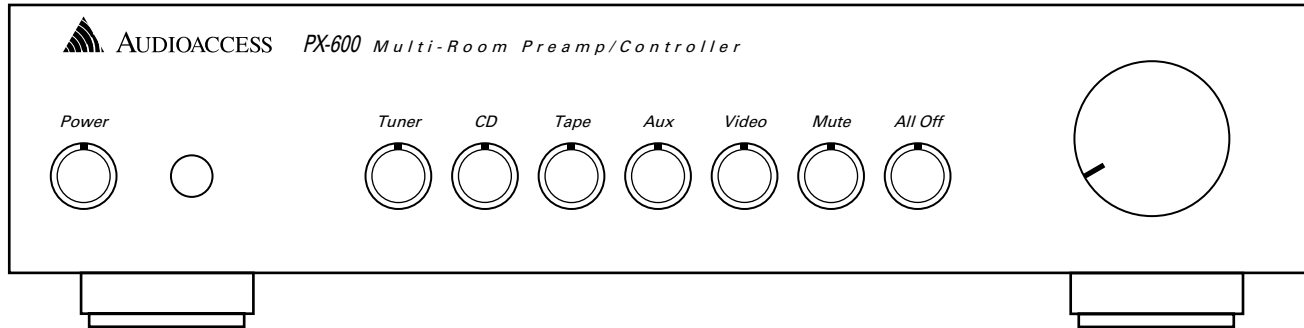
CD button pressed second and subsequent times:

The PX-600 sends a SKIP TRACK command. The CD changer advances to the next track on the current CD or the next step in the group or playlist. There are some variables depending on how your particular CD changer works.

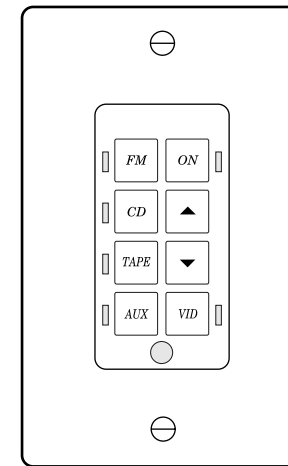
CD press-and-hold:

The PX-600 will advance to the next group or playlist. You can cycle through up to six playlists or groups.

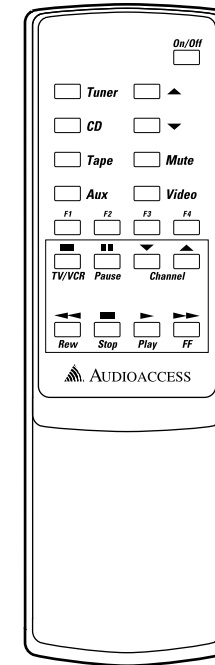
PX-600, KEYPAD, REMOTES



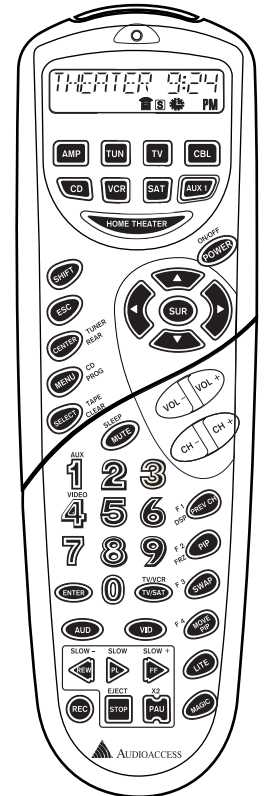
PX-600 Multi-Room Preamp/Controller



KPS Keypad



RT-A2
Handheld IR
Remote Control



URC-8090
Handheld IR
Remote Control