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Heinrich DVA8-500

Heinrich DVA8-500 Digital Voice Evacuation Controller User Manual

Model: DVA8-500

EN54 Approved Evacuation, Paging, PA, and Background Music System

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the Heinrich DVA8-500 Digital Voice Evacuation Controller. The DVA8-500 is a comprehensive system designed for safety and communication, integrating evacuation, paging, public address (PA), and background music (BGM) functionalities. It complies with BS EN54-32 & EN60849 standards and holds EN54 approval, ensuring adherence to rigorous safety protocols.

2. Product Overview and Key Features

The DVA8-500 controller is equipped with advanced features to manage emergency communications and daily audio needs efficiently.



Figure 1: Front Panel of the DVA8-500 Controller

- **Flexible Zone Control:** 8-zone speaker output with individual volume control.
- **EN54-Approved:** Meets stringent European safety standards for voice alarm systems.
- **All-in-One Solution:** Combines EVAC, paging, PA, and BGM systems.
- **Powerful Amplification:** Built-in 500W 8-zone Class-D amplifier.
- **Reliable Operation:** Automatic switching to battery backup during power failures.
- **Network Capability:** Supports IP network integration for remote monitoring and control.
- **User-Friendly Interface:** Intuitive controls for easy operation.
- **Scalable Design:** Expandable to 160 zones with additional routers.
- **Prioritized Communication:** Fireman microphone with highest priority for emergency messages.
- **Robust Construction:** Durable metal enclosure for long-term use.

3. What's in the Box

Upon unpacking, please verify that all items listed below are present and undamaged:

- DVA8-500 Controller Unit
- Microphone

If any items are missing or damaged, please contact your supplier immediately.

4. Setup and Installation

The DVA8-500 is designed for 8U rack mounting. Proper installation is crucial for optimal performance and safety.

4.1 Rack Mounting

Mount the DVA8-500 controller securely into a standard 8U equipment rack. Ensure adequate ventilation around the unit to prevent overheating.

4.2 Power Connection

Connect the unit to a stable AC power source. The system also supports DC battery input for backup power, ensuring continuous operation during power failures. Ensure correct polarity when connecting DC power.

4.3 Speaker Connections

Connect loudspeakers to the 8-zone speaker outputs. The system features built-in low impedance supervision for 8 zone A/B speaker lines. Refer to the rear panel diagram for correct wiring.

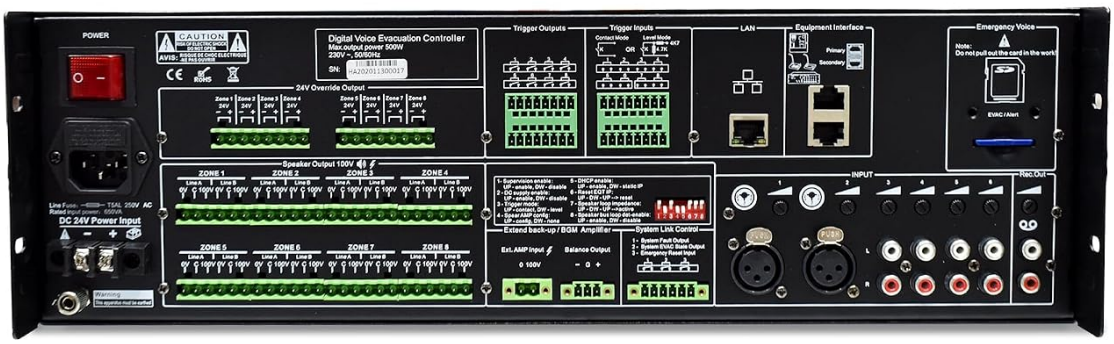


Figure 2: Rear Panel Connections

4.4 Input/Output Connections

Connect external devices such as fire alarm systems, MP3 players, and additional paging microphones to the appropriate input ports (AUX, Ethernet, HDMI, USB, XLR). The system provides 8 programmable control inputs and outputs for integration with third-party systems.

4.5 Network Configuration

For network integration and remote control, connect the unit via its RJ45 Ethernet ports. The system supports network redundancy for enhanced reliability. Configure network settings as per your system requirements.

5. Operating Instructions

The DVA8-500 offers various operational modes for emergency evacuation, paging, and background music.

5.1 Front Panel Controls



Figure 3: Detailed Front Panel Controls

The front panel includes controls for BGM (Background Music), zone selection, and emergency functions. Indicators show power status, fault conditions, and active zones.

5.2 Emergency Evacuation (EVAC)

1. **Initiating EVAC:** In an emergency, activate the EVAC function. The system will broadcast pre-recorded evacuation messages stored on the SD card.
2. **Fireman Microphone:** The dedicated fireman microphone has the highest priority. Use it to deliver live emergency announcements, overriding all other audio sources.
3. **Alert Messages:** The system can also broadcast alert messages via a separate player.

5.3 Paging System

Use the connected paging microphone to make announcements to selected zones or all zones. Priority levels ensure that paging announcements override background music.

5.4 Background Music (BGM)

The system supports background music playback. Select desired zones for BGM distribution. BGM will be automatically muted or lowered during paging or emergency announcements.

5.5 Zone Control

Individual zone buttons and indicators on the front panel allow for selection and monitoring of each of the 8 zones. Volume can be adjusted per zone.

5.6 System Expansion

The DVA8-500 can be expanded to control up to 160 zones by cascading additional routers. Refer to the expansion module manual for detailed setup.

6. Maintenance

Regular maintenance ensures the longevity and reliable operation of your DVA8-500 system.

- **Cleaning:** Periodically clean the exterior of the unit with a soft, dry cloth. Do not use liquid cleaners or solvents.
- **Ventilation:** Ensure that ventilation openings are clear of dust and obstructions to prevent overheating.
- **Cable Connections:** Regularly check all cable connections for secure fit and signs of wear.
- **Battery Backup:** If using DC battery backup, ensure batteries are in good condition and regularly tested as per manufacturer guidelines.
- **Firmware Updates:** Check the Heinrich website for any available firmware updates to ensure optimal performance and security.

7. Troubleshooting

This section addresses common issues you might encounter with the DVA8-500 controller.

Problem	Possible Cause	Solution
No power indicator light	Power cable disconnected; no AC power; DC battery depleted.	Check power cable connection; verify AC power supply; check DC battery status.
No audio output from speakers	Speaker cables disconnected; zone not selected; volume too low; amplifier fault.	Check speaker connections; ensure correct zone is active; increase volume; check fault indicators.
Paging microphone not working	Microphone not connected; microphone fault; incorrect priority settings.	Ensure microphone is securely connected; test with another microphone if possible; verify priority settings.
EVAC message not playing	SD card issue; EVAC function not activated; message file corrupted.	Check SD card; ensure EVAC is activated; re-upload message files if necessary.

If the problem persists after attempting these solutions, please contact Heinrich customer support.

8. Technical Specifications

Feature	Specification
Brand	Heinrich
Model Number	DVA8-500
Item Dimensions (L x W x H)	48.5 x 40.8 x 13.3 Centimeters
Mounting Type	8U Rack Mount
Enclosure Material	Metal
Power Source	AC Power, DC Battery Input
Output Wattage	500 Watts
Number of Channels	8 (Zones)
Frequency Response	20 KHz
Audible Noise	14.5 Decibels
Impedance	10 Ohms (Speaker Line Supervision)
Connectivity Technology	AUX, Ethernet, HDMI, USB
Connector Type	XLR (Microphone)
Audio Input	Microphone, Fireman Microphone
Compatible Devices	Fire alarm system, Loudspeakers, MP3 Player, Paging Microphone
Item Weight	21 Kilograms
Certifications	EN54 Approved, BS EN54-32 & EN60849 standards

9. Warranty and Support

9.1 Warranty Information

The Heinrich DVA8-500 Digital Voice Evacuation Controller comes with a**1 Year Warranty** from the date of purchase.

9.2 Customer Support

For technical assistance, warranty claims, or any other inquiries, please contact Heinrich customer support:

- **Company:** Heinrich Corporation India Pvt Ltd.
- **Address:** A62 DDA Sheds Okhla Industrial Area Phase 2, Delhi-110020
- **Contact Number:** 1800 419 1117
- **Email:** Info@heinrichlimited.com

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