

Nigel B.
DESIGN

MONO/STEREO

**5000 Series
Model 50090 PL**

90 WATT AMPLIFIER

RS 232 CONTROLLED

INSTRUCTIONS



TWO WAY RS 232 FOR CONTROL FROM ANY AMX®, OR CRESTRON®, AURORA WACI® CONTROLLERS OR OTHER DEVICES

ACCEPTS BALANCED OR UNBALANCED INPUTS FOR STEREO OR MONO OPERATION

Four times more Energy Efficient in comparison with our nearest competitor



**AUTOMATIC FAN CONTROL
FAN TURNS OFF AUTOMATICALLY
WHEN NO AUDIO IS PRESENT**



VOLUME LEVEL TRIM POT SETTING

POWER INDICATOR

THRESHOLD

THRESHOLD ADJUSTMENT



THRESHOLD LEVEL CONTROL

Threshold level should not need Adjusting, unless the Threshold Indicator does not light up or the Sound cuts off prematurely. Turning the Trim Pot Clockwise increases Sensativity.

RECOMMENDED POWER SUPPLY

UL/CSA Listed Auto Sensing 100 -240 Volt 6.3 Amps DC

Part # NB-PS-170



VOLUME CONTROL

The Amplifier's Volume is controlled through the RS 232 Two Way Control Port. The Front Volume Level Trim Pots control the actual (or Total Amount) of Output Level of each Channel. For Example: Setting the Front Trim Pots to 50% will provide 50% Output from the RS 232 Internal Digital Pots. So for 100% RS 232 Volume, make sure the Front Trim Pots are set some where near Maximum (turned clockwise).

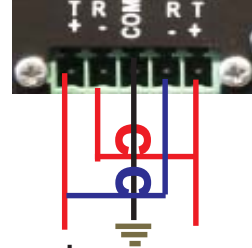
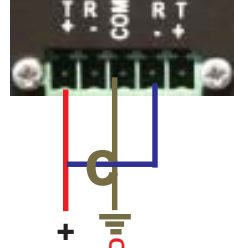
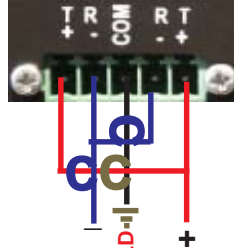
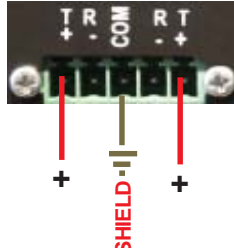
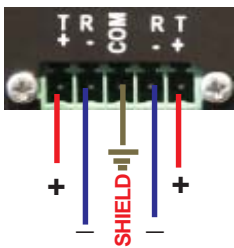
BALANCED STEREO

UNBALANCED STEREO

BALANCED DUAL MONO

UNBALANCED BRIDGED MONO

BALANCED BRIDGED MONO



PHOENIX TYPE TERMINALS FOR FAST CONNECTIONS

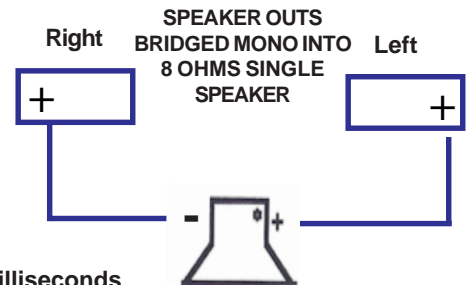
AUTOMATIC INTERNAL CONFIGURATION OF THE LINE INPUT

Internal circuitry enables the user to configure the Amplifier to be used in either Balanced or Unbalanced Modes depending on the connections used. Shown above are the different Line In Connections that allow the Amplifier to accept either Balanced or Unbalanced Stereo, Balanced Dual Mono or Balanced Bridged Mono Inputs, depending on the user's requirements.

SUPER FAST - ADC - AUTOMATIC DETECTION CIRCUIT



This **ENERGY EFFICIENCY COOL RUNNING AUTOMATIC** Amplifier turns itself on in less than **2 milliseconds of detecting an Audio Signal**. When no Audio signal is detected it will automatically turn itself off after about 15 seconds, unless the Audio is restored before the cut off period, at which time the unit will repeat the Active Mode until finally no signal is detected.



Please turn over for Mounting Options and Specs

GET RID OF MESSY WIRING AND CABLE TIES

**No Modification to the Projector Pole is required
All Cables and Wiring runs to and from the Platform inside**



Pole Mount Platform

The Pole Mount Platform uses two lengths of 1 1/2" threaded Pipe. One Pipe is fitted into the top bushing of the Platform and the other to the bushing underneath.

All the wiring is always hidden from view using the inside of the Projector's Pole.

NEED TO HIDE THE EQUIPMENT IN THE PLENUM

Hidden from view, our Plenum Rated Equipment Boxes allow Amplifiers and other Equipment, Power Supply, AC Receptacle and all the Cables to fit inside. All Cable runs are routed internally, so that the entire unit meets UL 2034 and all Electrical Codes for **Plenum Rating. Because the entire assembly is hidden, the chance of theft is minimized.**

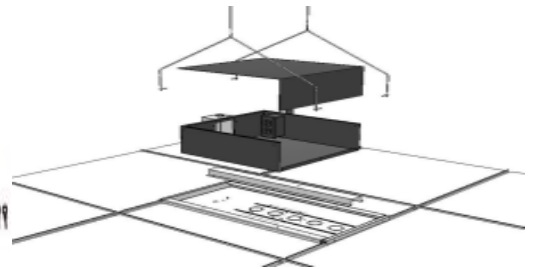


Pole Mount Version

Our Plenum Rated Equipment Boxes contains a 1 gang Receptacle for powering both the Amplifier and any other equipment concealed inside



Ceiling Tile Kit



Plenum Equipment Box & Ceiling Tile kit

AMPLIFIER SPECIFICATIONS

- 90 watts Stereo into 2 Ohms (45 watts per Channel)
- 100 watts Peak Music Power
- Frequency Response: 15 Hz - 22 kHz
- Signal to Noise Ratio: -65 dB
- Total Harmonic Distortion: .003 dB
- Dynamic Range: 115 dB
- Overload Protection: Built In
- All Screw Connectors

AUTO POWER SAVING MODE

Power is reduced to 250 milliamps in Stand By Mode

RECOMMENDED POWER SUPPLY REQUIRED

- 110V 240v - 24V 6.3 Amps DC
- Nigel B Design Part # NB-PS-170
- 100v -240v Auto Sensing 24 v 6.3 Amps DC



The StrongBox

The beauty of the StrongBox is that it fits Flush against the Ceiling Tiles. It comes complete with Built in UL/CSA AC Power Receptacle. The Locking Front Door is fitted with a Contact Closure allowing it to be connected to any Security Device should someone Tamper with the Equipment Inside.



19" 1U RackFrame Shelf

Up to four 1/4 Rack Nigel B Design Amplifiers can be fitted taking up only 1 Rackspace



Multi Purpose Brackets can be Pole or Surface Mounted they can also be joined together when you need more space



Structured Wiring Panel

Can be attached behind a TV Monitor or to any other Flat Surfaces for vertically mounting any of our Amplifiers