

Operation Manual

Main Controller
IPA-10



interM

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!



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.

WARNING

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

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.
Pour déconnecter complètement l'appareil du réseau d'alimentation, déconnecter le cordon d'alimentation de la prise murale.
La prise du réseau d'alimentation doit demeurer aisément accessible.

*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.

*Warning : To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.

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

*To completely disconnect this apparatus from the AC mains, disconnect the power supply cord plug from the AC receptacle.

*The mains plug of the power supply cord shall remain readily accessible.

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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Unpacking

Although your IPA-10 is neither complicated nor difficult to operate, we recommend you take a few minutes to read this brief manual and familiarize yourself with the important information regarding product features, setup and operation.

As with most electronic devices, we strongly recommend you retain the original packaging. In the unlikely event the product must be returned for servicing, the original packaging (or reasonable equivalent) is required.

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.



S3125A

Overview

IPA-10 is a model that acts as a server in a network system that provides an integrated transport solution through the network infrastructure. It provides integrated control software for voice reproduction and BGM control by interworking between complex and extensive systems (PA, SR, AV), and provides an ideal solution for various spaces such as large-scale industrial complexes, hospitals, restaurants, and schools.

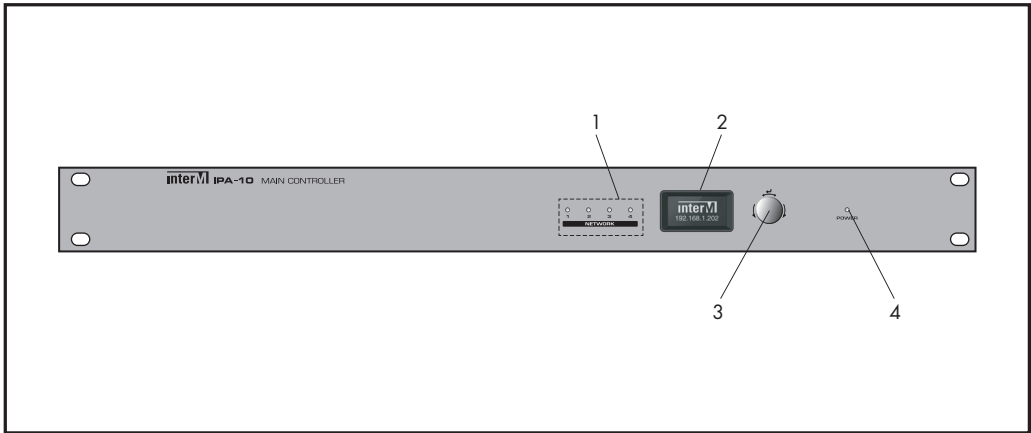
Features

- Integrated control of all audio and video equipment connected to the network
- Management of equipment DB connected to the network
- Standard network protocol applied
- 100/1000Mbps supported
- DHCP, STATIC IP supported
- Daisy chain network method supported
- Web-based integrated control software
- Convenient broadcasting area setting
- System monitoring using the web
- Web user security function supported
- Log file storage function
- Supports simultaneous unified broadcasting with up to 2 source devices and 16 RM units
- Supports up to 192 system broadcasting zones
Each IPA-R10 supports up to 16 zones; the number of IPA-R10 units can vary as long as the total remains within 192 zones
- Up to 255 groups can be designated

Contents and Accessories

1. AC Power Cord x 1EA
2. 4P Terminal Block x 1EA
3. Screws for Rack Mounting x 4EA
4. User Manual x 1EA

Front Panel



1. NETWORK STATUS LED

This LED indicates the operating status of networks 1, 2, 3, and 4.

2. OLED DISPLAY

Network status information is displayed through the OLED Display.

- IP Address, Subnet mask, DNS Server, Mac Address

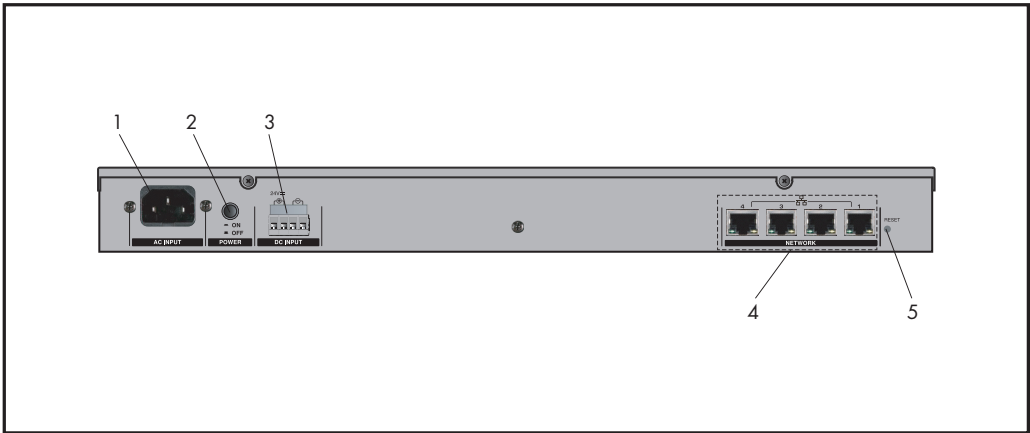
3. DISPLAY PANEL CONTROLLING SWITCH

By turning the display control switch, the user can check the desired information.

4. POWER LED

The green LED lights up when the instrument is powered on.

Rear Panel



1. AC POWER INPUT TERMINAL

This terminal supplies power to this unit. The power used is AC 120-240V, 50/60Hz. Do not forcefully bend, pull, twist, heat, or cut the power cord. It may damage the cord and cause fire or electric shock.

2. AC POWER SWITCH

This is a switch that turns on/off the AC power of the equipment.

3. DC 24V POWER INPUT TERMINAL

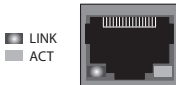
This is an emergency spare battery (DC 24V) connection terminal. In the event of an AC power failure, the equipment operates with the connected spare battery. When DC 24V power is applied to the equipment, the equipment is always operated regardless of the power switch.

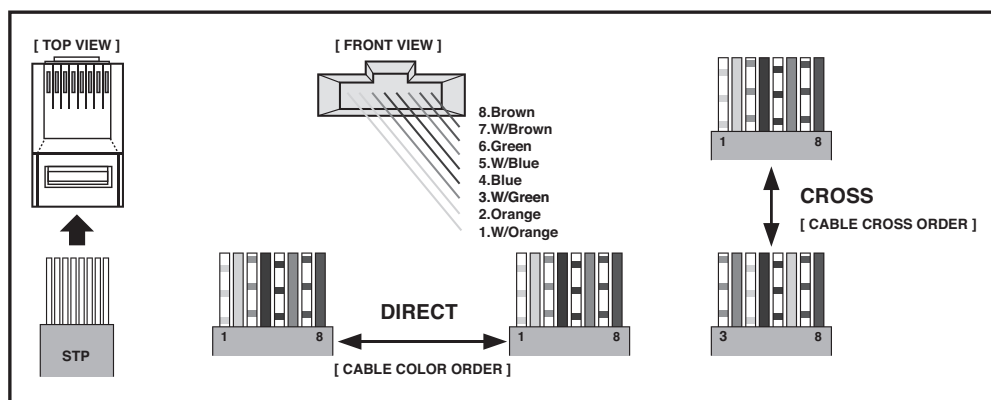
4. NETWORK (1, 2, 3, 4) CONNECTION TERMINALS

This is the terminal that connects the equipment to the network. Broadcasting can be controlled via integrated software.

※ For setting method, refer to the integrated software manual. Please download the manual from the website (www.inter-m.net).

<100 Base-T>		<1G Base-T>	
PIN NO	Function	PIN NO	Function
1	TXP	1	MX(0)+
2	TXN	2	MX(0)-
3	RXP	3	MX(1)+
4	NA	4	MX(2)+
5	NA	5	MX(2)-
6	RXN	6	MX(1)-
7	NA	7	MX(3)+
8	NA	8	MX(3)-



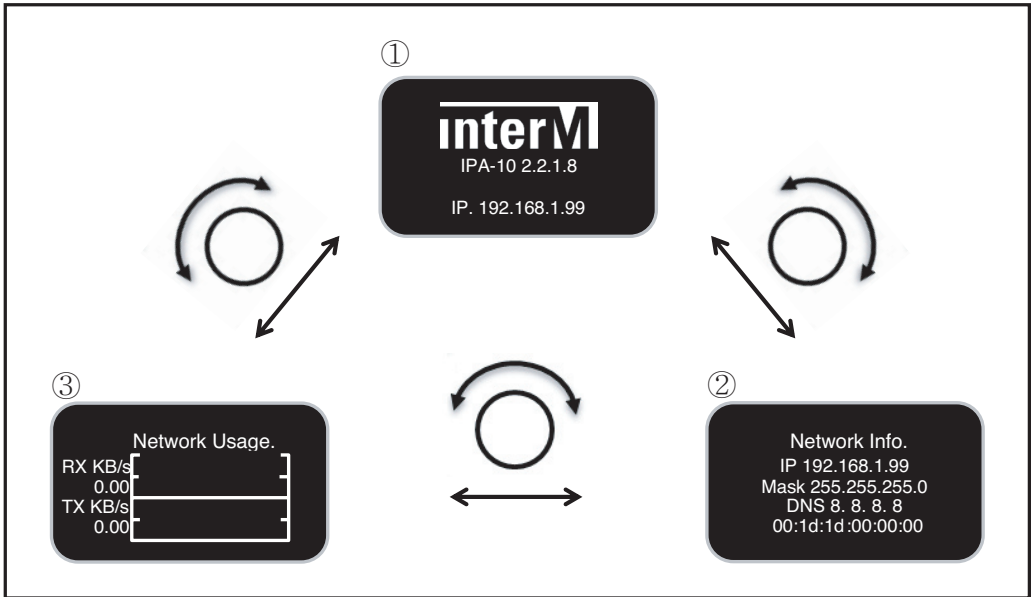


※ It is recommended to use the STP cable for the network cable of this product.

5. RESET SWITCH

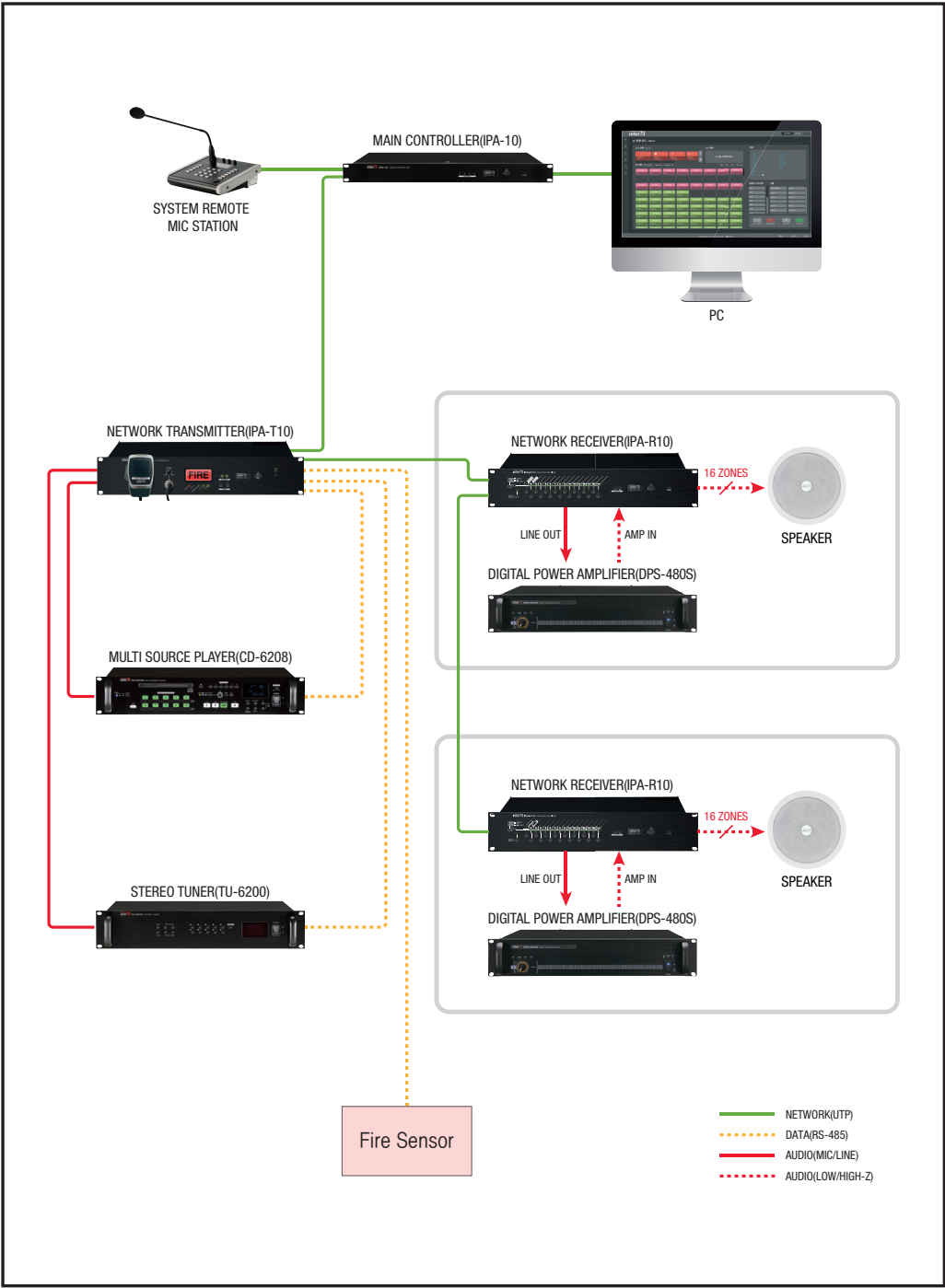
If the switch is pressed for more than 10 seconds, the device settings are reset to factory defaults.

Operation

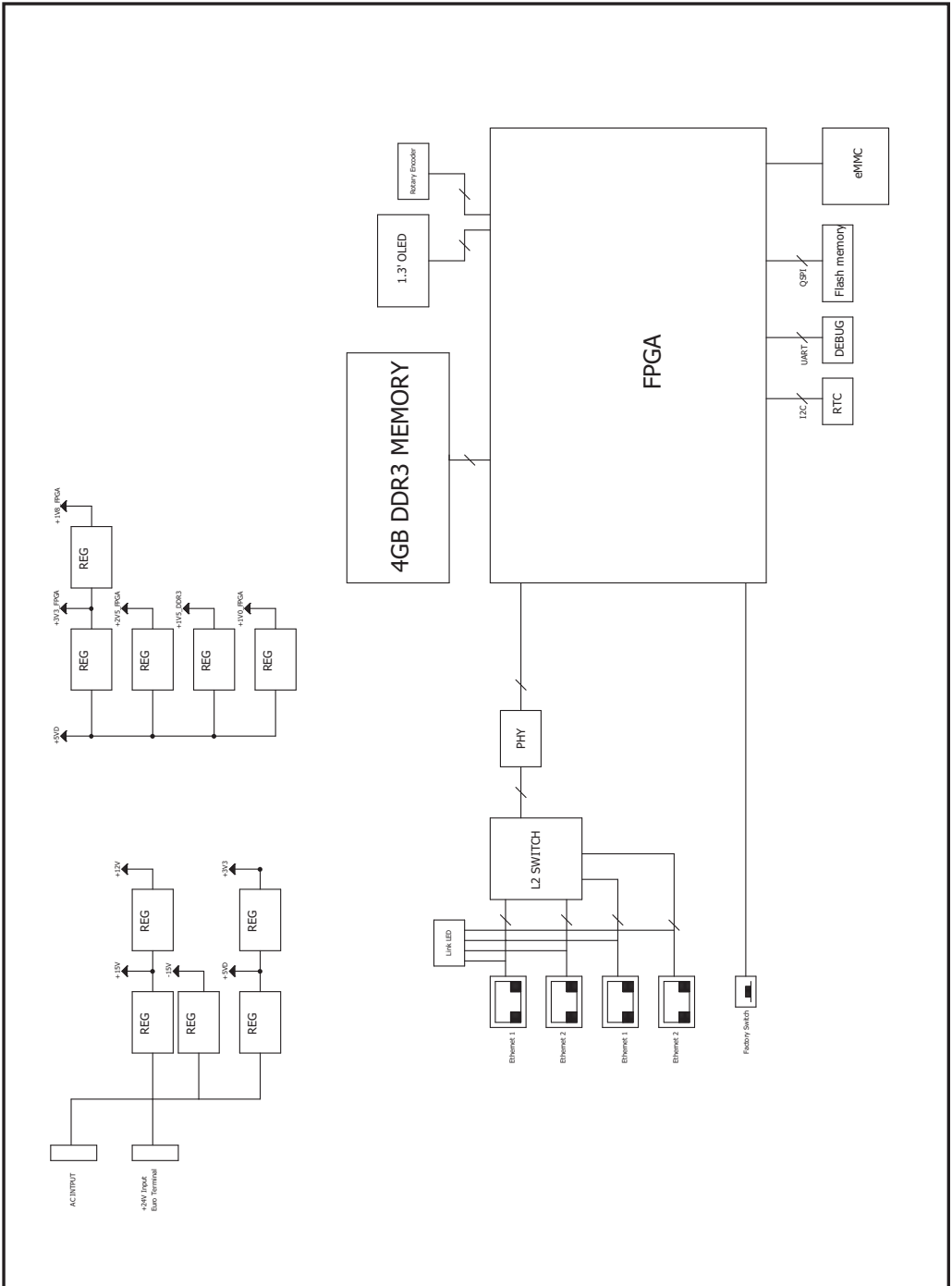


- ① This is the standby screen of the device. The model name (IPA-10), software version, and network IP are displayed.
- ② From the standby screen, turn the front panel control switch to the right to display detailed information related to Network (IP Address, Subnet mask, DNS Server, Mac Address). If you turn the front panel control switch to the left on the Network related detail screen, the standby screen (model name (IPA-10), software version, network IP) is displayed.
- ③ Turning the display window control switch to the right on the network-related detailed information screen displays the network status (RX/tX data rate). In the Network status display screen, when you turn the display control switch to the left, details related to the Network (IP Address, Subnet mask, DNS Server, Mac Address) are displayed.
- ④ If you turn the display control switch to the right on the network status display screen, the standby screen (model name (IPA-10), software version, network IP) is displayed.

Applications



Block Diagram

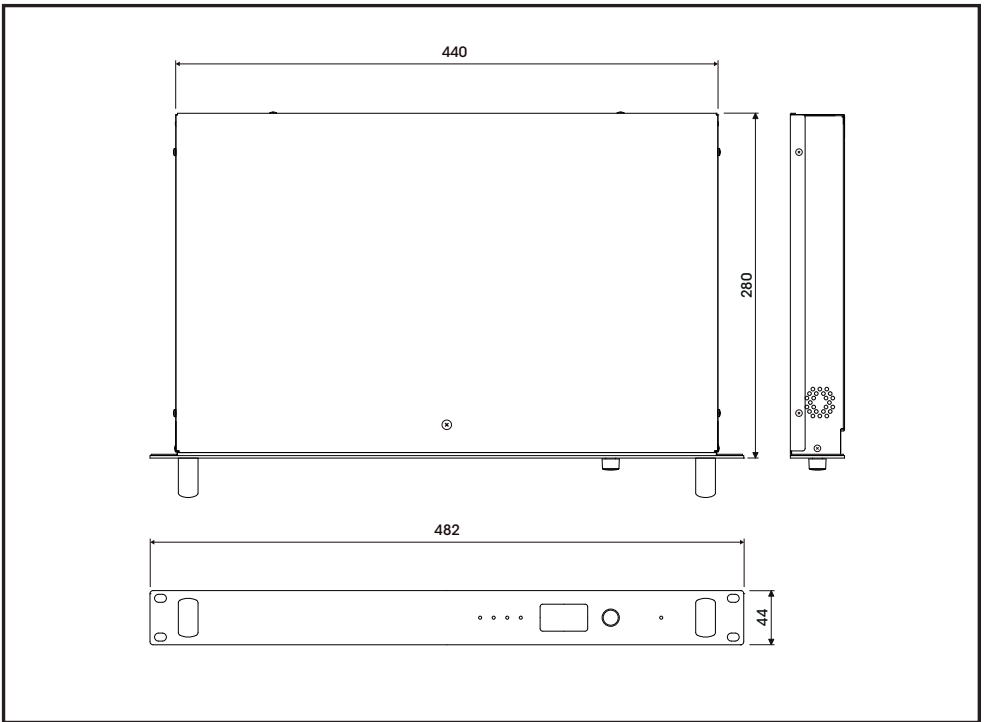


Specifications

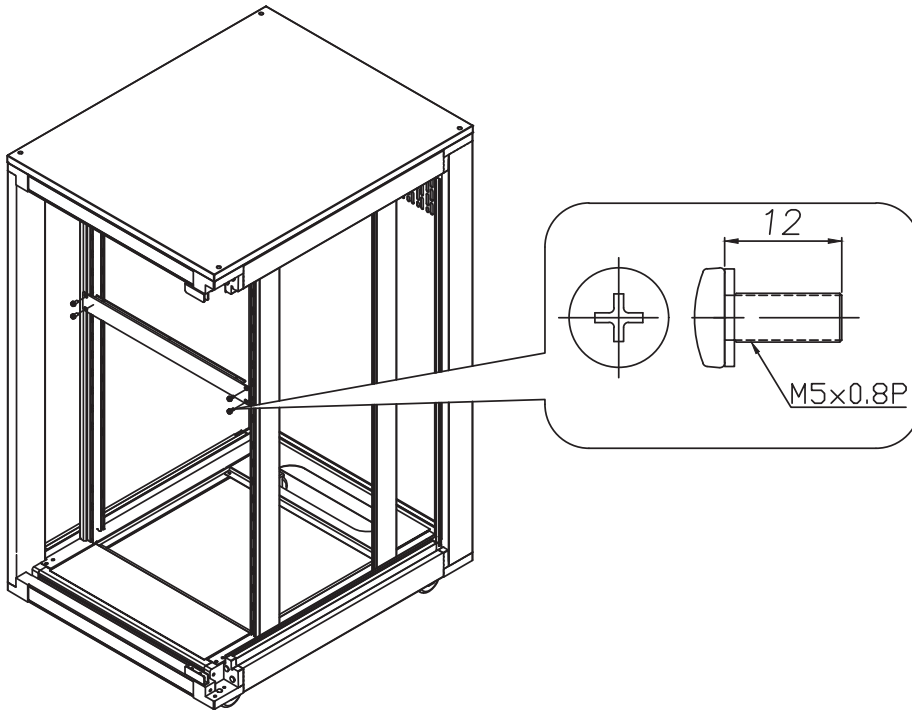
	IPA-10
Network communications	100/1000 Base-T (RJ-45)
Operating Temperature	-10℃~40℃
Operating Voltage	120-240V, 50/60Hz, DC 24V, 300mA
Power Consumption	Max 10W
Weight (SET)	2.9kg/6.4lb
Dimensions (SET)	482(W) x 44(H) x 280(D)mm/19(W) x 1.7(H) X 11(D)in

* Design and specification are subject to be changed for the improvement of product quality without pre notice.

※ DIMENSIONS



Instructions for use of screws



This product can be used on a table or fixed to a rack.

However, be sure to observe the installation precautions below when using it in a rack.

1. Place the product in an empty area of the rack.
2. Using the included mounting screws, tighten the 4 mounting holes so that there are no voids and fix them.
3. Please proceed with the wiring for the operation of the product, and apply the power last.
4. Disassemble in the reverse order of the above procedure.
5. In case of fixing by not using the included screws or screws of the same size, or using insufficient number of screws the manufacturer is not responsible for any safety accidents caused by this.

Accessories included for fixing the product

- Specification: SCREW M5x0.8P, L=12
- Quantity: 4pcs

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.

Inter-M Corporation

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