

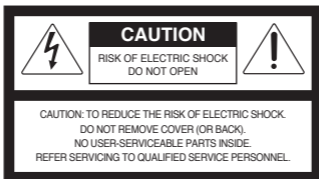
Operation Manual

DM-75 Module Amplifier



interM

Warning



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: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

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.

***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.

*Do not install this equipment in a confined space such as a book case or similar unit.

*This apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

*This apparatus shall be connected to a mains socket outlet with a protective earthing connection.

*It has been designed to be easy to disconnect the device. To disconnect the device from power, separate AC input cable from inlet or unplug the AC Cord.

***CAUTION :** These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

NOTE : This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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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!

Unpacking

Please take a few minutes to read this manual to familiarize yourself with important information regarding installation, product features, and operation.

As with most electronic devices, ORIGINAL PACKAGING (OR EQUAL) IS REQUIRED in the unlikely event that the product needs to be returned for servicing.

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.

- AVOID EXCESSIVE HEAT, HUMIDITY, DUST AND VIBRATION

Keep the unit away from locations where it is likely to be exposed to high temperatures or humidity—such as near radiators, stoves, etc. Also avoid locations which are subject to excessive dust accumulation, or to vibration that could cause mechanical damage.

- AVOID PHYSICAL SHOCKS

Strong physical shocks to the unit may cause damage. Handle the unit with care.

- DO NOT OPEN THE CASE OR ATTEMPT REPAIRS OR MODIFICATIONS YOURSELF

This product contains no user-serviceable parts. Refer all maintenance to qualified Inter-M service personnel. Opening the case and/or tampering with internal circuitry voids the warranty.

- ALWAYS POWER OFF BEFORE MAKING CONNECTIONS

Always turn the AC mains OFF before connecting or disconnecting cables. This is important to prevent damage to the unit itself as well as other connected equipment.

- HANDLE CABLES CAREFULLY

Always plug and unplug cables (including the AC mains power cord) by gripping the connector, not the cord.

- CLEAN WITH A SOFT DRY CLOTH

Never use solvents such as benzine or paint thinner to clean the unit. Wipe clean with a soft, dry cloth.

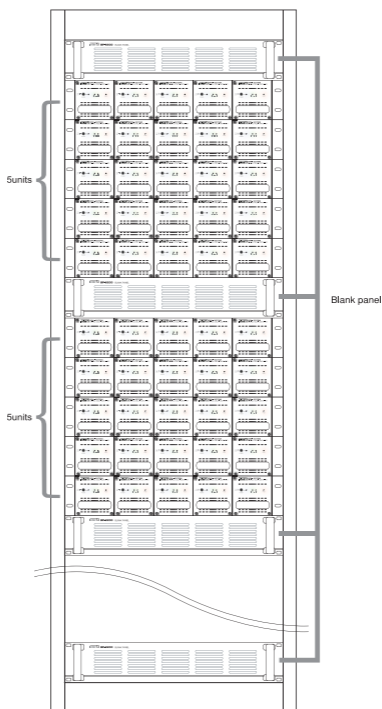
Features

- Module type Amplifier.
- 4+1 channel, Spare-Amplifier switch function.
- Low power consumption and low heat generation with Digital Amplifier and SMPS(Switching Mode Power Supply)
- Independent power (SMPS) design for each module.
- AC 120V, 220~240V 50/60 Hz and DC 24V
- HPF (High Pass Filter) : 65Hz / 400Hz (-3dB)
- Signal mapping function.
- Output bridge function.
- Input signal and status display LED for each module
- Status link communication between DPA-5075M (RS-422)
- DPA-5075M status-check functions from PC (RS-232)
- Protection circuit for over-heating, over-current and speaker short circuit.
- Socket contact point protection circuit
- Balance input.
- Volume level setup function (internal): -12dB (factory setup) / $-\infty$

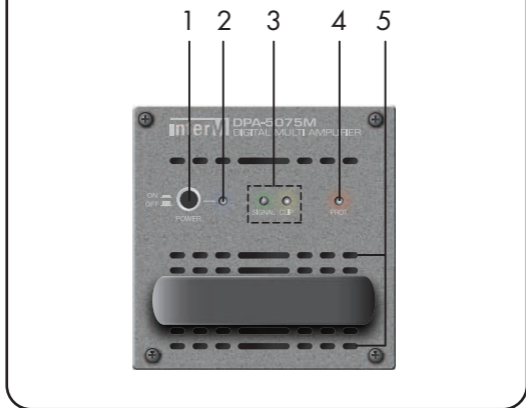
Cautions for the installation of Rack

Following cautions should be kept when installing this device into the rack.

1. Proper ventilation inside of rack is required. Open the rear panel of rack or install the fan.
2. In case of installing several Amplifiers, install the blank panel in every five Amplifiers for proper air ventilation.
3. Blank Panel included in the DPA-5075M should be be installed in the unused module among sets.



Part Names and Function



1. POWER SWITCH

When turning on the switch, on power LED will be, and this device is ready to operate.

However, Main power switch on the rear panel should be on.

※ When Attaching the DM-75, it is recommended that turn off the DM-75 module Power Switch.

2. POWER LED

When turning on the DM-75 power switch, Power LED will be on, and when turning off the power switch, LED will be off.

3. SIGNAL OUTPUT LEVEL INDICATOR

It is the indicator that displays the output level

-30 dB : Green

Clip : Yellow

※ Caution : DO NOT use this device when Clip LED is on.

4. PROTECTION LED

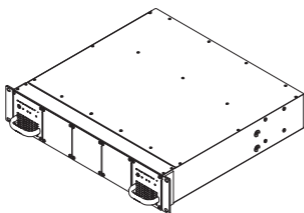
It is the Amplifier status indicator LED for error such as over-heating, over-current, speaker short circuit, etc.

5. VENT

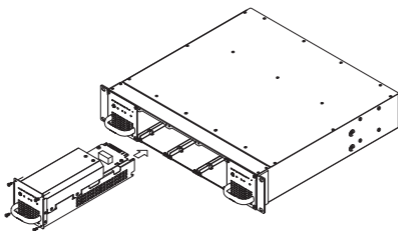
It is the air path to reduce the device inside temperature. Do not block the vent. Clean the vent regularly not to be clogged due to dust, etc.

Slot Installation Method and Caution

1. Attaching DM-75
Removing the blank panel.



Attaching DM-75 and turn on the DM-75 power switch, and then check the status.



※ Caution for installation of the slot

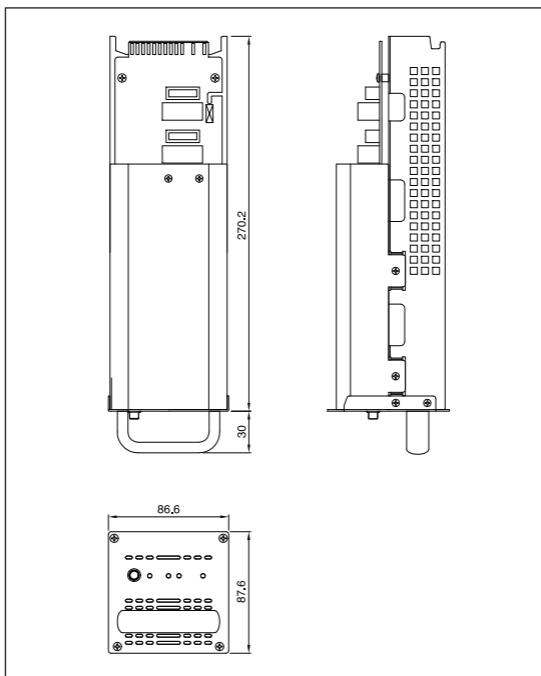
1. Remove all input signals.
2. When installing the DM-75 module.
(Recommended turn off the main set switch and DM-75 module power before installing.)
3. When installing the DM-75 to the slot, only remove the blank panel of channel to be installed, and do not remove the blank panel of channel which DM-75 will not be installed.
It may cause failure due to temperature increase of Amplifier.

Specifications

	DM-75	
Rated Output (1KHz, THD 1% (AES17))	75W	
SPEAK OUT / IMPEDANCE	70V/65.3 Ω , 100V/133.3 Ω	
INPUT SENEITIVITY	1V/10K Ω Balance	
THD (AES17)		
Rated Output (75W, 1kHz)	Less than 1 %	
1/3 Rated Output (25W, 1kHz)	Less than 0.1%	
Signal to Noise Ratio (20kHz LPF, A-WTD)	More than 90 dB	
High Frequency Characteristics (1W,0dB+1/-3dB)	100V : more than 20kHz 70V : more than 18kHz	
Low Frequency Characteristics (1W,-3dB \pm 2dB)		
Select 65Hz High Pass Filter	65 Hz	
Select 400Hz High Pass Filter	400 Hz	
Operating Temperature	-10°C ~ +40°C	
Power Source	AC 120V, 220 ~ 240V, 50/60Hz, DC24V	
Power Consumption (1/8 Prated)	DPA-5075M+DM-75 5EA	130W
	DPA-5075M+DM-75 2EA	50W
Weight	1.9 Kg/4.2lb	
Dimensions	86.6(W)X87.6(H)X270.2(D)mm 3.4(W)X3.5(H)X10.6(D)inch	

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

Dimension



Service

Procedures

Ensure the problem is not related to operator error, or external system devices, 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.

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.

NOTE



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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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