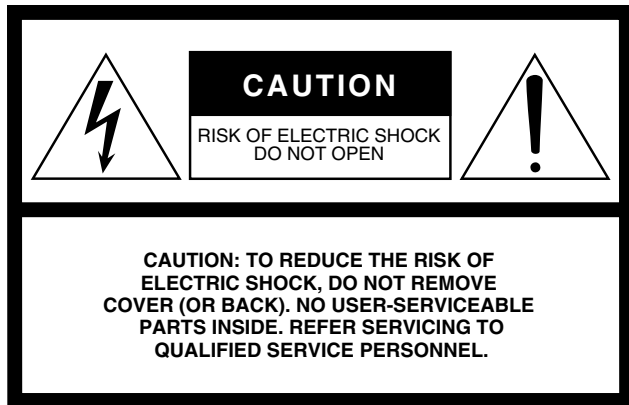


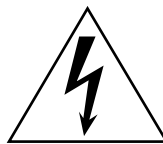


MIC LINE AMPLIFIER **MLA8**

Owner's Manual
Bedienungsanleitung
Mode d'emploi
Manual de instrucciones



Explanation of Graphical Symbols



The lightning flash with arrowhead symbol within an equilateral triangle 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.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

The above warning is located on the top of the unit.

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.



WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.


IMPORTANT NOTICE FOR THE UNITED KINGDOM

Connecting the Plug and Cord

WARNING: THIS APPARATUS MUST BE EARTHED IMPORTANT. The wires in this mains lead are coloured in accordance with the following code:

GREEN-AND-YELLOW : EARTH
 BLUE : NEUTRAL
 BROWN : LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured GREEN-and-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol  or colored GREEN or GREEN-and-YELLOW.

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

* Please keep this manual in a safe place for future reference.



WARNING

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:

Power supply/Power cord

- Only use the voltage specified as correct for the device. The required voltage is printed on the name plate of the device.
- Use only the included power cord.
- Do not place the power cord near heat sources such as heaters or radiators, and do not excessively bend or otherwise damage the cord, place heavy objects on it, or place it in a position where anyone could walk on, trip over, or roll anything over it.

Do not open

- Do not open the device or attempt to disassemble the internal parts or modify them in any way. The device contains no user-serviceable parts. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified Yamaha service personnel.

Water warning

- Do not expose the device to rain, use it near water or in damp or wet conditions, or place containers on it containing liquids which might spill into any openings.
- Never insert or remove an electric plug with wet hands.

If you notice any abnormality

- If the power cord or plug becomes frayed or damaged, or if there is a sudden loss of sound during use of the device, or if any unusual smells or smoke should appear to be caused by it, immediately turn off the power switch, disconnect the electric plug from the outlet, and have the device inspected by qualified Yamaha service personnel.
- If this device should be dropped or damaged, immediately turn off the power switch, disconnect the electric plug from the outlet, and have the device inspected by qualified Yamaha service personnel.



CAUTION

Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the device or other property. These precautions include, but are not limited to, the following:

Power supply/Power cord

- Remove the electric plug from the outlet when the device is not to be used for extended periods of time, or during electrical storms.
- When removing the electric plug from the device or an outlet, always hold the plug itself and not the cord. Pulling by the cord can damage it.

Location

- Before moving the device, remove all connected cables.
- Do not expose the device to excessive dust or vibrations, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day) to prevent the possibility of panel disfiguration or damage to the internal components.
- Do not place the device in an unstable position where it might accidentally fall over.
- Do not use the device in the vicinity of a TV, radio, stereo equipment, mobile phone, or other electric devices. Otherwise, the device, TV, or radio may generate noise.

Connections

- Before connecting the device to other devices, turn off the power for all devices. Before turning the power on or off for all devices, set all volume levels to minimum.

Handling caution

- Do not insert your fingers or hand in any gaps or openings on the device.
- Avoid inserting or dropping foreign objects (paper, plastic, metal, etc.) into any gaps or openings on the device. If this happens, turn off the power immediately and unplug the power cord from the AC outlet. Then have the device inspected by qualified Yamaha service personnel.
- Do not rest your weight on the device or place heavy objects on it, and avoid use excessive force on the buttons, switches or connectors.

XLR-type connectors are wired as follows (IEC60268 standard): pin 1: ground, pin 2: hot (+), and pin 3: cold (-).

Yamaha cannot be held responsible for damage caused by improper use or modifications to the device.

Always turn the power off when the device is not in use.

The performance of components with moving contacts, such as switches, volume controls, connectors, and fans, deteriorates over time. Consult qualified Yamaha service personnel about replacing defective components.

European models

Purchaser/User Information specified in EN55103-1 and EN55103-2.

Inrush Current: 2 A

Conforms to Environments: E1, E2, E3 and E4

Introduction

Thank you for choosing the Yamaha MLA8 mic line amplifier. The MLA8 is an eight-channel mic/line amplifier. The input section features balanced XLR connectors, high-quality mic preamps, +48V phantom power per channel, and support for both mic and line-level inputs. The output section features Euroblock connectors and a D-sub 25-pin connector for compatibility with a wide variety of installations and applications, including connection to the Yamaha DM2000 Digital Mixer.

In order to get the most out of your new MLA8 and its sophisticated functions, we suggest you read through this manual thoroughly. Also keep it in a safe, convenient place so that you can regularly refer to it when necessary.

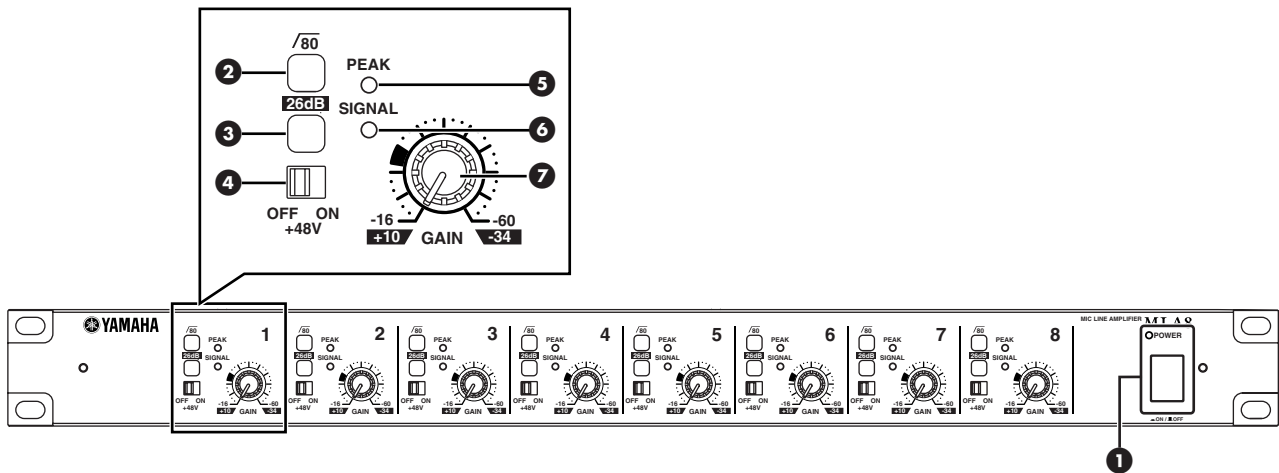
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| Specifications | 19 |
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- Yamaha Pro Audio global web site:
<http://www.yamahaproaudio.com/>

Controls and Connectors

Front Panel



1 POWER switch and indicator

This switch turns the power on or off. Press the switch in to turn it on (the Power indicator lights).



To avoid loud noise from the speakers, first turn on the power to the connected devices that are closest to the sound source.

Example: Sound source → MLA8 → Mixer → Power amplifier

To turn off the power to the system, reverse the order described above.

2 [/80] buttons

This button switches the high pass filter (HPF) on or off for each channel, cutting frequencies below 80Hz. Press the button in to turn HPF on.

3 [26dB] buttons

Pressing this button turns on the attenuator for each channel, attenuating the input signal level by 26dB.

4 [+48V] switches

This switch supplies phantom power to pins 2 and 3 of the XLR-type input connectors on each channel. Turn this switch on if you are using condenser microphones requiring external +48V power with the INPUT (XLR) connector.



- To avoid damage to speakers, be sure to turn off any connected amplifier (or powered speakers) before turning these switches on or off.
- Be sure to leave these switches off if you do not need phantom power. If you connect to an unbalanced device or to an ungrounded transformer while these switches are on, it may result in humming noise or even damage.

5 PEAK indicators

Light up in red when the signal level via the channel's GAIN control comes within 3dB of the clipping level.

6 SIGNAL indicators

Light up in green when the signal level via the channel's GAIN control reaches within 10dB of the nominal (rated) level.

7 GAIN controls

Adjust the gain applied to the input signal level. If level is low (e.g., mic input) turn the [26dB] button off, and adjust the input levels from -60dBu to -16dBu. If the signal level is high (e.g., line input), turn the [26dB] button on, and adjust the input levels from -34dBu to +10dBu.

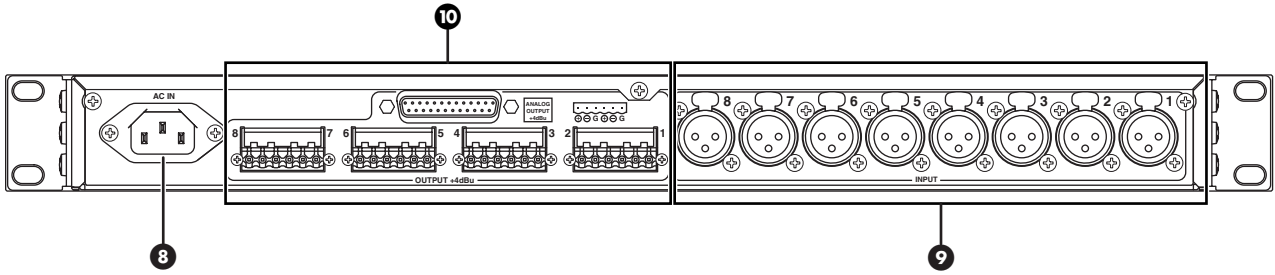
NOTE To get the best balance between the S/N ratio and the dynamic range, adjust the gain so that the Peak indicator comes on just as the signal approaches its maximum level.

Security cover

This device has two holes for installing the protective cover on each side of the front panel (size: M3, distance between holes: 423mm). To prevent operation errors and inadvertent changes, you can attach a user-made cover to the front panel. Yamaha, however, does not make a security cover for the device.

If you attach such a cover yourself, make sure that the securing screws do not protrude inside the front panel by more than 15mm. To avoid the cover touching the knob, be sure to leave a space of about 20mm between the front panel and the cover.

Rear Panel



8 AC IN connector

Connect the included power cord here. First, connect the power cord to the MLA8, then insert the power cord plug into the AC outlet.



Be sure to use the included power cord. Use of other cords may result in malfunction, heat generation, or fire.

9 INPUT 1-8 connectors

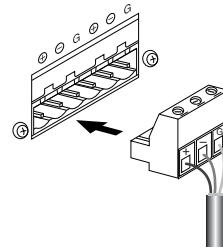
These balanced XLR-3-31-type connectors are used to input analog signals to the corresponding channels.

10 OUTPUT connectors

There are two types of balanced output connectors: Euroblock connectors and D-sub 25-pin connector.

●Euroblock connectors

The device has four Euroblock connectors with six pins. These dual channel connectors consist of three pins: hot, cold, ground on each channel. The supplied Euroblock plugs should be wired as shown. Tighten the screws to secure the wires.



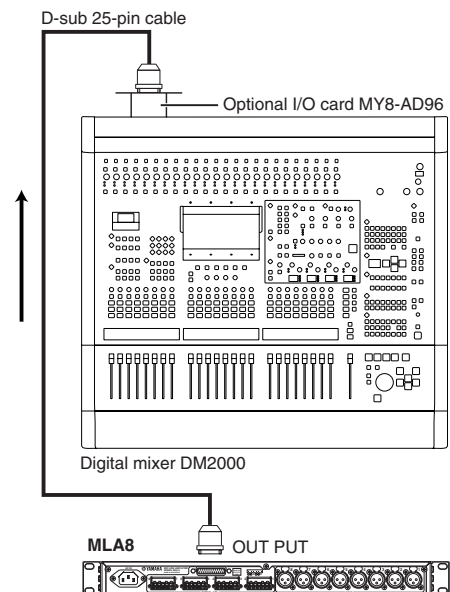
●D-sub 25pin connector

Using the optional I/O card (MY8-AD96), you can connect to the Yamaha DM2000 Digital Mixer.

Connection Example

Connecting to the DM2000

You can connect the device to Yamaha digital audio equipment using the D-sub 25-pin connector. For connection to the DM2000, you will need the optional I/O card (MY8-AD96).



Specifications

Electrical Characteristics

| | | Conditions | MIN | TYP | MAX | UNIT |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------------------------------------|------|-----|---------------------|------|
| Total Harmonic Distortion (THD+N) | | 20 Hz - 20 k Hz @ +14 dBu, 10 k ohms, GAIN Maximum | | | 0.1 | % |
| | | 20 Hz - 20 k Hz @ +14 dBu, 10 k ohms, GAIN Minimum | | | 0.01 | % |
| Frequency Response | | 20 Hz - 20 k Hz @ +4 dBu, 10 k ohms, GAIN Maximum | -1 | 0 | 0.5 | dB |
| | | 20 Hz - 20 k Hz @ +4 dBu, 10 k ohms, GAIN Minimum | -0.5 | 0 | 0.5 | dB |
| Hum & Noise (20 Hz - 20 k Hz) Rs=150 ohms Hum & Noise are measured with a 6 dB/octave filter @12.7 k Hz; equivalent to a 20 k Hz filter with infinite dB/octave attenuation. | | PAD OFF, GAIN Maximum (Sensitivity = -60 dBu) | | | -128 (68 dB S/N) | dBu |
| | | PAD ON , GAIN Maximum (Sensitivity = -34 dBu) | | | -99 (65 dB S/N) | dBu |
| | | PAD OFF, GAIN Minimum (Sensitivity = -16 dBu) | | | -108 (92 dB S/N) | dBu |
| | | PAD ON , GAIN Minimum (Sensitivity = +10 dBu) | | | -82 (92 dB S/N) | dBu |
| Maximum Voltage Gain | | CH IN to CH OUT | | 64 | | dB |
| Crosstalk | Adjacent Inputs | @ 1 k Hz | | | -90 | dB |
| | PAD ON, GAIN Minimum | @ 10 k Hz | | | -70 | dB |
| CH INPUT GAIN control | | variable | | 44 | | dB |
| CH INPUT PAD switch | | | | 26 | | dB |

0 dBu is referenced to 0.775 V rms.

General Specifications

| | |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| CH High Pass Filter | 80 Hz, 12 dB/octave Turn over /roll-off frequency of shelving : 3 dB below maximum variable level. |
| Phantom Power | +48 V DC is applied to balanced inputs for powering condenser microphones via 6.8 k ohms current-limiting/isolation resistors. |
| CH PEAK LED | One red LED per channel. Comes on when post - GAIN signal level reaches +17 dBu. |
| CH SIGNAL LED | One green LED per channel. Comes on when post - GAIN signal level reaches -10 dBu. |
| Included Accessories | Power Supply Cord, Euroblock Connectors (3P x 8), Rubber Feet (x 4), Owner's Manual |
| Power Consumption | 25 W |
| Dimensions (W x H x D) | 480 mm x 44 mm x 375.5 mm |
| Weight | 4.7 kg |

Input Characteristics

| PAD | Gain | Actual Load Impedance | For Use With Nominal | Input Level *1 | | Connector In Amplifier unit |
|-----|------|-----------------------|--------------------------------------|-----------------------|----------------------|-----------------------------|
| | | | | Nominal | Max. before Clip | |
| 0 | -60 | 3 k ohms | 50 – 600 ohms Mics 600 ohms Lines | -60 dBu (0.775 mV) | -40 dBu (7.75 mV) | XLR-3-31type (balanced) |
| 26 | | | | -34 dBu (15.5 mV) | -14 dBu (155 mV) | |
| 0 | -16 | | | -16 dBu (123 mV) | +4 dBu (1.23 V) | |
| 26 | | | | +10 dBu (2.45 V) | +30 dBu (24.5 V) | |

*1: 0 dBu is referenced to 0.775 Vrms.

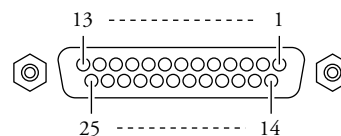
Output Characteristics

| Actual Source Impedance | For Use With Nominal | Output Level *1 | | Connector In Amplifier unit |
|-------------------------|----------------------|--------------------|---------------------|---------------------------------------------|
| | | Nominal | Max. before Clip | |
| 150 ohms | 10 k ohms Lines | +4 dBu (1.23 V) | +24 dBu (12.3 V) | Euroblock connectors (balanced) |
| | | | | D-SUB 25P female connector (balanced) |

*1: 0 dBu is referenced to 0.775 Vrms.

D-sub 25pin Assignment Table

| Signal | | Output Ch | | | | | | | | Open | GND |
|--------|------|-----------|----|----|----|----|----|----|----|------|--------------------------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
| Pin | Hot | 24 | 10 | 21 | 7 | 18 | 4 | 15 | 1 | 13 | 2, 5, 8, 11, 16, 19, 22, 25 |
| | Cold | 12 | 23 | 9 | 20 | 6 | 17 | 3 | 14 | | |



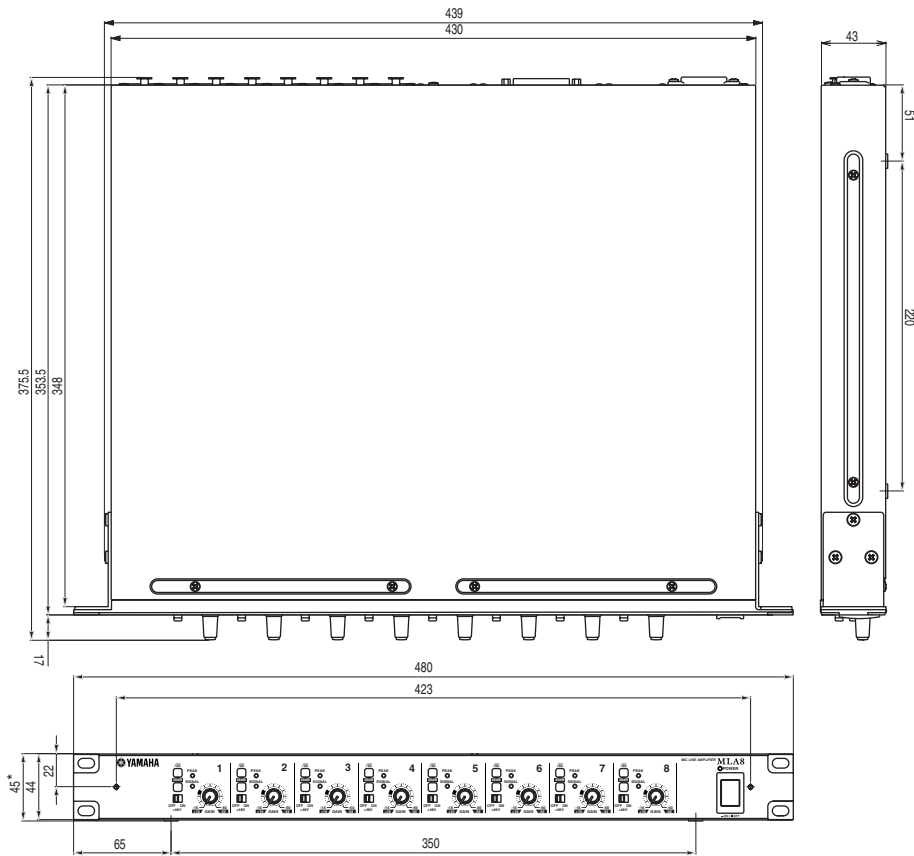
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Dimensions



Unit: mm

- *When the included rubber feet are attached
- *Wenn die mitgelieferten GummifüÙe angebracht wurden
- *Lorsque les pieds en caoutchouc fournis sont fixés
- *Cuando se colocan los apoyos de goma incluidos

If you do not intend to rack-mount the MLA8, attach the included rubber feet to the bottom surface of the device. Attach the rubber feet in the positions marked by small circles on the bottom.

Wenn Sie keine Rack-Montage des MLA8 beabsichtigen, befestigen Sie die mitgelieferten GummifüÙe an der Geräteunterseite. Befestigen Sie die GummifüÙe an den Positionen an der Unterseite, die durch kleine Kreise markiert sind.

Si vous n'avez pas l'intention de monter le MLA8 en bâti, fixez les pieds en caoutchouc fournis sur la partie inférieure de l'appareil. Fixez les pieds en caoutchouc aux positions marquées par des petits cercles sur la partie inférieure.

Si no va a montar el MLA8 en un bastidor, coloque en la superficie inferior del aparato los apoyos de goma que se incluyen. Coloque los apoyos de goma en las posiciones marcadas con pequeños círculos en la parte inferior del aparato.

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