



SOUNDMASK®

OPERATING MANUAL
DIGITAL AMPLIFIER



MODEL **SM-DA-8000**

IMPORTANT SAFETY INSTRUCTIONS

1. READ THESE INSTRUCTIONS. All the safety and operating instructions should be read before the product is operated.

2. KEEP THESE INSTRUCTIONS. The safety and operating instructions should be retained for future reference.

3. HEED ALL WARNINGS. All warnings on the product and in the operating instructions should be adhered to.

4. FOLLOW ALL INSTRUCTIONS. All operating and use of instructions should be followed.

5. DO NOT USE THIS APPARATUS NEAR WATER. Do not use the product near water. For example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

6. CLEAN ONLY WITH DRY CLOTH. Unplug the unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a dry cloth for cleaning.

7. DO NOT BLOCK ANY VENTILATION OPENINGS. Slots and openings in the cabinet back or bottom are provided for ventilation, to ensure reliable operation of the unit and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or similar surface. This product should never be placed near or over a radiator or heat source. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

8. DO NOT INSTALL NEAR ANY HEAT SOURCES. This product should be situated away from heat sources such as radiators, stoves, or other products (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 is 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 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 TO AVOID INJURY FROM TIP-OVER. Do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious injury to someone, and serious damage to the appliance. A unit and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

13. UNPLUG THIS APPARATUS DURING LIGHTNING STORMS OR WHEN UNUSED FOR LONG PERIODS OF TIME. For added protection for this unit during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the unit due to lightning and power line surges.

14. REFER ALL SERVICING TO QUALIFIED SERVICE PERSONNEL. SERVICING IS REQUIRED WHEN THE APPARATUS HAS BEEN DAMAGED IN ANYWAY, SUCH AS WHEN THE 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.

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

16. APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING AND NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

GENERAL DESCRIPTION

The SM-DA-8000 is an 8 channel digital amplifier, single rack, with an output of 50 watts RMS per channel @ 8 ohms. It features individual channel level control on the front panel, XLR inputs (received from the SM-DX-4800) for each channel and stereo banana jack outputs.

Being digital, this unit is extremely efficient and delivers uncoloured signal direct to the transducer.

SPECIFICATIONS

Model	SM-DA-8000
Amplifier (per channel)	<ul style="list-style-type: none">› PWM oscillator is up to 1.0M› 50W x 2 RMS into 6W with Vcc 24V› 50W x 2 RMS into 8W with Vcc 28V› 24-28V Vcc Supply Voltage Operation› Full Bridge (BTL) output Amplifier› Integrated Short Circuit Protection› Integrated Thermal shutdown› Start Up De-pop Circuit› Efficiency up to 90%› Frequency response 20Hz-20kHz› UL/CSA/CE Mark compliance
Power	Power in 110 – 240V AC 50/60Hz
Dimensions & Weight	483 x 155 x 45 mm, 2.5 Kg
Compliance	
Safety information	Mount unit in locations that provide unobstructed air movement to minimise the risk of overheating.

USER INTERFACE



FRONT PANEL

1. **Front Plate** - Flip up / down cover panel.
2. **Channels** - 8 individual Level Controllers.

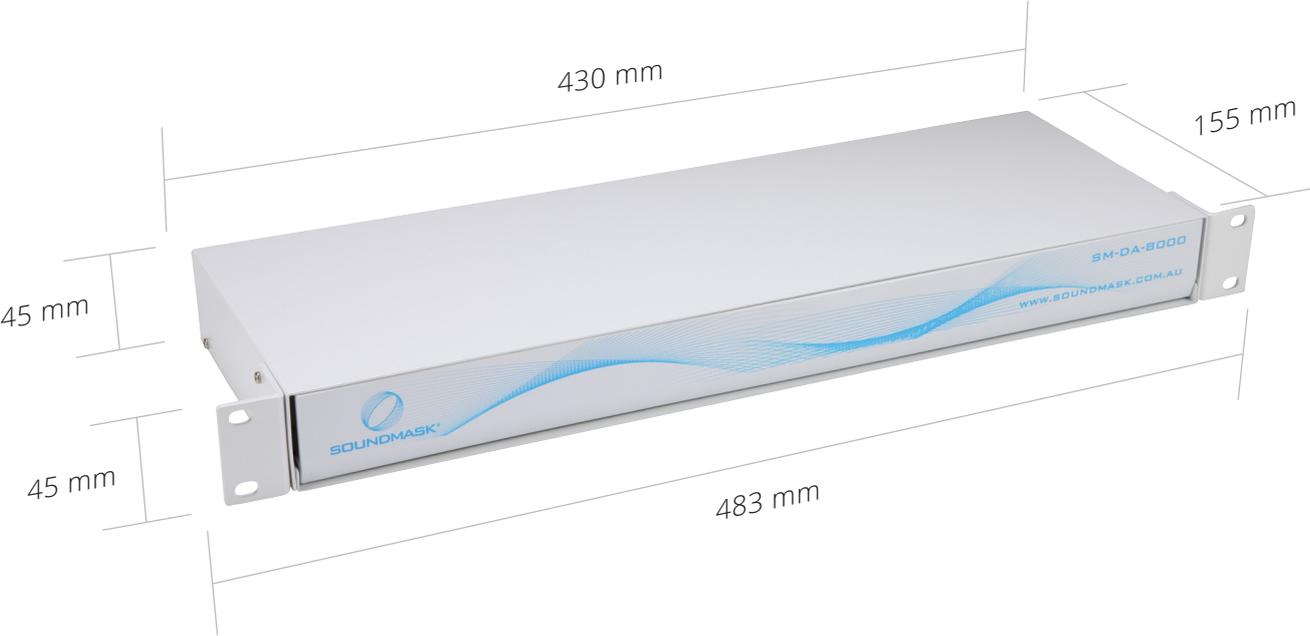
REAR PANEL

1. **Main Power** - Connects via external power supply. A compatible power cord is supplied with the unit. The voltage input is 100-240VAC, 50-60Hz.
2. **XLR Inputs** - Separate 3-pin XLR connectors are provided for each audio input from the SM-DX-4800 Digital Distributor. All I/O connectors have pin 1 as ground (shield), pin 2 as + and pin 3 as - .
3. **Banana Jacks** - Outputs to Soundmask's transducers, up to 100 transducers for each pair of jacks.

POWER SUPPLY

External power supply with standard IEC socket and compatible plug for your country (not pictured).

DIMENSIONAL DIAGRAM



EXAMPLE LAYOUT

RANDOM DIGITAL NOISE GENERATOR [SM-GR-3100](#)



DIGITAL DISTRIBUTOR [SM-DX-4800](#)



DIGITAL AMPLIFIER [SM-DA-8000](#)



UNDER FLOOR TRANSDUCER [SM-T-2200](#)



- NOTES**
- › Each [SM-T-2200](#) pictured represents 100 transducers.
 - › The [SM-DA-8000](#) is capable of servicing up to 800 transducers.
 - › Diagram not to scale.

TROUBLESHOOTING

If the unit is running slowly or “freezes up”, reset the unit by turning it off using the power switch. Leave the unit to reset for 15 minutes before turning the power switch on again.

For any further problems, contact us via the detail below.

CONTACT

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NOTES



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