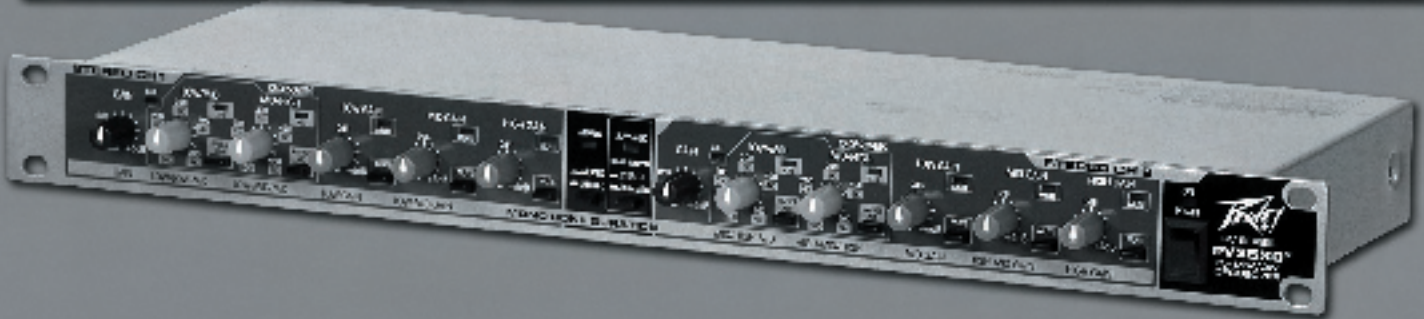


# PV<sup>®</sup>35XO

3-Way Stereo/4-Way or 5-Way Mono Crossover





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.



Intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

**CAUTION: Risk of electrical shock — DO NOT OPEN!**

**CAUTION:** To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

**WARNING:** To prevent electrical shock or fire hazard, this apparatus should not be exposed to rain or moisture, and objects filled with liquids, such as vases, should not be placed on this apparatus. Before using this apparatus, read the operating guide for further warnings.



Este símbolo tiene el propósito, de alertar al usuario de la presencia de “(voltaje) peligroso” sin aislamiento dentro de la caja del producto y que puede tener una magnitud suficiente como para constituir riesgo de descarga eléctrica.



Este símbolo tiene el propósito de alertar al usuario de la presencia de instrucciones importantes sobre la operación y mantenimiento en la información que viene con el producto.

**PRECAUCION: Riesgo de descarga eléctrica ¡NO ABRIR!**

**PRECAUCION:** Para disminuir el riesgo de descarga eléctrica, no abra la cubierta. No hay piezas útiles dentro. Deje todo mantenimiento en manos del personal técnico cualificado.

**ADVERTENCIA:** Para prevenir choque eléctrico o riesgo de incendios, este aparato no se debe exponer a la lluvia o a la humedad. Los objetos llenos de líquidos, como los floreros, no se deben colocar encima de este aparato. Antes de usar este aparato, lea la guía de funcionamiento para otras advertencias.



Ce symbole est utilisé dans ce manuel pour indiquer à l'utilisateur la présence d'une tension dangereuse pouvant être d'amplitude suffisante pour constituer un risque de choc électrique.



Ce symbole est utilisé dans ce manuel pour indiquer à l'utilisateur qu'il ou qu'elle trouvera d'importantes instructions concernant l'utilisation et l'entretien de l'appareil dans le paragraphe signalé.

**ATTENTION: Risques de choc électrique — NE PAS OUVRIR!**

**ATTENTION:** Afin de réduire le risque de choc électrique, ne pas enlever le couvercle. Il ne se trouve à l'intérieur aucune pièce pouvant être réparée par l'utilisateur. Confiez l'entretien et la réparation de l'appareil à un réparateur Peavey agréé.

**AVIS:** Dans le but de réduire les risques d'incendie ou de décharge électrique, cet appareil ne doit pas être exposé à la pluie ou à l'humidité et aucun objet rempli de liquide, tel qu'un vase, ne doit être posé sur celui-ci. Avant d'utiliser de cet appareil, lisez attentivement le guide fonctionnant pour avertissements supplémentaires.



Dieses Symbol soll den Anwender vor unisolierten gefährlichen Spannungen innerhalb des Gehäuses warnen, die von Ausreichender Stärke sind, um einen elektrischen Schlag verursachen zu können.



Dieses Symbol soll den Benutzer auf wichtige Instruktionen in der Bedienungsanleitung aufmerksam machen, die Handhabung und Wartung des Produkts betreffen.

**VORSICHT: Risiko — Elektrischer Schlag! Nicht öffnen!**


**VORSICHT:** Um das Risiko eines elektrischen Schlages zu vermeiden, nicht die Abdeckung entfernen. Es befinden sich keine Teile darin, die vom Anwender repariert werden könnten. Reparaturen nur von qualifiziertem Fachpersonal durchführen lassen.

**WARNUNG:** Um elektrischen Schlag oder Brandgefahr zu verhindern, sollte dieser Apparat nicht Regen oder Feuchtigkeit ausgesetzt werden und Gegenstände mit Flüssigkeiten gefüllt, wie Vasen, nicht auf diesen Apparat gesetzt werden. Bevor dieser Apparat verwendet wird, lesen Sie bitte den Funktionsführer für weitere Warnungen.

## IMPORTANT SAFETY INSTRUCTIONS



**WARNING:** When using electrical products, basic cautions should always be followed, including the following:

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding plug. The wide blade or third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point they exit from the apparatus.
11. Note for UK only: If the colors of the wires in the mains lead of this unit do not correspond with the terminals in your plug, proceed as follows:
  - a) The wire that is colored green and yellow must be connected to the terminal that is marked by the letter E, the earth symbol, colored green or colored green and yellow.
  - b) The wire that is colored blue must be connected to the terminal that is marked with the letter N or the color black.
  - c) The wire that is colored brown must be connected to the terminal that is marked with the letter L or the color red.
12. Only use attachments/accessories provided by the manufacturer.
13. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
14.  Unplug this apparatus during lightning storms or when unused for long periods of time.
15. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
16. Never break off the ground pin. Write for our free booklet "Shock Hazard and Grounding." Connect only to a power supply of the type marked on the unit adjacent to the power supply cord.
17. If this product is to be mounted in an equipment rack, rear support should be provided.
18. Exposure to extremely high noise levels may cause a permanent hearing loss. Individuals vary considerably in susceptibility to noise-induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a sufficient time. The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the following permissible noise level exposures:

Duration Per Day In Hours	Sound Level dBA, Slow Response
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
1/2	110
1/4 or less	115

According to OSHA, any exposure in excess of the above permissible limits could result in some hearing loss. Ear plugs or protectors to the ear canals or over the ears must be worn when operating this amplification system in order to prevent a permanent hearing loss, if exposure is in excess of the limits as set forth above. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels such as this amplification system be protected by hearing protectors while this unit is in operation.

**SAVE THESE INSTRUCTIONS!**

# **PV<sup>®</sup>35XO** 3-Way Stereo/4-Way or 5-Way Mono Crossover

## **Description**

Thank you for purchasing a Peavey PV 35XO 3-way stereo/4-way or 5-way mono crossover. The PV 35XO is a dual-channel model incorporating Peavey's legendary low-noise, low-distortion design. Ruggedly constructed, the PV 35XO gives the operator the flexibility to establish a three-way stereo system or run in a four-way and even a five-way mono configuration. The PV 35XO has variable state filter controls with 24 dB per octave filters. The PV 35XO utilizes XLR inputs and outputs for balanced operation from 20 Hz - 20 kHz.

## **Features**

- ➔ **3-way stereo/4-way and 5-way mono operation**
- ➔ **Variable-state filter controls**
- ➔ **24 dB/octave filters**
- ➔ **Mute capabilities for each output level control**
- ➔ **XLR inputs and outputs for balanced operation**
- ➔ **20 Hz - 20 kHz operation**

# STEREO MODE OPERATION

## FRONT PANEL



### **INPUT GAIN CONTROL (Channel 1) (1)**

This control is used to optimize channel 1 gain between the mixer and the power amps for channel 1. The control range is between -12 dB and +12 dB.

### **CLIP INDICATOR (Channel 1) (2)**

When illuminated, the red Clip indicator located to the upper right of the Input Gain control indicates that the signal is clipping. This clipping may be heard as distortion. While there should be no problem if this indicator flashes occasionally, it should never flash constantly or stay illuminated. This could result in impaired system performance and possible loudspeaker damage.

### **CROSSOVER SELECTOR CONTROL (Channel 1 lows/mids) (3)**

This allows users to choose their desired crossover points for lows and the low side of the mids for channel 1. The control range is between 80 Hz and 900 Hz or 800 Hz and 9 kHz, depending on the position of the Range switch.

### **RANGE (x10) SWITCH (Channel 1 lows/mids) (4)**

This switch multiplies the value indicated on the Crossover Selector control for the lows and the low side of the mids times 10. When engaged, the range will change from 80 Hz - 900 Hz to 800 Hz - 9 kHz. Range x10 is indicated by the illumination of the red LED above the switch.

### **CROSSOVER SELECTOR CONTROL (Channel 1 mids/highs) (5)**

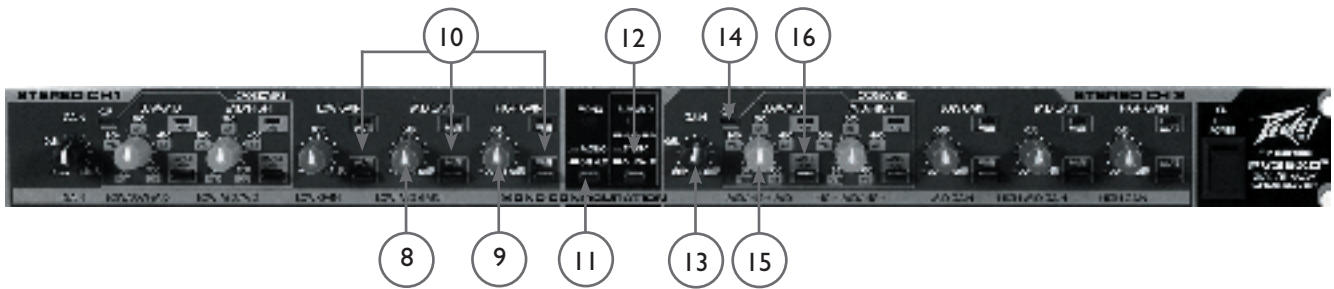
This allows users to choose their desired crossover points for the high side of the mids and the highs for channel 1. The control range is between 80 Hz and 900 Hz or 800 Hz and 9 kHz, depending on the position of the Range switch.

### **RANGE (x10) SWITCH (Channel 1 mids/highs) (6)**

This switch multiplies the value indicated on the Crossover Selector control for the high side of the mids and the highs times 10. When engaged, the range will change from 80 Hz - 900 Hz to 800 Hz - 9 kHz. Range x10 is indicated by the illumination of the red LED above the switch.

### **LOW GAIN CONTROL (Channel 1) (7)**

This controls the output level of channel 1 low frequency signal (signal below the selected low/mid crossover point) present at the channel 1 low output XLR.



### **MID GAIN CONTROL (Channel 1) (8)**

This controls the output level of the channel 1 mid frequency signal (signal above the selected low/mid crossover point and below the selected mid/high crossover point) present at the channel 1 mid output XLR.

### **HIGH GAIN CONTROL (Channel 1) (9)**

This controls the output level of the channel 1 high frequency signal (signal above the selected mid/high crossover point) present at the channel 1 high output XLR.

### **OUTPUT MUTE SWITCHES (Channel 1) (10)**

This mutes the output of the associated level controls. The Mute function will be indicated by the illumination of the red LED located above the associated switch.

### **MODE SWITCH (11)**

This switch selects between stereo 3-way operation and mono 5-way operation. The red LED above the Mode switch indicates mono mode. When this switch is engaged, the crossover is in mono operation.

### **SUBS OUT SUMMED SWITCH (12)**

This switch combines the sub frequencies of both channel 1 and channel 2 into a single output, which allows you to use half as many amplifiers as you would with two channels of subs. The Summed function will be indicated by the illumination of the red LED above the switch.

### **INPUT GAIN CONTROL (Channel 2) (13)**

This control is used to optimize the channel 2 gain between the mixer and the power amps for channel 2. The control range is between -12 dB and +12 dB.

### **CLIP INDICATOR (Channel 2) (14)**

When illuminated, the red Clip indicator located to the upper right of the Input Gain control indicates that the signal is clipping. This clipping may be heard as distortion. While there should be no problem if this indicator flashes occasionally, it should never flash constantly or stay illuminated. This could result in impaired system performance and possible loudspeaker damage.

### **CROSSOVER SELECTOR CONTROL (Channel 2 lows/mids) (15)**

This allows users to choose their desired crossover points for lows and the low side of the mids for channel 2. The control range is between 80 Hz and 900 Hz or 800 Hz and 9 kHz, depending on the position of the Range switch.

### **RANGE (x10) SWITCH (Channel 2 lows/mids) (16)**

This switch multiplies the value indicated on the Crossover Selector control for the lows and the low side of the mids times 10. When engaged, the range will change from 80 Hz - 900 Hz to 800 Hz - 9 kHz. Range x10 is indicated by the illumination of the red LED above the switch.





**CROSSOVER SELECTOR CONTROL (Channel 2 mids/highs) (17)**

This allows users to choose their desired crossover points for the high side of the mids and the highs for channel 2. The control range is between 80 Hz and 900 Hz or 800 Hz and 9 kHz, depending on the position of the Range switch.

**RANGE (x10) SWITCH (Channel 2 mids/highs) (18)**

This switch multiplies the value indicated on the Crossover Selector control for the high side of the mids and the highs times 10. When engaged, the range will change from 80 Hz - 900 Hz to 800 Hz - 9 kHz. Range x10 is indicated by the illumination of the red LED above the switch.

**LOW GAIN CONTROL (Channel 2) (19)**

This controls the output level of the channel 2 low frequency signal (signal below the selected low/mid crossover point) present at channel 2 low output XLR.

**MID GAIN CONTROL (Channel 2) (20)**

This controls the output level of the channel 2 mid frequency signal (signal above the selected low/mid crossover point and below the selected mid/high crossover point) present at channel 2 mid output XLR.

**HIGH GAIN CONTROL (Channel 2) (21)**

This controls the output level of channel 2 high frequency signal (signal above the selected mid/high crossover point) present at channel 2 high output XLR.

**OUTPUT MUTE SWITCHES (Channel 2) (22)**

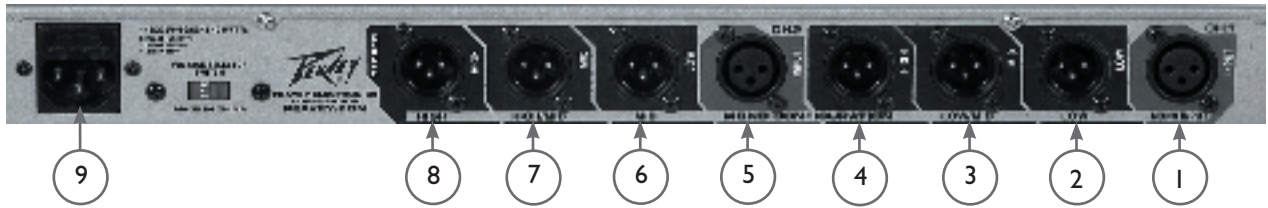
This mutes the output of the associated level controls. The Mute function will be indicated by the illumination of the red LED located above the associated switch.

**POWER SWITCH (23)**

This 2-position rocker switch applies mains power to the unit when in the ON position. Power ON is indicated by red LED located above of the Power switch.

**⚡ WARNING ⚠**

THE ON/OFF SWITCH IN THIS APPARATUS DOES NOT BREAK BOTH SIDES OF THE MAINS. HAZARDOUS ENERGY MAY BE PRESENT INSIDE THE ENCLOSURE WHEN THE POWER SWITCH IS IN THE OFF POSITION.



**INPUT (Channel 1) (1)**

This XLR female 3-pin connector provides a balanced input for channel 1.

**LOW OUTPUT (Channel 1) (2)**

This XLR male 3-pin connector provides a balanced output for the low frequencies for channel 1.

**MID OUTPUT (Channel 1) (3)**

This XLR male 3-pin connector provides a balanced output for the mid frequencies for channel 1.

**HIGH OUTPUT (Channel 1) (4)**

This XLR male 3-pin connector provides a balanced output for the high frequencies for channel 1.

**INPUT (Channel 2) (5)**

This XLR female 3-pin connector provides a balanced input for channel 2.

**LOW OUTPUT (Channel 2) (6)**

This XLR male 3-pin connector provides a balanced output for the low frequencies for channel 2.

**MID OUTPUT (Channel 2) (7)**

This XLR male 3-pin connector provides a balanced output for the mid frequencies for channel 2.

**HIGH OUTPUT (Channel 2) (8)**

This XLR male 3-pin connector provides a balanced output for the high frequencies for channel 2.

**IEC MAINS CONNECTOR (9)**

This is a standard IEC power connector. An AC mains cord having the appropriate AC plug and ratings for the intended operating voltage is included in the carton.



Never break off the ground pin on any equipment. It is provided for your safety. If the outlet used does not have a ground pin, a suitable grounding adapter should be used and the third wire should be grounded properly. To prevent the risk of shock or fire hazard, always make sure that the equalizer and all associated equipment is properly grounded.

Incorporated into this IEC MAINS CONNECTOR is the MAINS FUSE HOLDER. If for any reason you are unable to power up this unit, remove the fuse by pulling out the holder. Check to see if the fuse is operational. If not, then replace with a fuse of the appropriate value and rating. If the fuse continues to fail contact your nearest Certified Peavey Service Center.



**FRONT PANEL**



**INPUT GAIN CONTROL (1)**

This control is used to optimize the gain between the mixer and the power amps. The control range is between -12 dB and +12 dB.

**CLIP INDICATOR (2)**

When illuminated, the red Clip indicator located to the upper right of the Input Gain control indicates that the signal is clipping. This clipping may be heard as distortion. While there should be no problem if this indicator flashes occasionally, it should never flash constantly or stay illuminated. This could result in impaired system performance and possible loudspeaker damage.

**CROSSOVER SELECTOR CONTROL (lows/low-mids) (3)**

This allows users to choose their desired crossover points for lows and the low side of the low-mids. The control range is between 80 Hz and 900 Hz or 800 Hz and 9 kHz, depending on the position of the Range switch.

**RANGE (x10) SWITCH (lows/low-mids) (4)**

This switch multiplies the value indicated on the Crossover Selector control for the lows and the low side of the low-mids times 10. When engaged, the range will change from 80 Hz - 900 Hz to 800 Hz - 9kHz. Range x10 is indicated by the illumination of the red LED above the switch.

**CROSSOVER SELECTOR CONTROL (low-mid/mids) (5)**

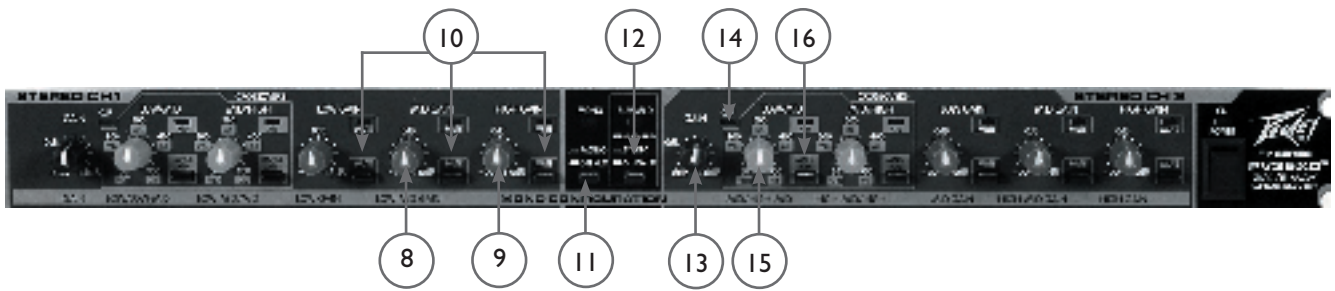
This allows users to choose their desired crossover points for the high side of the low-mids and the low side of the mids. The control range is between 80 Hz and 900 Hz or 800 Hz and 9 kHz, depending on the position of the Range switch.

**RANGE (x10) SWITCH (low-mid/mids) (6)**

This switch multiplies the value indicated on the Crossover Selector control for the high side of the low-mids and the low side of the mids times 10. When engaged, the range will change from 80 Hz - 900 Hz to 800 Hz - 9 kHz. Range x10 is indicated by the illumination of the red LED above the switch.

**LOW GAIN CONTROL (7)**

This controls the output level of the low frequency signal (signal below the selected low/low-mid crossover point) present at low output XLR.



### **LOW-MID GAIN CONTROL (8)**

This controls the output level of the low-mid frequency signal (signal above the selected low/low-mid crossover point and below the selected low-mid/mid crossover point) present at low-mid output XLR.

### **HIGH GAIN CONTROL (Channel 1) (9)**

This function is non-operational in MONO mode.

### **OUTPUT MUTE SWITCHES (Channel 1) (10)**

This mutes the output of the associated level controls for lows and low-mids signals. The Mute function will be indicated by the illumination of the red LED located above the associated switch.

### **MODE SWITCH (11)**

This switch selects between stereo 3-way operation and mono 5-way operation. The red LED above Mode switch indicates mono mode. When the switch is engaged, the crossover is in mono operation.

### **SUBS OUT SUMMED SWITCH (12)**

This function is non-operational in MONO mode.

### **INPUT GAIN CONTROL (Channel 2) (13)**

This function is non-operational in MONO mode.

### **CLIP INDICATOR (Channel 2) (14)**

This function is non-operational in MONO mode.

### **CROSSOVER SELECTOR CONTROL (mids/high-mids) (15)**

This allows users to choose their desired crossover points for the high side of the mids and the low side of the high-mids. The control range is between 80 Hz and 900 Hz or 800 Hz and 9 kHz, depending on the position of the Range switch.

### **RANGE (x10) SWITCH (mids/high-mids) (16)**

This switch multiplies the value indicated on the Crossover Selector control for the high side of the mids and the low side of the high-mids times 10. When engaged, the range will change from 80 Hz - 900 Hz to 800 Hz - 9 kHz. Range x10 is indicated by the illumination of the red LED above the switch.



**CROSSOVER SELECTOR CONTROL (high-mids/highs) (17)**

This allows users to choose their desired crossover points for the high side of the high-mids and the highs. The control range is between 80 Hz and 900 Hz or 800 Hz and 9 kHz, depending on the position of the Range switch.

**RANGE (x10) SWITCH (high-mids/highs) (18)**

This switch multiplies the value indicated on the Crossover Selector control for the high side of the high-mids and the highs times 10. When engaged, the range will change from 80 Hz - 900 Hz to 800 Hz - 9 kHz. Range x10 is indicated by the illumination of the red LED above the switch.

**MID GAIN CONTROL (19)**

This controls the output level of the mid frequency signal (signal above the selected low-mid/mid crossover point and below the selected mid/high-mid crossover point) present at mid output XLR.

**HIGH-MID GAIN CONTROL (20)**

This controls the output level of the high-mid frequency signal (signal above the selected high-mid/mid crossover point and below the selected high crossover point) present at high-mid output XLR.

**HIGH GAIN CONTROL (21)**

This controls the output level of high frequency signal (signal above the selected high-mid/high crossover point) present at high output XLR.

**OUTPUT MUTE SWITCHES (Channel 2) (22)**

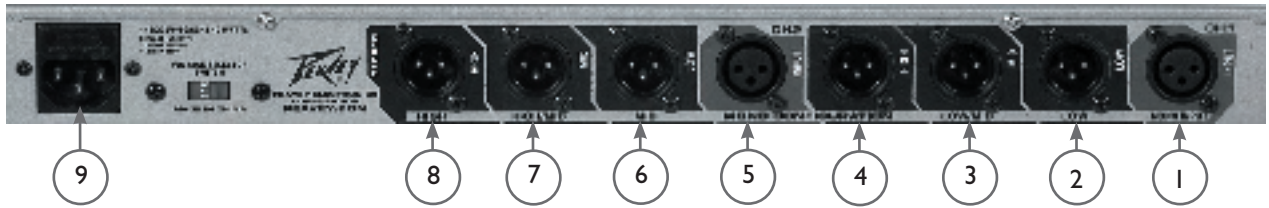
This mutes the output of the associated level controls. The Mute function will be indicated by the illumination of the red LED located above the associated switch.

**POWER SWITCH (23)**

This 2-position rocker switch applies mains power to the unit when in the ON position. Power ON is indicated by red LED located above the Power Switch.

**⚡ WARNING ⚠**

THE ON/OFF SWITCH IN THIS APPARATUS DOES NOT BREAK BOTH SIDES OF THE MAINS. HAZARDOUS ENERGY MAY BE PRESENT INSIDE THE ENCLOSURE WHEN THE POWER SWITCH IS IN THE OFF POSITION.



**INPUT (1)**

This XLR female 3-pin connector provides a balanced input.

**LOW OUTPUT (2)**

This XLR male 3-pin connector provides a balanced output for the low frequencies.

**LOW-MID OUTPUT (3)**

This XLR male 3-pin connector provides a balanced output for the low side of the mid frequencies.

**HIGH OUTPUT (Channel 1) (4)**

This function is non-operational in MONO mode.

**INPUT (Channel 2) (5)**

This function is non-operational in MONO mode.

**MID OUTPUT (6)**

This XLR male 3-pin connector provides a balanced output for the mid frequencies.

**HIGH-MID OUTPUT (7)**

This XLR male 3-pin connector provides a balanced output for the high side of the mid frequencies.

**HIGH OUTPUT (8)**

This XLR male 3-pin connector provides a balanced output for the high frequencies.

**IEC MAINS CONNECTOR (9)**

This is a standard IEC power connector. An AC mains cord having the appropriate AC plug and ratings for the intended operating voltage is included in the carton.



Never break off the ground pin on any equipment. It is provided for your safety. If the outlet used does not have a ground pin, a suitable grounding adapter should be used and the third wire should be grounded properly. To prevent the risk of shock or fire hazard, always make sure that the equalizer and all associated equipment is properly grounded.

Incorporated into this IEC MAINS CONNECTOR is the MAINS FUSE HOLDER. If for any reason you are unable to power up this unit, remove the fuse by pulling out the holder. Check to see if the fuse is operational. If not, then replace with a fuse of the appropriate value and rating. If the fuse continues to fail contact your nearest Certified Peavey Service Center.

# *PV<sup>®</sup> 35X0*

## *3-Way Stereo/4-Way or 5-Way Mono Crossover*

### SPECIFICATIONS

**Bandwidth:** 20 Hz - 20 kHz

**Frequency Response:** 20 Hz - 20 kHz +/- 1 dB

**THD:** 20 Hz - 20 kHz .005 dB %

**Signal to Noise:** -92 dB

**Filter Type:** 24 dB/Octave

**Variable State Control Range:**

	<b>Stereo Mode</b>	<b>Mono Mode</b>
Low/Mid	Range x1 = 80 Hz - 900 Hz Range x10 = 800 Hz - 9 kHz	
Mid/High	Range x1 = 80 Hz - 900 Hz Range x10 = 800 Hz - 9 kHz	
Low/Low-Mid		Range x1 = 80 Hz - 900 Hz Range x10 = 800 Hz - 9 kHz
Low-Mid/Mid		Range x1 = 80 Hz - 900 Hz Range x10 = 800 Hz - 9 kHz
Mid/High-Mid		Range x1 = 80 Hz - 900 Hz Range x10 = 800 Hz - 9 kHz
High-Mid/High		Range x1 = 80 Hz - 900 Hz Range x10 = 800 Hz - 9 kHz



Features and specifications subject to change without notice.

Peavey Electronics Corporation • 711 A Street • Meridian • MS • 39301

(601) 483-5365 • FAX (601) 486-1278 • [www.peavey.com](http://www.peavey.com)

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