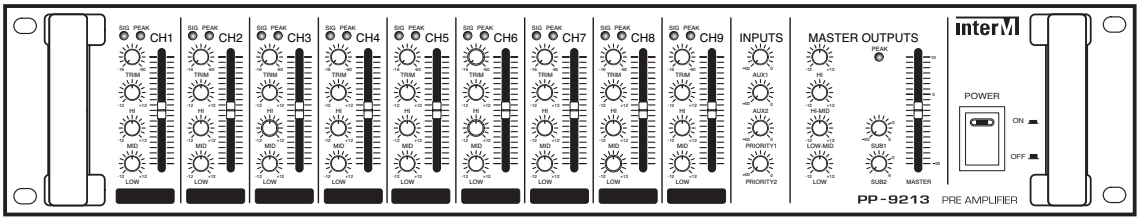
Operation Manual

PP-9213 Pre Amplifier



* Rack mount products in the Western Hemisphere(North America, South America, and the Caribbean) do not have handles installed due to customer preference.

interM

Contents

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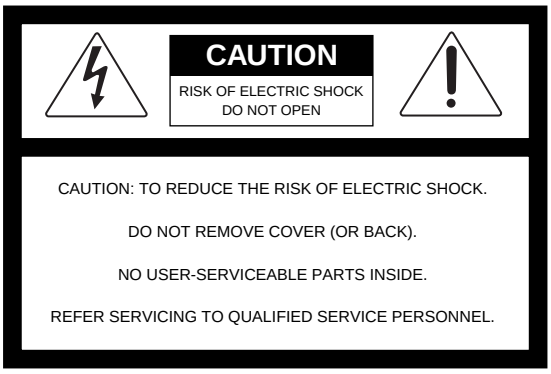
Unpacking and Installation

Although it is neither complicated to install nor difficult to operate your Pre Amplifier, a few minutes of your time is required to read this manual for a properly wired installation and becoming familiar with its many features and how to use them.
Please take a great care in unpacking your set and do not discard the carton and other packing materials. They may be needed when moving your set and are required if it ever becomes necessary to return your set for service. Never place the unit near radiators, in front of heating vents, excessive humid or dusty location to avoid early damage and for your years of quality use.
Connect your complementary components as illustrated in the following page.

Do not install this equipment in a confined space such as a book case or similar unit.
The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such vases, shall be placed on the apparatus.



WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

This symbol is 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.

This symbol is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying the appliance.

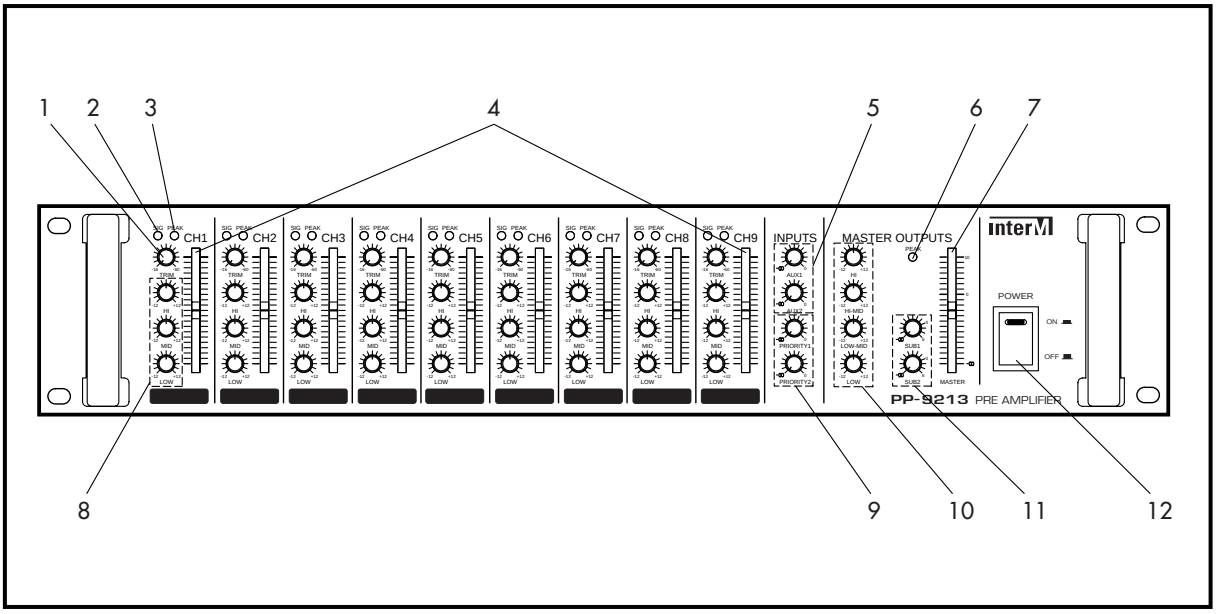
Caution: To prevent electric shock do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

Attentions: Pour prévenir les chocs électriques ne pas utiliser cette fiche polarisée avec un prolongateur, une prise de courant on une autre sortie de courant, sauf si les lames peuvent étre insérées à fond sans en laisser aucune partie à découvert.

Features

- Low, Mid, High and Trim controls on each channel.
- 2 Channel Aux inputs.
- 2 Auto Ducking Priority inputs.
- 4 Band (Low, Low-mid, Hi-mid and High) EQ on master channel.
- 1 Master output, 2 Sub output and 1 Recording output.
- 2 Ducking channels. (channel 1, 2)
- Signal and Peak indicators on each channel.
- 2 Channel Phantom powers.
- DC power operation.

Front Panel Controls



1. TRIM CONTROL
   This control adjusts the input sensitivity of each channel from -16dB to -60dB for microphone source, and from +24dB to -20dB for line source.
   For the best performance, adjust this TRIM control so that PEAK indicator LED lights occasionally.

2. SIGNAL INDICATOR
   LED indicates that a signal is present at the channel input.

3. PEAK INDICATOR
   This warning light indicates an overload situation. This indicator light in red when the post EQ, or pre fader signal of the corresponding channel's input reaches a level 3dB below the clipping level.

4. CHANNEL FADER
   This is the main level control for each input channel. It determines level of the signal sent from the corresponding input channel to the master mixing buss. Faders of channels not in use should be pulled down.

5. AUX CONTROLS
   These controls adjust the level of the Aux signals that are received at the rear panel AUX 1, 2.

6. MASTER PEAK INDICATOR
   This warning light indicates an overload situation. This indicator light in red when the post fader signal of the corresponding Master output reaches a level 3dB below the clipping level.

7. MASTER OUTPUT FADER
   The master faders independently adjust level of the master mixing buss signals appearing at the MASTER OUT connectors.

8. EQ CONTROLS OF INPUT CHANNEL
   Each input channel equalizer is divided into three band. This level is adjustable over a wide range of boost and cut.
   HIGH: ±12dB at 10kHz
   MID: ±12dB at 1kHz
   LOW: ±12dB at 100Hz

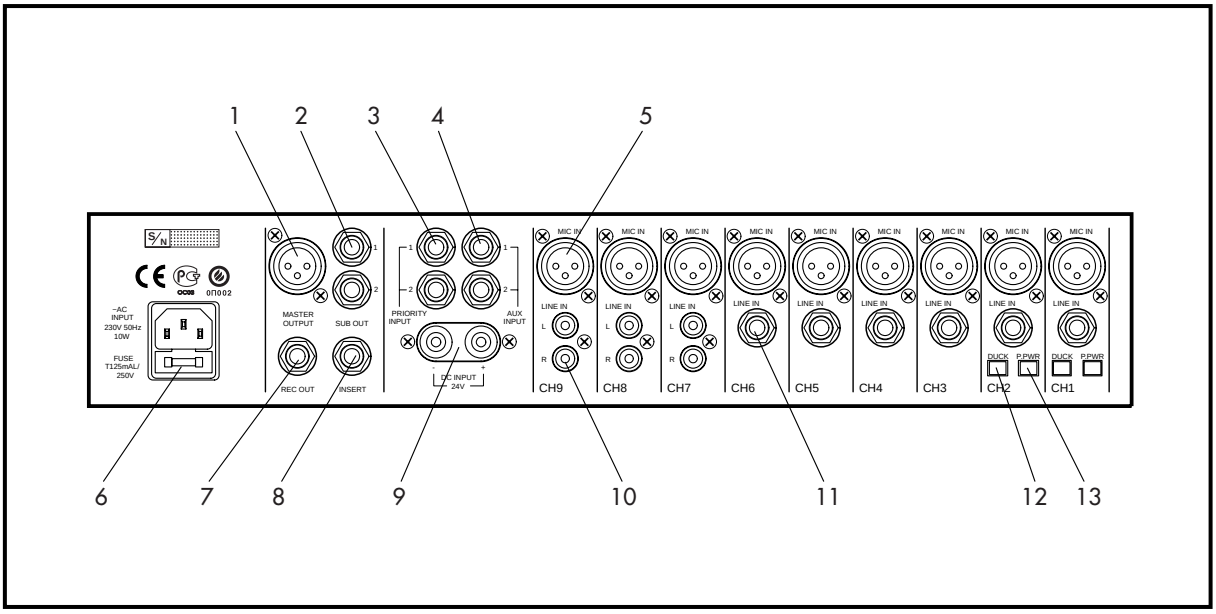
9. PRIORITY CONTROLS
   These controls adjust the level of the Priority signals that are received at the rear panel PRIORITY 1, 2.

10. EQ CONTROLS OF MASTER
    Master output channel equalizer is divided into four band. This level is adjustable over a wide range of boost and cut.
    HIGH: ±12dB at 10kHz
    HI-MID: ±12dB at 2kHz
    LOW-MID: ±12dB at 400Hz
    LOW: ±12db at 80Hz

11. SUB OUTPUT CONTROLS
    This control adjusts the level of the signal output from the SUB OUT.

12. POWER SWITCH
    Pressing this switches to on the power is supplied to this unit.

Rear Panel Controls



1. MASTER OUTPUT
   This is XLR type connector used to connect a power amplifier. (Pin assignment– 1: GND, 2: HOT, 3: COLD)

2. SUB OUTPUTS
   These are phone type connectors used to connect another amplifier.

3. PRIORITY INPUT JACKS
   This inputs are unbalanced line level input with phone jacks. All other channels are controlled by the signal of priority inputs with Automatic ducking operation.

4. AUX INPUT JACKS
   This inputs are unbalanced line level input with phone jacks.

5. MIC IN
   These XLR type connectors be connected with microphone. (Pin assignment 1: GND, 2: HOT, 3: COLD)
   Impedance range is 50Ω to 600Ω.
   Turn the phantom power switch ON to apply +18V DC to pin 2 and 3 of these connectors. (MIC1 and MIC2)

6. AC POWER ENTRY MODULE
   An inlet socket to connect the power cable and fuse holder. A correct capacity of fuse should be applied. Please make sure the value of fuse before replacing.

7. REC OUTPUT
   This phone jack is unbalanced outputs for use with tape recorder.

8. INSERT JACK
   Whenever a plug is inserted into INSERT jack, the master mixing buss is disconnected from the Master output stage.
   The Master output is direct connected to INSERT jack.

9. DC POWER TERMINAL
   A terminal to connect the DC24V output terminal of power distributor unit. (PD-9211 or PD-9359)

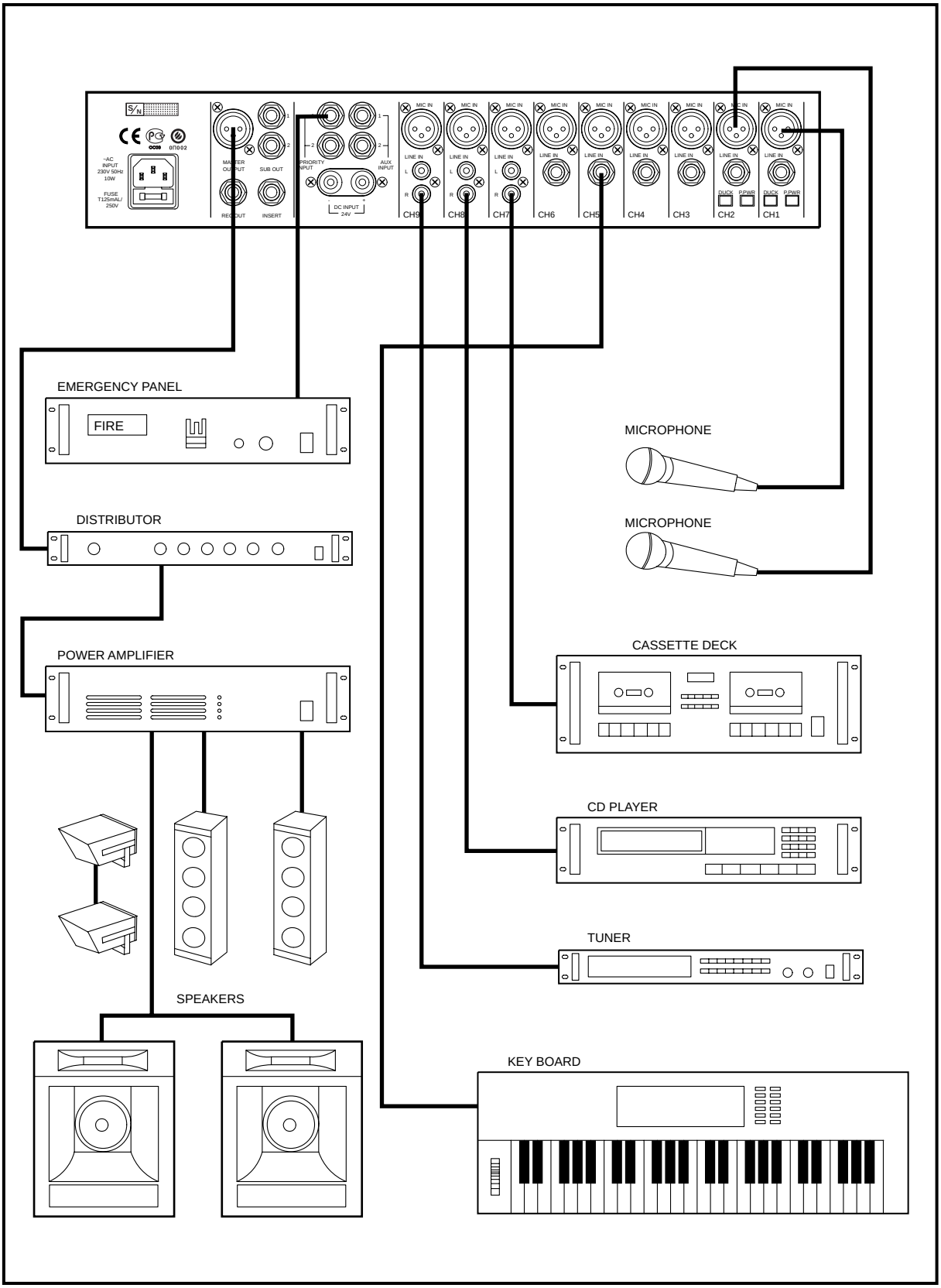
10. STEREO LINE IN
    These are Unbalanced Stereo input connector which can be connected line level equipment.

11. MONO LINE IN
    These are balanced input connector which can be connected line level equipment.

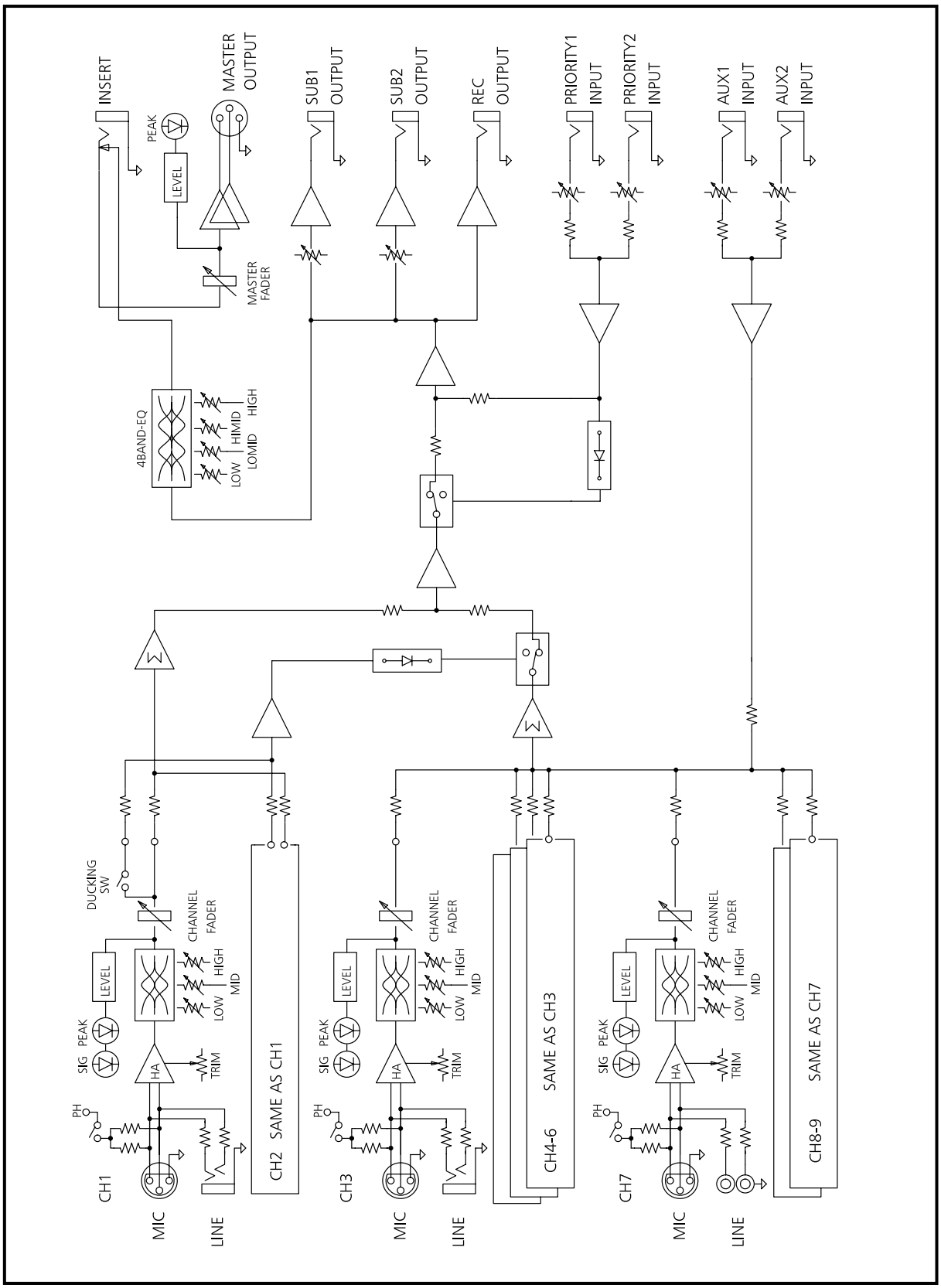
12. DUCKING SWITCH
    When the ducking is on, the set will automatically lower the gain of other channel inputs when someone is speaking into one of the microphones.

13. PHANTOM POWER SWITCH
    This switch turns on and off the phantom power supply. The phantom power supply provides power for condenser type microphone through the microphone cable.
    When switched on, it produces 18 volts DC (with 6.8kΩ source impedance) at pins 2 and 3 on CH1, CH2 microphone input connectors. Pin 1 (the shield conductor) provides the ground return path.
    This will power standard condenser microphones and will not affect most dynamic microphones. When switched on or off, the voltage will ramp slowly up or down; it takes a few seconds to reach full level.
    This prevents unwanted transients from reaching the microphone inputs.

Connections



Block Diagram



Specifications

- ELECTRICAL
  - OUTPUTS
    - Master Output ..... +4dBm/600Ω, BALANCED
    - Sub 1, 2 Output ..... +4dBm/600Ω, UNBALANCED
    - Rec Output ..... –10dBv/10kΩ, UNBALANCED
  - INPUTS
    - Mic (CH1~CH9) ..... –60dBm/600Ω, BALANCED
    - Line (CH1~CH6) ..... –20dBm/47kΩ, BALANCED
    - Line (CH7~CH9) ..... –20dBm/47kΩ, UNBALANCED
    - Aux 1, 2 ..... –10dBm/20kΩ, UNBALANCED
    - Priority 1, 2 ..... 0dBm/20kΩ, UNBALANCED
    - Insert ..... 0dBm/20kΩ, UNBALANCED
  - T.H.D ..... Less than 0.3%
  - Frequency Response ..... 30Hz~20kHz (+1d, –3dB)
  - INPUT Channel EQ
    - High (10kHz) ..... ±12dB
    - Mid (1kHz) ..... ±12dB
    - Low (100Hz) ..... ±12dB
  - OUTPUT EQ
    - High (10kHz) ..... ±12dB
    - Hi-Mid (2kHz) ..... ±12dB
    - Low-Mid (400Hz) ..... ±12dB
    - Low (80Hz) ..... ±12dB
  - Residual Noise ..... Less than –90dB
  - Crosstalk ..... Less than –60dB
  - Phantom Power ..... +18V DC

- GENERAL
  - Power Source ..... AC 120V, 230V, 240V, 50/60Hz, DC 24V
  - Power Consumption 10W
  - Weight 7.5kg
  - Dimensions ..... 482(W) × 88(H) × 280(D)mm

* Specifications and design subject to change without notice for improvements.

Inter-M, Ltd. (Korea) began operations in 1983.

Since then, Inter-M has grown to become one of the largest manufacturers
of professional audio and commercial sound electronics equipment in the world.

Inter-M has gained worldwide recognition for its own branded products,
as well as private label manufacturing of electronics sold under other names (OEM).

The company is no longer just a Korean company, but rather a global company
that is truly international in scope, with factories and offices in Korea and China,
and sales and marketing operations located in Japan, Europe, and the U.S.A.

With more than 850 employees around the globe,
Inter-M is well-poised for further growth and expansion.

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