Honeywell Pro-Watch

Let's Talk Solutions

Honeywell

CONTENTS

Note:
Prowatch products in this section are available only to approved partners.
Please contact your sale manager for details regarding required training and approval process.

Make Your Job Easier While You Increase Security

Now there's a new way to increase your level of security, save time and money on the job, and grow your security systems as your business grows. New Pro-Watch® Release 3.7 offers a complete security management solution including: access control, alarm monitoring, video badging and CCTV system interfaces. The software is now easier to install and use through the use of wizards, shortcuts and help menus. And you can customize information or events to fit your needs. Plus, you can choose one of three Pro-Watch editions that is just right for your business:

Enterprise Edition lets you manage your enterprise-wide security system from a single point, while maintaining local operational autonomy.

Corporate Edition is designed to meet the needs of the most demanding security management applications — with at least two users and 96 doors (and can be expanded to an unlimited number of doors).

Professional Edition is an economical solution for small to midsize applications. Designed to operate efficiently without the requirement of a server-based operating system, it uses the Microsoft® Data Engine to provide a powerful solution for applications with one to five users and up to 64 entrances.

Lite Edition is the perfect security management system for entry-level systems because it lets you customize events to fit your needs.

Expand Your System Without Changing Your User Interface

- Go from a two-door system to a 20,000-door enterprise system
- Integrate with CCTV, intrusion, pagers, intercoms, biometric devices and digital storage devices
- Upgrade to Pro-Watch world-class security management without compromising the simplicity to make it work for you

Shortcut Your Work, Not Your Security

- Easy to install and use
- Streamlines, automates, standardizes processes
- Maximum information control in an easy-to-use view
- Makes operators more efficient
- Customizes features when desired

Corporate Edition is designed to meet the needs of the most demanding security management applications — with at least two users and 96+ doors.

Integrated with Digital Video Manager (DVM) R200 and LobbyWorks™

DVM is tightly integrated with Pro-Watch to provide seamless alarm and event-activated recording. Pro-Watch also offers a comprehensive integration to LobbyWorks, including tracking of visitor badges and designating any employee as host.
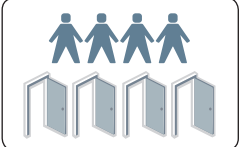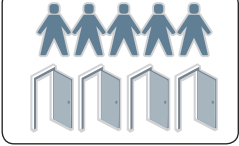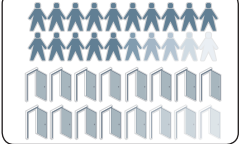
Interoperability with Honeywell Intrusion

Offering smarter security by managing multiple systems; access, video, and intrusion through one software interface.

Why Pro-Watch® is Your Best Choice

- Windows®-based graphical user interface minimizes operator training and helps organize tasks more efficiently
- Multiple database partitioning allows the system administrator to restrict access to sensitive information by User ID
- Direct import of AutoCAD drawings with layer views
- Global "Find" utility allows information to be easily accessed
- Integrated to DVM, Fusion and Rapid Eye digital video systems and Integral Technologies DVX Series DVRs
- Badging and CCTV functionality
- Integrates with high-end VISTA intrusion panels
- Allows biotech and pharmaceutical firms to address industry regulatory requirements
- Savable search templates
- Real point status monitor
- Macros combine operations into single keystroke or mouse click

Which Edition Best Fits Your Needs?

	OPERATING SYSTEM	USERS AND DOOR CAPABILITIES
LITE	Microsoft® Data Engine	1 – 4 users 32 doors
PROFESSIONAL	Microsoft® Data Engine	1 – 5 users 64 doors
CORPORATE	SQL Server	2+ users Unlimited doors
ENTERPRISE	Multiple Servers	Unlimited users and doors

"The new Pro-Watch incorporates suggestions that came from RFI and other field engineers, and we are very pleased with the results," said Brad Wilson, president, RFI Communications & Security Systems. *"The enhancements made increase the efficiency of the field staff by reducing training time and callbacks, which results in increased productivity and happy customers."*

Pro-Watch®
Enterprise Edition

Security Management System

The Pro-Watch Security Management Software Suite from Honeywell is available in three scalable, cost effective Editions that provide a convenient growth path from small to mid-size systems to global enterprise solutions. The Pro-Watch platform offers a complete security management solution including: access control, alarm monitoring, video badging, and CCTV system interface.

Honeywell is committed to providing security management systems that exceed the standards required by today's security professionals. When effective collaboration with your organization's information technology staff is critical to your success, you can be assured that Pro-Watch is the right choice. Honeywell has earned Microsoft's Gold Certified Partner status and Pro-Watch is the only security management software that holds both the Windows® 2000 Professional and Windows® 2000/2003 Server certifications.

The **Enterprise Edition** of Pro-Watch expands the envelope of system capability to truly global proportions by providing the flexibility to manage your enterprise-wide security system from a single point while maintaining local operational autonomy.

Pro-Watch Enterprise Edition offers information sharing and remote administration of hardware between Regional Servers. The powerful enterprise functionality provides efficient centralized control and management of a global security system without sacrificing local operational autonomy.

In the Enterprise Model, one Enterprise Server provides global management of a number of discrete, independent Regional Server systems. The Regional Servers can function independently as local databases and communication servers while sharing information with the Enterprise Server. The Enterprise Server acts as a central storage area for all system configurations. In addition, it can also store cardholder information, hardware information and transaction history. The Enterprise server is the hub for information sharing and system-wide reporting while also providing additional value in disaster recovery planning. This gives corporate security managers full viewing control over central alarm monitoring, reporting and auditing functionality.

FEATURES

- Central cardholder and badging database allows an operator in any region (or at the Enterprise Server) to view and modify cardholder data and replicate throughout the system while maintaining regional security boundaries
- Existing Pro-Watch Corporate Edition system can be easily integrated into an Enterprise without loss of data or history

- A single uniform application program can be used to install and configure the Enterprise Server, Regional Server and all client workstations
- Synchronization between Enterprise and Regional servers ensures the integrity of data throughout the enterprise
- Activate or deactivate a card from anywhere in the Enterprise, while having the card's status updated at all of the regions and their associated controllers

- Provides the ability to service alarms and report on their status from any region, covering the entire Enterprise
- Supports an unlimited number of users and readers
- Uses Microsoft® SQL Server 2000/2005 and Windows 2000 or 2003 Server for the Operating System

Pro-Watch® Enterprise Edition
Security Management System

Regional Servers behave just like a standard Pro-Watch Corporate Edition Server giving regional system administrators autonomous control over their regions, independent of the Enterprise Server and the corporate wide area network. With the Enterprise Option enabled, a Regional Server forwards database updates to the Enterprise Server and retrieves up-to-date cardholder information. The Enterprise model balances central control with local autonomy while providing efficiency in operational logistics and network bandwidth utilization.

Central Database Storage Facilities
The Pro-Watch Enterprise Model allows corporate security managers to have complete command and control over all system and event information. All cardholder and access field data that is accumulated at the Regional Servers is synchronized and logged to a central Enterprise Server. This gives corporate security managers full viewing control over central alarm monitoring, reporting and auditing functionality.

Autonomous Regional Operations
Pro-Watch Enterprise Model offers regional system administrators autonomous control over their regions, independent of the Enterprise Server and the corporate wide area network. Each regional system administrator has total control over all access control field hardware and system information that is related to his or her respective region. Furthermore, regional administrators and operators can view, manage and modify only the information and field hardware that is related to their regions.

CONFIGURATION
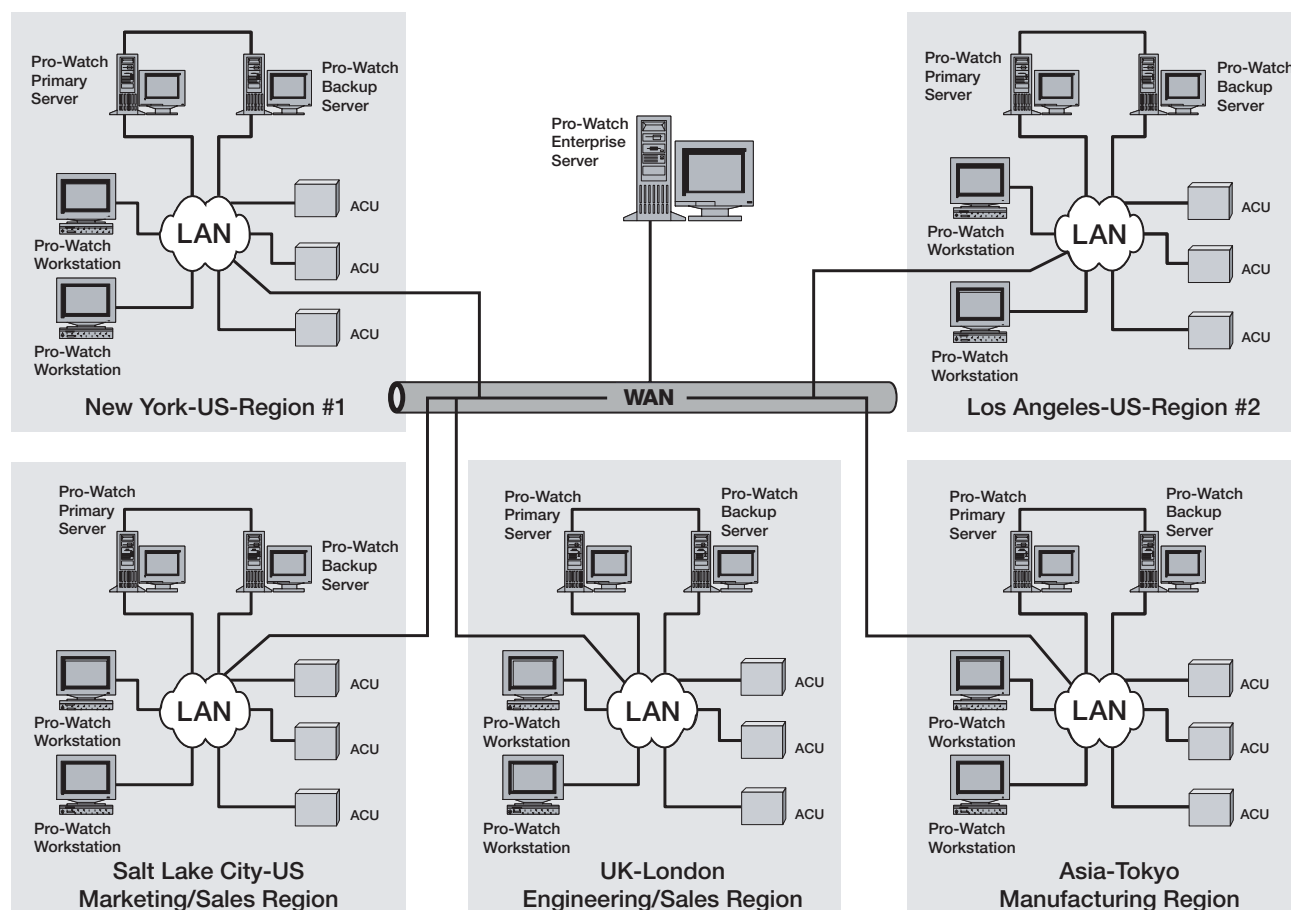
Multi-Database Synchronization

At periodic intervals, each of the Regional Servers performs a synchronization process with the Enterprise Server using wide area network communication. All access control field and event information, updated cardholder information plus clearance code and transaction history is uploaded to the Enterprise Server. The Enterprise Server then distributes any changes received from other Regional Servers, so that all servers can operate with up-to-date information.

Scalability for Multi-National Sites

Pro-Watch Enterprise Edition is scalable, which makes it ideal for any size installation. Enterprise supports an unlimited number of Regional Servers and client workstations without system degradation. As an organization grows, the powerful, transactionbased architecture of the Enterprise Model permits the system to grow and expand, while utilizing the same access control field hardware and application software.

Third Party Human Resource Interface

Pro-Watch Enterprise's advanced interfacing capabilities facilitate bidirectional communication with third party databases (such as PeopleSoft® human resources systems) to transfer cardholder information. Updates occur in real-time, and cardholder information is automatically downloaded to all associated access panels. If an employee is hired, for example, the information is transferred from the HR system to Pro-Watch, which automatically adds all access rights for the cardholder and downloads the required information to the access controllers. This saves significant administrative time by eliminating repetitive data entry.

A Single Card Enterprise Solution

With Pro-Watch Enterprise Edition, each cardholder carries a single ID card that is usable at all regional sites in the system. Once the cardholder database has been distributed to the regions the regional administrators can assign unique access levels for those cardholders who are allowed at that regional site. Pro-Watch Enterprise's advanced security enables system administrators and operators to assign access levels for only those card readers that belong to their respective regions.

Multi-Region Monitoring and Administration

The power and flexibility of Pro-Watch Enterprise Edition allows system operators to monitor alarms in multiple regions simultaneously. This means that regional operators can monitor alarm and event information locally during working hours while Enterprise operators can monitor alarms from all of the regions after hours. An unlimited number of regions can be monitored simultaneously. Pro-Watch Enterprise Edition also allows Enterprise system administrators to configure and administer multiple regions from a single site.

Powerful Regional Server Options

Pro-Watch servers are available in three versions that correspond to the size and complexity of the security system. The LRS option is designed for low usage systems with fewer than 10,000 transactions per day and seven clients. The MRS is designed to serve 15 clients and process up to 50,000 transactions per day and the HRS with quad processor to accommodate the highest volume system usage. Each of these models can function independently as a Regional Server or be enabled to perform as the system's Enterprise Server.

Pro-Watch Integration with DVM

DVM is tightly integrated with Pro-Watch Security Management Software to provide seamless alarm and event activated recording, ensuring that the video you capture is the video you need. With the power of digital recording, all images are stored in a quickly searchable database, meaning you will never have to waste time searching through old videotapes. DVM intelligently captures video, utilizing video motion detection for activation of recordings and initiating alarms. Incidents that take place prior to the alarm are also recorded, ensuring you never miss vital events. For enhanced security, all video is digitally signed, with a complete audit trail of all operator actions and system events.

Integration with LobbyWorks™

Database integration between LobbyWorks™ and Pro-Watch. Badges issued and assigned through LobbyWorks can easily be tracked using Pro-Watch database.

Pro-Watch® Enterprise Edition
Security Management System

ORDERING

Pro-Watch Enterprise Edition Software

PWEESW	Enterprise Edition Server Software - (1) Enterprise Server License, (1) Regional Server License, (2) Enterprise Client Licenses
PWEESWCL	Single User Software License Add-on
PWEESWCL5	5 User Software License Add-on
PWEESWCL10	10 User Software License Add-on
PWEESWCL15	15 User Software License Add-on
PWEESWCL20	20 User Software License Add-on
PWEESWRS	Single Regional Server License Add-on
PWEESWRS5	5-Regional Server License Add-on
PWEESWRS10	10 Regional Server License Add-on
PWEESWRS15	15 Regional Server License Add-on
PWEESWRS20	20 Regional Server License Add-on
	Pro-Watch Enterprise Edition Regional Servers

Pro-Watch System Options

PWDBUT	Pro-Watch Database Transfer Utility (Import/Export)
PWINTSTENO	Pro-Watch interface to Stentofon Intercom System
PWNT3CCTVAD	Server License for American Dynamics CCTV Interface
PWNT3EXECCTVBR	Server License for Burle CCTV Interface
PWNT3EXECCTVPE	Server License for Pelco CCTV Interface
PWNT3EXECCTVVI	Server License for Vicon CCTV Interface
PWNT3EXECCTVIN	Server License for Integral Technologies Digital Video Interface
PBVC15	PCI Video Capture Card for Photo Capture

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Partner

Certified For
Microsoft®
Windows®
Windows 2000 Server
Windows 2000 Professional

Pro-Watch is the only Security
Management Software solution in the
industry that holds both Windows® 2000
Professional and Windows® 2000 Server
certificates. Honeywell is a member of the
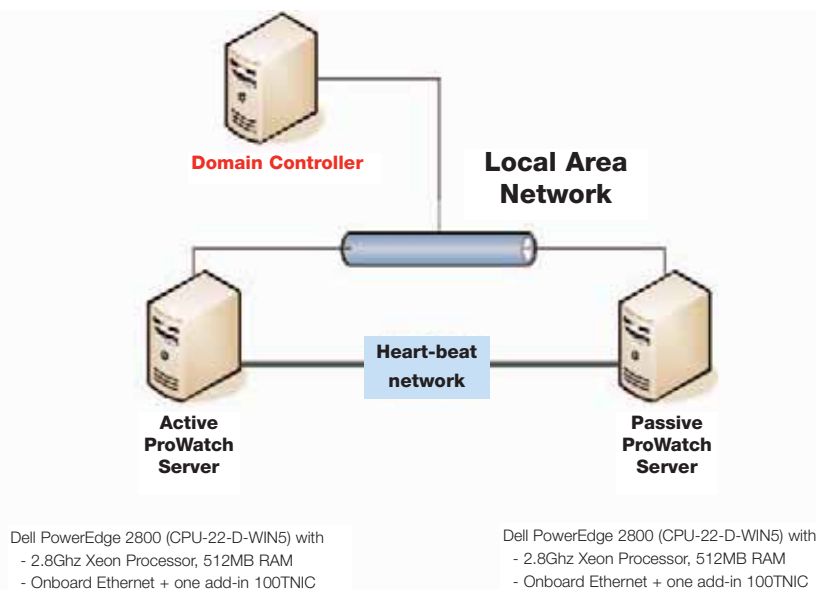Microsoft® Certified Gold Partner program.

Pro-Watch®
HA-LAN

High Availability (HA)-Local Area Network (LAN) Option

Protect your investment in equipment and safeguard your data. The new Pro-Watch® High Availability-Local Area Network manages recovery of the Pro-Watch server and access database over local area networks. In case of power failure or a problem on the part of the main server, this high availability local area network option automatically transfers active data to a passive server and notifies key personnel in compliance with business and/or continuity plans.

Pro-Watch HA-LAN increases system reliability, minimizes downtime and provides enhanced redundancy to mission critical Pro-Watch servers. Using proven failover technologies, Pro-Watch HA-LAN has been integrated and tested to build on the distributed architecture and features of the entire Pro-Watch system, with no additional proprietary or specialized hardware required.

Domain Controller

Local Area Network

Heart-beat network

Active ProWatch Server

Passive ProWatch Server

Dell PowerEdge 2800 (CPU-22-D-WIN5) with
- 2.8Ghz Xeon Processor, 512MB RAM
- Onboard Ethernet + one add-in 100TNIC

Dell PowerEdge 2800 (CPU-22-D-WIN5) with
- 2.8Ghz Xeon Processor, 512MB RAM
- Onboard Ethernet + one add-in 100TNIC

FEATURES

- Automatic and manual failover modes
- Key personnel notification capability
- Active-Passive Pro-Watch server configuration
- Configured, integrated and supported by Honeywell and Pro-Watch team
- Heart-beat network
- Microsoft® Windows 2003 Server compatible

BENEFITS

- Manages recovery of the Pro-Watch server and access database over local area networks
- Programmatic notification of key personnel in compliance with business and/or continuity plans
- Provides an end-to-end automated or manual Pro-Watch server failover solution over local area networks in accordance with contingency and IT business rules
- No additional proprietary or specialized hardware required
- Increases system reliability and minimizes downtime

SPECIFICATIONS

Software

- Pro-Watch High Availability-LAN
  - Includes software licenses for one active and one passive server
  - Pro-Watch server sold separately
- Pro-Watch High Availability-LAN 1 Year Software Updates
  - Includes software updates for Pro-Watch HA-LAN
- Honeywell SSA Support Contact

Hardware

- Two Pro-Watch Servers [Active and Passive Servers]
  - 2.8Ghz Xeon
  - 512MB RAM
  - 50 GB Hard Disk or higher
  - Two 100T (or higher) add-in Network Interface Cards per server or one 100T (or higher) add-in Network Interface Card and a 100T (or higher) built-in Network Interface Card per server Symmetric cards recommended
- Redundant Domain Controller Server
- Crossover Ethernet Cable

ORDERING

Pro-Watch High Availability (HA)-Local Area Network (LAN) Option – Software

PWHALAN	Pro-Watch High Availability-LAN
PWHALNYR	Pro-Watch High Availability-LAN 1 Year Software Updates (Includes software updates for Pro-Watch HA-LAN)

Pro-Watch High Availability (HA)-Local Area Network (LAN) Option – Hardware

PWHANIC	1 100T (or higher) Network Interface Cards
CAT5-3FT	Crossover Ethernet Cable

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Pro-Watch® + VISTA Integration

Integrated Access Control Solution

Pro-Watch® + VISTA integration is a new version of Honeywell's most comprehensive access control software. By combining the power of access control, digital video and intrusion into one powerful system, Pro-Watch + VISTA integration improves scalability, capability and control.

Pro-Watch + VISTA integration provides a single user interface that integrates access control with video and intrusion to create a more robust platform with increased functionality. Functions that have traditionally been tied together through physical relays and input devices are now controlled logically. This simplicity gives users greater control over their systems than they had using multiple software platforms and interfaces.

The ability to connect to remote systems will help integrators reduce service calls and increase response times. This is ideal for monitoring remote sites over long distances, as well as managing enterprise class systems from a global management and control center. Pro-Watch + VISTA integration simplifies the access process by allowing users to arm or disarm the system with a card. If a user is granted access to a building but does not have the authority to disarm the system, the integrated solution can deny access and therefore prevent a false alarm. This is an improvement over a typical non-integrated solution where devices are not aware of what other devices are doing.

FEATURES

- Integrate access control, digital video and intrusion using Honeywell's advanced DVM (Digital Video Manager) R200, Rapid Eye™ Multi-Media Series and Fusion DVRs, and VISTA-128FBP and VISTA-250FBP controllers
  – Arm or disarm with a card read
  – Record and play back access or intrusion events and alarms
  – Multiple camera control, including PTZ
  – Programmable camera presets
  – Synchronized video playback
  – Alarm video pop-up and user verification

- Unified access and intrusion tracking and compliance feature

- Real-time alarm/event monitoring
  – Control and response, including acknowledge, clear, annotate, live video, recorded video
  – Manual override, lock and unlock doors, shunt/unshunt zones and input points
  – Manual override of system functions
    - Lock and unlock doors
    - Arm/disarm partitions and zones
    - Bypass/un-bypass zones

  – Generate predefined or customized reports using easy templates
  – Schedule printed reports

- Video control interface to most popular matrix switchers

- Schedule guard tours

- Enhanced elevator control

- Global anti-passback processing

- Floor plans
  – Control devices
  – Floorplan linking
  – Acknowledge/clear alarms
  – Visual feedback

- Operating systems supported: Windows XP Professional SP2 and Windows 2003 Server

Pro-Watch® + VISTA Integration
Integrated Access Control Solution

BENEFITS

Seamless Integration

Pro-Watch + VISTA integration brings together Honeywell's Pro-Watch, DVM, Rapid Eye Multi-Media Series and/or Fusion, VISTA intrusion control panel and LobbyWorks™ Visitor Management System. The ability to integrate these technologies from one manufacturer now makes it easier for major enhancements to existing systems, or to significantly improve the operation of new security systems. This practically eliminates the confusion and compatibility issues brought on by different systems from many manufacturers.

Enhanced Security

The integration of Pro-Watch + VISTA to Honeywell's video platforms (DVM, Rapid Eye Multi-Media Series and Fusion DVRs) facilitates easy identification, retrieval and playback of events and alarms. Access or intrusion events can be used to trigger cameras or recordings, and users can view live video or easily retrieve video playback of access or intrusion events directly within Pro-Watch.

No Need to Retrain

Pro-Watch + VISTA integrates with Honeywell products that have been trusted by customers for years. Pro-Watch + VISTA, DVM, Rapid Eye Multi-Media Series or Fusion provide a familiar look and feel to existing installations and require little or no additional time for installation and programming.

Fast and Easy Setup

Setup is quick and easy using the Pro-Watch + VISTA quick start wizards. Wizards make programming simple by taking users step-by-step through installation and programming.

Increased Intrusion Function

Add Pro-Watch + VISTA to an existing VISTA-128FBP or VISTA-250FBP installation and take advantage of the powerful functionality of the software. Enhanced functions include graphical floor plans, customized report generation for intrusion events and user actions, real-time event and alarm reporting, and more.

INTEGRATED CAPABILITIES

Honeywell's innovative Pro-Watch + VISTA works with DVM, Rapid Eye Multi-Media Series and/or Fusion to combine leading products into a solution powerful enough to handle virtually any integrated security requirement. The unique combination of access control, video and intrusion also saves time and money by reducing training and labor.

Key Integration Features

- Grant access and disarm system on valid card read

- View live video from up to 16 cameras simultaneously

- Valid/invalid cardholder verification

- Arm/disarm video verification

- Pop-up video on access or intrusion function

- Live system control
  - Arm/disarm intrusion system
  - Multiple partition control
  - Bypass/un-bypass doors
  - Live camera view, including PTZ

- Logical devices automatically created during panel configuration

INTEGRATED CAPABILITIES (CONTINUED)

Key Integration Benefits

- Save time and money by managing three separate systems with one easy-to-use software interface.

- Improve the level of security by eliminating user code sharing. Increase security by using a unique card to disarm a system and grant access at the door.

- The Pro-Watch + VISTA software interface allows users to retrieve and play back alarms associated with intrusion and access control.

- Automated reporting allows users to send up-to-date reports on intrusion and access events hourly, daily, weekly or monthly.

- Reduce employee down-time by only requiring training on one system.

- Align Pro-Watch + VISTA integration with existing system needs for an added level of security.

- Expand to meet current and future needs. Start with access and add video or intrusion later as requirements change.

SUPPORTED INTEGRATION DEVICE S

Software
Pro-Watch
Release 3.7 PE/CE/EE

Intrusion
VISTA-128FBP
VISTA-250FBP

Compatible Systems

DVM R200

Access Controllers
PW-5000/PW-6000 Series

Video Systems

Fusion Series DVR

Rapid Eye™
Multi-Media Series DVR

Pro-Watch® + VISTA Integration
Integrated Access Control Solution

ORDERING

Software

PWPESW7	Pro-Watch PE Server Software - (1) Server License, (1) Concurrent User License, (1) Concurrent Badging License, (32) Readers' Licenses
PWCESW7	Pro-Watch CE Server Software - (1) Server License, (1) Concurrent User License, (1) Concurrent Badging License, (96) Readers' Licenses
PWVISTA	Pro-Watch® + VISTA Integration option

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Pro-Watch® Release 3.7 Corporate Edition

Security Management System

Pro-Watch® Release 3.7 Corporate Edition is designed to meet the needs of the most demanding security management applications. Corporate Edition operates in the Microsoft® Server and SQL environments and leverages the most advanced information management and network communications technologies available. Tailored for applications with at least two users and 96 doors, Corporate Edition systems can be expanded to an unlimited number of doors. Thanks to a common user interface and database, Pro-Watch systems can be seamlessly expanded to enterprise class systems. Based on the Pro-Watch 3.7 platform, Corporate Edition includes built-in software wizards that enhance system uniformity across sites, reduce installation time, and improve the overall learning curve for new users.

- Ease-of-use features accelerate system setup, configuration and deployment.
- Powerful change tracking and auditing capabilities facilitate compliance with growing regulatory compliance requirements.
- Multi-threaded three tier architecture fully exploits Windows Server 2003 multi-processor architecture.
- Honeywell Video Management System (HVMS) integration offers a completely new video experience—by providing a single command and control interface and by allowing video management of any analog and digital video device through a unified configuration and viewer.
- DVM R200 integration supports motion events, advance clip search capabilities, PTZ control and live video with MUX capability.
- Pro-Watch Corporate Edition allows seamless growth from 96 readers to a 20,000-door Enterprise System without ever having to change user-interfaces or learn a new application.

- Provides seamless integration with other third party facility management subsystems including CCTV, pagers, intercoms, biometric devices, and digital storage devices. Pro-Watch supports a "generic channel" capability that allows customized interfaces to previously unsupported third-party devices.
- Industry standard open architecture. Support for hardware protocols from a variety of manufacturers makes upgrading to Pro-Watch the economical choice.

Designed to meet the challenges of today's growing business, Pro-Watch combines the flexibility, scalability, and power required for world class security management without compromising simplicity.

Pro-Watch Tracking and Compliance
Pro-Watch™ Release 3.7 supports compliance tracking through digital signatures and "reason for change" tracking. The new tracking and compliance feature addresses the growing regulatory needs of the biotech, pharmaceutical and financial markets. Digital signature technology with audit history can track electronic records and verify that records have not been altered subsequent to the last tracked modification. Pro-Watch 3.7 tracking and compliance enforces:

- Full printed name usage
- Change management tracking "reason for change"
- Single and double "electronic signatures."
- Hardware configurations: panel, sub-panels, monitorable inputs, controllable outputs, and readers
- Database configurations: clearance codes, time zones, holidays, card access if used with secured panel, sub-panel, monitorable inputs, controllable outputs and readers.

FEATURES

- Integrated badge, hardware and permission wizards reduce the number of clicks required to configure and deploy a system
- Virtual video multiplexer displays multi-vendor video sources side by side
- Integrated to Honeywell Video Management System, Digital Video Manager (DVM) R200, Fusion and Rapid Eye (including V7) digital video systems
- Advanced video multiplexer that allows camera views from multiple channels to be displayed at once. The new multiplexer allows address higher than 16
- Multiple database partitioning allows system administrator to restrict access to sensitive information by User ID, providing higher levels of security

- Tracking and compliance feature offers electronic signatures and reason of change capabilities
- Integral Technologies DVX Series DVR integration
- Direct import of select versions of AutoCAD drawings with layer views reduce commissioning costs and time
- Supports Windows Server 2003®
- Multiple database processing uses the latest Microsoft database engine technology (OLE-DB)
- Global "Find" utility allows information to be easily accessed and recalled
- Operator keystrokes are reduced by using macros to combine operations into a single keystroke or mouse click

- 128-bit data encryption between host and PW-5000 access control panels
- Hand geometry template storage and administration through the Pro-Watch application Windows 2000 Terminal Services support
- Integrated badging and CCTV functions with a single user interface eliminate the need for multiple software/hardware packages and redundant data entry
- Flexible software licensing packages and hardware components allow the system to be tailored to individual customer needs
- Savable search templates are available for quick lookup of all system parameters
- Integrated real point status monitor allows for quick evaluation of point status

Pro-Watch® Release 3.7 Professional Edition

Security Management System

Pro-Watch® Release 3.7 Professional Edition is a security management solution for small to midsize applications. Enhanced with ease-of-use features, Pro-Watch Release 3.7 is designed to maximize value and decrease installation time. Built-in software wizards enhance system uniformity across sites, reduce installation time, and improve the overall learning curve for new users.

Professional Edition is based on the Pro-Watch 3.7 platform featuring native support for Honeywell's Digital Video Manager (DVM) R200 and advanced auditing capabilities. Professional Edition uses the Microsoft® Data Engine (MSDE) to provide a powerful solution for applications with one to five users and up to 64 entrances. Designed with future growth in mind, Professional Edition sites can be easily upgraded to global enterprise systems.

- Ease-of-use features accelerate system setup, configuration and deployment.

- Powerful change tracking and auditing capabilities facilitate compliance with growing regulatory compliance requirements.

- Multi-threaded three tier architecture fully exploits Windows Server 2003 multi-processor architecture.

- DVM R200 integration supports motion events, advance clip search capabilities, PTZ control and live video with MUX capability.

- Pro-Watch Professional Edition allows seamless growth from a two-door system to a 20,000-door Enterprise System without ever having to change user-interfaces or learn a new application.

- Provides seamless integration with other third party facility management subsystems including CCTV, pagers, intercoms, biometric devices, and digital storage devices. Pro-Watch supports a "generic channel" capability that allows customized interfaces to previously unsupported third-party devices.

- Industry standard Open Architecture. Support for hardware protocols from a variety of manufacturers makes upgrading to Pro-Watch the economical choice. Designed to meet the challenges of today's growing business, Pro-Watch combines the flexibility, scalability and power required for world class security management without compromising simplicity.

FEATURES

- Supports Windows Server 2003, Windows XP Professional Edition and Vista
- Integrated badge, hardware and permission wizards reduce the number of clicks required to configure and deploy a system
- Virtual video multiplexer displays multi-vendor video sources side by side
- Integrated to Honeywell Digital Video Manager (DVM) R200, Fusion and Rapid Eye digital video systems
- Integral Technologies DVX Series integration
- Hand geometry template storage and administration through application

- Multiple database partitioning provides a higher level of security by allowing the system administrator to restrict access to sensitive information by user ID
- Direct import of select versions of AutoCAD drawings with layer views reduce commissioning costs and time
- Multiple database processing uses the latest Microsoft® Database Engine technology (OLE-DB)
- Global search utility allows information to be easily accessed and recalled
- Integrated badging and CCTV functions with a single user interface eliminate the need for multiple

software/hardware packages and redundant data entry
- Search templates are available for quick lookup of all system parameters
- Macros combine multiple operations into a single keystroke or mouse click
- Integrated real-point status monitor allows for quick evaluation of point status
- Windows 2000® Terminal Services support
- 128-bit data encryption between host and PW-5000 access control panels

Pro-Watch® Release 3.7 Lite Edition

Security Management System

Pro-Watch® Lite Edition is a security management solution for entry level applications. Enhanced with ease-of-use features, Pro-Watch Lite is designed to maximize value and decrease installation time. Built-in software wizards enhance system uniformity across sites, reduce installation time, and improve the overall learning curve for new users. The Lite Edition is based on the Pro-Watch 3.7 platform featuring native support for Honeywell's Rapid Eye™ video solution. It uses the Microsoft® Data Engine (MSDE) to provide a powerful solution for applications with one to four users and up to 32 entrances. Designed with future growth in mind, Pro-Watch Lite sites can be easily upgraded to Professional, Corporate or Enterprise Edition.

- Ease-of-use features accelerate system setup, configuration and deployment.

- Powerful integration to Honeywell's Rapid Eye platform and built-in video MUX.

- Pro-Watch Lite allows seamless growth from a two-door system to a 20,000-door Enterprise system without ever having to change user-interfaces or learn a new application.

- Provides seamless integration with other third party facility management subsystems including video, pagers, intercoms, biometric devices, and digital storage devices. Pro-Watch supports a "generic channel" capability that allows customized interfaces to previously unsupported third-party devices.

- Designed to meet the challenges of today's growing business, Pro-Watch Lite combines the flexibility, scalability and power required for world class security management without compromising simplicity.

FEATURES

- Windows XP Professional Edition

- Integrated badge, hardware and permission wizards reduce the number of clicks required to configure and deploy a system

- Integrated to Honeywell's Rapid Eye digital video systems

- Hand geometry template storage and administration through application

- Multiple database partitioning provides a higher level of security by allowing the system administrator to restrict access to sensitive information by user ID

- Direct import of select versions of AutoCAD drawings with layer views reduce commissioning costs and time

- Multiple database processing uses the latest MSDE technology (OLE-DB)

- Global search utility allows information to be easily accessed and recalled

- Integrated badging and video functions with a single user interface eliminate the need for multiple software/hardware packages and redundant data entry

- Search templates are available for quick lookup of all system parameters

- Macros combine multiple operations into a single keystroke or mouse click

- Integrated real-point status monitor allows for quick evaluation of point status

- 128-bit data encryption between host and PW-5000 access control panels

Radar Video Surveillance (RVS)

Automated Detection, Tracking, and Video Response to Security Threats

Radar Video Surveillance (RVS)

Automates Detection and Tracking

The Honeywell RVS is a Wide Area Security System that integrates Radar, Automatic Identification System (AIS), Video, and Thermal Sensor data to provide the highest value wide area surveillance system available. RVS radar sensors automatically detect intruders in user defined Alarm Zones. Alarms are generated to alert security personnel, and PTZ cameras are directed to the intruder. Video is recorded and distributed over a Local Area Network, to provide both recorded history and real time situational awareness to facility personnel.

Increase Response Time and Reduce Workload

Because RVS automates detection, tracking, and alarming, based on your site's security plan, security personnel can perform tasks other than monitoring the detection system. When an alarm is received, personnel can identify the threat and make a security decision before it reaches the perimeter – increasing the response time to potential threats.

Turnkey System Integrates With Existing Infrastructure

Through integration with Honeywell's Digital Video Manager (DVM), RVS leverages the investment of your existing security infrastructure. RVS with DVM integrates with most CCTV cameras 'out of the box', allowing the use of existing PTZ cameras with the RVS system.

Deploys Radar and CCTV to Their Strengths

Other wide area solutions use CCTV for both detection and identification. Detection requires many cameras to cover a wide area, which are higher maintenance and are less effective than radar. By using a single radar for short or long range coverage up to 360°, RVS improves detection performance while reducing installation and maintenance costs. Once a threat is detected, RVS uses CCTV for what it is best suited for – identification.

Sensors	RVS Application	Security Systems
Maine Radar		EBI
Automatic Identification System		Pro-Watch
Ground Radar		DVM
Detect	**Track, Display, Prioritize**	**Respond**

About
Vindicator Security Solutions

Photo courtesy of U.S. Department of Defense.

Military, Federal and State Governments

Ports and Critical Infrastructure

Commercial

Industrial

Corrections

When the mission is critical… and the stakes are high… the world looks to Honeywell's Vindicator® Security Solutions for robust end-to-end site security.
With a rock-solid reputation and extensive experience securing mission-critical installations such as military bases, nuclear power plants, oil refineries and pipelines, Vindicator can meet the most rigorous specifications and challenging mandates.

Vindicator provides integrated security solutions—including intrusion detection, access control and video surveillance and assessment—designed to meet the most demanding requirements of some of the world's most challenging security applications. Built on the military-grade Vindicator security products, Vindicator's flexible, scalable solutions can be quickly and easily customized to exacting specifications at a single site or across an enterprise. Vindicator's open network architecture assures connectivity across a wide variety of communication and solution needs.

Vindicator is perfectly equipped to secure a wide range of applications across the military and government. Vindicator products are also certified by the National Institute of Standards and Technology for Triple Data Encryption Algorithm communication (TDEA, also known as Triple DES). These products have also been certified by the U.S. Air Force to secure facilities requiring up to Protection Level One (PL-1) Nuclear Status—one of the highest security levels attainable.

The Vindicator platform can facilitate simple operator terminals or elaborate command centers. Whether you need an ultra-simple operator interface or your specifications require a robust network configuration and administration platform, Vindicator has experience in meeting a wide variety of customer needs across many markets and in several languages, in countries around the world.

Photo courtesy of
U.S. Department of Energy.
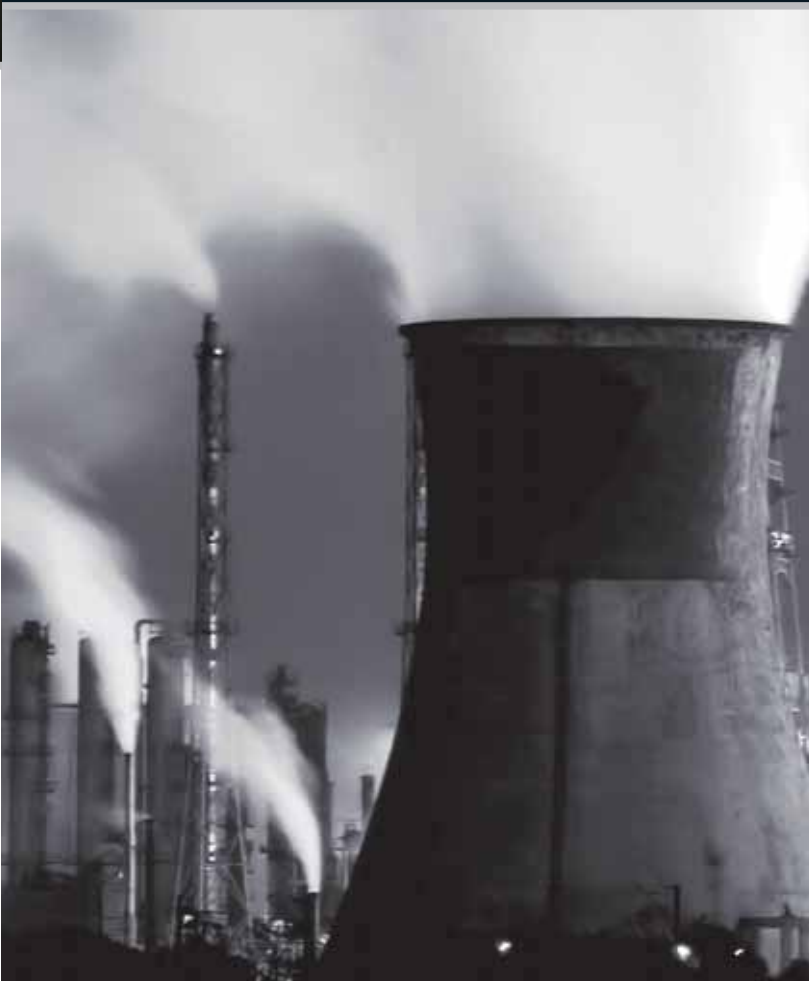
Honeywell solutions secure mission-critical sites, including the U.S. Strategic Petroleum Reserve.

Technology of High Security

Designed to military specifications

Intrusion sensors provide alarm and zone information for interior areas and exterior locations throughout the facility.

The Vindicator Command and Control (VCC) Platform is used to create security command and monitoring centers on or off site.

The Vindicator Communications Network (VCN) provides fast, encrypted, reliable communications over many different media (RS485, fiber, Ethernet, wireless, etc.).

Video assessment and surveillance solutions provide visual verification and recording around and within the facility.
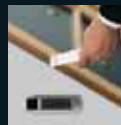
Electronic access control ensures that only authorized personnel gain access to restricted areas.
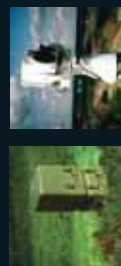
Radar and long range detection extend security out beyond the perimeter of the facility.

Vindicator solutions are created around an open network architecture and modular design providing maximum flexibility. Solutions include a series of intelligent devices that enable fast, encrypted and redundant transfer of security, fire and life safety and building automation data among devices and to security monitoring locations. Vindicator offers common embedded platforms, engineered and manufactured to the highest military specifications, delivering over 100,000 hours (11 years) mean-time-between-failure rate.

The LobbyWorks™ Visitor Management System provides automated visitor registration and electronic logging of visitors and contractors.
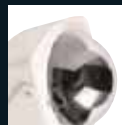
Perimeter intrusion detection sensors provide advanced warning of unauthorized access.

Customer
Solutions

Military, Federal and State Governments

Government and military customers turn to Vindicator to secure their site perimeters, provide electronic access control, and supply integrated video assessment solutions to deliver unmatched site protection. Vindicator solutions enable these customers to deploy their human resources more efficiently while providing higher overall site security levels.

Ports and Critical Infrastructure

Assets critical to national security require the best in protection and reliability. Vindicator delivers the mission-critical solutions these sites require helping to ensure economic continuity and decreasing risk from intrusion, vandalism and terrorism at sites such as dams, reservoirs, electrical generation and distribution facilities, water and food supply points, etc.

Commercial

Corporations today are working harder than ever to protect their most valuable assets—information, processes and people. Vindicator provides corporate security personnel with incredibly reliable solutions based on scalable, network-based solutions that leverage existing corporate communications infrastructure and result in lower total costs of ownership.

Industrial

Industrial facilities around the world trust Vindicator to meet their growing and demanding security needs. Power generation facilities and chemical plants, as well as petroleum production and storage facilities, use Vindicator. We protect their perimeters, control access throughout their facilities, and perform the video assessment that enables security personnel to react immediately to incidents.

Corrections

Vindicator helps minimize risk by supplying security, door control, visitor management and video surveillance solutions ensuring perimeter and interior passageways of these high-risk facilities are secure. By deploying Vindicator solutions, correctional facilities maintain higher levels of situational awareness, faster incident response and increased safety for their personnel.

Certifications and Approvals (Partial List)

U.S. Air Force Approved – (Protection Level 1 thru 4)

Nuclear and Non Nuclear

————

DCID 6/9 for Sensitive Compartmented Information Facilities

————

UL-1076/294/864

————

FIPS 46-3 (TDEA encrypted communications) by NIST

————

GSA Contract: GS07F9785H

Photo courtesy of U.S. Department of Defense.

Integrated Security System

V⁵ Access Control with Smart Card Technology

V⁵ Intrusion Detection

V⁵ Access Control

Vindicator Transponder

Vindicator Secure Access Panel

Radar Sensors

Video Assessment

Long Range Imaging

When it comes to managing and integrating facility access control, intrusion and perimeter detection, CCTV, fire alarms, life safety, and building automation, Vindicator provides an extremely adaptable enterprise solution for critically important and high-risk sites.

Data from sensors and systems can be transmitted on the Vindicator Communications Network among solution elements and to the command center over many different communication media (RS485, fiber, Ethernet, RF, etc.). These sub-systems can be integrated and expanded to provide a security solution for your particular site that has virtually unlimited capabilities.

Honeywell SmartPlus™

Designed to be the gateway between physical and logical security domains, SmartPlus™ enhances security, improves productivity, and minimizes errors — all through the coordination and management of data and events across an organization's mission-critical systems.

SmartPlus™ Convergence Solution

Pro-Watch® Physical Security Systems
(Access Control, Video, Visitor Management, Intrusion)

Benefits
- Real-time notification of personnel changes
- Elimination of paper processes results in significant cost savings
- Disabling of lost credentials in IT and functional systems to avoid security threats

SmartPlus Server

SmartPlus Data Engine

SmartPlus Badging

SmartPlus Identity Manager

SmartPlus Connector

SmartPlus Connector

SmartPlus™ Badging
(Photographs, Biometric Enrollment, Background Checks)

Benefits
- Web-based client platform
- Supports plug-ins for multiple biometrics data from ImageWare
- Single collection of live scan fingerprints for background checks and IT/physical security

SmartPlus™ Identity Manager
(Automated Workflows, Web Interface, Self-service, Compliance)

Benefits
- Self-service requests and status checks
- Web-based approval processes
- Single Web interface if organization links multiple applications to Web portal

PHYSICAL SECURITY

HR Systems
(PeopleSoft, SAP, Oracle)

Benefits
- Resume with current systems in use today
- Specify data to share with other systems automatically – reduces re-entry errors
- Send and receive data to other systems timely

IT Systems
(ActiveDirectory, Oracle, Lotus Domino, Exchange, MS-SQL)

Benefits
- Tested connections for more than 300 different systems
- Data transmissions tightly secured
- Integration to multiple systems, including Windows, Linux, or mainframe operating systems

IT ENTERPRISE SYSTEMS

Powered by
N
Novell. Identity Manager

"Honeywell SmartPlus simplifies the complex process of managing identity. And best of all, its open architecture lets you expand easily as your security needs grow."

- Security Director, Fortune 500 Company

SmartPlus™ connects to more than 300 different systems and offers multiple features for these modules: Integration Server, Connectors, Data Engine, Identity Manager, and Enrollment & Badging.
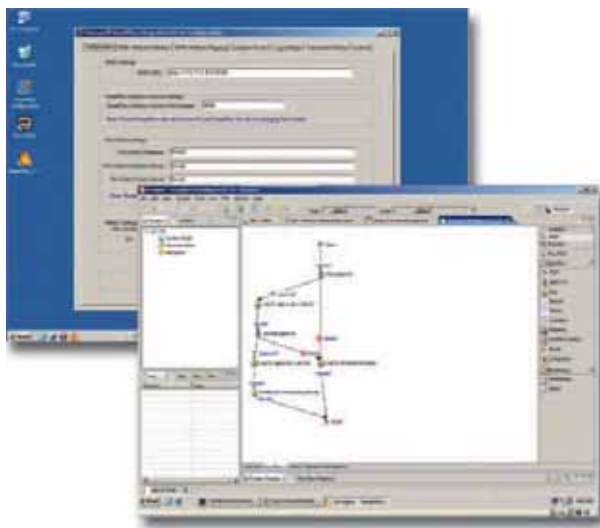
		Honeywell SmartPlus
Integration Server	PlusReal-time XML data exchange to Pro-Watch®	✔
	Multiple Pro-Watch Systems	✔
	Role-based access assignments	✔
	SSL connections	✔
	Multiple third-party system connections	✔
Connectors	Microsoft™ Active Directory™	✔
	ActivIdentity™ CMS Interface	✔
	Avaya™ PBX	✔
	IBM™ DB2™	✔
	IBM Tivoli™ Directory Server	✔
	JDBC interfaced systems	✔
	LDAP interfaced systems	✔
	Linux™ and Unix™	✔
	Lotus™ Domino™ (Lotus Notes™)	✔
	Mainframe and midrange systems	✔
	Microsoft™ Exchange	✔
	Microsoft SQL Server™	✔
	Microsoft Windows NT™ Domain	✔
	Novell™ eDirectory	✔
	Novell Identity Manager	✔
	ODBC interfaced systems	✔
	Oracle™ databases	✔
	PeopleSoft™	✔
	SAP™ (SAP certified connection)	✔
	SOAP interfaced systems	✔
	Sun™ Directory Server	✔
	Text-based interfaces (CSV, delimited, fixed width, etc.)	✔
	Other connectors	✔
Data Engine	Authoritative data controls	✔
	Multi-system, smart re-direction	✔
	Spans servers for traffic and high availability needs	✔
	Remotely load part of the connector for secure communications	✔
	Real-time provisioning and de-provisioning	✔
	Data transformations and formatting	✔
	Data continuity testing	✔
	Web-based administration tool	✔
Identity Manager	Graphical Workflow Design Tools	✔
	Support for non-provision-based processes	✔
	Web-based approvals	✔
	Escalation and back-up approver support	✔
	User self-service	✔
	Audit trails	✔
	Support for electronic digital signature signoffs	✔
	E-mail notification	✔
Enrollment & Badging	Web-based interface	✔
	Live scan fingerprint collection	✔
	Multiple biometric capture plug-ins	✔
	Certified by FBI for background check submittals	✔

Pro-Watch®

The Pro-Watch® platform offers a complete security management solution including access control, alarm monitoring, digital video, CCTV, video badging and visitor management functionality. Our innovative Pro-Watch solutions deliver advanced protection in a highly reliable package that is easy to operate, ensuring complete customer satisfaction. And now, the new Pro-Watch Release 3.7 is easier than ever to use. You'll get faster, more efficient, standardized results with its new wizards and shortcuts, user templates and help menus. Plus, you'll improve the profitability of a job by automating processes into a single keystroke or mouse click. It's that simple.

You can choose one of three Pro-Watch editions:

Professional Edition is an economical solution for small to mid-sized applications. Designed to operate efficiently without the requirement of a server-based operating system, it uses the Microsoft® Data Engine to provide a powerful solution for applications with one to five users and up to 64 doors.

Corporate Edition is designed to meet the needs of the most demanding security management applications — with at least two users and 96 doors you can expand to an unlimited number of doors.

Enterprise Edition lets you manage your enterprise-wide security system from a single point, while maintaining local operational autonomy.

THIS SECTION INCLUDES:

• **Pro-Watch Professional Edition Software and Systems**

• **Pro-Watch Corporate Edition Software and Systems**

• **Pro-Watch System Options**

• **Pro-Watch Starter Kits**

Pro-Watch®

SECURITY MANAGEMENT SYSTEM	
Order Number	**Product Description**
Pro-Watch Professional Edition Software	
PWPESW7	Pro-Watch PE Server Software* 1 Server License, 1 Concurrent User License, 1 Concurrent Badging License, 32 Reader License
PWPE7SWCL	Single Concurrent User Software License add-on**
PWPE7RDR32	32 Reader License add-on** In addition to the 32 standard readers; 64 reader maximum
PWPE7BADGEL	Single Concurrent Badging License add-on** *This includes license only, and requires a single concurrent license.*
Pro-Watch Professional Edition Systems	
PWPE7SA	Pro-Watch PE Stand-Alone Computer and Software* 1 Server License, 1 Concurrent User License, 1 Concurrent Badging License, 32 Readers License
PWPE7SYS	Pro-Watch PE Server Computer and Software* 1 Server License, 1 Concurrent User License, 1 Concurrent Badging License, 32 Readers License
PWPESYSCL	Client Computer *This does not include a license.*
PWPE7SWCL	Single Concurrent User Software License add-on**
PWPE7RDR32	32 Reader License add-on** In addition to the 32 standard readers; 64 reader maximum
PWPE7BADGEL	Single Concurrent Badging License add-on** *This includes license only, and requires a single concurrent license.*
PWPR7UPG	Pro-Watch Professional Edition Release 3.6 to Release 3.7 Upgrade**
Pro-Watch Corporate Edition Software	
PWCESW7	Pro-Watch CE Server Software* 1 Server License, 1 Concurrent User License, 1 Concurrent Badging License, 96 Readers License
PWCE7SWCL	Single User Software License add-on**
PWCE7SWCL5	5 User Software License add-on**
PWCE7SWCL10	10 User Software License add-on**
PWCE7SWCL15	15 User Software License add-on**
PWCE7SWCL20	20 User Software License add-on**
PWCE7RDR32	32 Reader License add-on** In addition to the 96 standard readers.
PWCE7RDR64	64 Reader License add-on** In addition to the 96 standard readers.
PWCE7RDR128	128 Reader License add-on** In addition to the 96 standard readers.
PWCE7RDR256	256 Reader License add-on** In addition to the 96 standard readers.
PWCE7RDR512	512 Reader License add-on** In addition to the 96 standard readers.

* Requires customer information form
** Add-ons require zipped up dongle read

Pro-Watch®

SECURITY MANAGEMENT SYSTEM	
Order Number	**Product Description**
Pro-Watch Corporate Edition Software (continued)	
PWCE7BADGEL	Single Concurrent Badging License add-on** *This includes license only, and requires a single concurrent license.*
PWCR7UPG	Pro-Watch Corporate Edition Release 3.6 to Release 3.7 Upgrade
Pro-Watch Corporate Edition Systems	
PWCE7SYS	Pro-Watch CE Server Software* 1 Server License, 1 Concurrent User License, 1 Concurrent Badging License, 96 Readers License
PWCESYSCL	Client Computer *This does not include a license.*
PWCE7SWCL	Single Concurrent User Software License add-on**
PWCE7SWCL5	5 User Software License add-on**
PWCE7SWCL10	10 User Software License add-on**
PWCE7SWCL15	15 User Software License add-on**
PWCE7SWCL20	20 User Software License add-on**
PWCE7RDR32	32 Reader License add-on** In addition to the 96 standard readers
PWCER7DR64	**64 Reader License add-on** In addition to the 96 standard readers
PWCE7RDR128	**128 Reader License add-on** In addition to the 96 standard readers
PWCE7RDR256	**256 Reader License add-on** In addition to the 96 standard readers
PWCE7RDR512	**512 Reader License add-on** In addition to the 96 standard readers
PWCE7BADGEL	**Single Concurrent Badging License add-on** *This includes license only and requires a single concurrent license.*
Pro-Watch System Options	
PWDBUT	**Pro-Watch Database Transfer Utility** Import/Export
PWINTSTENO	Pro-Watch interface to Stentofon Intercom System**
PWNT3CCTVAD	**Server License for American Dynamics CCTV Interface** 2050 Megapower
PWNT3EXECCTVBR	**Server License for Burle CCTV Interface** Allegiant Series
PWNT3EXECCTVPE	**Server License for Pelco CCTV Interface** CM9760
PWNT3EXECCTVVI	**Server License for Vicon CCTV Interface** VPS1300
PWNT3EXECCTVIN	Server License for Integral Technologies Digital Video Interface**
PBVC16	Video Capture Card Spectrim Lite, Flash Bus
PWHALAN	**Legato Failover for LAN with Media** Primary and secondary machines must be in the same subnet and less than six miles apart. The network requirement is a 100 megabit full duplex link between the primary and secondary machines. *Please contact your regional Sales Manager for special requirements.*

* Requires customer information form
**Add-ons require zipped up dongle-read

Pro-Watch®

SECURITY MANAGEMENT SYSTEM

Order Number	Product Description
Pro-Watch Corporate Edition Redundant Software	
PWCESW7-R	Redundant PWCESW Server & Dongle*
PWCE7SWCL-R	Redundant PWCE Single User License**
PWCE7SWCL5-R	Redundant PWCE 5-User License**
PWCE7SWCL10-R	Redundant PWCE 10-User License**
PWCE7SWCL15-R	Redundant PWCE 15-User License**
PWCE7SWCL20-R	Redundant PWCE 20-User License**
PWCE7RDR32-R	Redundant PWCE 32-Reader License**
PWCE7RDR64-R	Redundant PWCE 64-Reader License**
PWCE7RDR128-R	Redundant PWCE 128-Reader License**
PWCE7RDR256-R	Redundant PWCE 256-Reader License**
PWCE7RDR512-R	Redundant PWCE 512-Reader License**
PWCE7BADGEL-R	Redundant PWCE Badging License**
PWDBUT-R	Redundant PWCE DTU License**
PWINTSTENO-R	Pro-Watch interface to Stentofon Intercom System**

* Requires customer information form
**Add-ons require zipped up dongle-read

Pro-Watch®

SECURITY MANAGEMENT SYSTEM

Order Number	Product Description
Pro-Watch Corporate Edition Redundant Software (continued)	
PWNTEXECCTVAD-R	**Redundant PWCE AD CCTV License**** 2050 Megapower
PWNTEXECCTVBR-R	**Redundant PWCE Burle CCTV License**** Allegiant Series
PWNTEXECCTVPE-R	**Redundant PWCE Pelco CCTV License**** CM9760
PWNTEXECCTVVI-R	**Redundant PWCE Vicon CCTV License**** VPS 1300
PWNT3EXECCTVINR	Redundant PWCE Integral CCTV License**
Pro-Watch Professional System Upgrades: Professional to Corporate Edition	
UPG7PECE32R2U	**Upgrade from Professional Edition**** 32 Reader, 1 User and 1 Server to Corporate Edition
UPG7PECE64R2U	**Upgrade from Professional Edition**** 64 Reader, 1 User and 1 Server to Corporate Edition
UPG7PECE32R3U	**Upgrade from Professional Edition**** 32 Reader, 2 Users and 1 Server to Corporate Edition
UPG7PECE64R3U	**Upgrade from Professional Edition**** 64 Reader, 2 Users and 1 Server to Corporate Edition
UPG7PECE32R4U	**Upgrade from Professional Edition**** 32 Reader, 3 Users and 1 Server to Corporate Edition
UPG7PECE64R4U	**Upgrade from Professional Edition**** 64 Reader, 3 Users and 1 Server to Corporate Edition

*Requires customer information form
**Add-ons require zipped up dongle-read

Controllers and Communication

Honeywell offers the PW-Series Modular Control System as an advanced, fully integrated access control hardware architecture capable of providing solutions for large enterprise applications. The Intelligent Controller family consists of the PW-6000, PW-5000 and PW-3000. The PW-6000 is the latest platform to be introduced with embedded Ethernet and a Web server for configuring the hardware attributes of the controller. Because the new PW-6000 Intelligent Controller is designed to operate without the need for a PC, it makes assessments of access control events independently of a PC or other controlling devices.

The PW-6000 Intelligent Controller can also be connected to a host computer for system configuration, alarm monitoring, and direct control using direct serial communication, dial-up modem, or TCP/IP network connection.Freescale ColdFire 5282 processor has 32 MB RAM and 16 MB flash with integrated Ethernet for faster downloads and less configuration time. Embedded Web server for configuring key hardware attributes previously selected by other methods, which allows for faster integration, start up, and troubleshooting.

THIS SECTION INCLUDES:

• **PW-Series Controllers**

• **PW-Series Controller Accessories**

• **STAR Series Controllers**

• **STAR Series Controller Accessories**

• **PW-Series Complete Starter Kits**

• **PW-Series Two-Door Add On Kits**

Controllers and Communication

INTELLIGENT CONTROLLERS AND ACCESSORIES	
Order Number	**Product Description**
PW-SERIES CONTROLLERS PW-3000	
PW-3000, PW-5000 and PW-6000 Intelligent Control Systems	
PW3K1IC	PW-3000 Intelligent Controller 16 I/O and/or reader boards combined
PW3K1EN	PW-3000 Intelligent Controller Ethernet Daughter Board For PW3K1IC only.
PW5K1IC	PW-5000 Intelligent Controller 32 I/O and/or reader boards combined
PW5K1EN	PW-5000 Intelligent Controller Ethernet Daughter Board *For PW5K1IC only.*
PW6K1IC	PW-6000 Intelligent Controller 32 I/O and/or reader boards combined. *Includes onboard ethernet device.*
PW5K1IN	PW-Series 16 Input Module
PW5K1OUT	PW-Series Relay 12 Output Module
PW5K1R1	PW-Series Single Reader Module For PW5K1ENC4 and 12V readers only.
PW5K1R2	PW-Series Dual Reader Module *Includes 2 inputs/2 outputs per reader board.*
PW5K1M4	3MB Memory Expansion Module 4MB total for up to 72,000 card holders for PW5K1IC and PW3K1IC
PW5K1M8	7 MB Memory Expansion Module 8MB total for up to 157,000 cardholders for PW5K1IC only
PW5K1MX8	PW-5000 Series 8-Port Multiplexer
PW Series Controller Enclosures and Accessories	
PW5K2ENC1	PW-Series High Density Enclosure *Power Supply, Daisy Chain Cable and battery not included.*
PW5K2ENC2	PW-Series High Density Enclosure For 19" rack installations. *Power Supply, Daisy Chain Cable and battery not included.*
PW5K1ENC3	PW-Series Remote Enclosure Includes plug-in 110V Transformer, power supply and battery
PW5K1ENC4	Single Reader Enclosure Includes plug-in 110V Transformer, power supply and battery
PW5K1DCC	PW-Series Daisy Chain Cable Use with PW5K2ENC1 and PW5K2ENC2
PW-SERIES CONTROLLERS ACCESSORIES	
PW-Series Systems	
PWEL2	Etherlite Terminal Server 2 Pins and Shells sold separately.
PWEL8	Etherlite Terminal Server 8 Pins and Shells sold separately.
PWEL16	Etherlite Terminal Server 16 Pins and Shells sold separately.

Controllers and Communication

INTELLIGENT CONTROLLERS AND ACCESSORIES

Order Number	Product Description
PW Series Systems (continued)	
PWEL32	Etherlite Terminal Server 32 Pins and Shells sold separately.
NTEXPC9	RJ45 and 9-pin cable assembly
NTEXPC25	RJ45 and 25-pin cable assembly
PW5K1CVT1	PW-5000 Series RS-485 to RS-485 Converter
PW5K1ENSP	PW Series Ethernet Surge Suppressor
M-56K	Dial-up Modem
CBL-2	Cable for M-56K
SPX-2-W	Wiegand Reader Extender Requires 8-24vdc power, 1 each HPS123 or HPS125
Power Supplies/Suppressor Kits	
X-4	16.5 VAC 50VA Transformer 110V only, for use with PW-2000 panels
PS-220/Transformer	16.5 VAC / 220VAC For N-1000-III/IV, NS2, NS27, NX4S1 and replacement tranformer for PS-1-12E.
PW5K1E5PS	External Power Supply For UL1076 installations.
PW5K2E2PS	Power Supply for PW5K2ENC1 and PW5K2ENC2 high density enclosures
HPS123	12 VDC 2.5 Amp Power Supply Includes battery, enclosure and transformer.
5VRDREG	5VDC 100MA Converter from 12VDC For use with PW5K1R1 Single Reader Board.
PS1-24E	24 Volt 2.5A Power Supply Battery, enclosure and open frame transformer not included.
712BNP	12 Volt 7 AMP Battery
S-4	Suppressor Kit For outputs providing proper protection against electrical spikes.

Digital Video Manager

Honeywell's Digital Video Manager (DVM) R200 is a software-based, digital CCTV security solution that provides a new standard in cost effective, flexible video surveillance. DVM R200 is tightly integrated with Pro-Watch Security Management Software to provide seamless alarm and event activated recording, ensuring that the video you capture is the video you need. With the power of digital recording, all images are stored in a quickly searchable database, meaning you will never have to waste time searching through old videotapes. By harnessing the power of digital video recording and IP-based networking and combining it with the flexibility of an open architecture solution, Honeywell has created a video management solution that improves efficiency by utilizing your existing enterprise communications network and CCTV infrastructure.

Honeywell DVM intelligently captures video, utilizing video motion detection for activation of recordings and initiating alarms. Incidents that take place prior to the alarm are also recorded, ensuring you never miss vital events.

For enhanced security, all video is digitally signed with a complete audit trail of all operator actions and system events.

THIS SECTION INCLUDES:

• **Digital Video Manager (DVM) R200 Software**

• **Digital Video Manager (DVM) R160 Software**

Digital Video Management

DIGITAL VIDEO SOLUTIONS	
Order Number	**Product Description**
DVM R200 SOFTWARE	
DVM R200 Integration with Pro-Watch 3.7 Security Management System	
DVMSWR200	DVM R200 Base Software with 4 Camera Licenses* CD and hardcopy manual not included.
DVMR200-KIT	DVM R200 Hardcopy Documentation, Software CD, packaging
DVMR200-DOC	DVM R200 Hardcopy Documentation
DVMR200-CD	DVM R200 Software CD
DVMCAM1	1 Camera License**
DVMCAM1-UPG	1 Upgrade License per camera in existing system for major releases**
DVMIE1	1 Internet Explorer Browser Client License**
DVMCAL1	1 SQL CAL Client License**
DVMRDN	1 Redundant Database License per camera**
DVMPVMD	1 Premium Video Motion Detection per system**
DVMOBJTRACK	1 Object Tracking Algorithm per channel**
DVMOBJCLASS	1 Object Tracking and Classification per channel**
DVMNONMOTION	1 Non Motion Detection per channel**
DVM-HNVE	1 HNVE130A Adapter per system**
DVM-AXISMPEG4	1 Axis MPEG4 Adapter per system**
DVM-RAPIDEYE	1 RapidEye Adapter per system**
DVM-CAMSTATION	1 Cam Station Interface per system**
DVM R160 SOFTWARE	
DVM R160 Integration with Pro-Watch 3.6 Security Management System	
DVMSWR160	DVM R160 Base Software with 4 Camera Licenses* CD and Hardcopy manual not included.
DVMR160-KIT	DVM R160 Hardcopy Documentation, Software CD, packaging
DVMR160-DOC	DVM R160 Hardcopy Documentation
DVMR160-CD	DVM R160 Software CD
DVMCAM1	1 Camera License**
DVMIE1	1 Internet Explorer Browser Client License**
DVMCAL1	1 SQL CAL Client License**
DVMRDN	1 Redundant Database License per camera**
DVMPVMD	1 Premium Video Motion Detection per system**

* Requires customer information form
**Requires existing system number to complete the purchase order.

Digital Video Manager

ENTERPRISE IP-BASED VIDEO SYSTEM

Honeywell's Digital Video Manager (DVM) R200.1 is a scalable, enterprise class IP-based digital video system. Digital video over IP networks has many advantages to traditional analog CCTV systems. This includes advantages to both end-users and installers. For end-users, customers are able to access relevant video and events instantly, manage the digital system, and integrate access or building control from geographically disperse locations. For installers, standard IT hardware and TCP/IP infrastructure helps to streamline the installation process.

DVM is the next step in digital video technology because it is a Network Video Recorder (NVR). An NVR is different from a DVR in that it uses software to transform standard IT equipment and component digital video sources into a customized and manageable video system for security or surveillance needs. For example, you can add an unlimited number of camera servers to enable monitoring as many cameras as necessary.

DVM provides the added benefit of an open architecture that allows for M-JPEG, MPEG-2, or MJPEG-4 video to be viewed live, recorded, archived and exported. This architecture is designed to protect your investment today while allowing you to incorporate tomorrow's technology. DVM can be used to upgrade existing CCTV investments or as a new digital video installation. DVM supports a wide range of digital video sources from stand alone digital encoder to native IP-based fixed and PTZ cameras.

In addition to the evolution to digital video, DVM enables the revolution of video analytics. With the proliferation of video data and the need to better manage it, video analytics will provide relevant data on demand. The technology to perform motion detection outdoors, object tracking, and object tracking with classification is here today and tightly integrated with DVM.

Marketing Opportunities

Honeywell's DVM offers flexible manageability through its scalable, enterprise architecture. The open architecture enables geographically distributed IP Video systems to be managed centrally or remotely. DVM also integrates seamlessly with other enterprise products, such as access control and building management systems. Users such as university campuses, airports, manufacturing facilities, and corporate facilities are using DVM to leverage their existing IT equipment and expertise to manage video security.

Accessory Solutions

Digital Video Manager

ENTERPRISE IP-BASED VIDEO SYSTEM

Features

- Compression Agnostic (M-JPEG, MPEG-2, MPEG-4)
  - -Supports Rapid Eye Live View
  - -Supports Honeywell Encoder, HNVE130A
  - -Frame rate (30FPS) and resolution (4CIF) performance up to what the hardware supports
  - -Supports encoder and wide range of network cameras through partnership with Axis Communications
  - -Ability to customize digital video bandwidth
  - -PTZ control
- Advanced Recording Capabilities – possible to configure the quality level of each type of recording independent of the Live View
  - -Background 24x7
  - -On alarm/event
  - -Operator initiated
  - -Pre and post recording
  - -Intelligent management of recordings
  - -Secure video clip export with digital signature
- Powerful Search Capabilities - search recordings based on cameras, event trigger, date, time, annotation

- Advanced Video Analytics – works with color, black and white, IR and FLIR video sources
  - -Outdoor motion detection
  - -Object tracking
  - -Object tracking and classification
- High Availability
  - -RAID 5 storage
  - -Automatic archiving of recordings to longer term media
  - -Redundant database using replication
  - -Ability to move camera assignments from server to server dynamically
- Security
  - -Microsoft Windows® security measures
  - -Ability to designate user access and configuration privileges
  - -Capable of auditing all events and user actions within the system to a log file
- Integrates with Honeywell Building and Access Control Systems
  - -Experion, EBI, and ProWatch

Integrates with Campus Environments

Integrates with Airport Facilities

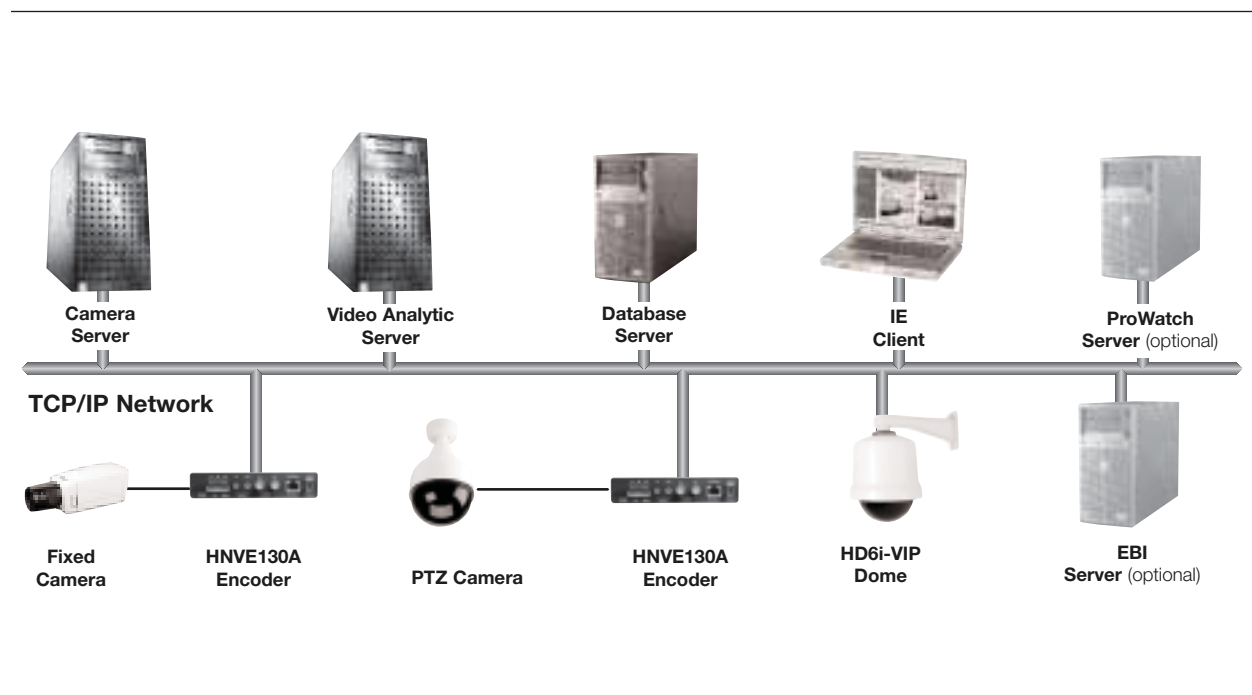**Integrates with Commercial Buildings**

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System Architecture

In the Honeywell Digital Video Manager System, there are three major functional services provided. The first is a DVM camera server that receives, stores, and serves video back up to a client. The second is a DVM database server that manages the camera servers, video clients, IP video sources, and all other system components. A DVM system can have 1 or 2 database servers (if redundant) and as many camera servers as necessary to accommodate the number of cameras. The third is an optional video analytics server that is solely designed to analyze live video and to trigger events within the system when user programmed criteria are met. The DVM system can be accessed by any PC with Microsoft Internet Explorer and the proper user rights. In an integrated system, DVM can also communicate to many other Honeywell Enterprise management applications such as EBI, Experion, and ProWatch.

System Architecture Diagram

Camera Server — **Video Analytic Server** — **Database Server** — **IE Client** — **ProWatch Server** (optional)

TCP/IP Network

Fixed Camera — **HNVE130A Encoder** — **PTZ Camera** — **HNVE130A Encoder** — **HD6i-VIP Dome** — **EBI Server** (optional)

Application and Selection Guides

Honeywell's wide assortment of products allows dealers to tailor a complete access control system for any facility. A basic Honeywell access control system includes controllers, readers, credentials, power supplies, cables, monitor input and relay output units, and other components. Intermediate and advanced systems use an integrated security management system that networks multiple controllers into a single security network and provides operators the ability to monitor and control system activity through a computer located in a local or remote security station.

This section provides basic instructions on how to configure a Honeywell access control and security management system and includes a product compatibility matrix to aid in selecting compatible components for your systems.

THIS SECTION INCLUDES:

• Configuring a Honeywell Integrated Security System

• Product Compatibility Matrix

• How to Order a Honeywell UL294/UL1076 System

Application and Selection Guides

CONFIGURING A HONEYWELL INTEGRATED SECURITY SYSTEM

Honeywell's wide assortment of products allows Honeywell Integrators to tailor complete access control and security management solutions for any facility, without having to shop for compatible systems and components from multiple manufacturers. Use the Honeywell Product Compatibility Matrix and follow the nine steps below to get started.

> **NOTE:** The information provided in this section is presented as a general guideline only and is not intended to provide complete instructions on configuring a Honeywell Access control and security management system. The specifications and features listed as comparisons here are subject to change as Honeywell continues to further enhance its systems. For the latest specifications and features for all Honeywell products, please contact your Honeywell RSM, or visit us on the Web at **www.honeywellintegrated.com**. Select **RESOURCES & SUPPORT** on the menu, and choose the **PRODUCT MATRIX** option.
>
> **NOTE:** In effort to constantly improve our products and due to the complexity and factors influencing readers and credentials, the Compatibility Matrix for these products are located on our website.

STEP 1: Do I need a security management system?

When configuring a system, first determine whether your end-user needs a security management system to administer, monitor, and/or control activities that will take place in an electronic access control system. To determine whether a security management system is necessary, you must first answer the following question:

Will the application require:

☐ **Networking two or more controllers?**

☐ **Operator monitoring and control of activity taking place in the access control system network?**

If the answer is YES to either of the above, you must integrate a security management system with your access control system.

STEP 2: What Pro-Watch® Security Management System is appropriate for the installation?

Honeywell's Pro-Watch Security Management suite has the right security solution to fit your needs. To determine which security management system is the best fit for the installation, you need to decide the level of complexity and the degree of integration that will be required now and in the future. Use the following two statements as a basic guideline for which security management system is best suited for an installation:

Choose one of the following:

☐ **Entry-level to intermediate applications - Require low to medium levels of complexity and limited integration of applications; use Pro-Watch Professional Edition.**

☐ **Intermediate to high-end applications - Require medium to high levels of complexity, maximum flexibility of integrated applications, and maximum expansion potential should consider Pro-Watch Corporate and Enterprise Editions.**

Which Edition Best Fits Your Needs?

OPERATION SYSTEM

PROFESSIONAL	Microsoft® Data Engine	1 - 5 Users 64 Entrances 35 - 40 Doors
CORPORATE	SQL Server	2+ Users Unlimited Doors
ENTERPRISE	Multiple Servers	Unlimited Users and Doors

Application and Selection Guides

STEP 3: Do you plan to expand your system in the future?

When deciding which version of Pro-Watch best suits the needs of your application, it is important to consider future needs. If your future needs may exceed the capabilities of an intermediate system, you should consider integrating a high-end system now.

> **NOTE:** Microsoft® SQL 2000 Server is supported by all versions of Pro-Watch. Consult the factory for current supported Microsoft® version. For current specifications, please call your Honeywell Regional Sales Manager or visit us on the Web at www.honeywellintegrated.com.
>
> **NOTE:** A configuration diagram is required in all security management systems.
>
> **NOTE: A Customer information form is required for all security management systems. A sample customer information form located in the additional information section.**

STEP 4: Become familiar with the Product Compatibility Matrix

The Product Compatibility Matrix shows which products can be used with Honeywell controllers. Compatible systems and components are marked with an X in the adjoining rows and columns.

To find the compatible components for a controller:
- Identify the controller that best suits the end-user's needs, making sure to consider future expansion.
- Follow that controller's column until you find an X; every X identifies a compatible system or component.

STEP 5: Select the contoller that best meets the needs of the installation

Select the controller that best meets the needs of the installation

- Determine the controller you want to use in your electronic access control system.
- Follow the controller column to determine the compatible readers, credentials and accessories.

STEP 6: Select the proper reader boards and input/output modules compatible with your controller

- Determine the number of boards needed based on the number of doors in your system.

STEP 7: Select the power supply desired for the access system selected

Select the power supply desired for the access control system selected

- Determine the power supply that matches your controller system.
- Take into account your reader choice in selecting additional power supplies as necessary.

STEP 8: Select the cable/wiring for the system

Select the cable/wiring for the system

- Review the data sheet (or cut sheet) for the controller to determine the correct cable or wiring for your system. Datasheets can be found on the Web at www.honeywellintegrated.com. Select the PRODUCTS menu, and scroll to bottom of page to view and download product-specific literature.

STEP 9: Select the readers that best match the application

Select the cable/wiring for the system

- Determine the proper reader that is compatible with the credential for your system. You can view the cards and readers product matrix on the Web. Select **RESOURCES & SUPPORT** on the menu, and choose the **PRODUCT MATRIX** option.

> **NOTE:** Honeywell controllers typically support multiple technologies. This allows Integrators to meet the specific needs of each application by deploying reader technologies and features that suit each door's requirements.

Application and Selection Guides

PRODUCT COMPATIBILITY MATRIX*

CONTROLLER	STARII	STARI	PW5000 PW6000	PW3000	PW2000	4108	4104	818S	818SC	808S	808SN	808SX
SECURITY MANAGEMENT SYSTEMS												
Pro-Watch Professional (Version R5 or Higher)	X	X	X	X	X	X	X	X	X	X	X	X
Pro-Watch Corporate (Version R5 or Higher)	X	X	X	X	X	X	X	X	X	X	X	X
Pro-Watch Enterprise (Version R5 or Higher)	X	X	X	X	X	X	X	X	X	X	X	X
Manager V3.11	X	X				X	X					
MONITOR INPUT AND RELAY OUTPUT OPTIONS												
92410034840 WIRO 4/8/4	X	X				X						
92410025200 MIRO 4/2	X	X				X	X					
92410020000 MIRO 16/8	X	X				X						
92410026000 MIRO 32/0	X	X				X						
92410027000 MIRO 2/16	X	X				X						
92774001000 774 (obs)								X	X	X	X	X
92774003000 774A (obs)								X	X	X	X	X
92778000000 778 (obs)								X	X	X	X	X
92778001000 778A (obs)								X	X	X	X	X
COMMUNICATION DEVICES												
92200010000 CI-1						X	X	X	X	X	X	X
92580020000 CI-8 (obs)						X	X	X	X	X	X	X
92043020000 NexLine	X	X	X	X		X	X		X			
92043060000 NexLine plus	X	X				X						
92043051001 NexStar	X	X	X	X		X	X		X			
PW5K1MX8			X	X								
PW5K1CVT1			X	X								
PW-485-PCI-B					X							
N485PCI2L					X							
F290D					X							
FC485			X	X								
SPX-2-W			X	X	X							
ENCLOSURES												
PW5K2ENC1			X	X	X							
PW5K1ENC3			X	X	X							
PW5K2ENC2			X	X	X							
92410086000 Lrg Enc	X	X				X	X					
POWER OPTIONS												
92410024055 PI-LC	X	X				X	X					
92902031000 PI-1 (115V)	X	X				X	X					
92902032000 PI-2 (230V)	X	X				X	X					
3018 –01 (110V) (obs)								X	X	X	X	X
3718S (obs)								X	X	X	X	X
3718SUL (obs)								X	X	X	X	X
HPS123			X	X	X							
5VRDREG			X	X	X							
712BNP	X	X	X	X	X	X	X	X	X	X	X	X
NETWORK CONNECTIVITY DEVICES												
92410000020 Micro Cobox	X	X		X								
92000151000 Cobox UTS	X	X										
PW5K1EN			X									
PW3K1EN				X								
LANSRLU1			X	X	X							

* Please visit www.honeywellintegrated.com for latest product compatibility matrix, including readers and new products.

Application and Selection Guides

HOW TO ORDER A HONEYWELL UL294/UL1076 LISTED SYSTEM

UL294

Underwriter's Laboratories (UL) 294 standard for Access Control Units applies to the construction, performance and operation of systems intended to regulate or control entry into an area, or access to the use of a device (or devices) by electrical, electronic or mechanical means. This standard defines the performance level required for all systems receiving the UL294 Listing. Honeywell has three systems that have received the UL294 rating.

- PW-5000 Series UL294 Listed system
- PW-3000 Series UL294 Listed system
- STAR Series UL294 Listed system

Ordering a UL294 System

When ordering a UL294 Listed Control System, please be aware of the following requirements necessary to meet UL294 Listing:

- Any equipment installed with the UL294 system must be UL Listed and tested by UL for compatibility with the Access Control panels.

- Equipment must be installed in a Honeywell UL294 Listed enclosure, even when enclosures are offered as an option. For example: The PW-5000 can be ordered without enclosure, but it must be installed in a UL294 Access Control Subassembly Listed enclosure to retain the UL294 listing.

- Equipment must be installed according to the specifications outlined in the listed unit's installation guide.

- Any device not included in the approved list and attached to a UL294 system voids the UL listing if it is not a UL294 Listed Subassembly component. However, Honeywell or UL does not guarantee compatibility with a device not on the Honeywell approved list.

Approved Equipment for Honeywell PW-Series

Manufacturer	Approved Equipment	Part Numbers
Honeywell	PW-5000 Intelligent Controller	PW5K1IC
Honeywell	PW-3000 Intelligent Controller	PW3K1IC
Honeywell	PW-Series Enclosures	PW5K2ENC1 / PW5K2ENC2
Honeywell	PW-Series Daisy Chain Cable	PW5K1DCC
Honeywell	PW-Series Power Supply	PW5K2E2PS
Honeywell	12VDC 7 AH Sealed Gel Cell Lead-Acid Battery	712BNP
Motorola®	PR-ASR-603	Proximity
HID	30387	Swipe
HID	Mini-Prox	Proximity
ADEMCO	AYE10	Proximity
Essex Electronics	KTP-103-SN	12 Position Keypad
Honeywell	PW-Series Input Module	PW5K1IN
Honeywell	PW-Series Relay Output Module	PW5K1OUT
Honeywell	PW-Series Remote Enclosure	PW5K1ENC3
Honeywell	PW-Series Memory Expansion Modules	W5K1M4 / PW5K1M8

Application and Selection Guides

NEXSENTRY STAR® SERIES UL294 SYSTEM

Required Equipment:

- NexSentry STAR Series Controller: STAR I - 92410250020; STAR II - 92410250030
- Large cabinet - 92410086000
- Power Supply UL-PS, AS/PS5-BFS-24-UL

The following readers were evaluated with the STAR I controller:

- Westinghouse DigiReaders Models: DR4205, DR4208, and VIP2 Keypad
- Westinghouse Magnetic Stripe Reader Models: MSR42, MSRK42, MSR5, and MSRK5
- Obsolete Readers: DR4204, DR4205E, DR4208S

The following readers were evaluated with the STAR I and STAR II controllers:

- Honeywell DigiReader Models: DR4201, DR4203, DR4205, DR4205K, DR4208, and DR4220

Optional Equipment:

- Optional EDP Listed Compatible Computer, Monitor, and Keyboard for programming or system monitoring
- NexStar
- NexSentry MIRO 4/2, 2/16, 32/0 and WIRO 4/8/4

UL1076

Underwriter's Laboratories (UL) 1076 standard for Proprietary Burglar Alarms applies to the construction, performance and operation of equipment intended for use in proprietary burglar alarm units and systems used to protect against burglary. These products are normally intended for indoor use.

A proprietary burglar alarm system as referred to by these requirements is a system in which alarm initiating circuits and devices are installed at a property and are connected directly or indirectly to constantly monitored receiving equipment at a central supervising station. The central supervising station is located at the protected property and intended for operation by personnel responsible to the owner of the protected property. The protected property may consist of a single property or of noncontiguous properties under a single ownership. The system is arranged so that a predetermined change in the alarm initiating circuits or devices automatically causes transmission of an alarm signal over a supervised signaling channel to the central supervising station.

The PW-Series is certified as compliant with the specifications of the Advanced Encryption Standard (AES) for FIPS 197 implementations and Recommendations for Block Cipher Modes of Operation (SP800-38A 2001 ED), as identified by the National Institute of Standards and Technology (NIST) and the Communications Security Establishment (CSE). The PW Series performs AES in Electronic Codebook and Cipher Block Chaining modes of operation to encrypt and decrypt using 128 bit keys.

There are two Honeywell systems that are UL1076 listed:

- PW-5000 Series UL1076 listed system
- PW-3000 Series UL1076 listed system