



e-Watch®

e-Watch Corporation
Capability Statement



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BACKGROUND:

The requirement for higher security for worldwide operations has generated a need for substantially increased levels of surveillance and monitoring and a greater degree of interoperability between security and surveillance products. The use of digital technology to increase the effectiveness and scope of security personnel is mandatory to achieve the highest level of security at the lowest cost. e-Watch Corporation is a world leader in IP Video Surveillance technology. The e-Watch® Situational Awareness System provides a comprehensive and highly flexible solution to surveillance and monitoring that embraces modern network and wireless technologies.

THE COMPANY:

e-Watch is located in San Antonio, Texas. In addition to direct sales and support, a network of Value Added Resellers (VARs) sell, install and service e-Watch® systems.

As the developer and sole owner of the e-Watch® hardware and software products e-Watch Corp is in the position of being able to quickly respond to customer requirements. We can give the customer unparalleled confidence that what they “need” is what they “get”. The e-Watch® Situational Awareness System can be extended for use in any surveillance or security application.

- **Software Design** – SiteWatch™ and related applications, applets, utilities and web pages are written by e-Watch Corporation as well as many of the drivers and filters.
- **Hardware Design** – Power PC and DSP-based encoder boards, I/O boards, comms boards, power supplies, and power conditioning boards.
- **System Design and 3rd party integration** – Cameras, software, servers, storage, monitor stations, comms (wired, wireless, fiber, cell...), command centers, perimeter security, life safety and analytics.
- **Manufacturing** – cameras, portable and mobile platforms.
- **Installation** – direct or through a system of VARs.
- **Maintenance and Support** – on site, telephonic and remote access.

COMPREHENSIVE SITUATIONAL AWARENESS:

An effective Situational Awareness System must perform in three scenarios:

1. **Prevention** – The use of surveillance and monitoring to prevent malevolent acts and accidents before they happen is the most compelling use of a Situational Awareness System.
2. **Intervention** – If an act of malevolence or an accident is underway, the use of surveillance and monitoring to direct response safely, quickly and efficiently is paramount.
3. **Analysis** – After an act of malevolence or an accident, the use of archival data and analysis tools that are part of the Situational Awareness System is vital to understanding who and what was involved, why an event happened, and how to prevent further occurrences. e-Watch has a toolkit of advanced IP and Network based appliances and applications to provide for fast and accurate Situational Awareness.

PRIMARY SYSTEM ELEMENTS:

Software:

- **SiteWatch™** - enterprise-class service based application which controls security/surveillance devices and hosts the user web pages.
- **ViewWatch™** - a graphical user interface to e-Watch and integrated 3rd party products. Via ViewWatch, the user can view live and archived camera video, monitor alarms and alerts for system's server(s), cameras, security devices and sensors.
- **Configuration and diagnostic** – tools are available for monitoring and configuring the e-Watch server, cameras and other devices either on site or remotely. Critical data can be posted to a web portal allowing the customer to monitor the system, input service requests and track open service tickets with e-Watch Corp and/or their local service provider.
- **Third Party Application Software** - can be utilized for more advanced image processing.

Sensors:

- **e-Watch IP Video Cameras** - e-Watch has a broad product line of advanced IP-Video Surveillance cameras featuring day/night, PTZ, auto focus and motion detection.
 - Indoor
 - Outdoor
 - Stealth – designed for law enforcement and drug interdiction
 - Wide angle, megapixel - designed to detect humans 7 miles away with a field of view up to 30 miles wide.
- **3rd Party IP Video Cameras** – e-Watch supports 3rd party IP video cameras including but not limited to Axis, D-Link and ISA.
- **Video Streams** - any industry standard video stream may be utilized by the e-Watch system using encoders.
- **Legacy Cameras** - Existing or special purpose analog cameras are interfaced to the e-Watch digital network using encoders.
- **Legacy Alarm Systems** - Existing alarm infrastructure is interfaced to the e-Watch system using GateWatch™ software.
- **Legacy Access Control Systems** - Existing access control systems are interfaced to the e-Watch system using GateWatch™ software.
- **IP Access Control systems**- e-Watch supports ISONAS Access Control products and MODBUS protocol devices.
- **Third Party Sensors** - Sensors such as NBC (Nuclear, Biological, Chemical), Seismic, Environmental and other types can be easily interfaced to the e-Watch system.

Monitors:

- **Monitor Walls** – provide a global view of the situation including camera maps, hundreds of live camera views, simultaneous event reconstruction, system health and real time diagnostics.

- **Desktop PC's** - the commodity for monitor stations. They may be dedicated and have multiple display screens, or they may be any authorized PC on the network.
- **Laptop PC's** - may be utilized for portable and wireless monitoring. Connections are commonly Wireless-LAN.
- **HPC's** – may be utilized for portable wireless monitoring. Connections are commonly Wireless-LAN or Cellular.
- **Cell Phones** - can receive alarm events.
- **POTS Telephones** - can receive alarm events.
- **Pagers** - can receive alarm events.
- **In-car systems** – CopCase systems installed in law enforcement vehicles can monitor any camera on an e-Watch network via wireless link.

Network:

- **Standard 100/1000 Ethernet** - the workhorse of traditional network infrastructure is utilized for the mainstream of sensor and monitor interconnect.
- **Long Range Ethernet** – CAT5 PoE runs of several thousand feet are supported.
- **Fiber Optics** - are utilized for demanding high security and wide area applications.
- **DSL** - low cost high bandwidth
- **Cable Modem** - low cost / high bandwidth
- **Private Carrier** - such as T-1, T-3, OC-3, Frame Relay are utilized for secure connections.
- **Wireless LAN** - is utilized for short haul interface to wireless cameras and wireless personal devices that are local to the system. Broadband, long range 200Mbps links are available for connecting remote devices in serial or hub/spoke configurations. This system is suitable for long haul connectivity to remote cameras and remote monitoring stations that may be miles away.
- **Satellites** - are utilized for remote and mobile applications outside of the range of cellular. Satellite can also be used for aircraft links. Satellite can be used for vehicles, handheld and portable devices, and remote fixed devices.

Data Storage:

- **Network Servers** - the mainstream archival storage medium.
- **Network Storage Systems** - used for large applications (NAS, SAN).
- **Direct Attached Storage** - used for large applications (DAS).
- **PC's** - utilized for smaller applications.

SUMMARY OF USES:

e-Watch products are used in and can be extended for use in asset protection and monitoring in private, commercial, educational, metropolitan, critical infrastructure, medical, homeland security, law enforcement, drug interdiction and defense applications. e-Watch products have been used in diverse situations including the monitoring of significant events such as public gatherings hosting visiting heads of state, the G8 Summit, Milstar launch, Final Four basketball and the Texasborderwatch.com project. e-Watch products have also been tested by the FAA for use on commercial aircraft.