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Heivision HE-24V40VA

Heivision HE-24V40VA 24V 40VA AC Transformer User Manual

Model: HE-24V40VA

1. Introduction

This manual provides essential information for the safe and efficient use of your Heivision HE-24V40VA 24V 40VA AC Transformer. This Class 2 power unit is designed to convert standard household AC voltage (110V/120V) to a stable 24V AC output, suitable for various low-voltage applications such as smart thermostats, video doorbells, irrigation systems, and garage door openers. Please read this manual thoroughly before installation and operation.

2. Safety Information

- **UL Listed:** This transformer is UL Listed, ensuring it meets recognized safety standards.
- **Electrical Hazard:** Always disconnect power at the circuit breaker before installing, servicing, or removing the transformer to prevent electric shock.
- **Indoor Use Only:** This device is intended for indoor use in dry locations. Do not expose to moisture or extreme temperatures.
- **Proper Installation:** Ensure all wiring connections are secure and comply with local electrical codes. If you are unsure about any part of the installation, consult a qualified electrician.
- **Overload Protection:** Do not exceed the specified output capacity (24V AC, 1660mA, 40VA) to avoid damage to the transformer or connected devices.

3. Product Overview

The Heivision HE-24V40VA transformer is a compact, wall-mountable unit designed for reliable power delivery. It features a standard two-prong plug for input and screw terminals for output connections.



Image 1: Heivision 24V 40VA AC Transformer. The label clearly indicates the model, input (AC 120V 60Hz), and output (AC 24V 1660mA, 40VA), along with UL listing and manufacturing details.

Key Features:

- **Input:** 110V/120V AC, 60Hz, 60VA
- **Output:** 24V AC, 1660mA, 40VA
- **UL Listed:** Certified for safety.
- **Wall-Mount Design:** Conveniently plugs into a standard wall outlet.
- **Screw Terminals:** Easy and secure wire connections for AC and Ground (GND).
- **LED Indicator:** A green LED light on the side indicates when the unit is powered on and functioning correctly.

4. Setup

Follow these steps to properly set up your Heivision HE-24V40VA transformer:

1. **Power Disconnection:** Before beginning any wiring, ensure the power to the circuit you are working on is turned off at the main circuit breaker.
2. **Mounting:** Plug the transformer into a standard 110V/120V AC wall outlet. The unit can be secured to the wall using the integrated mounting tab and a screw (not included) for added stability.
3. **Wiring Connections:** Locate the three screw terminals on the bottom of the transformer, labeled 'AC', 'GND', and 'AC'. Connect the low-voltage wires from your device (e.g., doorbell, thermostat) to the 'AC' terminals. If your device requires a ground connection, use the 'GND' terminal. Ensure wires are stripped appropriately and securely fastened under the screws.
4. **Power Restoration:** Once all connections are secure, restore power at the circuit breaker. The green LED indicator on the side of the transformer should illuminate, confirming power is supplied.

Setup Demonstration Videos:

▶ **Watch video online**
24v 50va doorbell transformer

Video 1: This video demonstrates the connection of a 24V 50VA transformer to a doorbell system. While the transformer in the video is 50VA, the connection method for 24V AC low-voltage devices is similar to your 24V 40VA Heivision transformer.

▶ **Watch video online**
24V50VA Doorbell and Thermostat Transformer

Video 2: This video illustrates the wiring process for a 24V 50VA doorbell and thermostat transformer. The principles of connecting low-voltage wires to the screw terminals are applicable to your Heivision 24V 40VA transformer.

5. Operating

Once properly installed and powered, the Heivision HE-24V40VA transformer operates continuously, providing a stable 24V AC output to your connected low-voltage devices. The green LED indicator on the side of the unit confirms that the transformer is receiving input power and is actively supplying output voltage.

6. Maintenance

The Heivision HE-24V40VA transformer requires minimal maintenance. Regular checks can help ensure its longevity and optimal performance:

- **Visual Inspection:** Periodically inspect the transformer and its wiring for any signs of damage, wear, or loose connections.
- **Cleanliness:** Keep the transformer free from dust and debris. Use a dry, soft cloth for cleaning. Do not use liquid cleaners.
- **Secure Connections:** Ensure the screw terminals remain tight to maintain good electrical contact.
- **Power Disconnection:** Always disconnect power at the circuit breaker before performing any maintenance or adjustments.

7. Troubleshooting

If you encounter issues with your Heivision HE-24V40VA transformer, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
No power to connected device / LED indicator off	No input power; loose connections; faulty outlet.	Check circuit breaker. Ensure transformer is fully plugged in. Verify wiring connections are secure. Test the outlet with another device.
Connected device not functioning correctly / intermittent power	Insufficient power (VA); loose wiring; device malfunction.	Confirm the device's power requirements do not exceed 40VA. Tighten all wiring connections. Test the device with a known working power source if possible.
Transformer is hot to the touch / buzzing sound	Overloaded circuit; short circuit in wiring or device; internal fault.	Immediately disconnect power. Check for short circuits in wiring or the connected device. Ensure total VA load does not exceed 40VA. If the issue persists, discontinue use and replace the transformer.

8. Specifications

Specification	Detail
Model Number	HE-24V40VA

Specification	Detail
Input Voltage	110V/120V AC
Input Frequency	60Hz
Output Voltage	24V AC
Output Current	1660mA
Power Rating	40VA
Certification	UL Listed
Mounting Type	Wall Mount
Item Weight	1.9 pounds
Product Dimensions	5 x 4 x 4 inches

9. Warranty and Support

Specific warranty information for the Heivision HE-24V40VA transformer is not provided in the available product data. For details regarding warranty coverage, technical support, or replacement parts, please contact Heivision customer service directly or refer to the product packaging.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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