

## PROEL S12A

# PROEL S12A Professional Amplified Subwoofer

## User Manual

### 1. INTRODUCTION

Thank you for choosing the PROEL S12A Professional Amplified Subwoofer. This active hybrid subwoofer is designed to deliver powerful and clear low-frequency sound reinforcement for various professional audio applications. Featuring an integrated Class D digital power amplifier and a 12-inch speaker, the S12A offers robust performance and versatile connectivity options.

To ensure optimal performance and longevity of your unit, please read this manual thoroughly before operation and retain it for future reference.

### 2. SAFETY INFORMATION

Please observe the following safety precautions to prevent electric shock, fire, or damage to the unit:

- **Power Source:** Connect the unit only to a power supply of the type described in this manual or marked on the unit.
- **Grounding:** Ensure the unit is properly grounded to prevent electric shock.
- **Ventilation:** Do not block ventilation openings. Ensure adequate airflow around the unit to prevent overheating.
- **Water and Moisture:** Do not expose the unit to rain or moisture. Do not place objects filled with liquids, such as vases, on the unit.
- **Heat Sources:** Keep the unit away from heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Cleaning:** Clean only with a dry cloth. Do not use liquid cleaners or aerosol cleaners.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.
- **Placement:** Place the subwoofer on a stable, level surface. When using a pole mount, ensure the stand is stable and capable of supporting the subwoofer's weight (19 kg).

### 3. PRODUCT OVERVIEW

The PROEL S12A is a high-performance active subwoofer designed for professional sound reinforcement. Below are key components and features:



**Figure 3.1:** Front view of the PROEL S12A Subwoofer, showcasing the protective metal grille and the 12-inch speaker cone visible behind it. The PROEL logo is centered on the grille.



**Figure 3.2:** Side view of the PROEL S12A Subwoofer, highlighting the integrated recessed handle for easy transport and positioning.



**Figure 3.3:** Rear panel of the PROEL S12A Subwoofer, detailing the input/output connections, control knobs, and power inlet. This panel houses all the operational controls and audio interfaces.

### Key Features:

- **Integrated Class D Amplifier:** Efficient and powerful amplification.
- **12-inch Woofer:** Delivers deep and impactful bass frequencies.
- **Connectivity:** Two Combo XLR/Jack inputs, two XLR Link outputs, and two XLR Line outputs.
- **Adjustable Crossover:** Switchable high-pass filter at 100 Hz or 160 Hz.
- **Phase Switch:** 180° phase reversal for optimal acoustic alignment.
- **Pole Mount:** Standard 36mm pole mount socket for satellite speaker integration.

## 4. SETUP

Follow these steps to set up your PROEL S12A Subwoofer:

1. **Placement:** Position the subwoofer on a stable, flat surface. For optimal bass response, consider placing it near a wall or in a corner, but avoid direct corners if bass becomes boomy.
2. **Power Connection:** Ensure the subwoofer's power switch is in the "OFF" position. Connect the supplied power cable to the AC inlet on the rear panel and then to a grounded electrical outlet.
3. **Audio Input:** Connect your audio source (e.g., mixer, audio interface) to the "INPUT" Combo XLR/Jack connectors on the rear panel. Use high-quality balanced XLR or 1/4-inch TRS cables for best results.
4. **Audio Output (Optional):**
  - **Link Out:** Use the "LINK OUT" XLR connectors to daisy-chain the audio signal to another S12A subwoofer or another full-range speaker.
  - **Line Out:** Use the "LINE OUT" XLR connectors to send the processed signal (with high-pass filter applied if active) to satellite full-range speakers.
5. **Pole Mount (Optional):** If using the subwoofer with a satellite speaker, insert a standard 36mm speaker pole into the top-mounted socket on the S12A. Ensure the pole is securely seated and the satellite speaker is properly mounted.

## 5. OPERATING INSTRUCTIONS

Once the subwoofer is set up, follow these steps for operation:

1. **Power On:** Turn on your audio source (mixer, etc.) first, then switch the power button on the PROEL S12A to the "ON" position.
2. **Volume Control:** Start with the "LEVEL" knob on the subwoofer set to its minimum position. Gradually increase the level to achieve the desired bass output.
3. **Crossover Frequency:** The S12A features a switchable high-pass filter. Select between **100 Hz** or **160 Hz** depending on your system's requirements and the frequency response of your full-range speakers.
  - **100 Hz:** Suitable for most general applications, providing a smooth transition to full-range speakers.
  - **160 Hz:** May be used with smaller full-range speakers that require more low-frequency support.
4. **Phase Alignment:** Use the "PHASE" switch to select between **0°** and **180°**. This control helps align the phase of the subwoofer with your main speakers. Listen to the system with both settings and choose the one that provides the most coherent and impactful bass response. Often, the correct phase results in a fuller, more defined low end.
5. **System Balance:** Adjust the subwoofer's level in conjunction with your main speakers to achieve a balanced sound. The subwoofer should augment the low end without overpowering the rest of the audio spectrum.
6. **Power Off:** Before disconnecting power, turn the subwoofer's level down, then switch the power button to "OFF". Finally, turn off your audio source.

## 6. MAINTENANCE

Proper maintenance ensures the longevity and performance of your PROEL S12A Subwoofer:

- **Cleaning:** Regularly wipe the exterior of the subwoofer with a soft, dry, lint-free cloth. Do not use abrasive cleaners, waxes, or solvents.
- **Ventilation:** Ensure that all ventilation openings are clear of dust and debris. Periodically check and clean the grille if necessary to maintain proper airflow.
- **Storage:** If storing the unit for an extended period, keep it in a cool, dry place, away from direct sunlight and

extreme temperatures. It is recommended to use the original packaging for protection.

- **Cable Inspection:** Periodically inspect all audio and power cables for any signs of wear, cuts, or damage. Replace damaged cables immediately.
- **Professional Servicing:** For any internal issues or repairs, contact qualified service personnel. Do not attempt to open the unit or perform repairs yourself.

## 7. TROUBLESHOOTING

If you encounter issues with your PROEL S12A Subwoofer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound from subwoofer	Power not connected or unit off. Input cable faulty or disconnected. Input source not sending signal. Subwoofer level set too low.	Check power cable and switch. Verify input cable connection and integrity. Check audio source output. Increase the "LEVEL" knob.
Distorted or unclear bass	Input signal too high (clipping). Subwoofer level too high. Incorrect phase setting.	Reduce input signal level from source. Decrease the "LEVEL" knob. Toggle the "PHASE" switch and listen for improvement.
Humming or buzzing noise	Ground loop issue. Faulty cables. Interference from other electronics.	Ensure all equipment is on the same electrical circuit or use a ground loop isolator. Try different cables. Move the subwoofer away from other electronic devices.

## 8. SPECIFICATIONS

Feature	Detail
Model Name	S12A
Speaker Type	Active Hybrid Subwoofer
Woofers Size	12 inches
Amplifier Type	Class D Digital
Peak Power Output	1200 Watts
RMS Power Output	600 Watts
Frequency Response	43 Hz – 160 Hz
Maximum SPL	127 dB
Crossover Frequency	Switchable: 100 Hz / 160 Hz



Phase Switch	0° / 180°
Inputs	2 x Combo XLR/Jack
Outputs	2 x XLR Link Out, 2 x XLR Line Out
Pole Mount Socket	36 mm
Dimensions (W x H x D)	360 x 500 x 520 mm (14.17 x 19.69 x 20.47 inches)
Weight	19 kg (41.89 lbs)

## 9. WARRANTY AND SUPPORT

The PROEL S12A Subwoofer comes with a**Limited Warranty**. For specific details regarding warranty coverage, terms, and conditions, please refer to the warranty card included with your product or contact PROEL customer support.


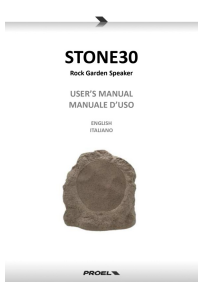
For technical support, service, or spare parts, please contact your authorized PROEL dealer or visit the official PROEL website. Do not attempt to repair the unit yourself, as this may void your warranty.


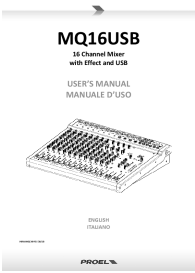


**Return Policy:** If you wish to return a product within 30 days of receipt because you have changed your mind, please consult the retailer's return policy. If you have received a defective or damaged product, please consult the retailer's help page on returns and refunds. For specific information on purchases made through a marketplace, consult their respective help pages.

**Manufacturer:** Proel S.P.A.

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For more information, visit [www.proel.com](http://www.proel.com)

### Related Documents - S12A

	<p><a href="#">PROEL MQ10FX Compact 10-Channel Mixer with FX - Technical Specifications and Overview</a></p> <p>Detailed overview and technical specifications for the PROEL MQ10FX, a compact 10-channel audio mixer with built-in digital effects. Features include EQ, compressors, and robust construction for professional audio applications.</p>
	<p><a href="#">Proel STONE30 Rock Garden Speaker User Manual</a></p> <p>User manual for the Proel STONE30 Rock Garden Speaker, detailing technical specifications, safety instructions, and installation guidelines.</p>

	<p><a href="#">PROEL MQ6FX 6 Channel Mixer with Effect User Manual</a></p> <p>Comprehensive user manual for the PROEL MQ6FX 6-channel audio mixer, detailing its features, controls, connections, technical specifications, and safety guidelines. Includes instructions for operation and maintenance.</p>
	<p><a href="#">PROEL MQ16USB 16-Channel Mixer with Effects and USB - User Manual</a></p> <p>Comprehensive user manual for the PROEL MQ16USB, a 16-channel audio mixer featuring built-in effects and USB connectivity. This guide details all controls, connections, specifications, and operational instructions.</p>
	<p><a href="#">PROEL MQ1222X 12-Channel Mixer User Manual: Features, Operation, and Specifications</a></p> <p>Comprehensive user manual for the PROEL MQ1222X 12-Channel Mixer. Learn about its features, including 99 effects, Bluetooth/USB connectivity, microphone preamps, EQ, and detailed operational instructions.</p>
	<p><a href="#">PROEL PLAYMIX Series Mixing Consoles User Manual</a></p> <p>Comprehensive user manual for the PROEL PLAYMIX series of mixing consoles (PLAYMIX 6, PLAYMIX 8, PLAYMIX 10), covering features, operation, safety, specifications, and troubleshooting.</p>