PNP202

Interconnect Box

USER'S GUIDE

ALTINEX

SIGNAL MANAGEMENT SOLUTIONS

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TABLE OF CONTENTS

PRECAUTIONS / SAFETY WARNINGS 1

Please read this manual carefully before using your **PNP202** Interconnect Box. Keep this manual handy for future reference. These safety instructions are to ensure the long life of your **PNP202** and to prevent fire and shock hazard. Please read them carefully and heed all warnings.

1.1 GENERAL

- Unauthorized personnel shall not open the unit since there are high-voltage components inside.
- Qualified ALTINEX service personnel, or their authorized representatives must perform all service.

⚡	**CAUTION** RISK OF ELECTRIC SHOCK DO NOT OPEN
The lightning flash and arrowhead within the triangle is a warning sign alerting you of "dangerous voltage" inside the product.	CAUTION: TO REDUCE RISK OF ELECTRIC SHOCK, DO NOT RE-MOVE COVER (OR BACK) NO USER SER-VICEABLE PARTS IN-SIDE.

1.2 INSTALLATION

- For best results, place the **PNP202** Interconnect Box in a dry area away from dust and moisture.
- To prevent fire or shock, do not expose this unit to rain or moisture. Do not place the **PNP202** Interconnect Box in direct sunlight, near heaters or heat radiating appliances, or near any liquid. Exposure to direct sunlight, smoke, or steam can harm internal components.
- Handle the **PNP202** Interconnect Box carefully. Dropping or jarring can damage internal components.
- Never place fingers inside the openings in the back of the unit. This action could cause serious injury because of the sharp edges inside of the **PNP202**.

- Do not place heavy objects on top of the **PNP202**. Do not use excessive force to push down on the top of the unit.
- To turn off main power, disconnect the power cord, which powers the power socket on the **PNP202** pop-up panels only, and unplug the 12V 500mA-power supply. The power outlet socket should be installed as near to the equipment as possible, and should be easily accessible.
- We recommend using wall outlets with a Ground Fault Circuit Interrupter (GFCI) for maximum protection.
- Install all cables according to the instructions. Do not force or pull out any cable or power cord that is attached to the **PNP202** Interconnect Box.

1.3 CLEANING

- Surfaces should be cleaned with a dry cloth. Never use strong detergents or solvents, such as alcohol or thinner. Do not use a wet cloth or water to clean the unit.

1.4 FCC / CE NOTICE

- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including that which may cause undesired operation.
- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case

the user will be required to correct the interference at his own expense.

- Any changes or modifications to the unit not expressly approved by ALTINEX, Inc. could void the user's authority to operate the equipment.

ABOUT YOUR PNP202   2

The **PNP202** is designed for installation into a conference room table. The **PNP202** Interconnect Box provides a means of connecting audio, video, control, and computer video sources into a presentation system. It is ideal for use together with ALTINEX computer video interfaces. The **PNP202** Interconnect Box can either "pop up" into a raised position to provide access to connectors or it can be lowered into a table when not in use. The **PNP202** uses a tower-type construction with pneumatic suspension and an electromagnetic latching mechanism to accomplish this.

The **PNP202** provides easy access to system inputs when they are needed. It also removes system inputs when not needed, eliminating the obstruction. The **PNP202** Interconnect Box has two input plates on either side of the unit, servicing both sides of a table. Each standard plate offers Computer Video (15-pin HD); Composite Video (RCA), Audio (RCA), Computer Audio (Stereo Mini), Modem (RJ-11), 9-pin D-type RS-232 and Network (RJ-45) input connections. All signals are passed through to a set of female connectors or cables. Several optional connectors can be substituted for the standard set of connectors. For additional information regarding optional connectors, contact the ALTINEX Sales Department.

The **PNP202** Interconnect Box is designed for use with tables ranging from one to three inches thick. The **PNP202** comes in a standard matte black color. The top of the unit can be finished to match the table. This is available on a custom per order basis at an additional charge.

TECHNICAL SPECIFICATIONS   3

FEATURES/ DESCRIPTION	PNP202 (standard)		
GENERAL			
	Front Panel Standard Connectors (side w/out circuit breaker)	**Back Panel Standard Connectors** (side w/ circuit breaker)	**Cable end under table** (2 sets)
Power	1 IEC (standard)	1 IEC with 10A breaker	1 plug with 6ft cord
Computer Video	1 15-pin HD-F	1 15-pin HD-F	1 15-pin HD-F
Composite Video	1 Yellow RCA F	1 Yellow RCA-F	1 Yellow RCA-F
Audio, left, right	1 Black, 1 Red RCA F	1 Black, 1 Red RCA-F	1 Black, 1 Red RCA-F
Audio	1 3.5 mm stereo F	1 3.5 mm stereo F	-
Telephone	1-RJ-11 F (6-position)	1-RJ-11-F	1-RJ-11-M (6-position)
Network	1 RJ-45 F (8-position)	1 RJ-45-F	1 RJ-45-M (8-position)
Control	1 DB-9 F	1 DB-9 F	1 DB-9 F

Table 1. **PNP202** General

MECHANICAL	PNP202 (standard)
Mechanical	
Width (inches)	6.030in (153mm)
Height (opened)	7.630in (194mm)
Depth (inches)	2.840in (73mm)
Finish	Black
T° Operating	10°C-35°C
T° Maximum	50°C
Humidity	90% non-condensing

Table 2. **PNP202** Mechanical

ELECTRICAL	PNP202 (standard)
Power	
Power for Operation	12V 500mA DC
Power Consumption	Max 10 watts
Power Rating (pass through IEC connector)	90-140 VAC, 2A Max

Table 3. **PNP202** Electrical

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PNP202 DIMENSIONS   **4**

Diagrams: 1A, 1B, 1C, & 1D

TOP VIEW
OF PNP202

7.360

6.030
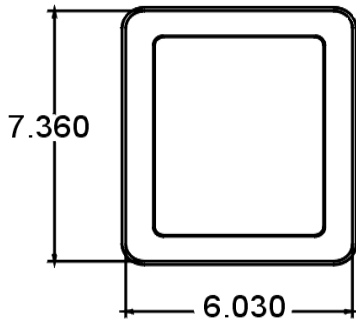
Diagram 1A

FRONT VIEW
(opened PNP2O2)

RCA-F CONNECTOR FOR
AUDIO LEFT

RCA-F CONNECTOR FOR
VIDEO SIGNAL

RJ-11-F FOR PHONE/
MODEM JACK

3.5mm-F FOR
STEREO AUDIO

HD-15-PIN CONNECTOR
FOR COMP. VIDEO

RCA-F CONNECTOR
FOR AUDIO RIGHT

RJ-45-F FOR NETWORK

DB-9-PIN-F CONNECTOR
FOR COM. PORT

LABEL &
SERIAL NUMBER

AC IEC POWER
CONNECTOR

5.295
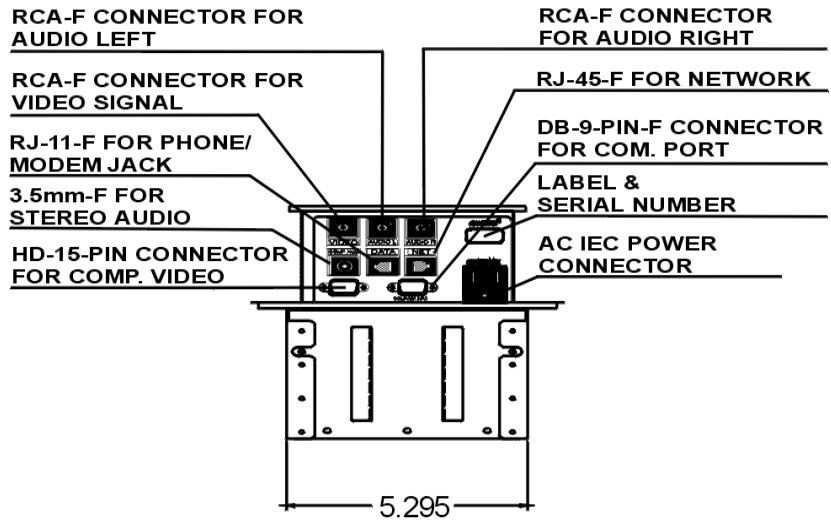
Diagram 1B

SIDE VIEW
(opened PNP202)

2.840

5.295
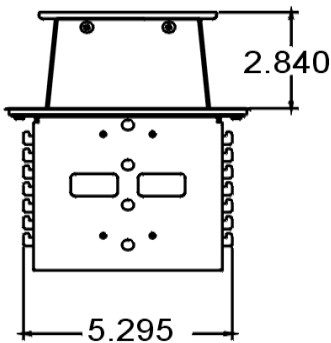
Diagram 1C

SIDE VIEW
(closed PNP202)

4.790

Diagram 1D

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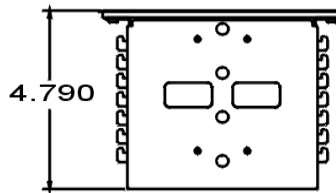
DESCRIPTION DIAGRAM   **5**

Diagram 2: Back View

BACK VIEW
OF PNP202

RCA-F CONNECTOR
FOR VIDEO

3.5mm-F FOR
STEREO AUDIO

10 AMP CIRCUIT
BREAKER

HD-15-PIN-F CONNECTOR
FOR COMPUTER VIDEO

AC IEC POWER
CONNECTOR

RCA-F CONNECTOR
FOR AUDIO LEFT

RCA-F CONNECTOR
FOR AUDIO RIGHT

RJ-11-F FOR PHONE/
MODEM JACK

RJ-45-F FOR NETWORK

DB-9-PIN-F CONNECTOR
FOR COMP. PORT

600 WATTS MAX

COMPUTER INPUT   COMPUTER INPUT
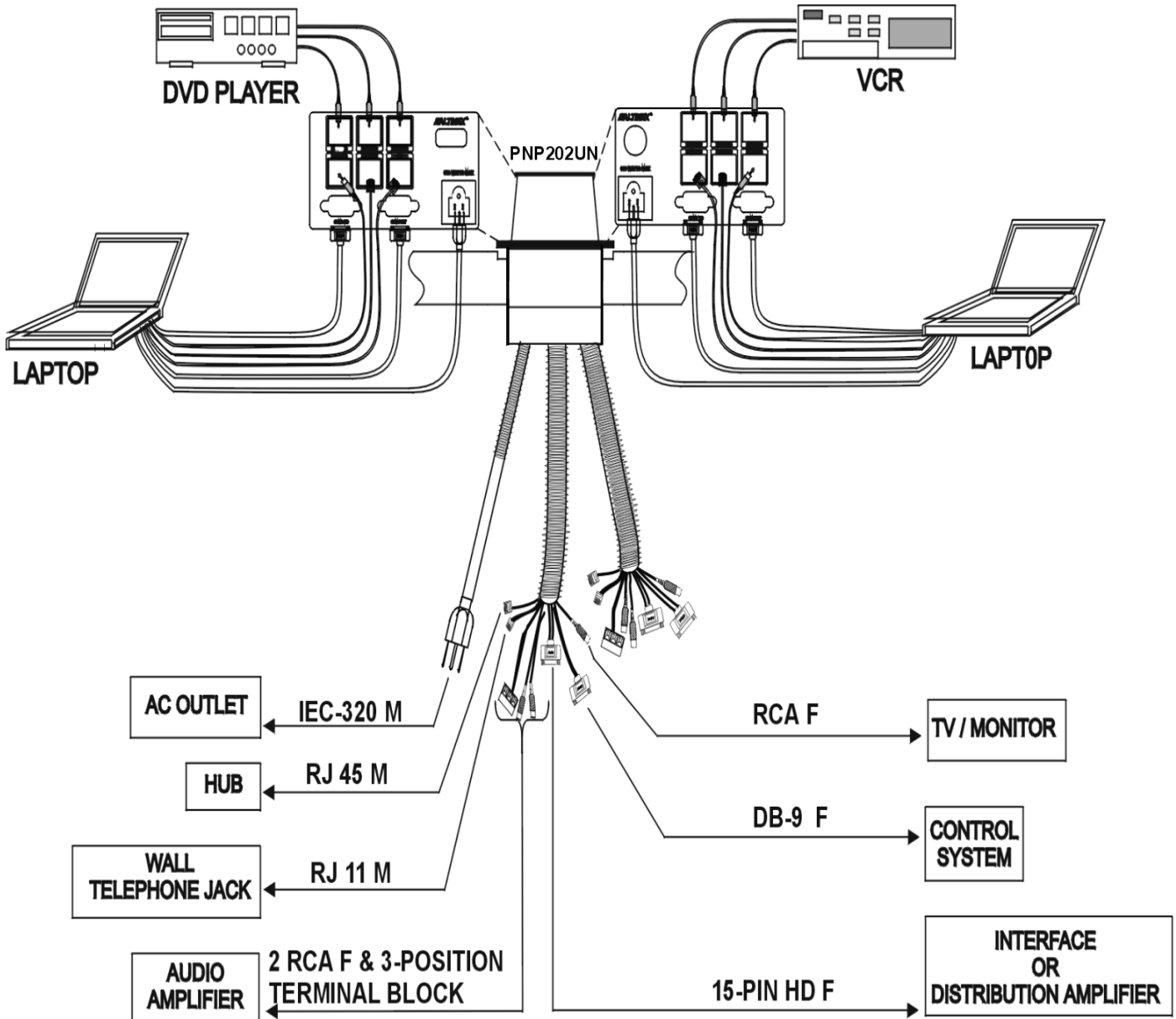
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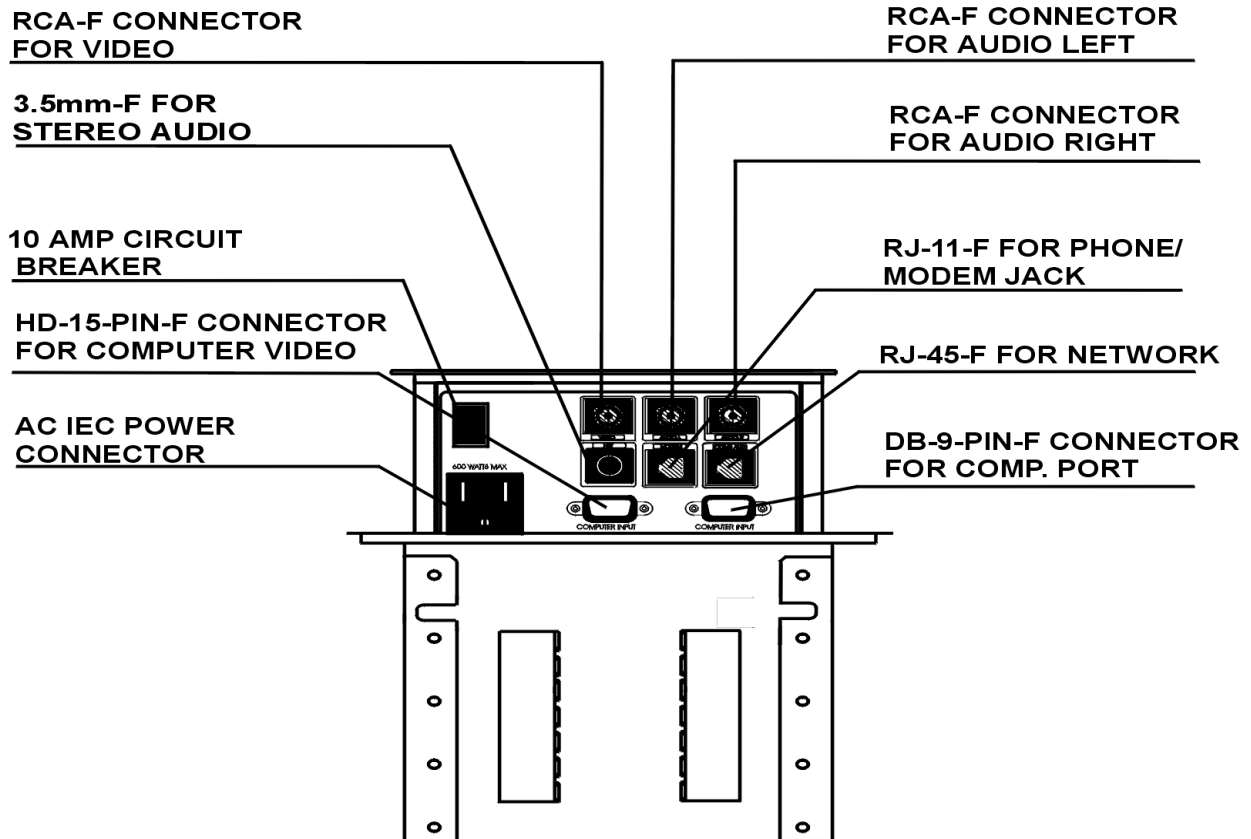
APPLICATION DIAGRAM 6

Diagram 3: Application

Diagram 4: Final Installation

PNP202 IN AN OPEN POSITION

TABLE

POWER CORD
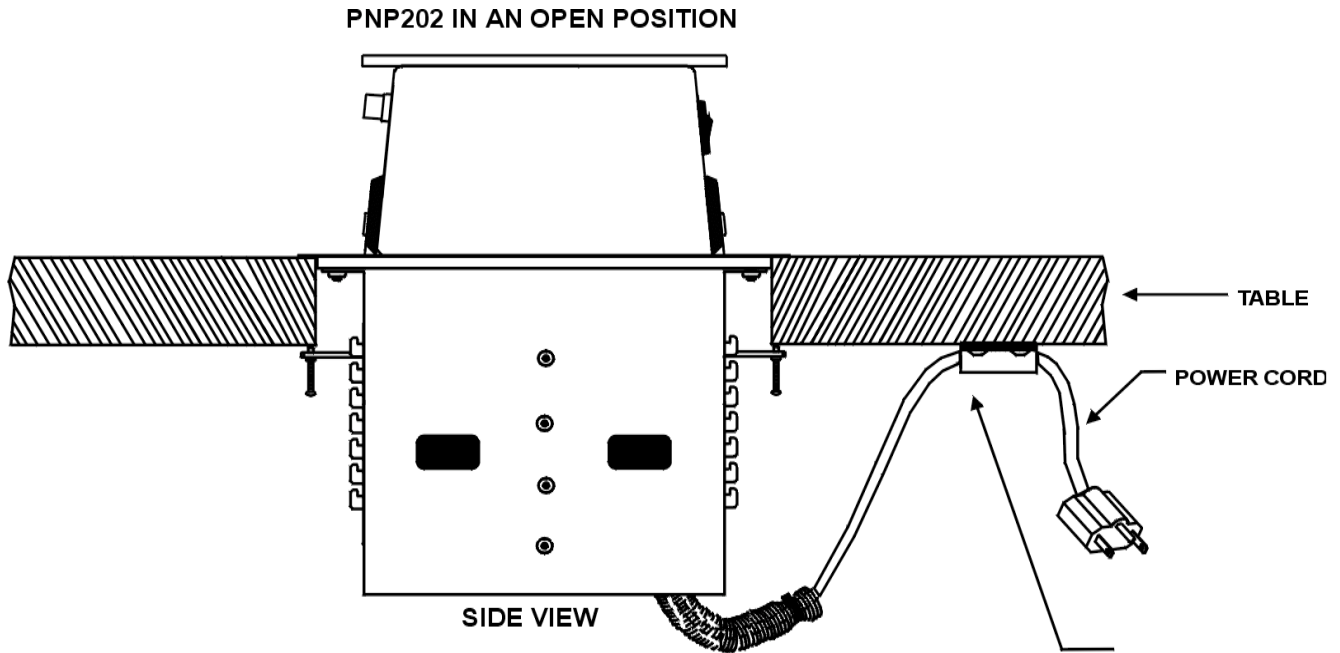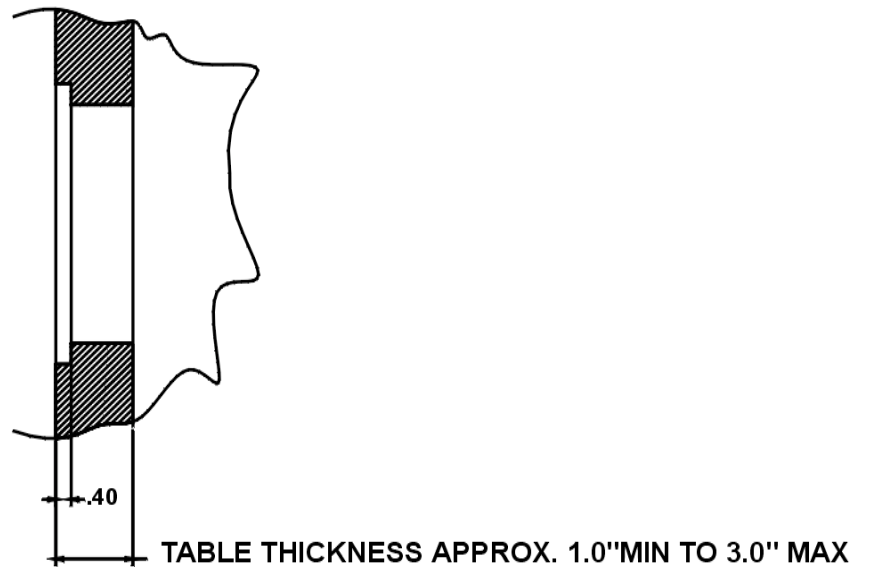
SIDE VIEW

PASS THE POWER CORD THROUGH THE
HOUSING AND ATTACH IT TO A SECURED
SURFACE OR TABLE WITH A CABLE CLAMP

+12V
LOCK
RELEASE
STATUS

CHASSIS GROUNDING

BOTTOM VIEW
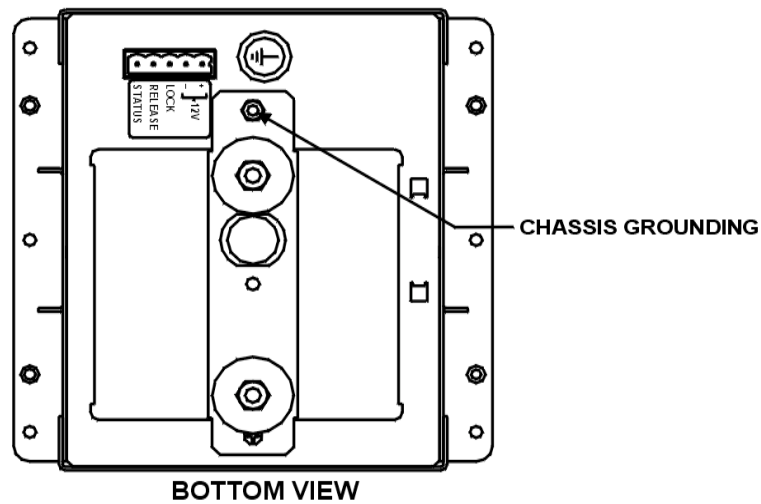
NOTE: THE DIAGRAM OF THE SIDE VIEW ABOVE SHOWS ONLY THE POWER CORD NOT THE CABLES

Diagram 5: Table Cutout Requirements

6.07
.36
5.35
.57
4.93
.54

4x.20
4x.10
4x.11
2x2.25
7.40
2x1.80
6.30

4x R .10
4x R .51

**TOP VIEW
TABLE CUTOUT**

TABLE TOP SURFACE

.40

TABLE THICKNESS APPROX. 1.0"MIN TO 3.0" MAX
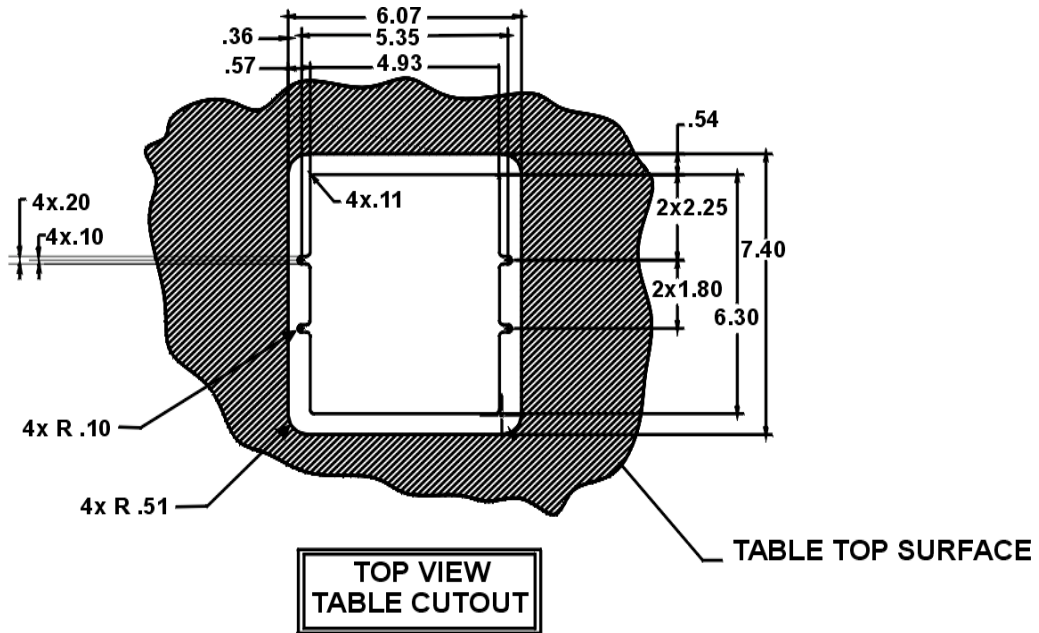
NOTE: Specifications subject to change without notice. Always confirm measurements before cutting to ensure that specifications have not changed. Always make sure to orient cutout in direction necessary for proper operation of the installed unit. Tolerance: ± .03

INSTALLATION 7

Step 1. Make sure the gas spring is not compressed when you remove the spring retaining knob. To release the gas spring, push down and turn the spring retaining knob in the center of the bottom of the **PNP202** by 90 degrees. Remove the knob from the **PNP202**. The spring retaining knob is the smallest silver colored knob that is located on the bottom of the unit. Re-engage the gas spring by pushing down on the knob and turning it back to the original position, thereby locking the gas spring into place.

Step 2. Cut an opening into the table's surface. Refer to diagram 5 on page 8 of the manual for table cutout requirements. Note: The table can be 3 inches or thinner in thickness. Always confirm dimensions before cutting to ensure that specifications have not changed.

Step 3. Place the support brackets under the table and place them between the support mount grooves on the side of the **PNP202** unit. Attach the brackets to the groove at the desired height and secure them to the bottom of the table using the 6-32 screw. There are two support brackets, one for each side of the unit. (See Figure 1)
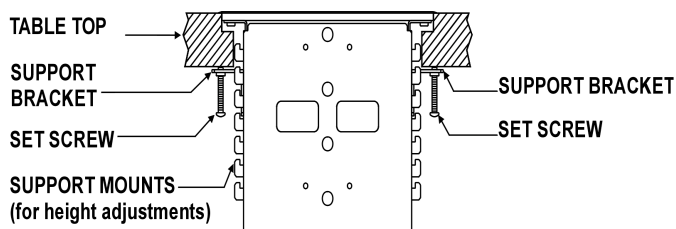

TABLE TOP
SUPPORT BRACKET
SET SCREW
SUPPORT MOUNTS (for height adjustments)
SUPPORT BRACKET
SET SCREW

Figure 1: Attachment of the PNP202 to the table using support brackets and set screws

Step 4. Secure the cables by using the provided cable clamp (See Figure 2). Pass the power cord from the bottom of the housing and attach it to the table using the cable clamp supplied with the **PNP202** unit. Do not keep the cord too tight or too loose (See Diagram 4, page 7).

Figure 2: Cable Clamp

Step 5. Connect the appropriate cables with the correct input connectors on the bottom of the unit. There are two RCA connectors on each side of the **PNP202**. The black connectors are known as audio left, whereas the red connectors are called audio right. On either side of the unit, there is also an RCA video connector, which is yellow in color. The network connection is red; In addition, the telephone or data connection is gray.

Step 6. Once you have attached the power cable to the AC outlet (110/120V) at 60Hz and connected the proper cables on the bottom of the unit, you may raise the unit. To raise the **PNP202** into position, press the top of the unit.

Step 7. To lower the unit, push on the top of the **PNP202** until it fits into place.

For more information, please refer to the FAQ Section or the Troubleshooting Guide.

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OPERATION 8

8.1 HOW TO RELEASE AND REPLACE THE GAS SPRING

To replace the gas spring, push up, and turn the knob in the center on the bottom of the **PNP202** by 90 degrees, thereby releasing the gas spring. See figure 3.
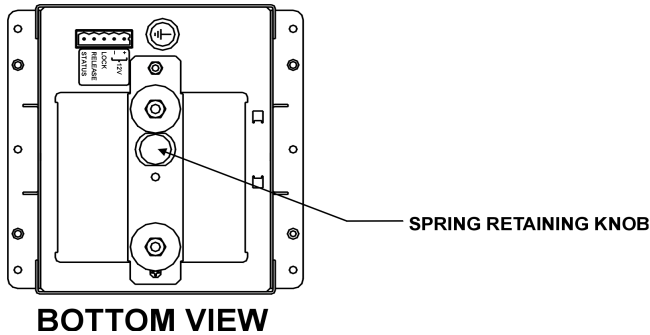

BOTTOM VIEW

Figure 3: Spring Retaining Knob

Unscrew the spring retaining knob, and then unscrew the gas spring itself from the **PNP202**. Replace the gas spring with a new one by screwing it in, and then replacing the spring retaining knob.

Re-engage the new gas spring by pushing up, and turning the knob by 90 degrees. After you have finished this step, you have completed the installation.

Under normal conditions the gas spring will last up to five years.

FREQUENTLY ASKED QUESTIONS (FAQ) 9

No:	Question	Answer
1.	Why are the VGA connectors female on both ends of the cables?	Female cables are more reliable.
2.	Why is there a DB-9 connector?	The DB-9 connector is compatible with RS-232 serial communication.
3.	What happens if the spring breaks?	The unit will not stay open.
4.	What do I do if the **PNP202** won't stay open?	Replace the gas spring. Call ALTINEX for service information.
5.	How much room is taken up on the underside of the table?	The unit is 4.5 inches deep maximum below the table; to this dimension add about 2.5 inches for cable clearance.
6.	What if my table is thicker than 3 inches?	Then the area under the table near the **PNP202** must be reduced to 3 inches of thickness.
7.	Are cables available for connecting a PC/laptop to the **PNP202** available?	Consider using MS8126CA (3ft) or MS8156CA (6ft) for VGA connection.
8.	Does ALTINEX honor any warranty on field modifications?	Anything modified by non-ALTINEX personnel is not covered by warranty.

CABLES AND ACCESSORIES 10

Model No.	Description
	VGA MALE TO MALE (HD-15) HIGH RESOLUTION CABLE
CB37xxMR	xx = available length of 3ft, 6ft, 15ft, 25ft, 50ft, 75ft, 100ft, 150ft
	VGA MALE TO FEMALE (HD-15) HIGH RESOLUTION CABLE
CB39xxMR	xx = available length of 3ft, 6ft, 15ft, 25ft, 50ft, 75ft, 100ft, 150ft, 200ft, 250ft

TROUBLESHOOTING GUIDE 11

The **PNP202** supplied unit was carefully tested and no problems were detected; however, we would like to offer these suggestions.

- If there is no power, check to see if the circuit breaker is tripped.

- Please make sure that the highest quality video, audio, network, and telephone cables or connectors are used.

- Make sure that the 12V DC adapter or the external regulated 12 volts is plugged into the power socket for proper operation.

- Make sure that no cable or power cord is damaged or pinched. If there has been damage, then do not use the **PNP202** unit. Immediately contact the ALTINEX Customer Service Department to have the unit repaired.

ALTINEX POLICY 12

12.1 LIMITED WARRANTY

ALTINEX warrants that its products and cables are free from defects in materials under normal use and service. This warranty is limited to repairing at company's factory any part or parts of the product that shall within 2 years (90 days for cables) from date of shipment to the purchaser be returned to company with transportation charges pre-paid. The company's examination shall disclose product(s) to be thus defective. The warranty is expressly instead of all other warranties expressed or implied. ALTINEX neither assumes nor authorizes any other person to assume for it any other liability concerning the sale of the products. This warranty shall not apply to any product that shall have been repaired or altered outside of company's factory in any way so as, in its judgment, to affect its stability or reliability, or that has been subject to misuse, negligence or accident.

12.2 RETURN POLICY

It is very important to ALTINEX that you receive all products that you have ordered and that this product fulfills your needs. In the unlikely event, that an ALTINEX product needs to be returned please follow the policies below:

ALTINEX will accept all product returns for a period of 30 days from authorized ALTINEX dealers. Products must be returned in an unopened package.

If a product has been opened, the restocking fees will apply. For the restocking fee, please contact an ALTINEX Sales Representative.

If the product is in your possession for more than 30 days, the restocking fees will apply.

ALTINEX will not accept any returns on cables or custom products.

If your product is in warranty and needs service, contact the ALTINEX Sales Department for an RMA (Return Material Authorization). Products returned without an RMA number may experience a delay in service.

If your product is out of warranty and needs service, contact the ALTINEX Sales Department for an RMA (Return Material Authorization). Products returned without an RMA number may experience a delay in service. The service charges will be quoted to you before the actual repairs are done.

12.3 CONTACT INFORMATION

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