

OPERATING MANUAL

REMOTE AMPLIFIER WITH ZONE

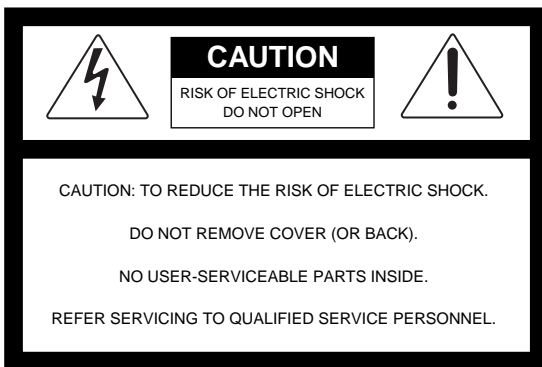
SELECTOR

RM-916

interM

UNPACKING AND INSTALLATION

Although it is neither complicated to install nor difficult to operate your power 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 necessary to return your set for 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, to direct sun light, in 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.



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 ou une autre sortie de courant, sauf si les lames peuvent être insérées à fond sans en laisser aucune partie à découvert.

FEATURES

- **SPEAKER LINE CONTROL**

Speaker line control can easily be achieved by connecting the RM-916 speaker control terminals to an Inter-M PX-9116 MATRIX unit.

- **CHIME**

Four tone pre-announcement chime, activated by push button CHIME switch.

- **OUTPUT LEVEL METER**

Ten segment LED bargraph on the front panel that indicates instantaneous signal output level of the RM-916.

- **MIC BROADCASTING**

Easy to use, highly sensitive condenser type MIC for clear broadcasting.

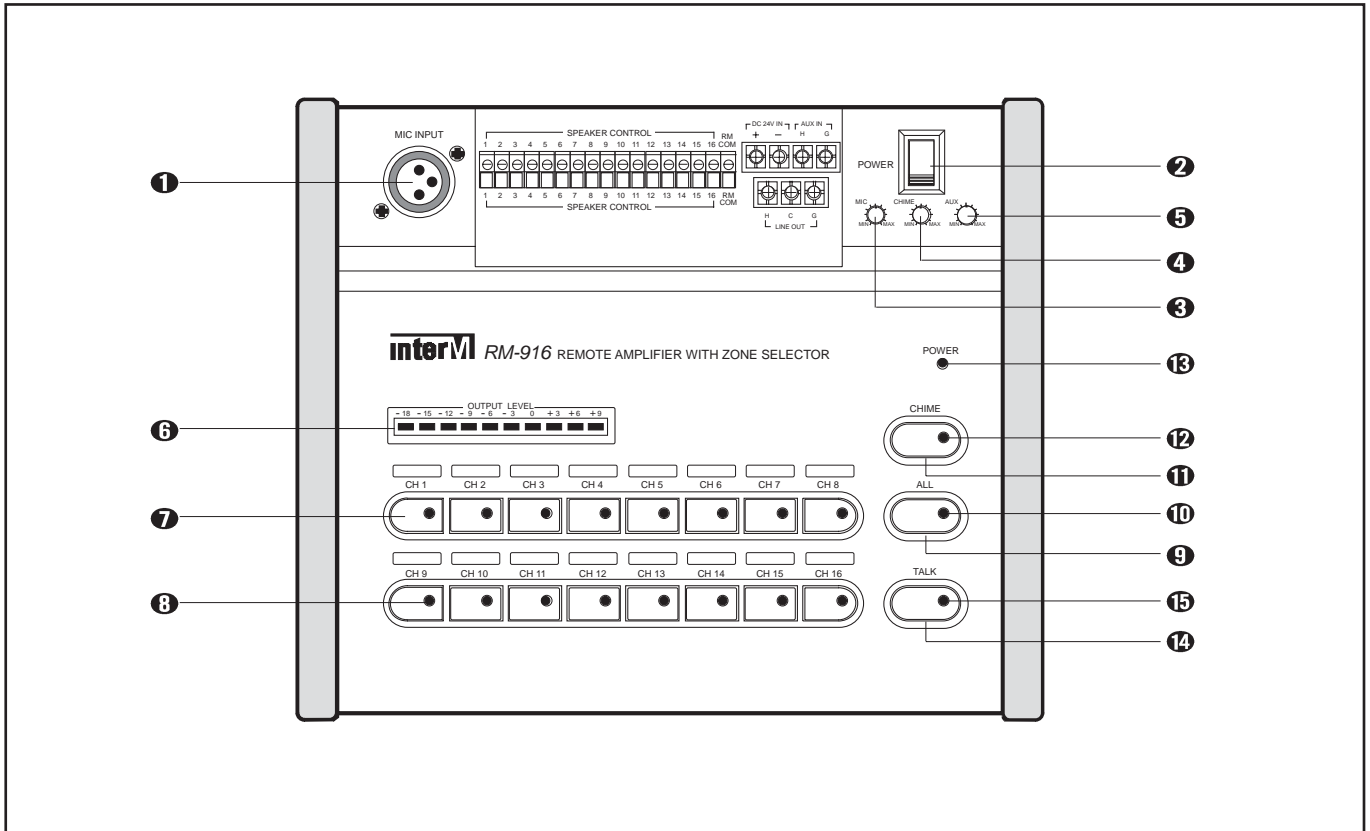
- **AUXILIARY SIGNAL INPUT**

Auxiliary signal input for Cassette Deck or Tuner makes the RM-916 an ideal remote piece of equipment for broadcasting background music.

OPERATING PROCEDURE

1. Switch the RM-916 on with the POWER switch. The POWER LED will illuminate.
2. If the announcement is to be broadcast to one of the sixteen loudspeaker zones, press the corresponding channel switch. The selected channel switch LED will illuminate.
3. If the announcement is to be broadcast to all the sixteen loudspeaker zones, press the ALL call switch. The ALL call switch LED will illuminate.
4. Press the CHIME switch for the pre-announcement chime, if required.
5. You can now use the CM-916 MIC for broadcasting across the system.
6. Adjust the volume to its required level using the relevant MIC, CHIME or AUX control.
7. When the announcement is finished, Turn off all the channel switches (CH1–16) and the ALL call switch to ensure that normal broadcasting can take place. The sixteen channel switch LEDs and the ALL call switch LED will be extinguished.

FRONT PANEL CONTROLS



1. MIC INPUT JACK

The CM-916 MIC is connected to this input jack. It's input sensitivity is -60dB .

2. POWER SWITCH (ON/OFF)

Switches ON and OFF the 24V DC power source.

3. MIC VOLUME

Turn to the right to increase the volume and to the left to decrease the volume.

4. CHIME VOLUME

Turn to the right to increase the volume and to the left to decrease the volume.

5. AUX VOLUME

Turn to the right to increase the volume and to the left to decrease the volume.

6. OUTPUT LEVEL METER

Indicates the signal output level between -18dB and $+9\text{dB}$.

7. SPEAKER CONTROL SWITCH

These switches select one of sixteen loudspeaker zones for the broadcasts.

8. SPEAKER ZONE LED

Visual indication of the selected loudspeaker zone.

9. ALL CALL SWITCH

This switch, when pressed ON, selects all the sixteen loudspeaker zones for the broadcast.

10. ALL CALL LED

Visual indication showing that all the sixteen loudspeaker zones are selected.

11. CHIME SWITCH

This switch, when pressed, will output a four tone pre-announcement chime to the selected loudspeaker zone(s).

12. CHIME SWITCH LED

This LED will illuminate when the chime switch is pressed.

13. POWER LED

This LED will illuminate when the POWER switch is ON.

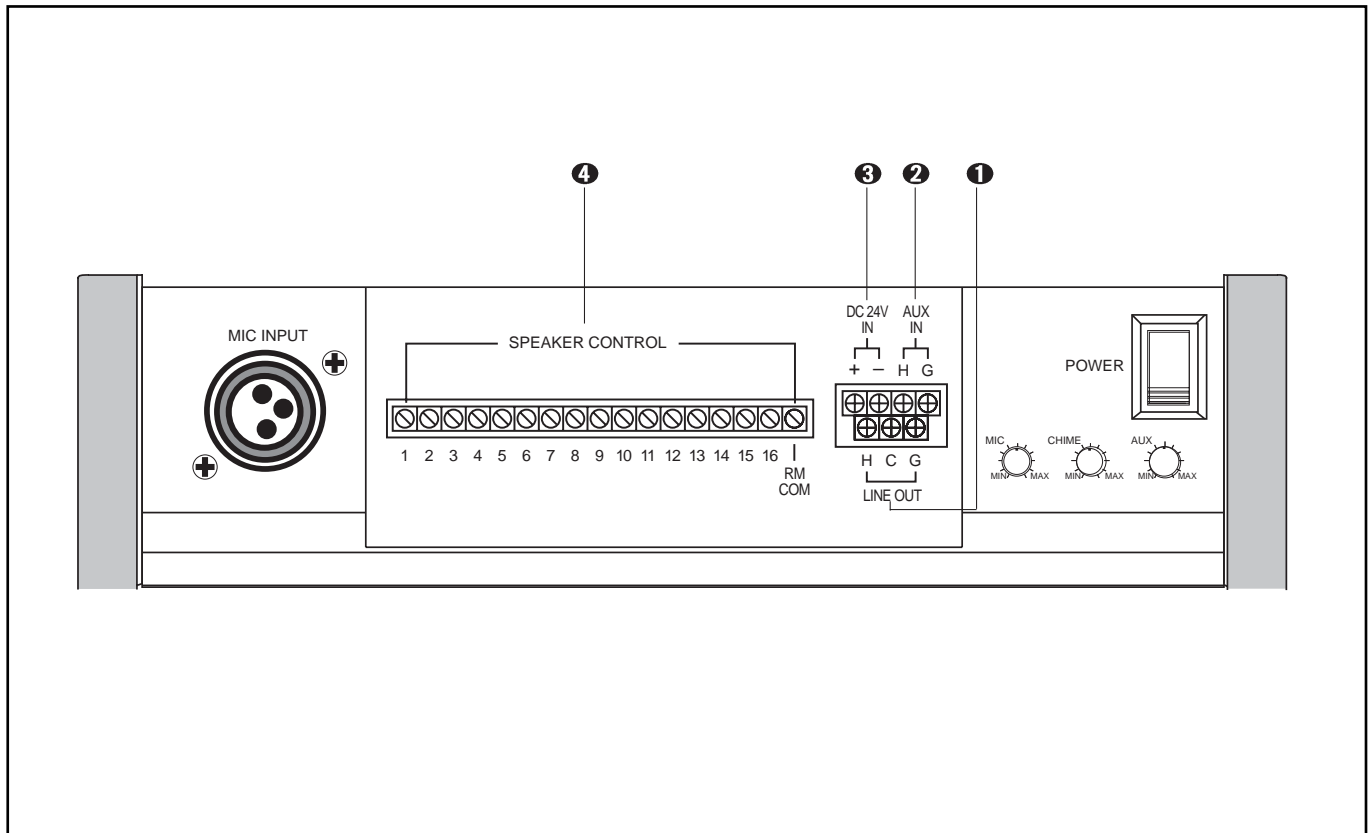
14. TALK SWITCH

The TALK ON switch activates for the MIC-916 (LED ON).

15. TALK LED

Visual indication of the TALK ON switch.

CONNECTOR SECTION FUNCTIONS



1. LINE OUTPUT TERMINALS

Connect the line output terminals to the REMOTE INPUT JACK of the Inter-M EMERGENCY PANEL EP-9216.

2. AUX INPUT TERMINALS

Connect the line output of a Cassette Deck, Tuner or CD player to these terminals. The input sensitivity of the AUX input is -20dB .

3. 24V DC POWER INPUT TERMINALS

Connect the 24V DC OUTPUT of the Inter-M POWER DISTRIBUTOR PD-9359 to these terminals.

4. SPEAKER CONTROL & COM TERMINALS

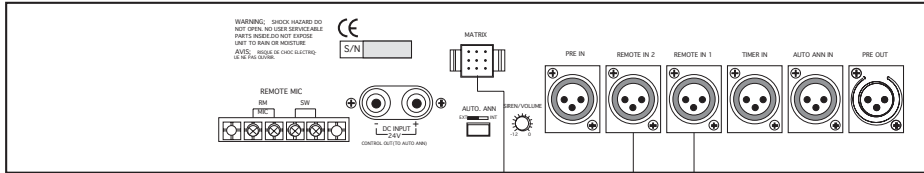
Connect these speaker control line terminals to the REMOTE 1 or REMOTE 2 inputs of the Inter-M PX-9116 MATRIX unit.

CAUTION FOR RACK ASSEMBLY

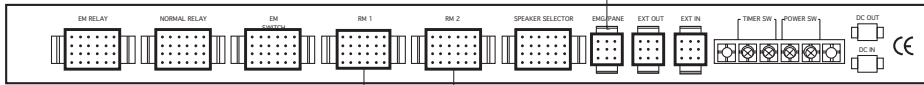
1. Ensure that power is switched off before installation and before any wiring is connected to the equipment.
2. Site the equipment in well ventilated places and avoid places of high humidity.
3. Whenever possible, fit Inter-M MIC model CM-916. If a Phantom powered MIC is to be used, we recommend that it operates on $+5\text{V DC}$.
4. Please observe wiring polarity when connecting DC Power to the equipment.
5. Before connecting to the RM-916 LINE OUT terminals, check and match the incoming wiring for HOT, COLD & GND potential.

CONNECTIONS

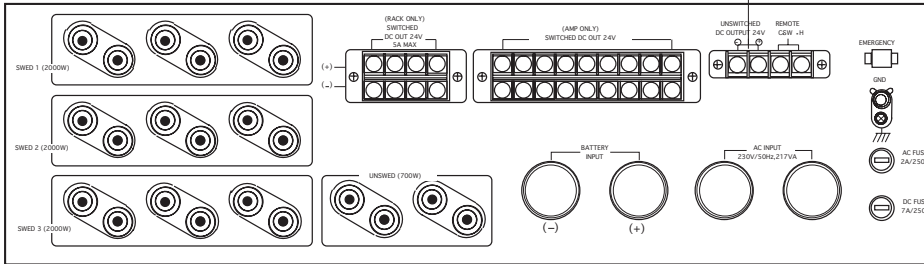
EP-9216



PX-9116



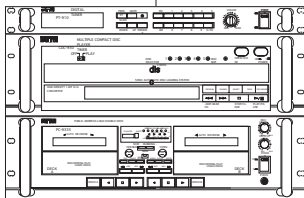
PD-9359



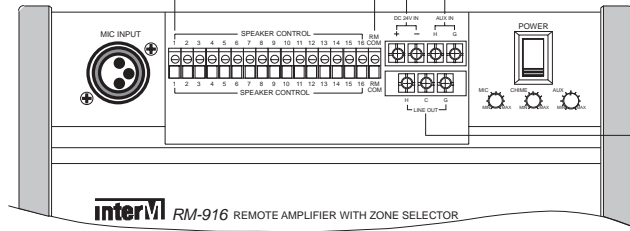
PT-9107

CDC-9300

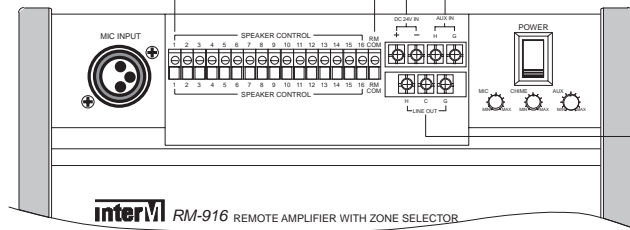
PC-9335



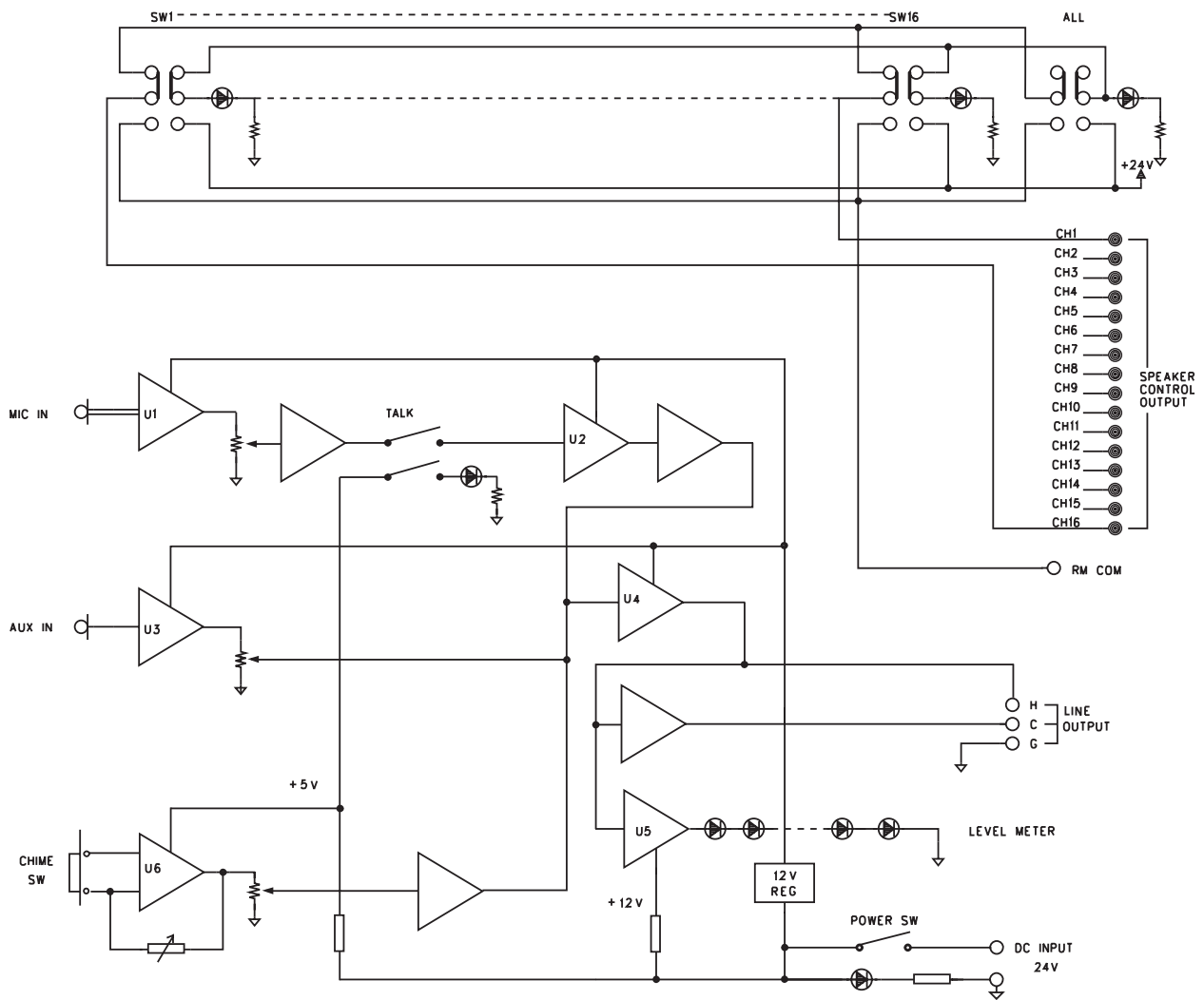
RM-916 (1)



RM-916 (2)



BLOCK DIAGRAM



SPECIFICATIONS

*0dB=0.775Vrms

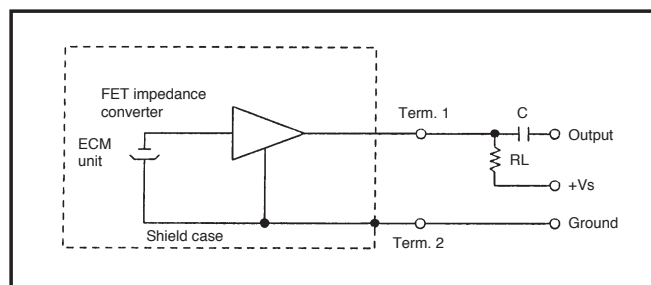
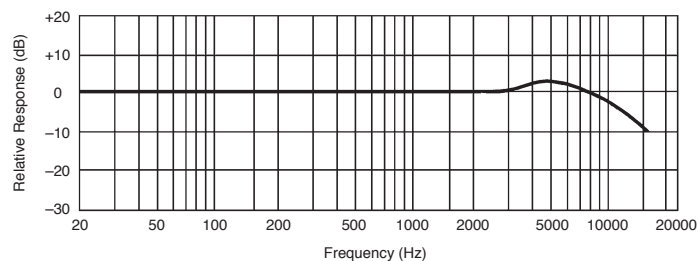
ELECTRICAL

- Output Level/Impedance 1.2V±200mV, Bal
- Input Sensitivity/Impedance MIC: -60dB/2Ω, BAL
AUX: -20dB/10kΩ, UNBAL
- Frequency Response(±3dB)..... MIC: 100Hz~15kHz
AUX: 80Hz~18kHz
- T.H.D MIC: Less than 0.5%
AUX: Less than 0.2%
- S/N MIC: Better than 50dB
AUX: Better than 55dB
- Speaker Control Terminal & Switch 16 CH

GENERAL

- Power Source DC 24V
- Weight 1.2kg (Without Microphone)
- Dimensions 245(W) × 60(H) × 205(D)mm

MIC(CM-916) SPECIFICATIONS



C : 16V10μF.
RL: 2.2KΩ

- | | |
|-------------------------------|---------------------------------|
| 1. Type | : Electric Condenser Microphone |
| 2. Sensitivity | : -42dB ±3dB |
| 3. Impedance | : Less than 2.2K Ohm |
| 4. Max Operation Voltage | : 10V |
| 5. Standard Operation Voltage | : 4.5V |
| 6. Directivity | : Omnidirectional |
| 7. Frequency Response | : 20~16,000Hz |
| 8. Current Consumption | : Max. 0.8mA |

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

interM