CameraProbe8 - **An IP Network based Camera Security and Environmental Monitoring Solution**. The CameraProbe8 integrates over 10 years of environmental monitoring experience with the latest high resolution CCD technology. Now you can sense and see problems before they lead to business disruptions.

CameraProbe8

Embedded Linux System

The CameraProbe8 is based on a 32-bit ARM processor. it includes 64 Megabytes of SDRAM and 64 Megabytes of nonvolatile flash memory, along with a 10/100 Mbps Ethernet and two serial ports. With a real Linux kernel running on the system, the CameraProbe8 is able to embed many applications such as Apache web server including encrypted https web pages, Bash, Perl, vi Telnet, PHP, email and Nagios.

Camera Integration

The CameraProbe8 houses a high resolution quality CCD camera from Sony. The pictures are truly stunning even in low light conditions. This camera features AWB (Auto White Balance), and has a horizontal resolution of 640 pixels per line, with 625 lines (interlaced). The sensor is a 1/3" interline CCD. it has an excellent low light sensitivity of .5 lux at f1.2

Live full-color streaming video is available at up to 15 fps on a local network via the web interface. Standard JPG format pictures are used allowing the use of third party host tools to store and analyze the JPG pictures. The pictures can be easily downloaded from the CameraProbe8 into the local host where standard software can be used.

An IP Network based Camera Security and Environmental Monitoring Solution

Remote Pan and Tilt

The camera is coupled to high precision stepper motors, which can pan the camera left to right and up or down.

Sensor Integration

Up to 8 intelligent autosense sensors can be plugged into the RJ-45 ports of the CameraProbe8. Once inserted, the sensor automatically configures itself and goes online. Our easy to use web based interface allows you to setup the CameraProbe8 in minutes. Once online, the sensors use their 4 levels of threshold checking and report any status change

Notification System

When an event occurs, the CameraProbe8 can send email, SNMP traps and SMS messages (with attached modem). Now, these email messages include a picture of the event. All of these events are stored in the event log; 4 pictures per event are included. A total of 584 pictures can be stored in a nonvolatile flash memory. The timestamp is displayed below each image. The CameraProbe8 has a battery backed time of day clock to facilitate accurate record keeping.

Automatically Shutdown your Equipment in an Emergency

AKCP's Linux devices will automatically send a shutdown message to your Linux or Windows based servers - so if there is a power outage, for example, you can rest assured that our servers will be safely and automatically shut down before your UPS runs out.

False Message Filter

In order to prevent false alarms, the CameraProbe8 provides an extensive filtering of events. You can limit events based on the time of day or the day of the week. You can also limit the number of alerts per hour, so that you are not swamped with messages. This is expecially important with the sensor like the motion detector, when you may want to process an event only when the business is closed.

Specifications

■ **Weight**
   3.3 pounds

■ **Dimension**
   Size 12.59" x 5.43" x 1.80" - (camera come height 3.62")

■ **Power Supply**
   7.5VDC 2Amps

■ **Interface Ports**
   2 Serial ports 1 Standard 10/100 Base-T Ethernet RJ-45 port.

■ **Mounting**
   Wall mount, optional wall mount brackets are available.

■ **Status Indication**
   LED indication for Power
   LED for Network Connectivity
   LED for sensor online and threshold status.

■ **Input**
   8 RJ-45 ports for connecting AKCP sensors Configurable analog inputs on any of the 8 RJ-45 sensor ports -60VDC to +60VDC using optional DC Voltage sensor

■ **Output**
   Configurable output signals (0VDC/5VDC) on any of the 8 RJ-45 sensor ports

■ **Image Sensor**
   High quality Sony CCD Light sensitivity of .5 lux at f1.2 1/3" interline CCD Auto White Balance 640 pixels per line, with 625 lines per frame (interlaced)

■ **Components**
   Manufactured using highly integrated, low power surface mount technology to ensure long term reliability. 32-bit ARM Processor running Linux kernel 64MB Flash memory + 64 MB SDRAM

■ **Operating Environment**
   Temperature : Min. 0 deg - Max +70 deg C
   Optional Industrial Version
        : Min. -40 deg C - Max +85 deg C
   Humidity : Min 20% - Max 80%

■ **Camera Control**
   Remote pan and tilt (remote 135deg pan, 135deg tilt) Lens - fixed focus, glass Field of view 92 degree diagonal Precision, custom designed stepper motor Web browser control of motor for administrator

Full Linux system with 64 Megabytes of Flash and 64 Megabytes of SDRAM Full TCP/IP, including all of the popular utilities. Many applications: Apache web server including https, Bash, Perl, vi, Telnet, PHP, Email, Nagios Easy-to-use web based user interface to sensor configuration, data collection and extensive graphing Full SNMP functions such as snmpV3 encryption Web based configuration written in PHP allowing end user changes including language translation Battery backed time of day for accurate record keeping
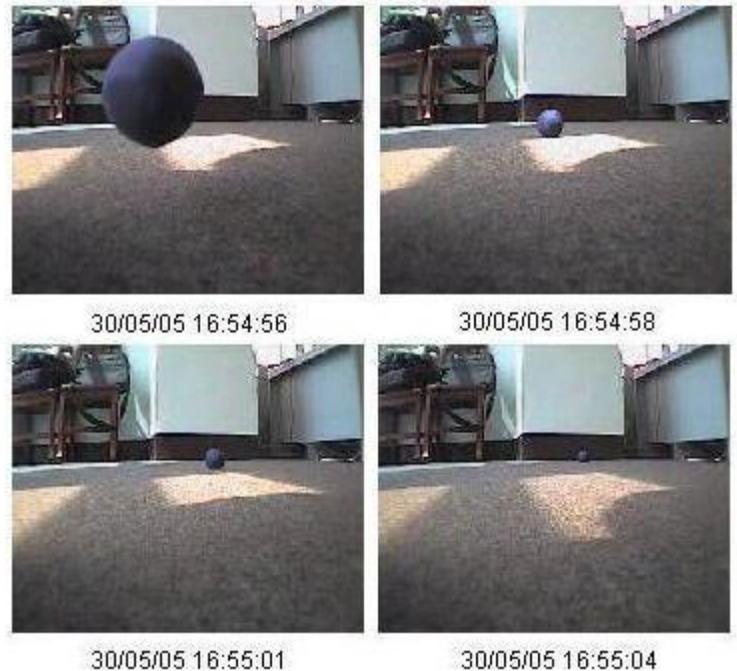
Platform Independent
Works with standard web browsers from host machines running any type of operating system

Camera & Image Features
Pictures can be easily downloaded to host system for later examination Standard JPG format for all pictures Standard CIF picture size (352 x 288 pixel elements) Live full color streaming video is available at up to 15 fps over a Local Network Streaming video is also available at 1 fps over a Wide Area Network Up to 50 links of a streaming video can be run simultaneously Virtually unlimited number of jpgs can be served simultaneously over local or wide area networks

4 pictures per event are saved in the log
when the event occurs

the RCA receptacle inside the cameraProbe8

Database
Embedded database for storing 146 events including 4 pictures per event for a total of 584 pictures Event detail includes the time and the sensor which caused the event along with the sensor readings The database can be reviewed easily with our built-in web based analysis system All of the pictures are time stamped System logging features with time, date, action System log can be integrated with third party tools for storage and examination

Alert Notification

Built in notification features - Email and SNMP traps Send out email including a JPG format picture of the event whenever the event is triggered (if requested) Events are also logged to the system log Events can be filtered using sophisticated filtering such as time of day, day of week, in order to prevent *unnecessary* events from filling up the database

Security Authentication

Two levels of access to use the system: User or Administrator using standard snmpV1 Encrypted snmp using snmpV3 Encrypted web access including encrypted jpgs using Apache web server with SSL

Sensor integration

8 autosense sensor ports for connecting any type of sensors from the AKCP family. All autosense sensors self configure for ease of setup Simple integration of custom sensors Built in graphing for all 8 sensor ports Wide range of sensors available

Firmware Update

Micro code firmware update over the Internet

Network Management

Network Management System integration, MIB files provided for integration with the NMS Full SNMP V1 compliance

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