

# securityProbe5E

Versatile sensor monitoring device with video and Modbus support



Monitor the physical environment and receive alerts of any disturbances, such as unauthorized intruders, security breaches, high temperatures, smoke, water leakages, power outages and more. Compatible with all of the AKCP range of Intelligent Sensors it provides a complete environmental, access control and security monitoring solution.



## AKCess Pro Server

Free with all AKCP hardware



Take control of your monitoring system with AKCess Pro Server, our world class central monitoring software (CMS). Monitor all your AKCP devices no matter their geographical location from a single user interface.

Map your site locations, drill down to region and create maps of individual sites and buildings. Locate sensors and view their status.

Deploy a hierarchy of notifications using SMS. Email or relay actions to trigger corrective action.

## Introducing the securityProbe 5E



### securityProbe 5E monitoring System

**securityProbe 5E** has a Linux Operating System running an iMX25 CPU. An additional 2 Gigabytes SD card can be installed to provide greater storage capacity. It is TCP / IP compliant and runs lighttpd web server including https (SSL), Bash, Perl, Telnet, PHP, Email and Nagios.

**securityProbe 5E** has an easy-to use web-based user interface for sensor configuration, data collection and extensive graphing. Complete SNMP functions including SNMP v3 encryption are supported.

### securityProbe 5E's OnBoard Architecture

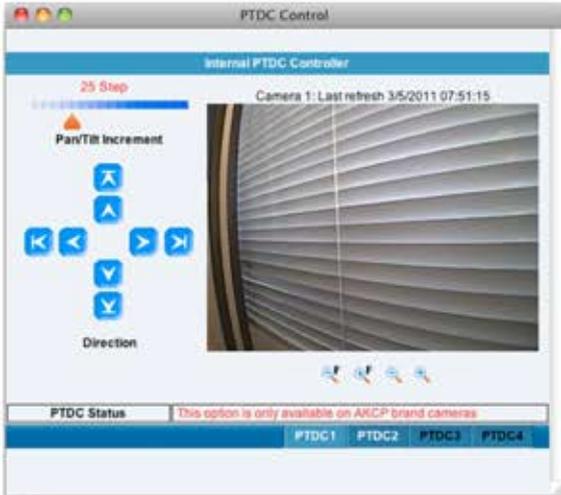
Up to 8 of AKCP's Intelligent Sensors can be connected to the securityProbe 5E. When plugged in, sensors automatically configure themselves and go 'online'. Using the either the E-sensor 8, or the E-opto 16 expansion modules, up to 500 sensors can be connected to a single unit. Our easy-to-use port numbering system allows you to setup the securityProbe 5E within minutes.

- AKCP i.MX25 Processor
- 128 Megabytes of Onboard NAND Flash
- Onboard SD card slot
- 10/100 Mbps Ethernet Port
- 1x USB 2.0 Port
- 4x BNC Video Ports
- RS485 Ports
- Internal Audio Speaker
- Internal Microphone
- 8 Full AutoSense RJ-45 Ports
- 2x RJ-45 Expansion Ports
- Video Enabled



**securityProbe 5E** also supports Modbus Master/Slave, Modbus RTU and Modbus over TCP / IP creating a unique, easy to configure Modbus to SNMP gateway. The web-based interface is written in PHP allowing end-user changes such as language translation. The securityProbe 5E has a battery backed time of day clock for accurate record keeping.

## Application

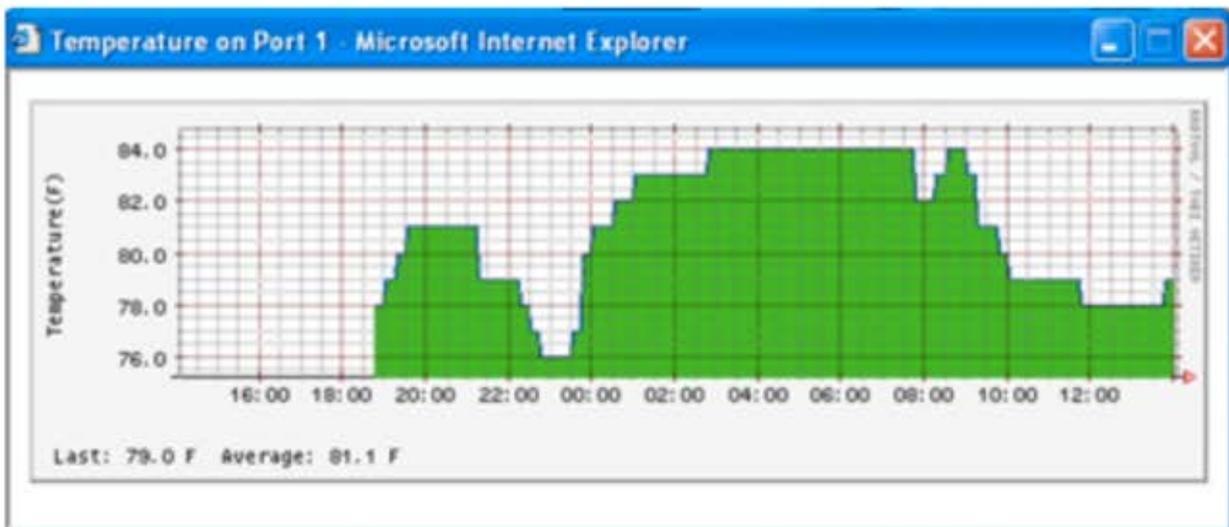


### Connect up to 4 External Cameras

**securityProbe 5E** can display pictures from a maximum of four cameras simultaneously in several sizes, up to 640x480 pixels resolution.

AKCP cameras are used in professional surveillance and CCTV monitoring systems. A built-in pan-tilt controller interface allows complete control of pan and tilt cameras using the industry standard Pelco D bus.

External Camera PTDC Control



Advanced Sensor Graphs via RRD Tools

## Sensor Graphing

**securityProbe 5E** integrates and displays graphs of all sensor data in its web-based user interface. The individual graph (day, week, month and year) for each sensor type can be customized, simply by modifying the script template used to generate a particular graph. RRD tool is used to build an embedded database of sensor data.



## Industry Certifications & Network Management Systems



*AKCP offers NMS Integration for leading network management systems such as:*

- AdRem NetCrunch
- IBM Tivoli
- SiteScope
- Quest Software – Big Brother
- Loriot Pro
- Somis WebNM and Denika
- Castle Rock
- Logalot
- WhatsUp Gold
- HP OpenView
- MRTG
- Computer Associates Unicenter TNG

The securityProbe 5E can automatically push out the complete status of the unit and sensors via the Heartbeat Message feature. This can be setup to be sent through e-mail, SMS or SNMP traps. A HTTP get script can also be chosen, allowing the data to be pushed to web servers.

## Support and Warranty

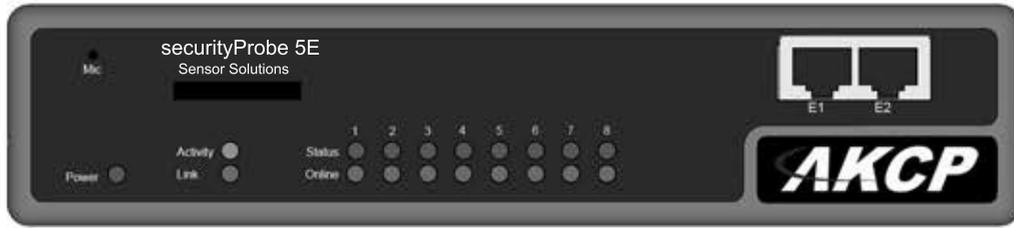
- **5 Year Global Warranty**
- **Unlimited Lifetime Support**
- **Free Firmware Updates**
- **Full, Easy to Follow Documentation**

## securityProbe 5E Features List

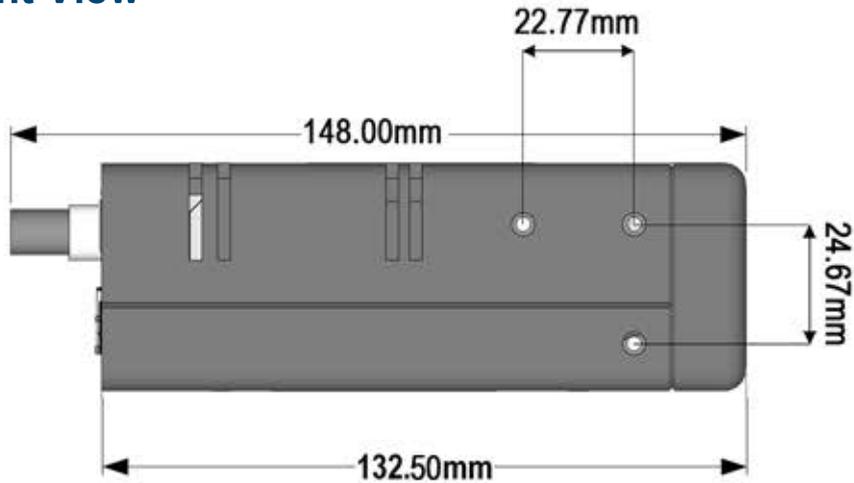
- Embedded web server displays sensor information and live video from connected cameras.
- Control 4 PTDZ cameras directly from the web interface.
- Record digital video to remote servers or internal memory, or send live images to your own website.
- Connect up to 4 Universal Mount Digital Cameras, and simultaneously display images up to 640x480px resolution.
- Receive notifications of anomalous events via email, SMS / MMS, SNMP traps, and many more.
- Integrates with network management systems via SNMPv1 and Encrypted SNMPv3.
- Stream video and sensor information directly to your cellphone or PDA.
- Ability to connect external GPRS / GSM modem, Bluetooth and WiFi USB adapters.
- Uses Linux operating system for maximum stability and flexibility.
- Virtual Sensors monitor power, Modbus, network devices, and other SNMP based equipment.
- Built-in graphing and data logging, internally or to a remote PC.
- Platform independent; free firmware upgrades and utilities from AKCP.
- Monitor up to 500 intelligent sensors using expansion modules ( E-Opto 16 and E-Sensor 8 ).
- Compatible with complete range of AKCP Intelligent Sensor.
- Full Modbus support : Modbus Master / Slave, Modbus RTU, Modbus over TCP / IP.

# Technical Drawing

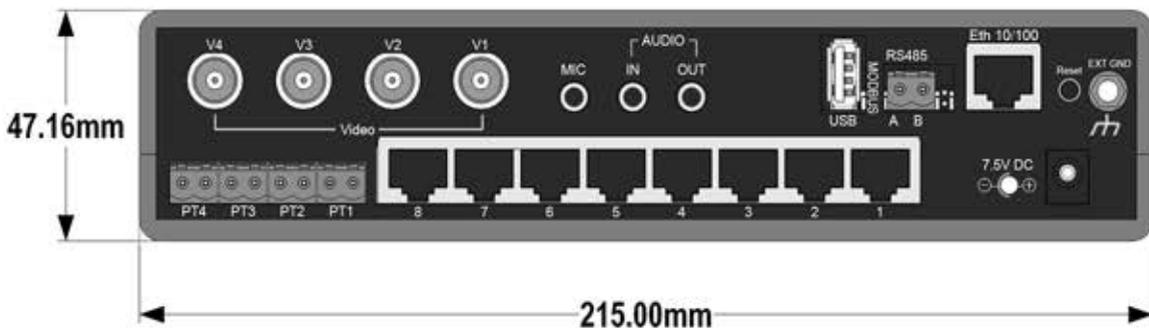
Dimensions in mm



**Front View**



**Side View**



**Rear View**



**Front view with rack mount brackets**

## Technical Specifications

<b>Dimension :</b>	Size : 8.5" x 5.43" x 1.80" Weight : 2.4 Pounds
<b>Expansion Ports :</b>	2x RJ-45 Expansion Ports 115.2K BPS Data Transfer Rate Simultaneous Functionality between Expansion Ports & RS485 Port Threshold Status
<b>Mounting :</b>	Rack Mount Brackets included Compatible with AKCP's DIN and Rack Mount Trays
<b>Power Requirements :</b>	Voltage : 7.0 - 9.0 VDC, 3Amp
<b>Status Indication :</b>	LED Indication for Power LED for Network Connectivity LED for Sensor Online and Threshold Status
<b>Output :</b>	Ext. Speaker Out, 2.5" Jack (Analog) For Modem Application
<b>Power Consumption :</b>	Typical 3.375 Watt, 0.45A
<b>Operating Environment :</b>	Temp : Min -35°C- Max +55°C Humidity : Min 20% - Max 80% (Non-Condensing)
<b>Components :</b>	Manufactured using highly integrated, low power surface mount technology to ensure long term reliability  IMX25 Processor 128 MB NAND Flash Internal On-Board SD Memory Slot Drive
<b>Inputs :</b>	8x RJ-45 Sensor Ports 2x RJ-45 Expansion Ports 4x BNC Video Ports V1-4 1x USB Port (Version 2.0) 4x PTZ Two Pin Controllers Audio In (Analog) 2.5" Jack RS485, 2 Pin Terminal Box (Used for MODBUS)

<b>MTBF :</b>	400,000 Hours
<b>Expansion Boards :</b>	8 Port Intelligent Sensors Module (E-Sensor 8) 16 Port Dry Contacts Module (E-OPTO16) Extendable up to 1,000 Feet or 300 Meters Expansion modules are daisy chainable.

## About AKCP

AKCP established in the USA in 1981, created the market for networked temperature, environmental and power monitoring solutions. Today with over 100 employees and 200,000 installations, AKCP is the world's oldest and largest manufacturer of SNMP enabled networked sensors for the data center.