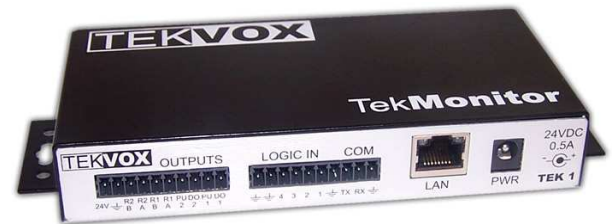


TEK 1 is the first of a group of monitoring devices called TekMonitors. Each TekMonitor is an Ethernet-based asset management tool providing equipment monitoring, security and control of audio visual devices. Use the TEK 1 to monitor and control video projectors, plasma monitors, lights and many other classroom or office space devices. Unlike a control system that requires a knowledgeable programmer, the TEK 1 uses an intuitive step-by-step guide called TekWizard. When monitoring a device, the TEK 1 can either operate autonomously by sending Email messages for theft detection, error condition or usage report or with the TekManager asset management software.

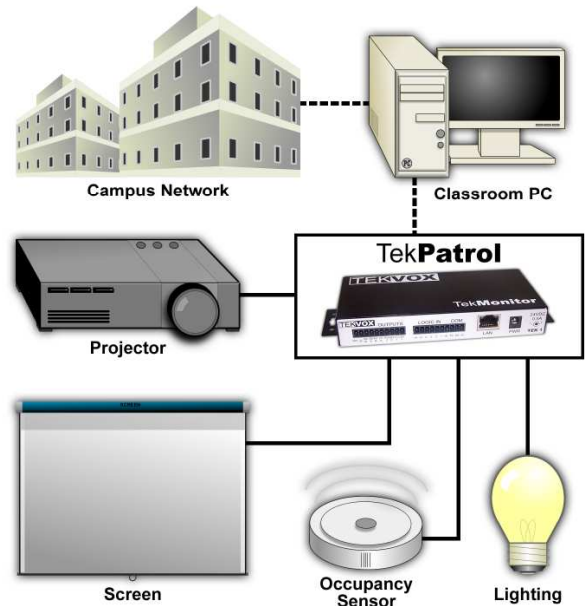
### Benefits

- Improves equipment life by managing operational times
- Reduces maintenance and energy costs
- Adds reliable security to room devices
- Improves equipment reliability
- Increases administrator productivity
- Easy to install
- Allows for replacing display device without changing control software

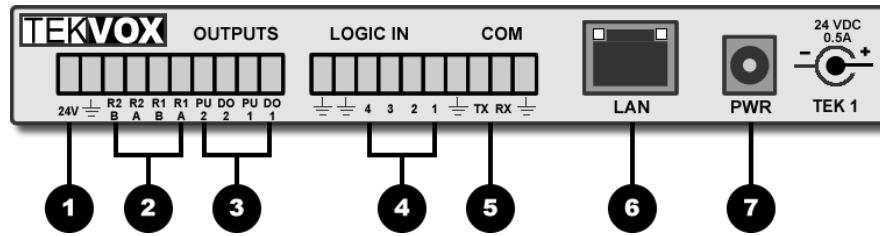


### Features

- Easy step-by-step system integration using TekWizard
- Effortless management of devices using a view-all navigation GUI
- Secure and easy device control from a room PC
- Supports DHCP IP configuration using a proprietary auto-discovery method
- Compatible with any device having a data connection and released protocol
- Security management using a true hardware security detection method to eliminate false Email reports
- Monthly email usage reports
- Lamp and Maintenance timer, Email reports
- Support for up to 250 devices
- Event scheduling
- Inventory and asset management
- Supports Occupancy Sensors and lighting control
- Supports TCP/IP communication for easy control system operation



## Rear Panel Features



- 24 volt connection:** Use this power connection to power another device like an occupancy sensor or power the TEK 1 from another power source, like a power pack for an occupancy sensor.
- Relay 1 and 2:** 2 Amp Isolated contact closer. Use these relays for devices that require isolation, such as AC devices, or may draw larger currents.
- DO:** Digital Logic Outputs 1 and 2 - 300 ma at 24 volts. These outputs must share a common ground with the connected device.  
**PU:** 24 volt @ 8 ma (2.7K) pull-up resistor. These resistors may be required to connect to a Digital Output to provide voltage for the connected device.
- Logic Inputs 1-4:** Use these inputs for sensing an on or off state of device like a security connection, a room occupancy detector, a power monitor or a control button.
- Serial connection:** This connection is a programmable RS-232 data port used to pass data between the TekMonitor and the connected device.
- The **LAN connection** is an auto sensing 10/100 Ethernet connection supporting DHCP, TCP/IP, UDP, SMTP and Telnet.

The TEK 1 comes with an external 24 volt .5 amp universal power supply. Power-Over-Ethernet is not supported. When the TEK 1 is used with an Occupancy Sensor and Power Pack, the 24 Volts from the Power Pack may be used instead of the external power supply.

## Applications

A TEK 1 is not programmed using a programming language. Instead, it is configured using an intuitive step-by-step guide called TekWizard. From TekWizard all of the information about the room and the controlled device are entered, a device driver is selected from a driver library and a simple macro selection can be created from commands generated by the device driver.

The Logic Inputs generate two types of events that are linked to macros. These input events occur when the input goes high (Open) or low (Closed). A macro is basically a group of commands to provide simple automation.

These applications provide the system installer with some concepts of how to apply the TEK 1.

## TEK 1 Applications

- Standard Projector Connection
- 12 volt Security Alarm
- Miniature 24 volt Security Alarm
- Occupancy Detection, Lighting Control and Miniature Alarm
- Occupancy Detection, Lighting and Screen Control
- IR Connection

To view these applications please visit <http://www.tekvox.com/apps.html> for more information.

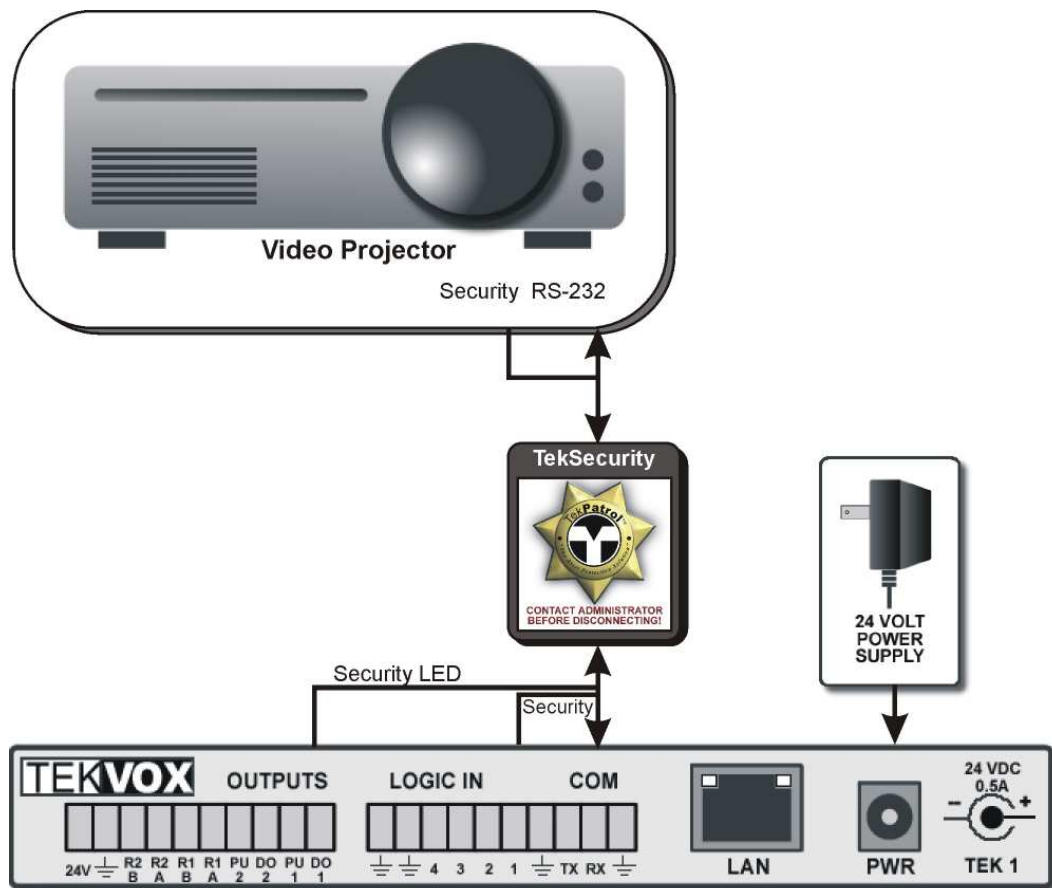
## Standard Projector Connection

In a standard configuration a TEK 1 is used to control, monitor and provide security for a video projector or large screen display. The TEK 1 is installed in the ceiling and a control cable is installed between the TEK 1 and the TekSecurity warning indicator. TekSecurity is installed on the projector and a short control cable is installed between TekSecurity and the display device.

Installing TekSecurity on the video projector adds a theft deterrent by flashing a Red LED on the TekPatrol Security Logo when security is enabled. This indicator also lets a service technician know that the projector is under security and to disable security before working on it.

## Features

- Internal timers for Lamp, Maintenance, Monthly Usage, Total Usage and System Off
- Detects cut cables for device security (Reports by Email)
- Email Reports including Device Errors, Monthly Usage and Security Email



**Device Specifications****Ethernet control interface**

Connectors ..... 1 - RJ-45 male connector  
Data rate ..... 10/100Base-T, half/full duplex with auto sensing  
Protocols ..... DHCP, ICMP (ping), TCP/IP, UDP, Telnet, SMTP  
Default settings ..... Link speed and duplex level are set to auto sensing.  
IP address is set to DHCP.

**Serial control interface**

COM ..... One - RS-232 serial (TX and RX only)  
Default settings ..... 9600, 8-bit, 1 stop bit, no parity

**Logic Inputs**

Inputs 1 – 4 ..... Four - ESD protected inputs with internal 10K pull-up resistors, Logic High 2V, Logic Low 0.8V

**Outputs**

Digital (DO 1-2) ..... Two - open collector Darlington with 300 ma @ 24V sourced to ground  
Pull-Up (PU 1-2) ..... Two - 2.7K 1/4 watt resistors connected to 24V (9 mA)  
Relays (R1-2) ..... Two - 2 Amp Isolated contact closer (Nominal 30 VDC)

**General**

Power ..... 100-240VAC, 47/63 Hz, 0.5A, 15 watts,  
DC Power ..... 24 VDC 0.05 Amp  
Temperature/humidity ..... Storage -40°to +158°F (-40°to +70°C) /10% to 90%  
Non-Condensing Operation ..... +32°to +122°F (0°to +50°C) /10% to 90%,  
Enclosure type ..... Metal  
Enclosure dimensions ..... 1.0" H x 6.9" W x 3.0" L 2.52 cm H x 17.50 cm W x 7.59 cm L  
(Depth excludes connectors.)  
Product weight ..... 0.36 lbs (0.16 kg)  
Shipping weight ..... 2 lbs (1 kg)  
Listings ..... UL, CUL (Power Supply Only)  
Compliances ..... FCC Class B, Canadian ICES-003  
MTBF ..... 30,000 hours  
Warranty ..... 2 years parts and labor

Specifications are subject to change without notice.

