

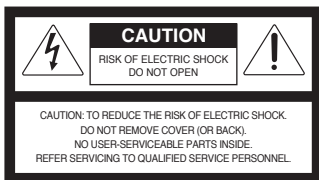
Operation Manual

IP-1000AB IP AUDIO BRIDGE



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

*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.

*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 than objects do not fall and liquids are not spilled into the enclosure through openings."

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.

* It can be heated up if you use this product in closed box or ill-ventilated place.

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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/ap-



paratus 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.

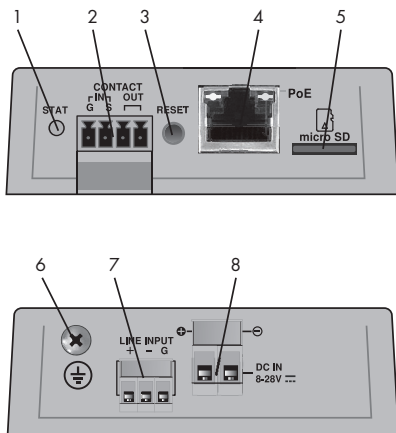
Features

- ❑ POE (IEEE 802.3AF TYPE1 CLASS0)
- ❑ DC POWER INPUT (MIN: 8V, MAX: 28V)
- ❑ 1CH BALANCED LINE INPUT
- ❑ WAV, MP3 FILE STREAMING
- ❑ CONTACT I/O
- ❑ 10/100 BASE-T ETHERNET (DEFAULT IP : 192.168.1.99)
- ❑ MICRO SD MAX. 32GB
- ❑ 1GB USER INTERNAL MEMORY
- ❑ DEVICE CONTROL THROUGH WEB GUI

Contents and Accessories

1. IP-1000AB x 1EA
2. Product manual x 1EA
3. 3.5mm 4P Euro Block x 1EA
4. 3.5mm 3P Euro Block x 1EA
5. 5.08mm 2P Euro Block x 1EA

Part Names and Function

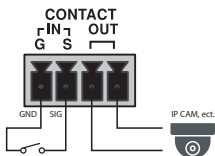


1. Status LED

This is the LED to indicate the operating status of the device. When the device is operating normally, the green LED flickers at about 0.5 second intervals, and flickers rapidly when factory reset is in progress.

2. Contact I/O Terminal

Contact input: This is the DRY CONTACT input terminal.
 Contact output : DRY CONTACT output terminal.
 (N.O : Normally Open)



3. Factory Reset Switch

This is the factory reset switch for your equipment.

If you hold down the switch for more than 20 seconds, the STATUS LED blinks rapidly and initialization proceeds.

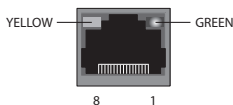
- ※ Keep the power on until normal operation (blinking at 0.5 second intervals). If the power is removed before initialization is complete, it may cause a malfunction.

4. Ethernet Connection Terminal (RJ-45, PoE)

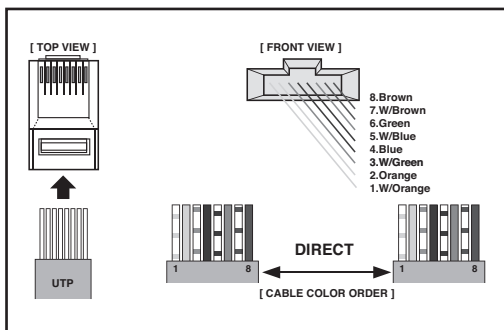
Connect with a network equipment that supports Power over Ethernet (PoE).

Default IP address (static): 192.168.1.99

- ※ When connecting equipment that does not support PoE, a separate DC power must be connected to operate the equipment.
- ※ The specification of the LAN cable is 0.15Ω/m cable, and the maximum length is 100m. The total DC resistance value of the LAN cable must be 15Ω or less.
- ※ It is recommended to use STP Cable.



- GREEN LED : Lights up when operating at 100Mbps.
- YELLOW LED : Lights up when Ethernet is normally connected and flickers during data communication.



PIN NO	DATA	POWER	
		MODE A	MODE B
1	TX+	DC+	-
2	TX-	DC+	-
3	RX+	DC-	-
4	NC	-	DC+
5	NC	-	DC+
6	RX-	DC-	-
7	NC	-	DC-
8	NC	-	DC-

5. Micro SD Slot

This is the terminal to mount the Micro SD memory.
(MAX: 32GB)

6. Ground Terminal

This terminal is used for equipment grounding.

※ Make the ground connection as short as possible.

7. Audio Input Terminal

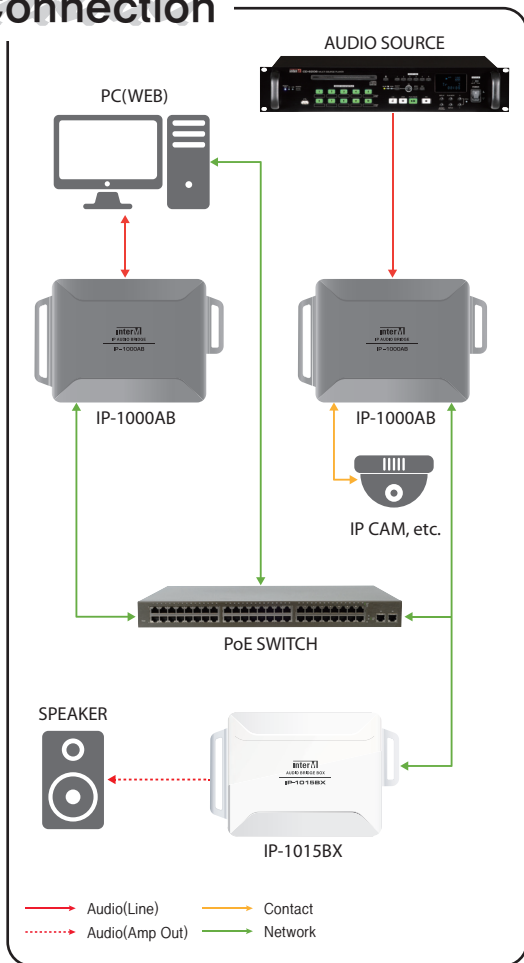
This is the terminal to receive balanced audio signals.
(Max. input level: +6dBV, 2Vrms)

8. DC Power input terminal

This is the terminal to receive DC power. (Min: 8V, Max: 28V)

- ※ Please connect correctly after checking (+) and (-).
- ※ In case of using a power supply that does not meet the product specifications, it may cause malfunction or breakdown.
- ※ If PoE and DC power are applied at the same time, DC power is cut off and operates by PoE.

Connection



Specification

	IP-1000AB
Audio Input	
Maximum Input Level (Balanced)	+6dBV (2Vrms)
Frequency Response	20Hz ~ 20kHz (± 3 dB)
THD (@ +0dBV 1kHz Sine Wave In, IP-1015BX LINE OUTPUT, AES17 20kHz LPF)	$\leq 0.05\%$
S/N (@ +6dBV 1kHz Sine WaveIn, IP-1015BX LINE OUTPUT, AES17 20kHz LPF, A-WTD)	≥ 92 dB
Contact I/O	
Contact Input (1CH)	Dry Contact
Contact Output (1CH)	Dry Contact (N.O : Normally Open)
Storage	
Internal Storage	1GB
Micro SD	Up to 32GB (SDHC)
Network	
Ethernet	10/100 BASE-TX PoE
Connectors	Ethernet Jack (RJ-45)
Power	PoE (IEEE 802.3af) or DC Min: 8V, Max: 28V
Operating temperature	-20°C ~ +50°C
Power consumption	PoE (IEEE 802.3af): 44~57 VDC, Max 90mA, DC: 8~28V, Max 320mA
Weight(Set)	0.24kg
Dimensions(Set)	123(W) x 80(H) x 30.6(D) mm

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

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.



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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