



## OPERATIONS MANUAL

Bedienungsanleitung

Manual de funcionamiento

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Manual del utente

# PS-1000 PRO

## PROFESSIONAL STEREO PREAMP MIXER

Professioneller Stereo Vorverstärkermischpult

Mezclador-preamplificador estereofónico para el profesional

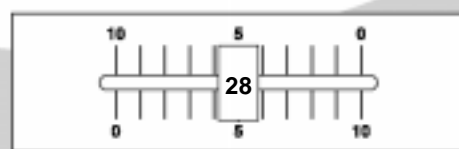
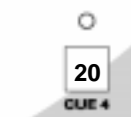
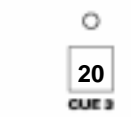
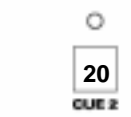
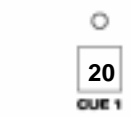
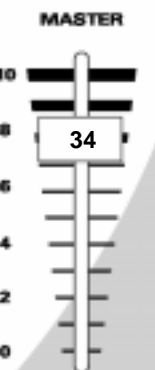
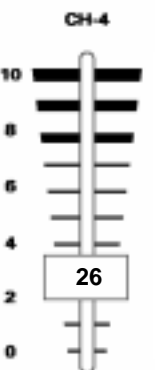
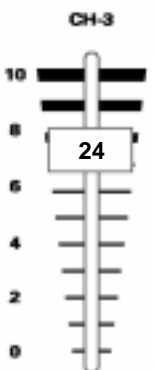
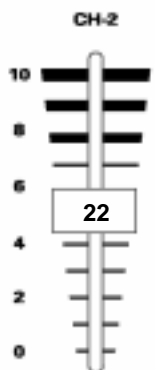
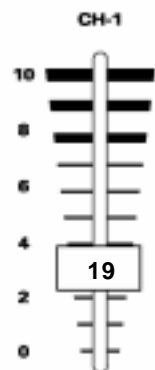
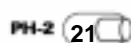
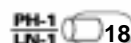
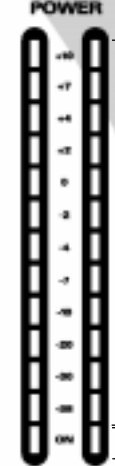
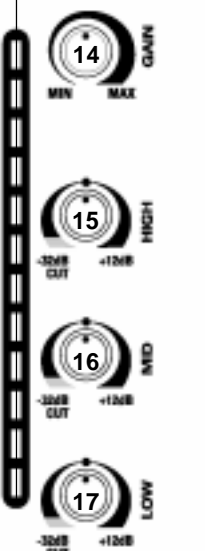
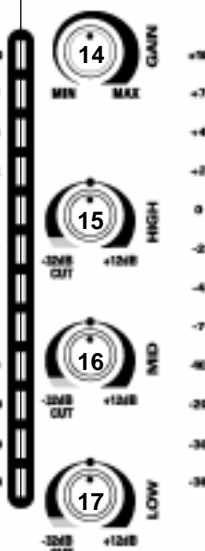
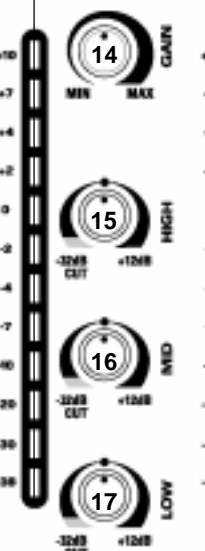
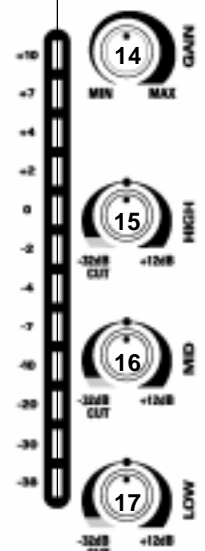
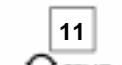
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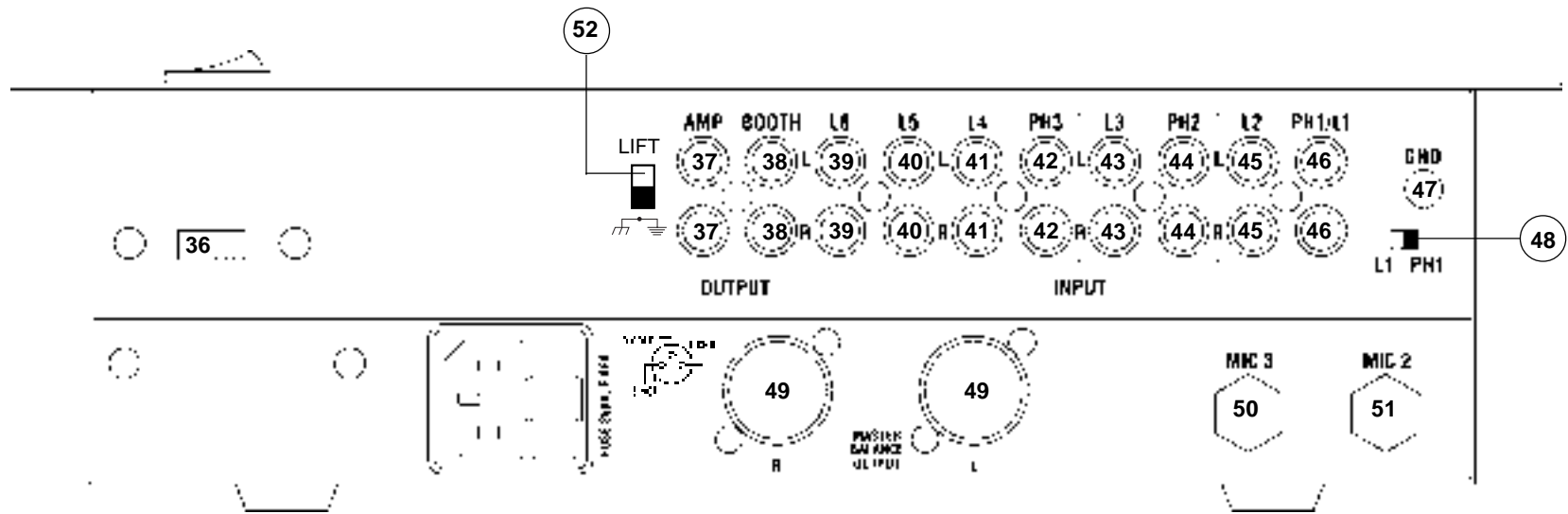
Miscelatore-preamplificatore stereofonico per il professionale

# PS-1000 pro

**geminii**

PRO STEREO PREAMP MIXER





## Introduction

Congratulations on purchasing the Gemini PS-1000 PRO mixer. This state of the art mixer is backed by a three year warranty, excluding crossfader and channel slides. Prior to use, we suggest that you carefully read all the instructions.

## Features

- 4 Stereo Channels
- State of the Art Cue Section
- 1 Phono/Line Convertible, 2 Phono, 5 Line, and 3 Mic Inputs
- Cut Feature for Low, Mid and High for each channel
- Gain, High, Mid and Low tone controls for each channel
- Talkover
- Balanced and Unbalanced Master Outputs
- Booth Output
- Master Output Peak Hold LED Meters
- Prefader Input Level Peak Hold LED Meters for each channel

## Cautions

1. Always test equipment before rack mounting. Retain a copy of your sales receipt for warranty purposes.
2. All operating instructions should be read before using this equipment.
3. To reduce the risk of electrical shock, do not open the unit. There are NO USER REPLACEABLE PARTS INSIDE. Please refer servicing to a qualified service technician.

**In the U.S.A., if you have any problems with this unit, call 1-732-969-9000 for customer service. Do not return equipment to your dealer.**

4. Do not expose this unit to direct sunlight or to a heat source such as a radiator or stove.
5. This unit should be cleaned only with a damp cloth. Avoid solvents or other cleaning detergents.
6. When moving this equipment, it should be placed in its original carton and packaging. This will reduce the risk of damage during transit.
7. DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.
8. DO NOT USE ANY SPRAY CLEANER OR LUBRICANT ON ANY CONTROLS OR SWITCHES.

## Connections

1. Before plugging in the power cord, make sure that the **VOLTAGE SELECTOR (36)** switch is set to the correct voltage.

**NOTE: This product is double insulated and not intended to be grounded.**

2. Make sure that the **POWER (1)** switch is in the off position. The **POWER LED (2)** will be off.
3. The PS-1000 PRO is supplied with 2 sets of amp output jacks. The **BALANCED OUTPUT AMP (49)** jacks are used to connect to your main amplifier using standard XLR cables. We recommend using the balanced amp outputs if the cables to your amp are 25 feet or more. Balanced outputs have three separate conductors, two of which

are signal (positive and negative) and one shield (ground). Pin 1 is ground (shield). Pin 2 is signal hot (positive). Pin 3 is signal cold (negative). The **OUTPUT AMP (37)** jacks are unbalanced and used to connect to your main amplifier. The **OUTPUT BOOTH (38)** jacks allow you to hook up an additional amplifier.

4. The **MIC 1 (3)** input (found on the front panel) accepts a 1/4" or XLR connector. The **MIC 2 (51)** input and the **MIC 3 (50)** input (found on the rear panel) accept 1/4" connectors. All accept balanced and unbalanced microphones.
5. On the rear panel are 1 stereo **PHONO/LINE (46)** input, 2 stereo **PHONO (42, 44)** inputs, and 5 stereo **LINE (39, 40, 41, 43, 45)** inputs. The **PHONO/LINE SWITCH (48)** enables you to set the (46) input to Phono or Line. The phono inputs will accept only turntables with a magnetic cartridge. A **GROUND SCREW (47)** for you to ground your turntables is located on the rear panel. The stereo line inputs will accept any line level input such as a CD player, a cassette player, etc.
6. Headphones can be plugged into the front panel mounted **HEADPHONE (13)** jack.

## Using the Ground Lift Switch

Depending on your system configuration, sometimes applying the ground will create a quieter signal path. Sometimes lifting the ground can eliminate ground loops and hum to create a quieter signal path.

1. With the mixer on, listen to the system in idle mode (no signal present) with the ground applied (the **GROUND LIFT SWITCH (52)** in the bottom position).
2. **Then turn the power off before moving the GROUND LIFT SWITCH (52).** Lift the ground by moving the **GROUND LIFT SWITCH (52)** to the top position, turn the power back on and listen to determine which position will provide a signal devoid of background noise and hum. Keep the **GROUND LIFT SWITCH** in the ground position if the noise level remains the same in either position.

**CAUTION: DO NOT TERMINATE THE AC GROUND ON THE POWER MIXER IN ANY WAY. TERMINATION OF THE AC GROUND CAN BE HAZARDOUS.**

## Operation

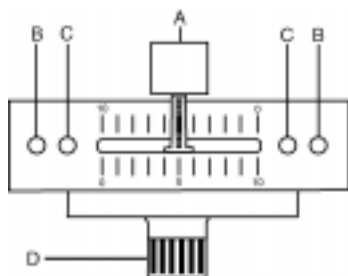
1. **POWER ON:** Once you have made all the equipment connections to your mixer, press the **POWER SWITCH (1)**. The power will turn on and the **POWER LED (2)** will glow.
2. **CHANNEL 1:** The **GAIN (14), HIGH (15), MID (16), and LOW (17)** controls allow you to fully adjust the selected source. Switch # **(18)** allows you to select the **PHONO 1/LINE 1 (46)** or the **LINE 2 (45)** input. The **CHANNEL SLIDE (19)** controls the input level of this channel.
3. **CHANNEL 2:** The **GAIN (14), HIGH (15), MID (16), and LOW (17)** controls allow you to fully adjust the selected source. Switch # **(21)** allows you to select the **PHONO 2 (44)** or the **LINE 3 (43)** input. The **CHANNEL SLIDE (22)** controls the input level of this channel.
4. **CHANNEL 3:** The **GAIN (14), HIGH (15), MID (16), and LOW (17)** controls allow you to fully adjust the selected source. Switch # **(23)** allows you to select the **PHONO 3 (42)** or the **LINE 4 (41)** input. The **CHANNEL SLIDE (24)** controls the input level of this channel.
5. **CHANNEL 4:** The **GAIN (14), HIGH (15), MID (16), and LOW (17)** controls allow you to fully adjust the selected source. Switch # **(25)** allows you to select the **LINE 5 (40), LINE 6 (39)** or the **MIC 3 (50)** input. The **CHANNEL SLIDE (26)** controls the input level of this channel.

**NOTE: There is Low, Mid and High equalization for each channel with an extremely wide range of adjustment providing a smoother mix.**

**SUGGESTION:** You can use the Cut Features on each channel to remove Low, Mid and/or High to create special effects.

6. **CROSSFADER SECTION:** The **CROSSFADER (28)** allows the mixing of one source into another. The PS-1000 PRO features an assignable crossfader. The **ASSIGN (27, 29)** switches allow you to select which channel will play through each side of the crossfader. The **ASSIGN (27)** switch has 5 settings (OFF, 1, 2, 3 or 4) and allows you to select channel 1, 2, 3 or 4 to play through the left side of the crossfader. The **ASSIGN (29)** switch has 5 settings (OFF, 1, 2, 3 or 4) and allows you to select channel 1, 2, 3 or 4 to play through the right side of the crossfader. With the **ASSIGN** switch in the off position, that side of the crossfader will be inactive. The **CROSSFADER (28)** in your unit is removable and if the need arises can be easily replaced. Crossfader units are available in three varieties. Part # RF-45 (which is identical to the crossfader supplied with the mixer) has a 45 mm travel from side to side. Part # RF-30 is available with a 30 mm travel distance. Also available is the PSF-45 with a special curve designed for scratch mixing. Just purchase one of these crossfader units from your Gemini dealer and follow these instructions:

1. Unscrew the outside FADER PLATE SCREWS (B). Do not touch the INSIDE SCREWS (C).
2. Carefully lift the fader and unplug the CABLE (D).
3. Plug the new fader into the cable and place it back in the mixer.
4. Screw the fader to the mixer.



7. **OUTPUT CONTROL SECTION:** The level of the **AMP OUT (37, 49)** is controlled by the **MASTER (34)** slide and the **BALANCE CONTROL (33)**. The **BOOTH (35)** control adjusts the level of the **BOOTH OUTPUT (38)**. HINT: The booth OUTPUT is used by some DJs to run monitor speakers in their DJ booth. You can also use it as a second ZONE or AMP output. Activating the **MONO (32)** button (the mono LED will light) makes the master output mono.
8. **TALKOVER SECTION:** The purpose of the talkover section is to allow the program playing to be muted so that the mic can be heard above the music. The **MIC/TALKOVER SWITCH (9)** controls MIC 1 and MIC 2 and has three settings. When the **MIC/TALKOVER SWITCH (9)** is in the left position, MIC 1 and MIC 2 and talkover are off. When the **MIC/TALKOVER SWITCH (9)** is in the center position MIC 1 and MIC 2 are on, the **MIC INDICATOR (8)** will glow, but talkover is off. When the **MIC/TALKOVER SWITCH (9)** is in the right position, MIC 1 and MIC 2 and talkover will be on and the volume of all sources except the Mic inputs are lowered by 16 dB. The **TREBLE (4)** and **BASS (5)** controls allow you to fully adjust the tone of MIC 1 and MIC 2. **MIC 1 LEVEL (7)** controls the level of MIC 1. The **MIC 2 LEVEL (6)** controls the level of MIC 2.
9. **CUE SECTION:** By connecting a set of headphones to the **HEADPHONE (13)** jack, you can monitor any or all of the channels. Press the **CUE ASSIGN (20)** buttons for channels 1 - 4 to select the channel or channels to be monitored and their respective LED indicators will glow. Use the **CUE LEVEL (10)** control to adjust the cue volume without effecting the overall mix. By rotating the **CUE PGM PAN (12)** control to the left you will be able to monitor the assigned cue signal. Rotating to the right will monitor the PGM (program) output. Use the **CUE SPLIT (11)** button to split the signals from cue and program so that cue will be heard in one earphone and program will be heard in the other earphone.

10. **DISPLAYS:** The **PEAK HOLD LED METER (30)** indicates the **MASTER OUTPUT (37, 49)** left and right channel levels. The individual channels each have their own **PREFADER INPUT LEVEL PEAK HOLD LED METERS (31)** which reflect the **GAIN (14), HIGH (15), MID (16),** and **LOW (17)** rotary control adjustments. The **CHANNEL SLIDES (19, 22, 24, 26)** will not effect the **PREFADER INPUT LEVEL PEAK HOLD LED METERS (31)**.

## Specifications

### INPUTS:

Phono.....	3mV 47Kohm
Line.....	150 mV 27Kohm
Aux.....	150 mV 27Kohm

### OUTPUTS:

Amp/Booth.....	0 dB 1V 400ohm
Max.....	20V Peak to Peak
Rec.....	225mV 5Kohm

### MIC 1 & MIC 2:

DJ Mic.....	1.5mV 2Kohm balanced
Bass.....	± 12dB
High.....	± 12dB

### MIC 3:

DJ Mic.....	1.5mV 2Kohm balanced
Controls.....	Channel 4

### GENERAL:

Bass (Chnls 1-4).....	+ 12dB/- 32 dB
Mid (Chnls 1-4).....	+ 12dB/- 32 dB
Treble (Chnls 1-4).....	+ 12dB/- 32 dB
Gain (Chnls 1-4).....	0 to -20dB
Frequency Response.....	20Hz - 20KHz +/- 2dB
Distortion.....	0.02%
S/N Ratio.....	better than 80dB
Talkover Attenuation.....	-16dB
Headphone Impedance.....	16ohm
Power Source.....	115/230V 50/60Hz 10W
Dimensions.....	12.5"w x 3"h x 14"d
Weight.....	10 lbs



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Parts of the design of this product may be protected by worldwide patents.

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