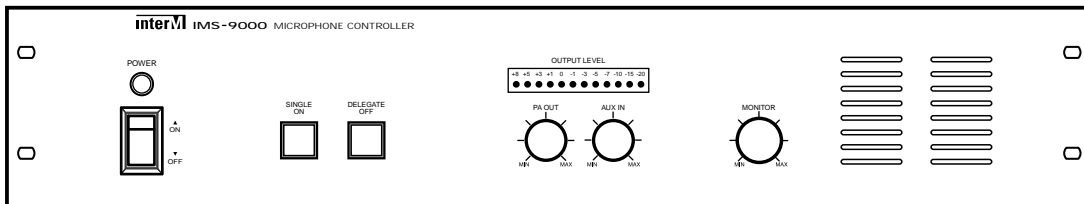


# Operating Manual

## *IMS-9000* Microphone Controller



**interM**

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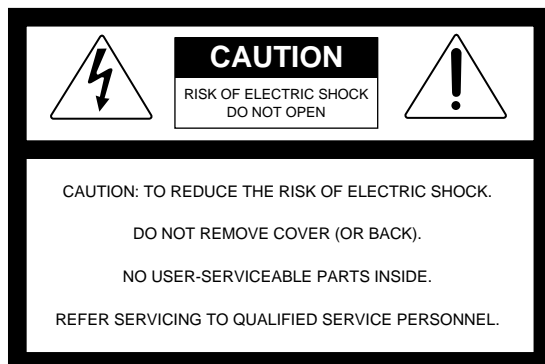
## Welcome

### A personal welcome to you from the management and employees of Inter-M

All of the co-workers here at Inter-M are dedicated to providing excellent products with inherently good value, and we are delighted you have purchased one of our products.

We sincerely trust this product will provide years of satisfactory service, but if anything is not to your complete satisfaction, we will endeavor to make things right.

Welcome to Inter-M, and thank you for becoming part of our worldwide extended family!



### WARNING

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

\*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 as vases, shall be placed on the apparatus.

\*Worded: "WARNING FOR YOUR PROTECTION PLEASE READ THE FOLLOWING-WATER AND MOISTURE: Unit should not be used near water (e.g. near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc). Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings."



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.

## Installation

### Environment

Never place this product in an environment which could alter its performance or reduce its service life. Such environments usually include high levels of heat, dust, moisture, and vibration.

### Important Safety Instructions

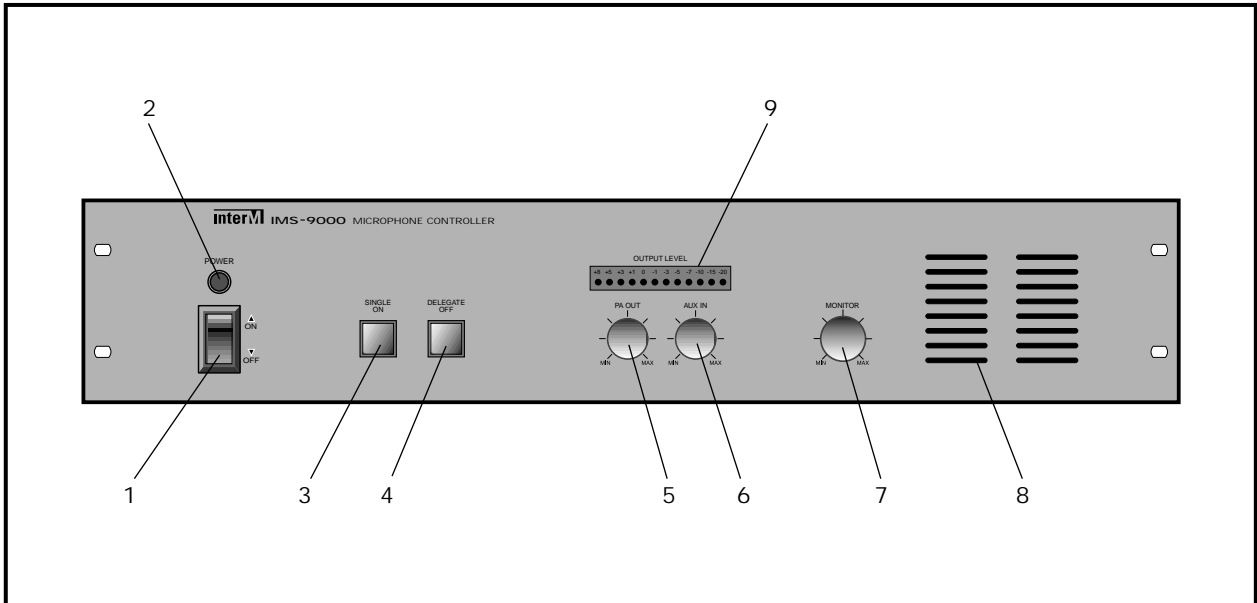
1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near 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 prong. The wide blade or the third prong are 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 where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the 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.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. 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.



## Features

- Allows the control of the system functions.
- Supplies the power to all microphones (delegate and chairman).
- On/Off function for speaker's microphone.
- Easy to monitor and control the system output by using the LED VU meter.
- Extra microphones may be added with the inclusion of an additional power supply.
- Two LED lights on each microphone indicate microphone power and microphone active status.

## Front Panel



### 1. POWER SWITCH

Used to switch on and off the master unit.

### 2. POWER LED

Indicates the system is on or off.

### 3. SINGLE, ALL SELECTION SWITCH

Selects the option of if the delegate microphone will operate one at a time or all at once.

### 4. DELEGATES OFF SWITCH

Disables the delegate microphones when operated.

### 5. PA OUT

Level control for adjustment of PA Output.

### 6. AUX IN

Level control for Aux Input.

### 7. MONITOR VOLUME

Volume control for in-built Monitor loudspeaker.

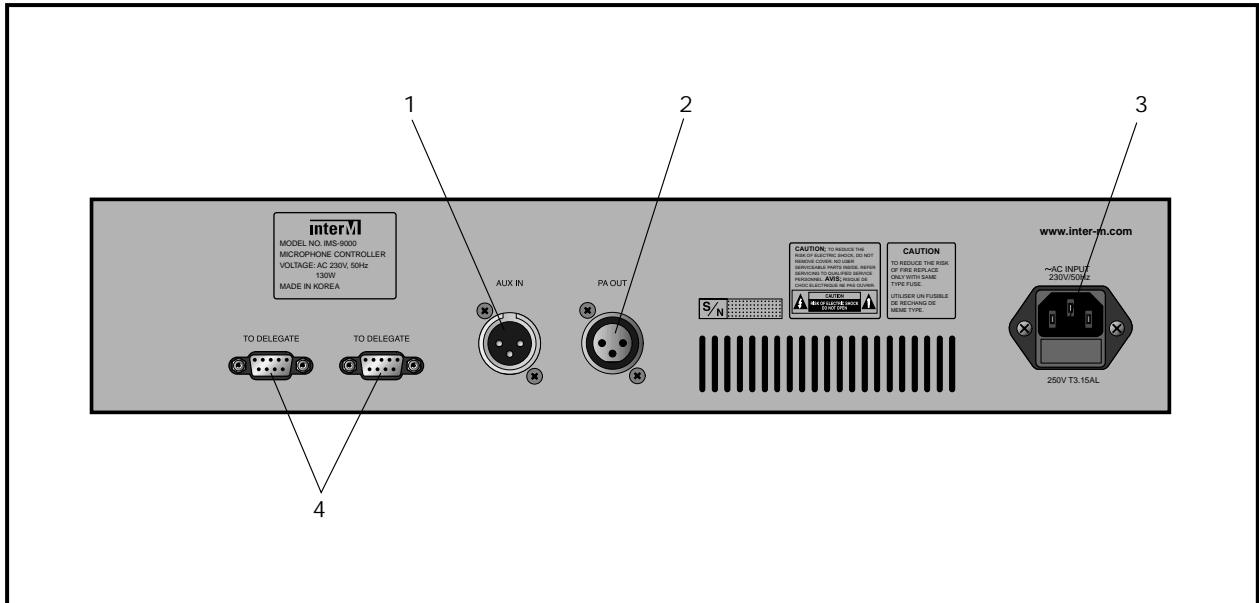
### 8. MONITOR SPEAKER

Monitors the sound from the microphone units.

### 9. OUTPUT LEVEL METER

Displays Output level of the system.

## Rear Panel



### 1. AUX INPUT

Allows external sound source to be connected to the system.

### 2. PA OUTPUT

Allows connection to an external system, for example to a Mixer Line Input or Power Amplifier Input.

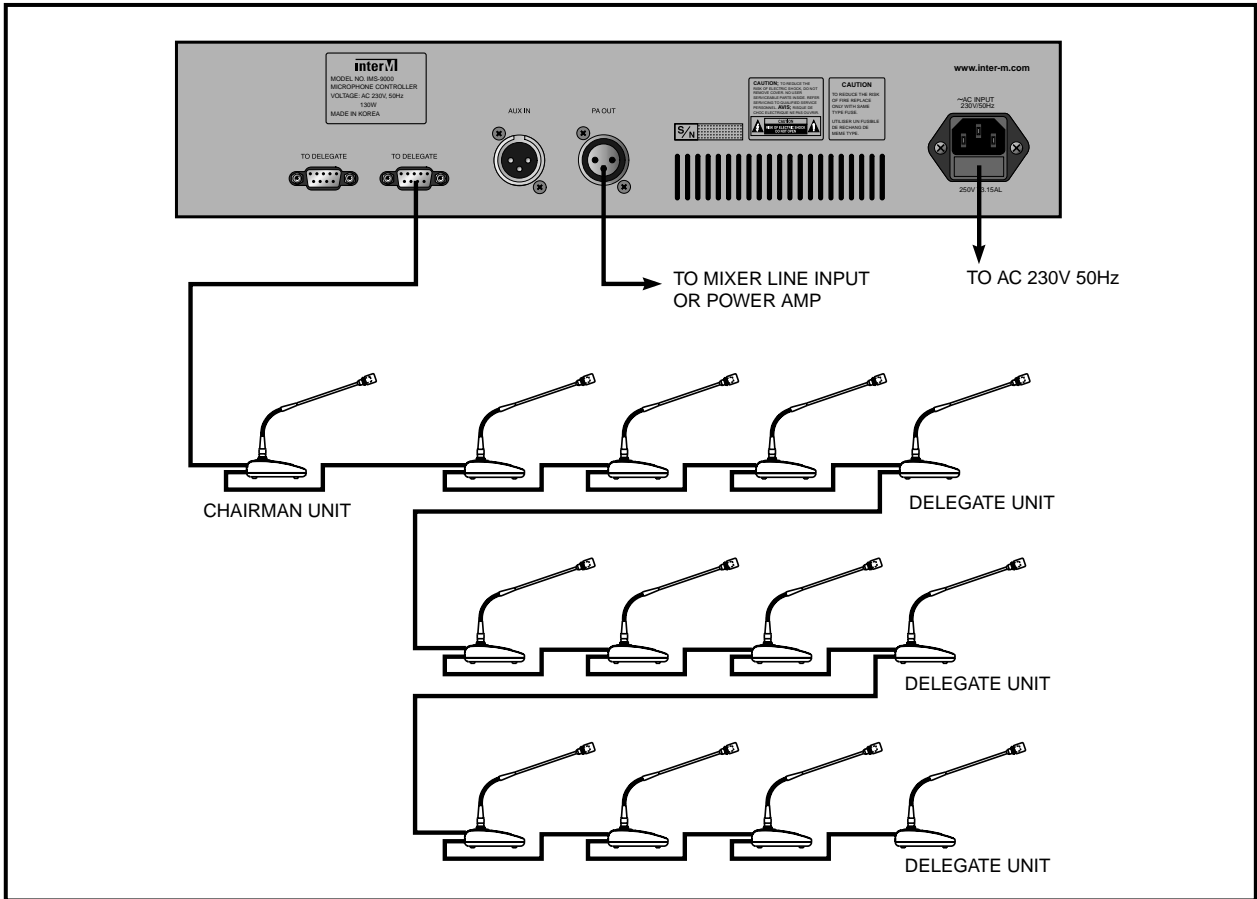
### 3. AC INLET

AC Cord with internal fuse. Power requirement is 230V AC, 50Hz.

### 4. DELEGATE MICROPHONE OUTPUT CONNECTOR

D-Sub type connector which allows connection of the delegate microphones or chairman microphones to the master unit (4m connection leads included).

## Applications

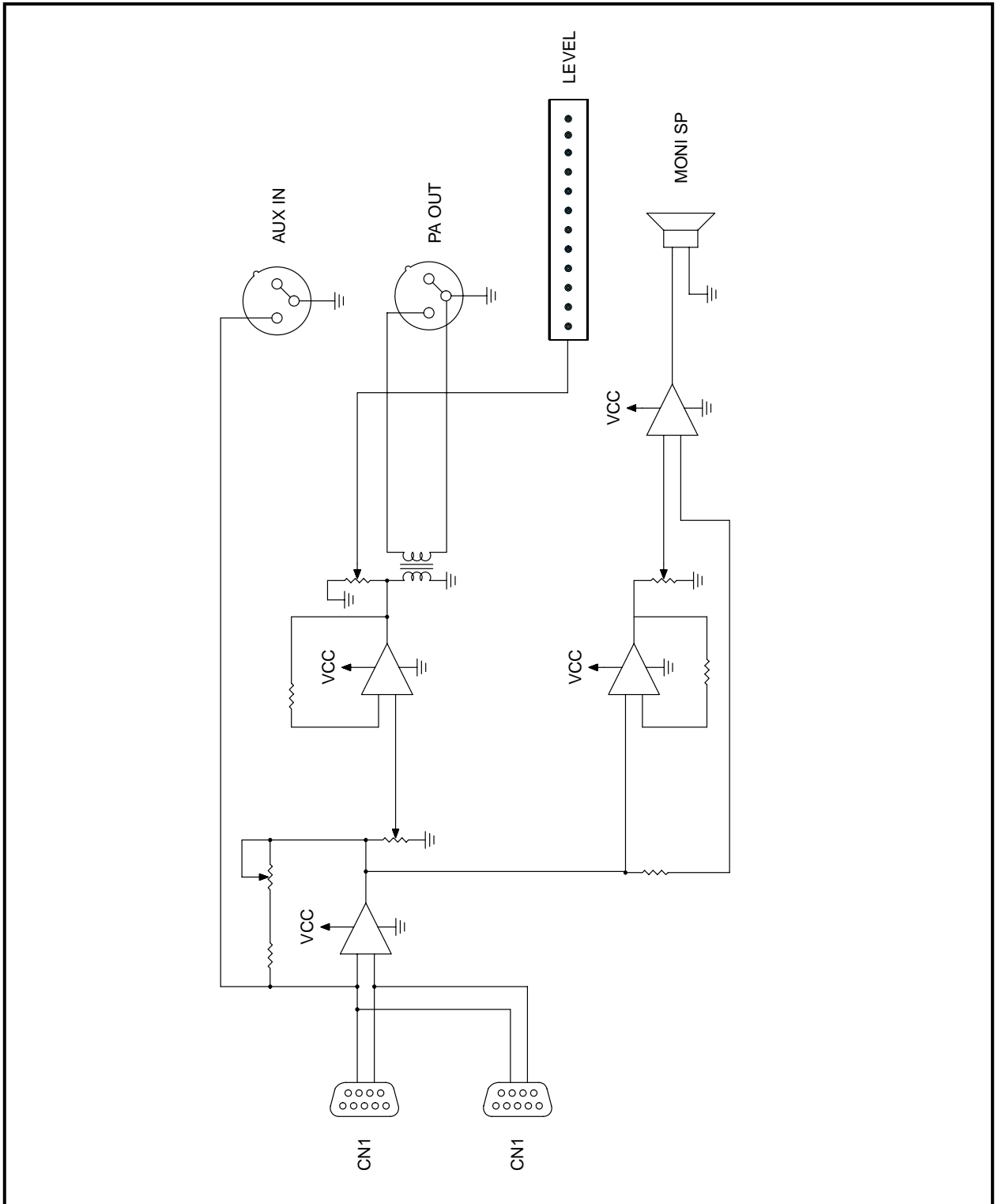


- Controller 1 unit can be connected and used with Delegate Unit 46EA.  
However please separate and connect Delegate 23EA because D-Sub connector 2EA are attached to controller.

## Application Models for Conference System

No.	Model No.	Description	Application
1	IMS-9000	Microphone Controller	Operates and Controls the system, supplies the chairman and delegate unit's power and extra functions.
2	IMS-9000C	Chairman Microphone	Used as the priority microphone the Chairman's unit has control over the other microphones during use.
3	IMS-9000D	Delegate Microphone	A basic microphone unit which can be muted by the Chairmans microphone.
4	IMC-04 IMC-15 IMC-20 IMC-30	Junction Cable Junction Cable Junction Cable Junction Cable	9 pin D-Sub type cable used to connect the system components together, Microphone units are supplied with 4m cable as standard, 15m, 20m, and 30m cables available as an extra option.

# Block Diagram



## Specifications

**- ELECTRICAL**

Frequency Response .....	100Hz~ 10kHz
T.H.D (at 1 kHz) .....	Less than 0.2%
S/N .....	More than 60dB
LINE OUT (PA OUT) .....	.0dB, Unbalanced 10kΩ
(AUX IN).....	.0dB, Unbalanced 10kΩ

**- GENERAL**

Power .....	AC 100V/120V/230V/240V, 50/60Hz
Power Consumption .....	130W
Weight .....	7.7kg
Dimensions.....	482(W) x 88(H) x 280(D)mm / 19(W) x 3.5(H) x 11(D)in

\* Specifications and design subject to change without notice.

## Service

### Procedures

Take steps to insure the problem is not related to operator error or other products within the system. Information provided in the troubleshooting portion of this manual may help with this process. Once it is certain that the problem is related to the product contact your warranty provider as described in the warranty section of this manual.

### Schematic

A Schematic is available by contacting your warranty provider.

### Parts List

A Parts List is available by contacting your warranty provider.

## Variations and Options

### Variations

Products supplied through legitimate sources are compatible with local AC power requirements.

### Options

No optional items are available for this product.

## Warranty

Warranty terms and conditions vary by country and may not be the same for all products. Terms and conditions of warranty for a given product may be determined first by locating the appropriate country which the product was purchased in, then by locating the product type.

To obtain specific warranty information and available service locations contact Inter-M directly or the authorized Inter-M Distributor for your specific country or region.



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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