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RCF HDL20-A

RCF HDL 20-A Active Line Array Module User Manual

Model: HDL20-A

1. Introduction

The RCF HDL 20-A is a professional-grade active line array module designed for optimal acoustic performance in both permanent installations and live sound environments. It features dual 10-inch woofers and a 3-inch compression driver, powered by a 1,400W digital amplifier, delivering a broad, full-range response with a maximum SPL of 135dB. Its DSP-controlled input section offers various selectable presets for environmental optimization.

2. Safety Information

Please read and understand all safety instructions before operating the RCF HDL 20-A. Failure to do so may result in injury or damage to the equipment.

- **Power Supply:** Ensure the unit is connected to a power source with the correct voltage and frequency as specified on the product label. Use only the provided power cable or an approved replacement.
- **Ventilation:** Do not block ventilation openings. Ensure adequate airflow around the unit to prevent overheating.
- **Moisture:** This product is not waterproof. Do not expose the unit to rain, moisture, or excessive humidity.
- **Mounting:** When suspending or mounting the unit, ensure all rigging hardware and structures are rated for the weight of the module and comply with local safety regulations. Consult a qualified professional for installation.
- **Servicing:** Do not attempt to service this unit yourself. Refer all servicing to qualified service personnel.
- **Hearing Protection:** This device can produce high sound pressure levels. Prolonged exposure to high SPLs can cause permanent hearing damage. Use appropriate hearing protection.

3. Features

The RCF HDL 20-A boasts a range of features designed for high-performance audio applications:

- 1,400W 2x10" Active Line Array Module with 3" Compression Driver
- Wood-reinforced Composite Enclosure
- DSP-controlled Input Section with selectable presets (cluster, HF high curving, indoor mode)
- Maximum SPL of 135dB
- Designed for pairing with HDL 18-AS subwoofer for extended bass response

4. Setup

Proper setup is crucial for optimal performance and safety of your RCF HDL 20-A line array module.

4.1 Unpacking and Inspection

Carefully remove the unit from its packaging. Inspect for any signs of damage during transit. If damage is found, contact your dealer immediately.

4.2 Physical Placement and Rigging

The HDL 20-A is designed for line array configurations. Ensure the chosen location and rigging points can safely support the weight of the module(s) and any associated hardware. Refer to the rigging manual (if provided separately) for detailed instructions on array configuration and suspension.



Figure 1: Front view of the RCF HDL 20-A Active Line Array Module. This image displays the robust speaker grille and the prominent RCF brand logo, indicating the primary sound output area.



Figure 2: Side view of the RCF HDL 20-A Active Line Array Module with key dimensions. The image shows the module's width (31.59 inches), height (15.21 inches), and depth (21.45 inches), providing essential information for installation planning.

4.3 Electrical Connections

- **Power Connection:** Connect the supplied power cable to the AC input on the rear panel of the module and then to a suitable power outlet.

- **Audio Input:** Use a balanced XLR cable to connect your audio source (mixer, processor, etc.) to the XLR input on the module.
- **Audio Output (Link):** If linking multiple HDL 20-A modules, use an XLR cable to connect the XLR output of one module to the input of the next.

5. Operating

Once the RCF HDL 20-A is properly set up, follow these steps for operation:

1. **Power On:** Ensure all connections are secure, then switch on the power to the module. The power indicator light should illuminate.
2. **DSP Presets:** Utilize the DSP-controlled input section to select appropriate presets for your environment and application. Options may include settings for cluster size, high-frequency curving, and indoor/outdoor modes. Refer to the control panel on the rear of the unit for specific controls.
3. **Gain Adjustment:** Adjust the input gain control to achieve the desired signal level without clipping. Monitor the signal indicators to prevent distortion.
4. **System Integration:** If using with an RCF HDL 18-AS subwoofer, ensure proper crossover settings and phase alignment between the modules for a cohesive sound system.
5. **Power Off:** Before disconnecting power, always turn off the module.

6. Maintenance

Regular maintenance helps ensure the longevity and optimal performance of your RCF HDL 20-A.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically inspect all cables and connectors for wear or damage. Ensure all mounting hardware is secure.
- **Storage:** When not in use, store the module in a dry, temperature-controlled environment, ideally in its original packaging or a protective case.

7. Troubleshooting

This section provides solutions to common issues you might encounter with your HDL 20-A.

Problem	Possible Cause	Solution
No Sound Output	No power to unit Input cable disconnected or faulty Gain set too low Source device not sending signal	Check power connection and outlet. Verify input cable connection and integrity. Increase gain control. Check audio source and its output.
Distorted Sound	Input signal too high (clipping) Faulty cable Incorrect DSP preset	Reduce input gain from source or module. Replace audio cable. Select a more appropriate DSP preset.
Unit Overheating	Blocked ventilation Operating in extreme temperatures	Ensure clear airflow around the unit. Move unit to a cooler environment.

8. Specifications

Detailed technical specifications for the RCF HDL 20-A Active Line Array Module:

- **Model Name:** HDL 20A
- **Speaker Type:** Outdoor, Woofer
- **Recommended Uses:** Compression
- **Compatible Devices:** Desktop, Laptop, Projector, Television
- **Woofer Diameter:** 10 Inches (Dual)
- **Compression Driver:** 3 Inches
- **Controller Type:** Touchpad (for DSP)
- **Color:** Black
- **Product Dimensions (DxWxH):** 15.35"D x 31.89"W x 21.65"H
- **Item Weight:** 21 Pounds
- **Water Resistance Level:** Not Water Resistant
- **Control Method:** Voice (likely refers to DSP control, not literal voice command)
- **Power Source:** Corded Electric
- **Connectivity Protocol:** XLR
- **Manufacturer:** RCF
- **Speaker Amplification Type:** Active
- **Wattage:** 1400 watts (Peak Power)
- **Speaker Maximum Output Power:** 1400 Watts
- **Audio Output Mode:** Stereo
- **Mounting Type:** Inside Mount (likely refers to internal components or specific rigging points)

9. Warranty Information

The RCF HDL 20-A comes with a **Limited Warranty**. For specific terms, conditions, and duration of the warranty, please refer to the warranty card included with your product or visit the official RCF website. Keep your proof of purchase for warranty claims.

10. Customer Support

For technical assistance, service, or spare parts, please contact RCF customer support. You can find contact information on the official RCF website or through your authorized dealer.
Online Resources: Visit the RCF website for product documentation, FAQs, and software updates.
Authorized Service Centers: For repairs, always use authorized service centers to ensure genuine parts and qualified technicians.

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