

# DAD-M100pro

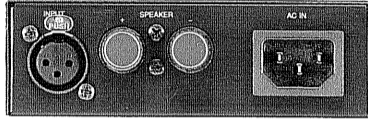
## Owner's Manual

Thank you for purchasing the DAD-M100pro.  
In order to use the product in a safe manner, please read this Owner's Manual thoroughly before using.  
Also, keep this manual in a safe place for future reference.

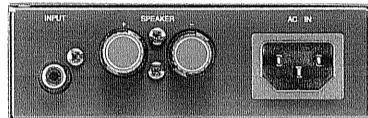
● DAD-M100proBI



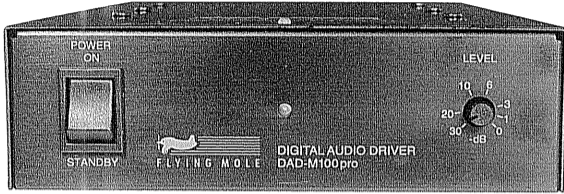
● DAD-M100proBB



● DAD-M100proHT

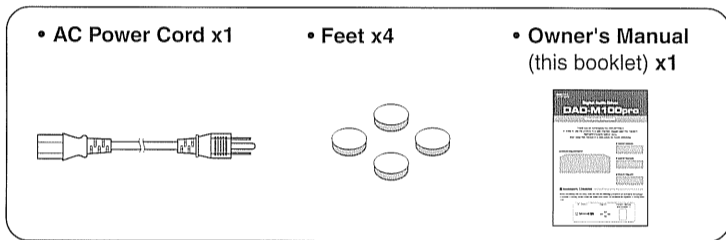


● DAD-M100proBI/BB/HT



### Accessory Checklist

Before proceeding with the setup, make sure that the following accessories are included in the package. If anything is missing, please contact the dealer from whom you purchased the amplifier, or Flying Mole Corp.



### Safety Instructions

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 operated normally, or has been dropped.

THE APPARATUS IS NOT WATERPROOFS, TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE AND DO NOT PUT ANY WATER SOURCE NEAR THIS APPARATUS, SUCH AS VASE, FLOWER POT, COSMETICS CONTAINER AND MEDICINE BOTTLE ETC.

## 2 Features

The DAD-M100pro (Digital Audio Driver) is a Digital amplifier that uses \*Bi-Phase Fusion Technology (pat. Pending) to combine the power amplifier's power section with the amplifier section to achieve an amazing total conversion efficiency rate of 85%, including the power supply. The amplifier is extremely compact and lightweight, and depending upon the type, offers versatility in a variety of applications as described below.

- **BI Type**
  - Commercial sound applications
  - Convenient connections allow easy connection/disconnection and facilitating of transport.
- **BI Type**
  - Powered speaker systems
  - Custom installation
  - Sound equipment in the professional space
- **HT Type**
  - Powered speaker systems
  - AV home theater systems
  - Multi-channel systems
- **High Output Power** . . . . . 160W/4Ω monaural, 100W/8Ω monaural
- **Highly Efficient Operation** . . . . . 85% total conversion rate delivers extremely efficient operation (AC input to SP output) Low heat generation- case temperature is approximately Tc43°C (room temperature Ta=25°C) DT= approximately 18°C, measured under controlled conditions: output 1/8 of 160W/4Ω Power consumption is 1/3 of that of conventional analog amplifiers, 30watts/4Ω at 1/8 of rated output power.
- **Super Compact Design** . . . . . Dimensions: 130(W) x 210(D) x 41(H)mm 5-1/16"(W) x 8-1/4"(D) x 1-9/16"(H)inch (Main unit only, knobs and jacks are not included)
- **Super Lightweight** . . . . . Weight: approx. 650g (1.43 lb)
- **Sealed Enclosure** . . . . . Natural cooling. Sealed case without ventilation. Prevents dust from entering the amplifier. Highly reliable. Utilization of KY-I high performance insulation provides uniformed temperature within the case.

\* "Bi-Phase Fusion Technology" is the general name given to the technology developed by Flying Mole Corp.

## 1 Safety Instructions



**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.



THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT.



THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE OWNER'S MANUAL WITH THIS UNIT.

**WARNING :** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

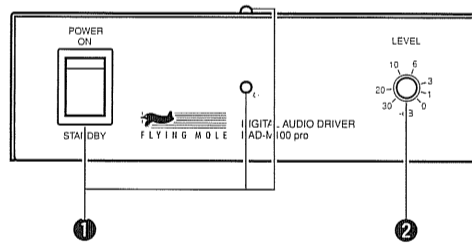
### The important safety instructions

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.



## 3 Component Names

### Front Panel



1 Power Switch/Indicator

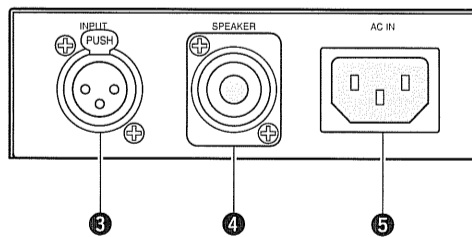
Used to turn the amplifier's power ON or STANDBY. Two (2) indicators light when the power is switched ON.

2 INPUT LEVEL knob

Controls the input signal level. The level can be adjusted from 0dB to -30dB. (This level should normally be set to "0dB" and the volume control on the preamplifier, etc. that is connected to the amplifier should be used to control volume.)

### Rear Panel

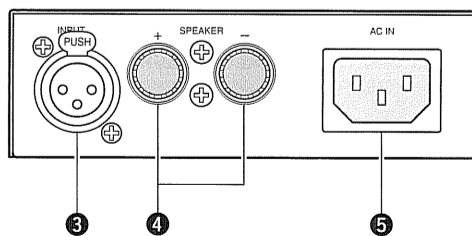
● BI Type



3 INPUT Jack

Used to connect the input signal to the amplifier. Connect the jack to the PRE OUT jack on the preamplifier, etc. BI, BB type XLR (balanced) input wiring: 1: GND, 2: HOT, and 3: COLD

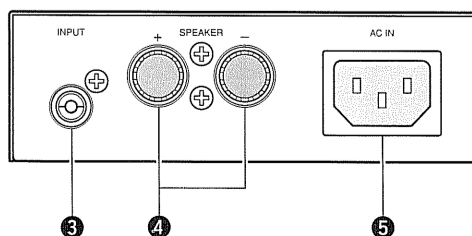
● BB Type



4 SPEAKER Connector

Used to connect the amplifier to the speaker. Connect this jack to the jack on the speaker with the cable. Make sure that the speaker's impedance is 4ohms or more. 1+1/2+ and 1-1/2- pins are wired in parallel in the Speakon output jack used on the BI type. The Binding Post type terminals are used for HT/BB type.

● HT Type

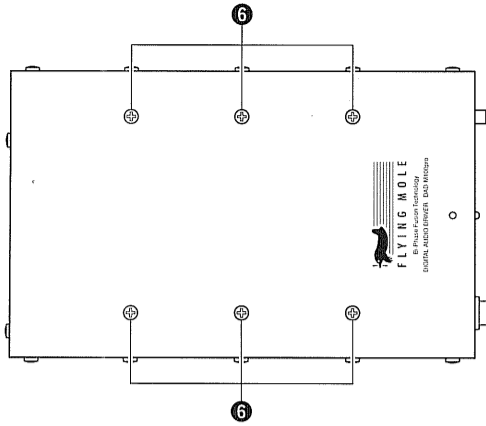


5 AC IN Jack

Used to connect the AC power cord to the amplifier. On HT and BI type, use the supplied AC power cord and connect this jack to an AC power outlet.

## ■ Enclosure

### ● Top



### 6 Optional Plate Attachment Screws

Use these screws to attach the optional (\*) mounting plate.

### 7 Enclosure Attachment Screws

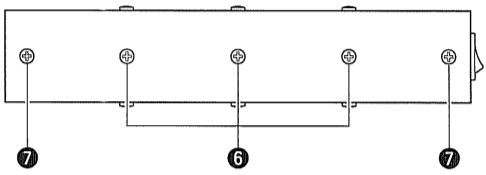
These screws are used to hold chassis together.



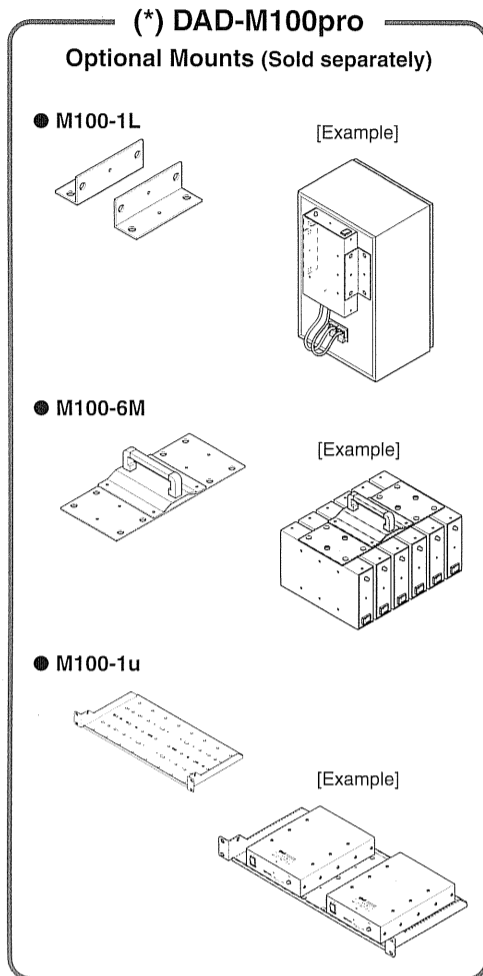
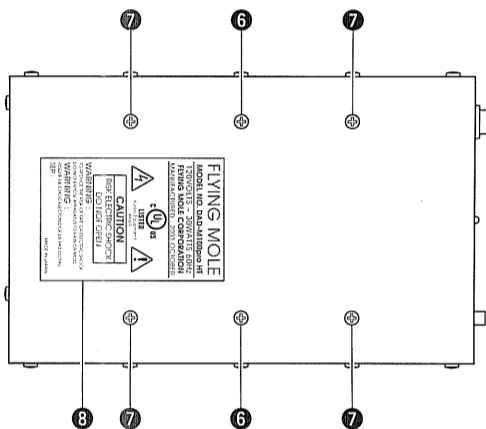
**Dismantling can cause fire or electric shock. Never remove these screws.**

### 8 Product Label

### ● Side (Left and right sides are the same)



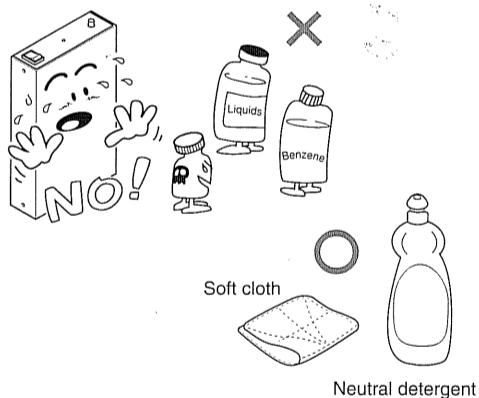
### ● Bottom



## 5 Maintenance

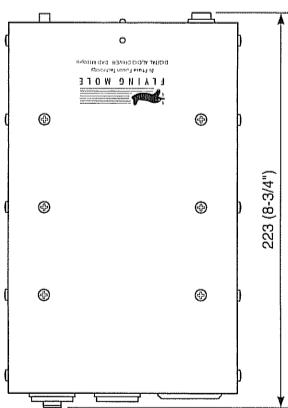
Never use liquids such as benzene, thinners, etc., chemically treated cloths, and do not spray any aerosol type insecticides on the amplifier. Clean the case using only a soft, dry cloth.

If the amplifier becomes soiled, mix a solution of water and a neutral detergent then dampen a soft cloth in the solution, wring out as much of the solution as possible, and clean the amplifier. Then use a soft, dry cloth to wipe the surface dry.

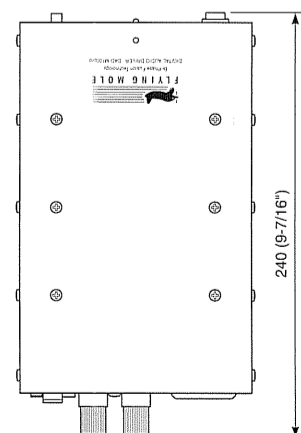


## 6 Dimensions

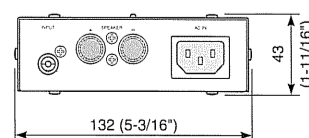
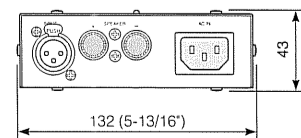
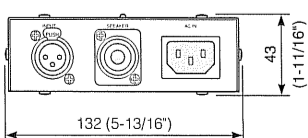
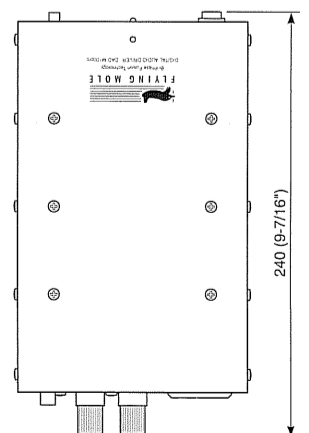
### ● BI Type



### ● BB Type



### ● HT Type

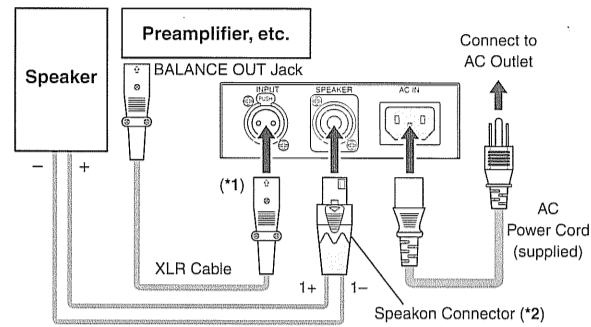


Unit: mm (Inch)

## 4 Connections

- Make sure the power on all related equipments is switched off and check the polarity, etc., when making connections.
- When connecting the speaker cable, make sure that the cable is not shorted.
- Only connect the power cord after all connections are complete.
- Jack names different than those used in this manual may appear on the equipments being connected to the DAD-M100pro. Please refer to the Owner's Manual that came with the equipments being connected to the DAD-M100pro.

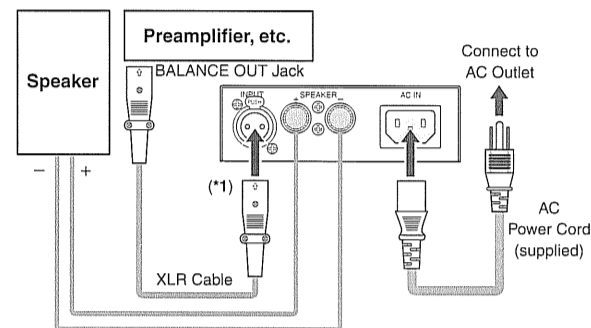
### ● BI Type



\*1 BI, BB Type XLR (balanced) input wiring :  
1: GND, 2: HOT, and 3: COLD.

Recommended connector :  
Neutrik NC3MX or similar

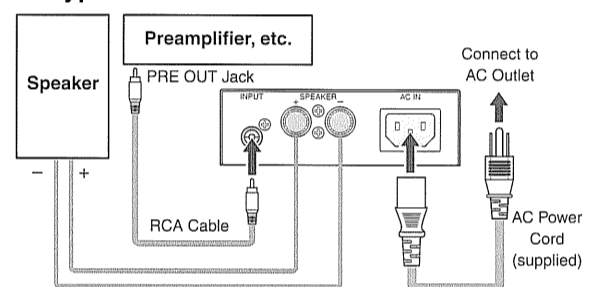
### ● BB Type



\*2 1+ / 2+ and 1- / 2- pins are wired in parallel in the Speakon output jack used on the BI type.

Recommended connector :  
Neutrik NL4FX or similar

### ● HT Type



## 7 Specifications

	BI Type	BB Type	HT Type
Rated Output	100W (8Ω)	160W (4Ω)	
Frequency Response	5Hz~50kHz (8Ω / +0, -3dB)	5Hz~25kHz (4Ω / +0, -3dB)	
Total Harmonic Distortion	0.03% (8Ω / 1kHz, 50W)	0.05% (4Ω / 1kHz, 50W)	
S/N Ratio	120dB (400Hz~30kHz BPF)		
Residual Noise	25μV (400Hz~30kHz BPF)		
Input Sensitivity	2Vrms		1Vrms
Input Impedance	47kΩ		10kΩ (VR max)
Input Jack	XLR (Balanced)		RCA (Unbalanced)
SP Output Terminal	Speakon	Binding Post Type	
AC Power Connector	IEC Type for removable cable		
Volume Control Range	0 ~ -30dB		
Power Consumption	22W / 8Ω	32W / 4Ω	20W / 8Ω 30W / 4Ω
Stand-by Power	8W (no signal input)		6W (no signal input)
Power Supply	AC120V 60Hz (U.S.A. & Canadian models) / AC230V 50Hz (European model) Other areas : mentioned on the sheet attached on the bottom cover.		
Temperature Range	0°C ~ 40°C		32°F ~ 104°F
Safety Standards	UL 6500 / CSA E60065 Standard, CE		
Overall Size (main chassis)	5-3/16"(W) x 8-3/4"(D) x 1-11/16"(H)	5-3/16"(W) x 9-7/16"(D) x 1-11/16"(H)	
inch / mm	132(W) x 223(D) x 43(H)		132(W) x 240(D) x 43(H)
Weight	About 1.43 lb (650g)		

\* Due to product improvement, specifications and/or product design are subject to change without notice.

## 8 Warranty

Warranty period is for one year. In case defects occur during this period not due to mishandling or modification, please send the product together with proof of purchase to the dealer where you had purchased or to the following address if it is shown.



### Music Etiquette

Listening to music is an enjoyable experience but depending upon the time and place, it can be an annoyance to some. Please respect your neighbors. On quiet nights, even music listened to at low volume levels can be heard by others, particularly low frequencies which transmit easily through floors, walls, etc., can end up bothering others. Please keep the volume at a suitable level and closing windows might be a good idea. If music is to bring pleasure to all, we should think of how it may affect others.

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