Operation Manual

Dante Audio Controller
DAC-122

* Rack mount products in the Western Hemisphere(North America, South America, and the Caribbean) do not have handles installed due to customer preference.
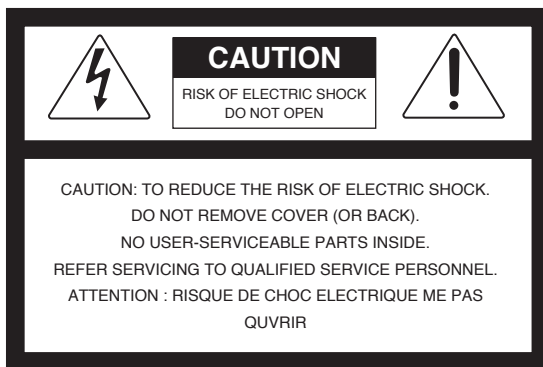
inter**M**

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!

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK.
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
ATTENTION : RISQUE DE CHOC ELECTRIQUE ME PAS
QUVRIR

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 on une autre sortie de courant, sauf si les lames peuvent étre insérées à fond sans en laisser aucune partie à découvert.
Pour deconnecter completement làppareil du reseau dàlimentation. deconnecter le cordon dàlimentation de la prise murale.
Laprise du reseau dàlimentation doit demeurer aisement accessible.

WARNING

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

*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.
*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 vases, shall be placed on the apparatus.
*This apparatus shall be connected to a mains socket outlet with a protective earthing connection.
*It has heed 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.

Contents

Unpacking

Although your DAC-122 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

Features

DAC-122 is real-time audio transport system using network.
DAC-122 can send audio real-time without distortion using TCP/IP Ethernet network.

- **- 2CHANNEL REAL-TIME AUDIO SIGNAL TRANSMISSION**
  2channel audio input (AUDIO INPUT 1, 2)
  2channel audio output (AUDIO OUTPUT 1, 2)

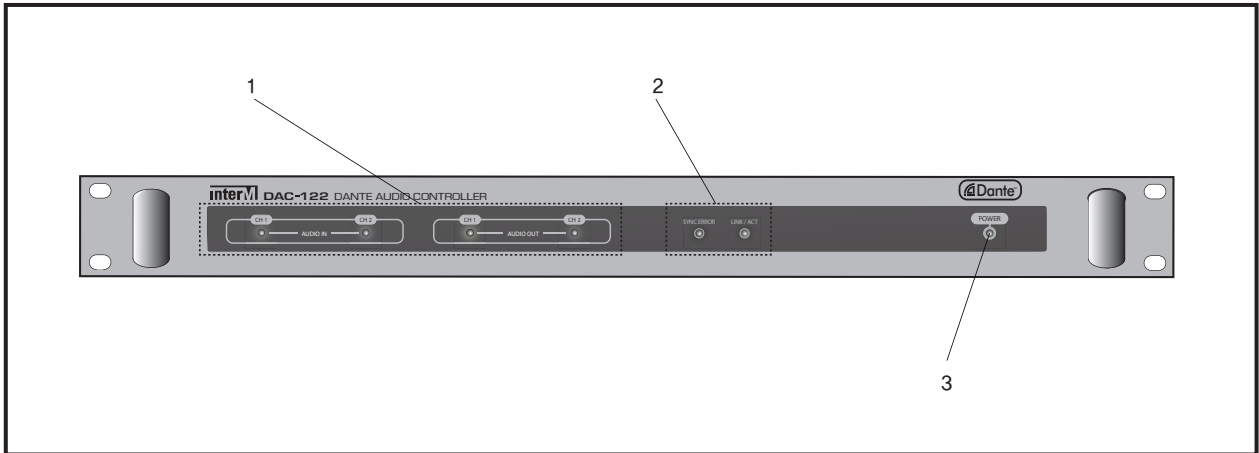- **- DEVICE CONNECTION MONITORING WITH SYSTEM OPERATING PROGRAM**
  DANTE CONTROLLER: Device connection monitoring and system operating monitoring program provided by
  DANTE™ of Audinate.
  ※ It does not support the network utilizing WAN.

Contents and Accessories

1. Power Cord x 1
2. 4P Terminal Block x 1
3. Screw for Rack Mount x 4
4. Lan Cable x 1

Front Panel

1. AUDIO IN/OUT LED
LED displaying audio signal input and output of each channel. When the in/output signal level is operating properly, the green LED turns on. If the in/output signal level is high, the red LED lights up. So lessen the volume of the source device when it is red.

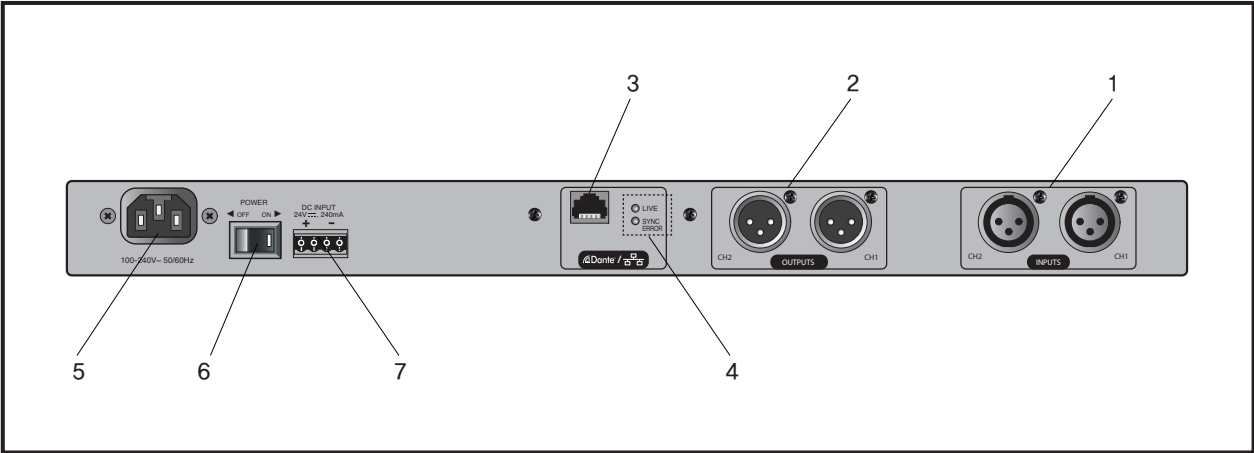### 2. NETWORK STATUS LED (SYNC ERROR, LINK/ACT)
The LED shows the status of network.
- SYNC ERROR: The LED blinks when the device is not connected to the network.
- LINK/ACT: The LED displays network connection status(LINK) and data transmitter/receiver(ACT).
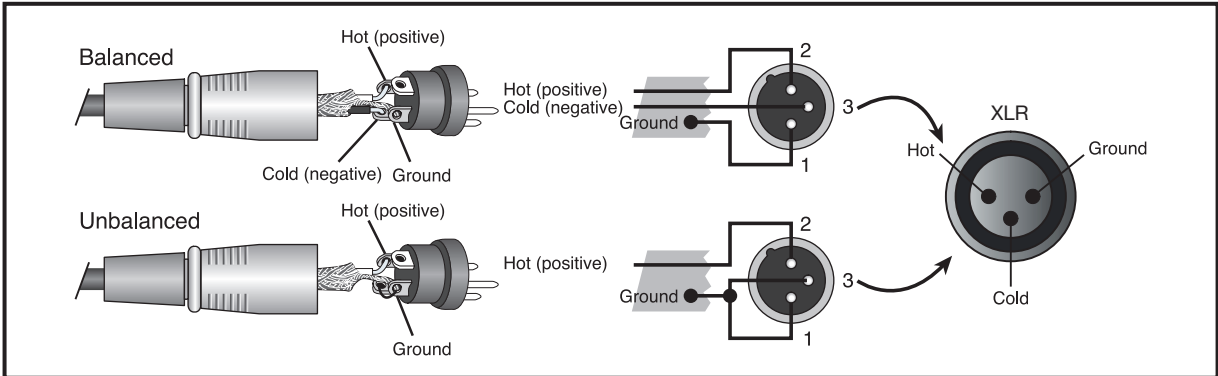
3. POWER LED
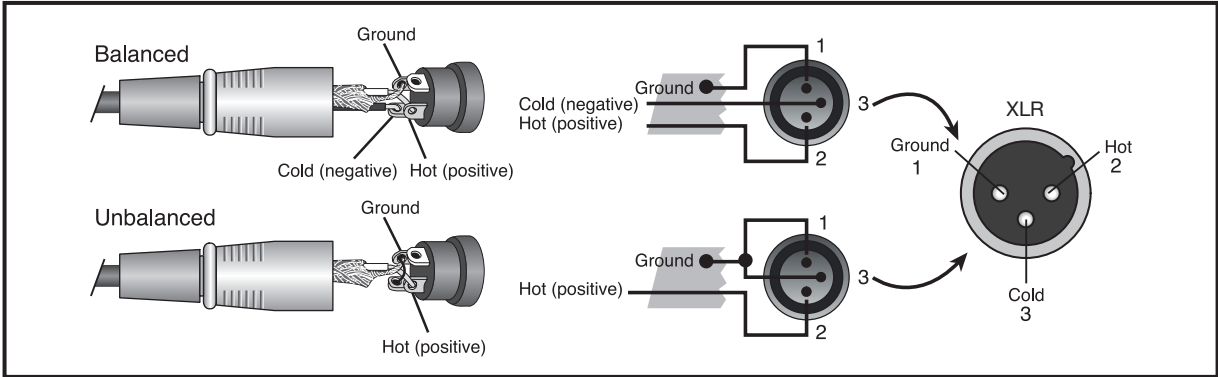This LED is on when the amplifier is active and powered.

Rear Panel

1. AUDIO INPUT (CH 1, 2)

This is a line input terminal of audio. When connecting to balanced signal, be sure to use balanced cable and please refer to the following picture when using unbalanced cable.
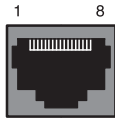

2. AUDIO OUTPUT (CH 1, 2)

This is an output terminal of audio. When connecting to balanced signal, be sure to use balanced cable and please refer to the following picture when using unbalanced cable.

DAC-122   **5**
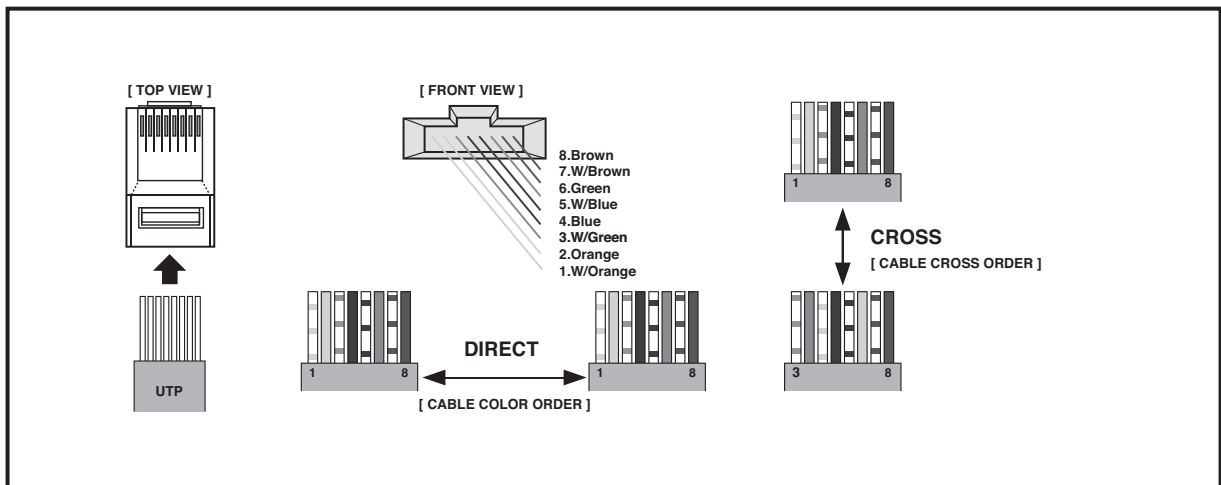
3. NETWORK TERMINAL

This is a RJ45 network terminal it connects DAC-122 to the internet using an ethernet switch, router or PC. The network port supports 10/100mbps.

PIN NO.	Functions
1	TXN
2	TXP
3	RXN
4	NA
5	NA
6	RXP
7	NA
8	NA

COMMUNICATION CABLE STANDARD
DAC-122 is connected to CAT5 cable.

[TOP VIEW]

[FRONT VIEW]

8.Brown
7.W/Brown
6.Green
5.W/Blue
4.Blue
3.W/Green
2.Orange
1.W/Orange

UTP

DIRECT
[CABLE COLOR ORDER]

CROSS
[CABLE CROSS ORDER]

4. NETWORK STATUS DISPLAYING LED

The LED displays the network status.
- LIVE: This LED checks operation status of the device. When the device is working properly, the LED lights up.
- SYNC ERROR: When the device is not connected to the device, the LED blinks

5. AC INLET

Connect the power cable which is supplied with the unit. Do not bend, pull, twist, heat and cut by force. It may cause electric shock.

6. POWER SWITCH

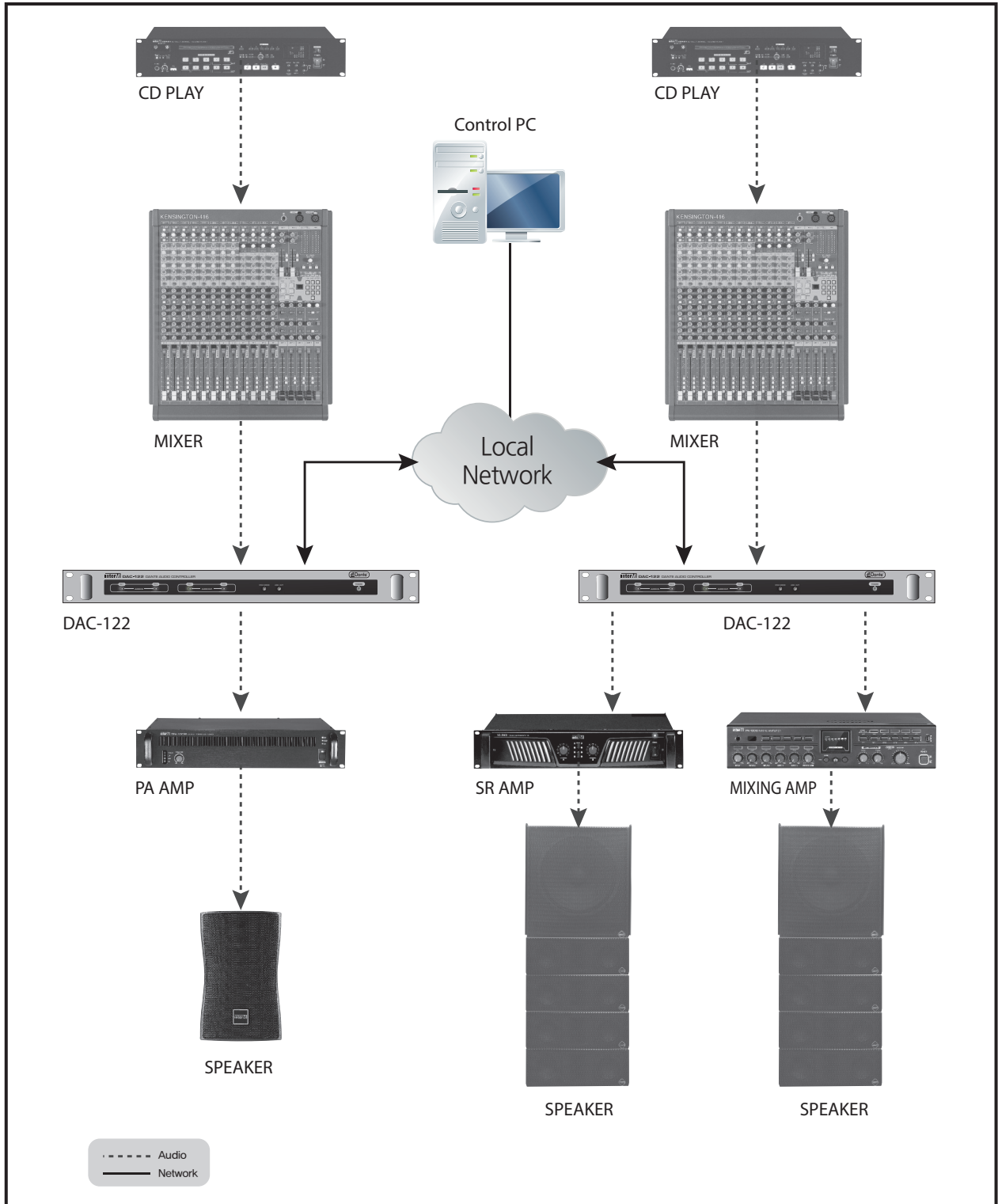The switch is used to turn On and Off the AC power.

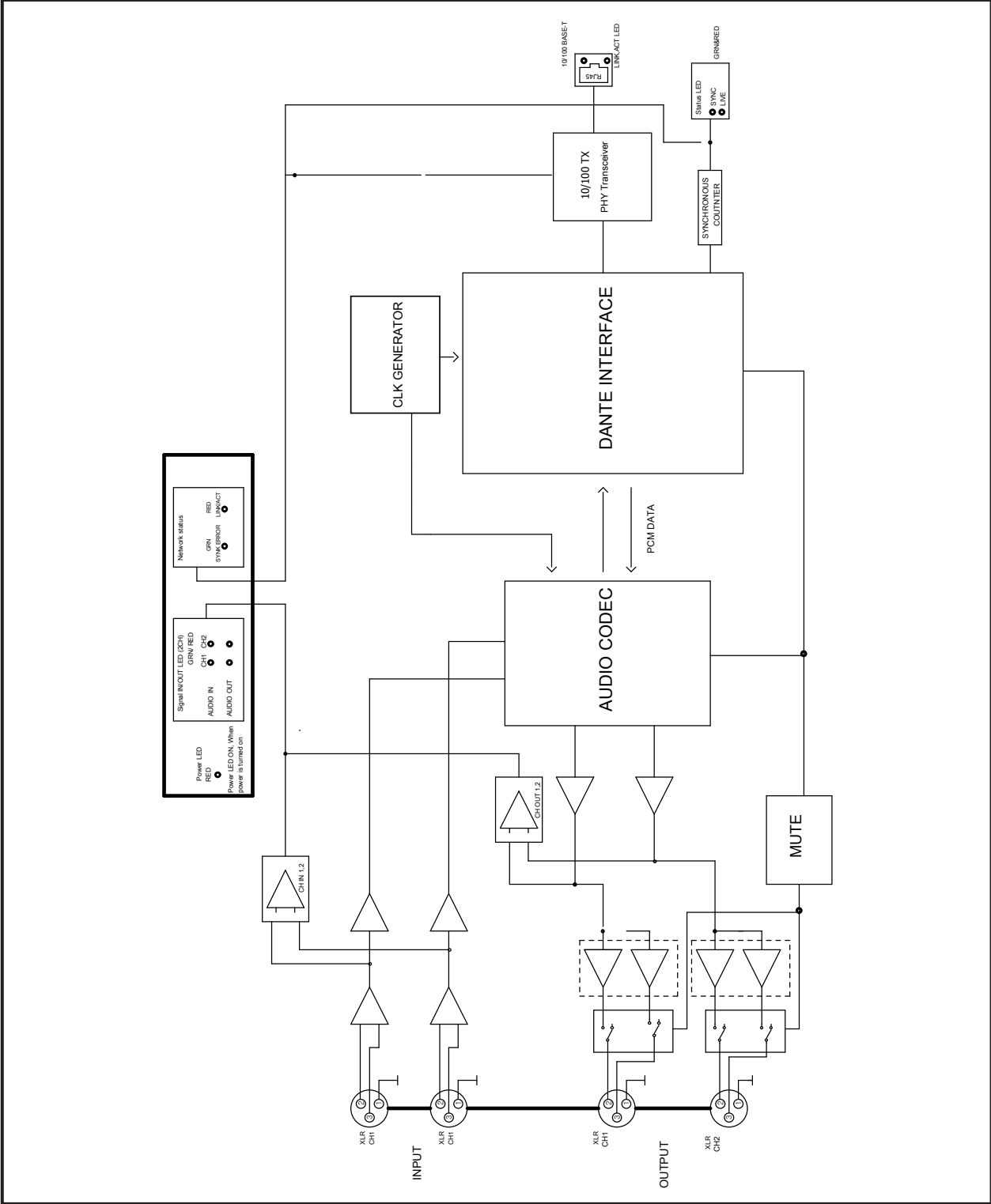**7. DC TERMINAL**

DC 24V direct current power input terminal.

※ lease check voltage and +,- polarity.

※ When AC and DC power is inserted simultaneously, AC power is prior to DC and DC operates when AC power is disconnected.
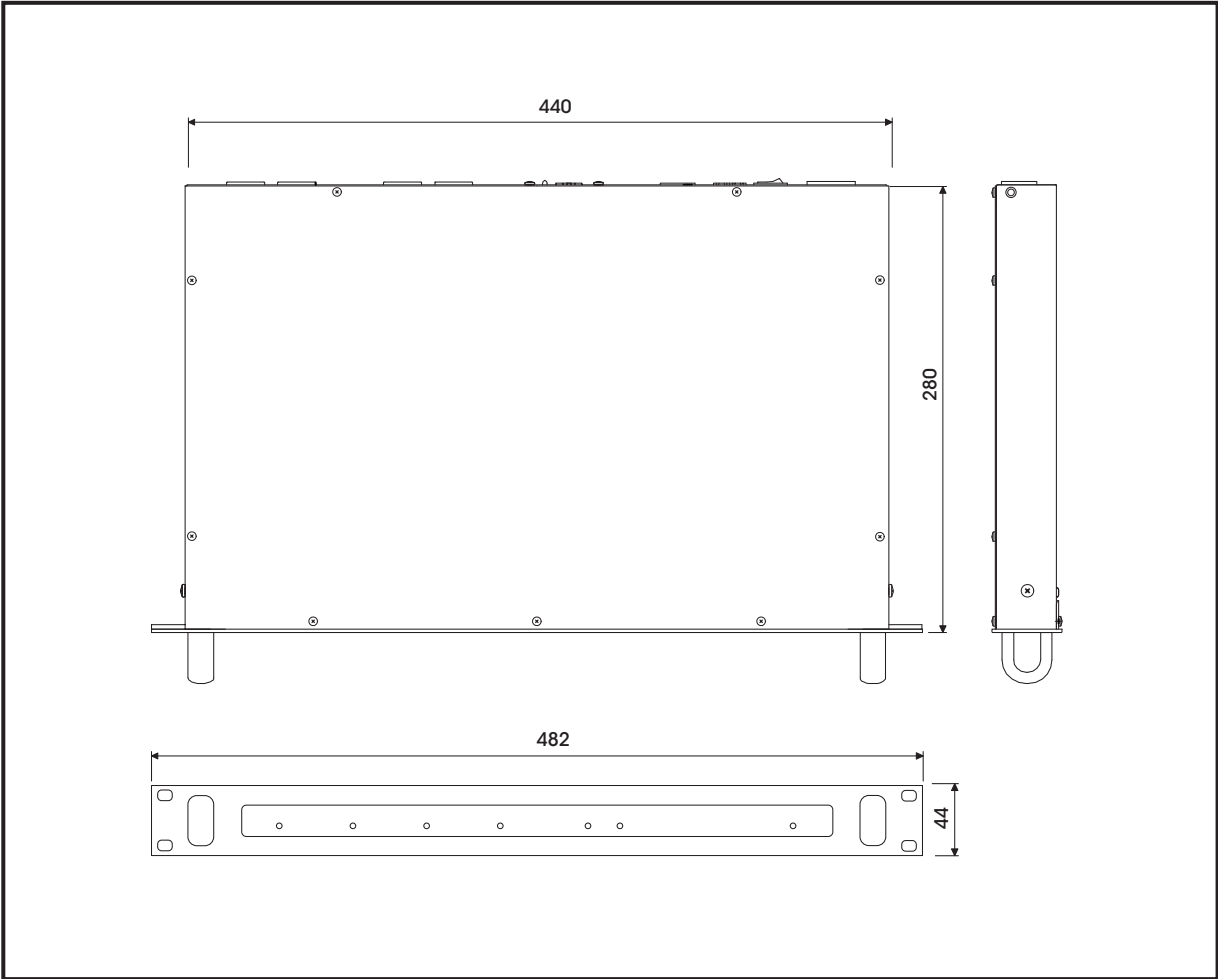
Applications

CD PLAY

Control PC

CD PLAY

MIXER

Local
Network

MIXER

DAC-122

DAC-122

PA AMP

SR AMP

MIXING AMP

SPEAKER

SPEAKER

SPEAKER

- - - - - Audio
——— Network

Block Diagram

Specifications

		DAC-122
AUDIO	Max Input Level	+20dBu
	Max Output Level	+20dBu
	Frequency Response (0±3dB)	20Hz~20kHz
	T.H.D (@ +20dBu, 1kHz, LPF 20kHz)	Less than 0.01%
	Sampling Frequency	48kHz
	Quantization Bit	24bit
	S/N (@ Input +20dBu, 1kHz, LPF 20kHz)	Better than 100dB
Data Communication	Ethernet (LAN)	10/100 Base-Tx
General	Operating Temperature	-10°C ~ +40°C
	Power Source	AC 100-240V, 50/60Hz, DC 24V
	Power Consumption	10W
	Weight (SET)	2.91kg/6.4lb
	Dimensions (SET)	482(W) × 44(H) × 280(D)mm/19(W) x 3.5(H) x 11(D)in

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

※ DIMENSIONS

440

280

482

44

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

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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