# Sentry Scope

 The Power of LinescanSentryScope is a whole new approach to surveillance video. Unlike conventional cameras that take an entire image at once,SentryScope uses advanced linescan technology, acquiring each image one line at a time. Military aircraft and satellites have long used this method for ultra-high resolution reconnaissance and weather observation. The SentryScope camera contains a linescan image sensor and a precisely controlled scanning mirror. At each instant of time the sensor records only a narrow vertical line in the monitored area. The motion of the scanning mirror causes this vertical lineto sweep across the area from left-to-right in about one second. Up to 10,240 vertical lines are recorded during the scan, forming the full image. The result? Unmatched image clarity and detail. Use on a Network or Stand-AloneSentryScope has been designed from the ground up using advanced digital technology. A dedicated Fast Ethernet link connects the main camera to its control unit, SentryServer, located in the security office or other protected area. All adjustments to the camera are made electronically from this remote point, not at the camera location. SentryServer controls the camera, records the video, and manages thedisplay of both live and stored images. Simply attach a keyboard, monitor and mouse to SentryServer for stand-alone operation. For the most power, place SentryServer on yourLocal or Wide Area Network (LAN or WAN).Network operation allows an almost unlimited number of cameras to be viewed and controlled from multiple locations. Advanced Display SoftwareThree software packages allow easy viewing of the ultra-high resolution video. SentryWare is run on SentryServer for viewing images in the stand-alone mode. SentryManager is used on network computers running Windows 98 or later, providing control and image access to any SentryScope camera on the network. A simple program, SentryViewer, displays clip sof saved video, such as evidence stored on CD. All three programs are simple to install and use. Familiar &ldquo;point and click&rdquo; commands control the viewing of live or recorded video. State-of-the-art image display tools extract every drop of information. Video and image scan be exported as bitmaps or CD video clips. SpecificationsImage resolution: (with internal 85mm lens) Horizontal:up to 10,240 pixels,FOV adjusts 36⁰ to 90⁰ Vertical:2,048 pixels over a fixed 18⁰ field-of-viewImage resolution: (with internal 50mm lens) Horizontal:up to 6,144 pixels,FOV adjusts 36⁰ to 90⁰ Vertical:2,048 pixels over a fixed 30⁰ field-of-viewField-of-view adjustment:The vertical field-of-view is determined by the installed lens (50mm or 85mm).The horizontal field-of-view is user adjustable from 36⁰ to 90⁰.Digital zoom: Up to 100x (a 96x64 pixel zoom image takenfrom a 10,240 x 2048 pixel full image) Image rate: 50 to 120 images per minute,depending on the lens used and horizontal field-of-view adjustmentImage storage:Typically 70 Gbytes per day required for continuous recording with good image quality; provides 14 day recording with 1 Tbyte internal digital storage Light level: Digital AGC adjusts sensitivity for street lightillumination (0.8 lux) to the brightest sunlight; AGC dynamicr ange is greater than 500,000. Nighttime frame averaging views stationary objects with less than 0.1 lux.Focusing: Remotely controlled from the operator station; automatic or manual focusing Third party access: Third-party systems (DVRs,license platerecognition software,etc.) can access recorded and live video over the SentryServer network connection.Connectivity: Uses a dedicated Fast Ethernet connection between the camera and SentryServer.(CAT5 cable or fiber optic connection; high-speed wireless planned for Q2 2005).Physical: Rugged all-weather cast aluminum housing;16 lbs(7.3 kg);15.25 x 7.5 x 5.25&rdquo;(38.7 x19.0 x 13.3 cm) Electrical:18-28 VDC,3A; external power supply for 120/240v50/60Hz operation is included Operating temperature: -20 to 65⁰C (-4 to 150⁰F) Internal heater: 60 watts; software controlled; maintainscamera up to 35⁰C (63⁰F) above outside temperature (outside mount option only)SentryServer: Integrated digital video recorder and camera controller. Operates under Windows XP using factory installed SentryWare. Everything needed to place the SentryScope camera on your network (SentryManger is sold separately).Operates with a fixed or assignable IP address. Adding a monitor, keyboard and mouse to SentryServer forms complete stand-alone system.Warranty: 3 years