

PEAVEY[®]
ARCHITECTURAL ACOUSTICS™

PERFORMANCE SERIES CONSOLE

SPECIFICATIONS

FEATURES:

- **Ultra Low-Noise Design**
- **Totally Modular Concept**
- **Differential Signal Routing**
- **Input Channel Flexibility**
- **Electronically Balanced Inputs**
- **Transformer Balanced Outputs**
- **Monocoque Chassis**
- **Gold Plated Interconnects**
- **Easily Changeable Modules**
- **External Power Supply**
- **Premium Faders**

DESCRIPTION:

The Performance Series™ Console is totally modular not only from the standpoint of removable modules, but also from the fact that the integrity of each module is preserved from the input to the 100 mm fader. The entire array of input jacks, all patch points, and all the electronic circuitry for that particular module can be removed as one unit. From a service standpoint, a module may be easily checked out on the bench outboard from the console mainframe because it is whole and complete when removed from the console.

The Performance Series offers the mix capability of eight (8) submasters that may be mixed into stereo (left and right). The submaster outputs are

assignable to the Left and Right mixes through a pan assign, but may also be configured to obtain eight separate outputs for theater applications or whenever multiple outputs are needed. Two (2) additional monaural Matrix mixes and two (2) stereo Remote Monitor and Control Monitor mixes may be derived from the Performance Series as well.

The Performance Series Console is equipped with built-in Clear-Com® compatible intercom facilities that will interface with most popular intercom systems. There is also a Talkback section that can be assigned to all AUX mixes, Left and Right mixes, or Remote Monitor.

There are eight (8) AUX sends that may be configured pre or post EQ, or pre or post Fader, feeding eight (8) AUX outputs. The eight (8) AUX returns are equipped with three bands of EQ, PFL, and are assignable to any of the submasters or directly to Left and Right.

ARCHITECTURAL AND ENGINEERING SPECIFICATIONS:

The mixing console shall have a mainframe which accommodates the following: 36 input channels for Model 3680, 24 input channels for Model 2480, 8 submaster modules,

a Left and a Right Master module, and an Intercom module. The mainframe will be capable of mounting on a table, shelf, or stand with all electronics self-contained except for the external rack-mount power supply.

The mainframe shall include an attached meter bridge, housing eleven 10-LED peak reading meters for monitoring the 8 submaster outputs, Left & Right master outputs, and the Pre Fader Listen bus.

Each Input module shall include a rear mounted, electronically balanced microphone input using female XLR-3 type connectors to accept nominal input levels -60 dBV to 0 dBV. Each module shall also include ¼" Tip-Sleeve phone jacks, nominal level 0 dBV (1V RMS), for patching of external equipment comprising a pre fader send, pre fader return, post fader send, and post fader return.

The console output shall be 8 Group outputs using ¼" Tip/Sleeve type connectors with 0 dBV (1V RMS) nominal output. Left and Right line outputs using male XLR-3 type connectors with 0 dBV nominal output, and 8 auxiliary outputs using male XLR-3 type connectors with 0 dBV nominal output. All line outputs on XLR-3 type connectors are transformer balanced.

SPECIFICATIONS:

CHANNEL MODULE

MICROPHONE INPUT (BALANCED XLR)

Equivalent Input Noise
-133 dBV (150 ohm source)

Phantom Power
+48V DC (switchable)

Input Pad
-20 dB (switchable)

Input Impedance
2K ohms (Pad in or out)

Maximum Available Gain
70 dB (Mic to Post Send)

Line Input (Balanced Phone Jack)

Input Impedance
20 K ohms

Maximum Available Gain
60 dB (Line to Post Send)

Frequency Response
+0, -1 dB, 20 Hz to 20 kHz
(Mic or Line to Post Send)
(with EQ Bypassed)

Distortion
0.01% THD (Mic to Post Send)
0.01% THD (Line to Post Send)

PRE & POST SENDS

Output Impedance
100 ohms (unbalanced)

Nominal Output Level
0 dBV, 1V RMS

Maximum Output Level
+18 dBV, 8V RMS

PRE & POST RETURNS

Input Impedance
10K ohms (unbalanced)

Nominal Input Level
0 dBV, 1V RMS

EQUALIZATION

Hi
±15 dB Shelving

Hi Frequency
3 kHz to 15 kHz

Hi Mid
±15 dB peak/notch

Hi-Mid Frequency
600 Hz to 6 kHz

Low Mid
±15 dB peak/notch

Low-Mid Frequency
200 Hz to 2 kHz

Low
±15 dB Shelving

Low Frequency
50 Hz to 500 Hz

Hi Pass Filter
50 Hz, 12 dB/octave

Mute
90 dB

Fader Attenuation
-90 dB (1 kHz)

SUB MODULE

AUX RETURN

Input Impedance
100K ohms (unbalanced)

Nominal Input Level
-10 dBV, 0.3V RMS

Equalization
Hi: ±15 dB, 80 Hz shelving
Mid: ±12 dB, 500 Hz shelving
Low: ±15 dB, 8 kHz shelving

AUX MASTER/OUTPUT

Output Impedance
100 ohms (unbalanced)

Nominal Output Level
0 dBV, 1V RMS

Maximum Output Level
24 dBV, 16V RMS

LINE AMP

Transformer Balanced

Nominal Input/Output Level
0 dBV, 1V RMS

Maximum Input/Output Level
24 dBV, 16V RMS

SUBMASTER

Frequency Response
0, -1 dB, 20 Hz to 20 kHz
(Aux in to Sub Out)

Mix Pad
-10 dB (switchable)

Bus Crosstalk
-80 dB (1 kHz)

Distortion
0.01% THD (AUX in to Sub Out)

Fader Attenuation
-90 dB (1 kHz)

SUB OUTPUTS

Output Impedance
100 ohms unbalanced

Nominal Output Level
0 dBV, 1V RMS

MATRIX MODULE

MATRIX A AUX INPUT

Input Impedance
10K ohms

Nominal Input Level
1V RMS (0 dBV)

Maximum Input Level
8V RMS (+18 dBV)

OUTPUT

Output Impedance
100 ohms

Nominal Output Level
1V RMS (0 dBV)

Maximum Output Level
15.8V RMS (+24 dBV)

LINE OUTPUT

Transformer Balanced

Output Impedance

100 ohms
Nominal Output Level
1V RMS (0 dBV)

Maximum Output Level
15.8V RMS (+24 dBV)

Distortion
0.01% THD (AUX In to Matrix B Out)

MATRIX B AUX INPUT

Input Impedance
10K ohms

Nominal Input Level
1V RMS (0 dBV)

Maximum Input Level
8V RMS (+18 dBV)

OUTPUT

Output Impedance
100 ohms

Nominal Input Level
1V RMS (0 dBV)

Maximum Output Level
15.8V RMS (+24 dBV)

LINE INPUT

Input Impedance
6.6K ohms

Nominal Input Level
1V RMS (0 dBV)

Maximum Input Level
15.8V RMS (24 dBV)

LINE OUTPUT

Transformer Balanced

Output Impedance
100 ohms

Nominal Output Level
1V RMS (0 dBV)

Maximum Output Level
15.8V RMS (24 dBV)

Distortion
0.01% THD (AUX In to Matrix A Out)

LEFT MODULE

Bus Crosstalk
-80 dB (1 kHz)

Distortion
0.01% THD (AUX In to Sub Out)

Fader Attenuation
-90 dB (1 kHz)

CONTROL MONITOR

Frequency Response
+0, -1 dB, 20 Hz to 20 kHz

Output Impedance
100 ohms unbalanced

Nominal Output Level
0 dBV, 1V RMS

Maximum Output Level
+18 dBV, 8V RMS

REMOTE MONITOR

Frequency Response
+0, -1 dB, 20 Hz to 20 kHz

Output Impedance

100 ohms unbalanced

Nominal Output Level

0 dBV, 1V RMS

Maximum Output Level

+18 dBV, 8V RMS

SLATE**Frequencies**

100 Hz, 1 kHz, 10 kHz

Distortion

1% Typical

Level

1V RMS at full CW rotation of Slate Level (internally adjustable)

External Level

1V RMS Nominal

External Input Impedance

6.8K ohms Min.

**LEFT MASTER
AUX INPUT****Input Impedance**

10K ohms

Nominal Input Level

1V RMS (0 dBV)

Maximum Input Level

8V RMS (+18 dBV)

OUTPUT**Output Impedance**

100 ohms

Nominal Output Level

1V RMS (0 dBV)

Maximum Output Level

15.8V RMS (+24 dBV)

LINE INPUT**Input Impedance**

6.6K ohms

Nominal Input Level

1V RMS (0 dBV)

Maximum Input Level

15.8V RMS (+24 dBV)

LINE OUTPUT

Transformer Balanced

Output Impedance

100 ohms

Nominal Output Level

1V RMS (0 dBV)

Maximum Output Level

15.8V RMS (+24 dBV)

RIGHT MODULE**Bus Crosstalk**

-80 dB (1 kHz)

Distortion

0.01% THD (AUX In to Sub Out)

Fader Attenuation

-90 dB (1 kHz)

CD/TAPE INPUT**Input Impedance**

55K ohms

MAXIMUM INPUT LEVEL

2V RMS

Equalization

Hi: ±15 dB, 80 Hz shelving

Mid: ±12 dB, 600 Hz peak/notch

Low: ±15 dB, 8 kHz shelving

**PFL INPUT
TIP****Input Impedance**

33K ohms

Nominal Input Level

1V RMS (0 dBV)

Maximum Input Level

8V RMS (+18 dBV)

Ring (Control Logic)

TTL/CMOS logic level compatible

**PFL OUTPUT
TIP****Output Impedance**

1K ohms

Nominal Output Level

1V RMS (0 dBV)

Maximum Output Level

8V RMS (+18 dBV)

Ring (Control Logic)

Switch Closure to Ground (TTL/CMOS Compatible — No Pull Up)

**RIGHT MASTER
AUX INPUT****Input Impedance**

10K ohms

Nominal Input Level

1V RMS (0 dBV)

Maximum Input Level

8V RMS (+18 dBV)

OUTPUT**Output Impedance**

100 ohms

Nominal Output Level

1V RMS (0 dBV)

Maximum Output Level

15.8V RMS (+24 dBV)

LINE INPUT**Input Impedance**

6.6K ohms

Nominal Input Level

1V RMS (0 dBV)

Maximum Input Level

15.8V RMS (+24 dBV)

LINE OUTPUT

Transformer Balanced

Output Impedance

100 ohms

Nominal Output Level

1V RMS (0 dBV)

Maximum Output Level

15.8V RMS (+24 dBV)

COMMUNICATIONS MODULE**INPUT POWER**

+16V DC ±5% @ 2 amps max.

-16V DC ±5% @ 2 amps max.

+32V DC unregulated @ 1.5 amps max.

-32V DC unregulated @ 1.5 amps max.

+5V DC unregulated @ 4 amps max.

HEADPHONE**Power**

150 mW each Left and Right @ 8 ohms

Impedance

8-300 ohms

HEADSET (XLR)**Mic Impedance**

150-600 ohms unbalanced

Mic Sensitivity

-50 dB

Phones Impedance

300 ohms

Phones Power

160mW

HEADSET (¼")**Phones Impedance**

300 ohms nominal

Phones Power

160mW

Mic Sensitivity

-50 dB

INTERCOM**Intercom Power**

+28V DC @ 1 amp max.

Side Tone

-25 dB

EXTERNAL POWER SUPPLY

100V AC, 120V AC, 220V AC, 240V AC, 50-60 Hz

Rack-mountable (2 rack spaces)

LED voltage indicators

20' cable with dual 10 pin connectors

WEIGHT & DIMENSIONS**36 CHANNEL MAINFRAME****Depth**

33¾" (858mm)

Width69⁵/₈" (1768mm)**Height**

14¼" (362mm)

Weight

190 lbs. (85 Kg)

24 CHANNEL MAINFRAME**Depth**

33¾" (858mm)

Width53¹/₈" (1349mm)**Height**

14¼" (362mm)

Weight

146 lbs. (66 Kg)

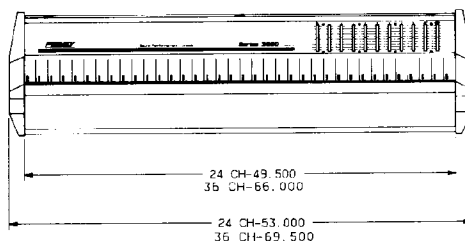
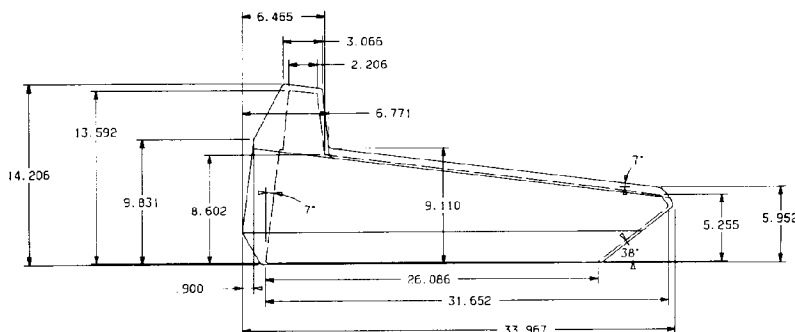
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