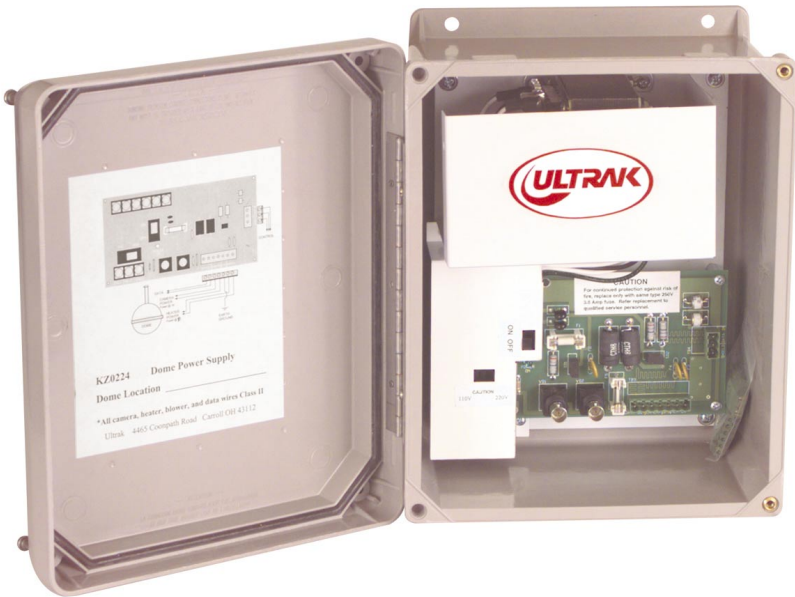


KZ0224UW

**SURGE PROTECTED
CCTV POWER SUPPLY
24V AC, 5 AMP**



INSTALLATION MANUAL

ULTRAK[®]
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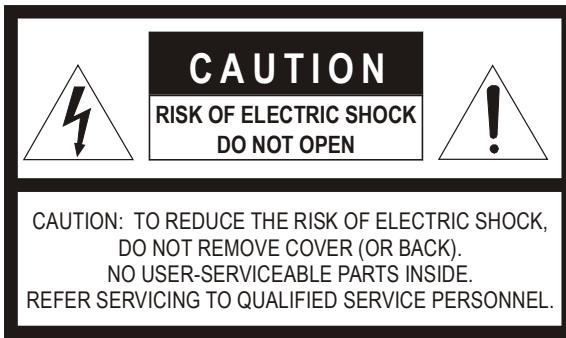
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WARNING

- TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.
- DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILLATION GRILLS.

CAUTION



EXPLANATION OF GRAPHICAL SYMBOLS



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instruction in the literature accompanying the product.

TABLE OF CONTENTS

SECTION 1: INTRODUCTION	1
SECTION 2: INSTALLATION.....	3
Power Output Connections.....	4
Surge Suppression Connections for Data Line	4
Surge protection for video	5
Power Connections	5
SECTION 3: SPECIFICATIONS.....	7
ULTRAK OFFICES WORLDWIDE.....	8

SECTION 1: INTRODUCTION

PRODUCT DESCRIPTION

The Ultrak KZ0224UW CCTV power supply is used to power a dome camera while providing surge suppression on power, video, and data lines.

FEATURES

Each power supply includes the following features:

- **Camera output fused at 1.1 Amps.
Heater/blower output fused at 4 Amps.
Master fuse rated 6.3 Amps.**
- **Field-programmable to accept a 110 or 220V AC input.**
- **Housed in a NEMA-4 enclosure** for outdoor installation and **interconnect label** for easy installation and servicing.
- **ON/OFF switch.**
- **LED indicator** for AC.

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SECTION 2: INSTALLATION

INSTALLATION

1. Remove the power supply from the carton and identify the following:
 - Power supply
 - Mounting Hardware

NOTE: A 120V or 220V ac power source is required but not provided with the unit.



IMPORTANT: Installation should be performed by a qualified person in conformance with all local codes.

2. Select a secure location to mount the KZ0224UW enclosure. Place the cabinet on the desired wall or other surface and mark the screw locations.
3. Place the cabinet on the desired wall and mark the screw locations. Set the cabinet aside and drill guide holes for the screws to be used.
4. Drill holes for the conduit entries in the box. A separate conduit entry is required for high voltage inputs and another conduit connection is required for 24V AC, video and data wiring. **DO NOT COMBINE HIGH VOLTAGE WIRING** with these low voltage lines in the same conduit.
5. Place the cabinet on the wall and secure with screws.

INSTALLATION, CONTINUED

6. DO NOT connect AC to the unit at this time. Camera/dome connections should be made first. Use the plug-in terminal strips supplied with the unit. When wiring is complete, these can be plugged into the corresponding pins on the board. Be careful to connect the correct terminals. The side of the terminal block where the wires are connected should face the outside of the printed circuit board.

Power Output Connections

7. Using 18 AWG stranded 2 conductor wire, connect one conductor to each of the 2 terminals marked CAMERA. Polarity is not important. Connect the other end of the conductors to the appropriate terminals at the camera.

Using 18 AWG stranded 2 conductor wire, connect one conductor to each of the 2 terminals marked HEATER. Connect the other end of the conductors to the appropriate terminals at the heater. This connection is not polarity sensitive, but it is recommended to connect camera and heater the same way to avoid potential polarity conflicts between the devices.

Surge Suppression Connections for Data Line

8. The KZ0224UW provides surge suppression for the control input cable.

Connect the 2 terminals marked DATA IN to the DATA OUT terminals at the controller. Connect the terminal marked SHIELD to the shield of the cable.

Connect the 2 terminals marked DATA OUT to the DATA inputs at the dome.

INSTALLATION, CONTINUED

Surge protection for video

9. The KZ0224UW provides two BNC connectors for surge suppression on the video co-ax cable. Connect one connector to the camera's video connector and the other to the video input at the controller/ multiplexer or other device at the head end of the system.

Power Connections

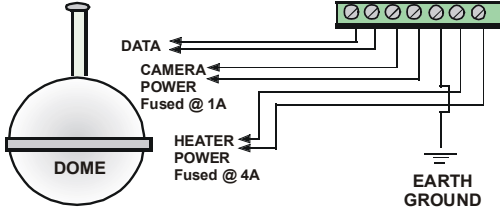
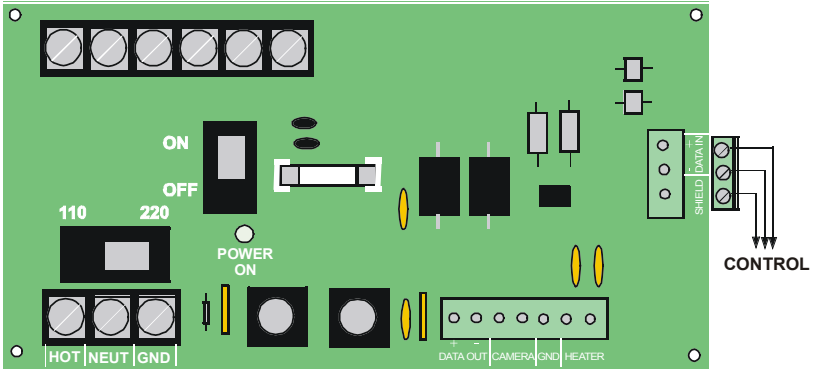
10. Make sure the power switch on the PCB is in the OFF (Down) position.

Select the input voltage required (110 or 220 V AC), using the other switch. 110V is the left position, 220V the right.

Bring AC power to the enclosure via conduit and a NEMA rated grommet. Connect corresponding AC power wires to the terminals marked HOT, NEUT (neutral) and GND (ground).

Double check all wiring and the voltage selection switch. Turn on the power switch on the board. The green LED should glow. Power is now available at the terminals.

INSTALLATION, CONTINUED



Be sure to use conduit and proper size grommets to run your wires.

SECTION 3: SPECIFICATIONS

Voltage Input	110V AC +/-10%, 60 Hz +/-1% OR 220V AC +/-10%, 50 Hz +/-10%
Voltage Output	24V AC, 60 Hz or 50 Hz, depending on input
Current Output	5 Amps total. Camera output fused at 1.1 Amps. Heater/Blower output fused at 4 Amps. Unit master fuse 6.3 Amps.
Surge Suppression	
AC Input	Clamping voltage = 340V RMS @ 6A
Video	24V RMS @ 1.1A
Data	24V RMS @ 1.1A
Clamping Response	<1nS
Dimensions	7W x 8H x 3.5D inches (177.8W x 203.2H x 88.9D mm)

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