PRO-WATCH® 5.0

Connected Building Platform

> **Honeywell's Pro-Watch® software is a connected building platform for enterprise and critical infrastructure customers.**

Pro-Watch helps you meet the most stringent compliance requirements for your industry, and it reduces your total cost of ownership by increasing operator productivity with superior flexibility and scalability.

Integration with access control and video systems from Honeywell and third-party manufacturers makes it possible to leverage existing installed hardware as the system expands. Modular hardware and software options make it easy and cost-effective to expand a system to keep up with growing business needs.

Pro-Watch Intelligent Command is a web-based common user interface that provides valuable enhancements to security system. These ensure compliance with stringent industry regulations. For instance, Intelligent Command enables operators to respond rapidly and effectively to alarms or incidents by providing a Standard Operating Procedure (SOP) that shows the process that should be followed. This reduces both compliance exceptions and security risks. This web interface offers components such as: Badging, Reporting, Alarm Monitoring, Admin Module, Events Module, Enterprise Module, Maps Module, Incidents Module, Maintenance Module, Firmware Upgrade, and Password Change.

Pro-Watch streamlines tasks with a common user interface to improve operator effectiveness and help organizations minimize training costs.

Pro-Watch provides comprehensive options for audit and reporting to address forensics, compliance and business intelligence data mining needs. The Reporting application includes basic report templates and the capability to generate custom reports. Reports can be exported as XLS, CSV and PDF formats.

Pro-Watch provides a solid and proven platform for an intelligent business management solution. It is successfully deployed in enterprises of many sizes and across various vertical applications such as manufacturing facilities, campuses, government facilities and critical infrastructure.

PERFORMANCE FEATURES AT A GLANCE

- Web Based Client for Badging, Reporting, Alarm and Event Monitoring
- Mobile Client for Badging, Badging Verification, and Door Control
- Server support including Windows® Server 2012/2016/2019, Windows 10 (32-bit and 64-bit), SQL Server 2012/ 2014/ 2016/2019
- Single user interface for multiple security and business functions
- Honeywell Software Development Kit (HSDK) and Pro-Watch can be integrated with other building systems such as secondary fire, lighting and heating, ventilation, and air conditioning

- Web Services API enables Integration to third-party systems and Active Directory
- Certification Management
- Event/action associations including sending emails, running a stored procedure, or triggering a panel I/O point
- Pro-Watch-level triggered events for panel-to-panel and panel-to-software actions or within a panel for local actions
- Advanced Reports
- Support for Microsoft Azure
- Virtualization support for VMWare and Microsoft® Hyper-V

- Compliance Reports that offer data and statistical reporting; auto generated reports upon schedules
- Easy system setup and maintenance with user definable hardware templates
- Database partitioning and definable operator permissions
- Mercury M5 (CASI) and MS Bridge (Software House) Controller
- Lite, Professional, Corporate and Enterprise editions

Honeywell

SMALL SYSTEMS: PRO-WATCH LITE AND PRO-WATCH PROFESSIONAL EDITIONS

Pro-Watch Lite Edition (PWLT) and Pro-Watch Professional Edition (PWPE) are optimized for the needs of smaller security systems.

These editions leverage Microsoft® SQL Express 2016 (included), so the server can be accommodated on either a workstation for a single PC or on a separate server.In either case, additional clients may be connected to the server up to supported limits. Refer to the specifications guide on page 5 for more details.

Pro-Watch Lite Edition offers basic functionality for the small office and features Pro-Watch PW Series access controllers. Additional client licenses can be added as needed up to a total of 4.

Pro-Watch Professional Edition is ideal for sites requiring more than 32 readers or up to 6 client workstations.

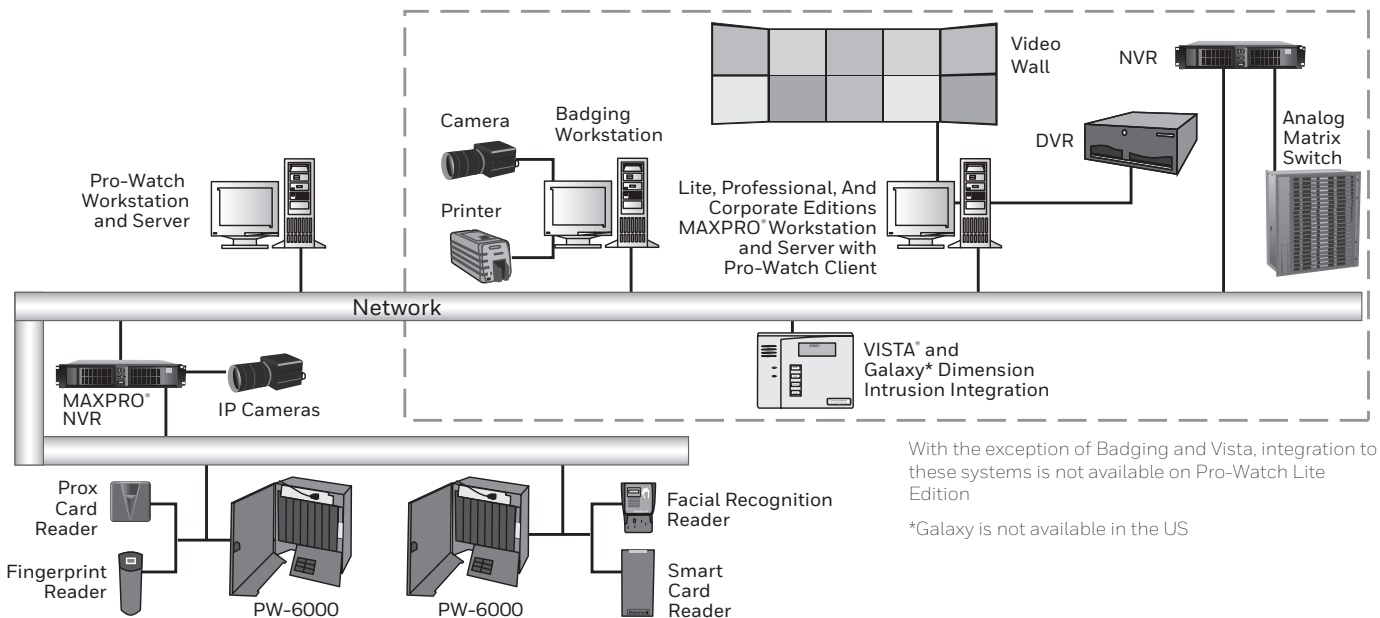## MEDIUM & LARGE SYSTEMS: PRO-WATCH PROFESSIONAL AND PRO-WATCH CORPORATE EDITIONS

Both Pro-Watch Professional Edition (PWPE) and Pro-Watch Corporate Edition (PWCE) are targeted for the needs of medium to large installations.

An IT topology deployment with a separate server is recommended. Workstations can be connected via LAN or WAN, making it convenient to manage multiple sites on a single server. Pro-Watch Professional Edition features Microsoft SQL Express 2016 (included).

Both editions offer numerous options to meet a variety of security needs. For limits on connectivity support in PWPE, refer to the specifications guide on page 5.

PWCE is truly the best fit for the largest systems and campuses because it has no restrictions on numbers of add-on readers or workstations. Honeywell also offers redundant solutions on PWCE for organizations requiring 24/7 operations.

Integrations available using Pro-Watch

Video Wall

NVR

Camera

Badging Workstation

Printer

DVR

Analog Matrix Switch

Pro-Watch Workstation and Server

Lite, Professional, And Corporate Editions MAXPRO® Workstation and Server with Pro-Watch Client

Network

MAXPRO® NVR

IP Cameras

VISTA® and Galaxy* Dimension Intrusion Integration

Prox Card Reader

Facial Recognition Reader

Fingerprint Reader

Smart Card Reader

PW-6000

PW-6000

With the exception of Badging and Vista, integration to these systems is not available on Pro-Watch Lite Edition

*Galaxy is not available in the US

PRO-WATCH 5.0 CONNECTED BUILDING PLATFORM

ENTERPRISE SYSTEMS: PRO-WATCH ENTERPRISE EDITION

Pro-Watch Enterprise Edition (PWEE) provides a security solution for the global organization by sharing badgeholder identities and event data across the organization.

With a PWEE system, an enterprise server facilitates two-way data sharing among regional servers. This enables single credential solutions across organizations.

If equipped with two or more Pro-Watch Corporate Editions (PWCE), an organization may easily upgrade its servers to become part of an Enterprise system. Each Corporate Edition server becomes a regional server and retains regional system control.

The Pro-Watch suite offers base software licenses that address security needs from small sites to global enterprises:

PRO-WATCH LITE EDITION:

Basic functionality for the small office with support for up to 32 doors on PW-Series panels.

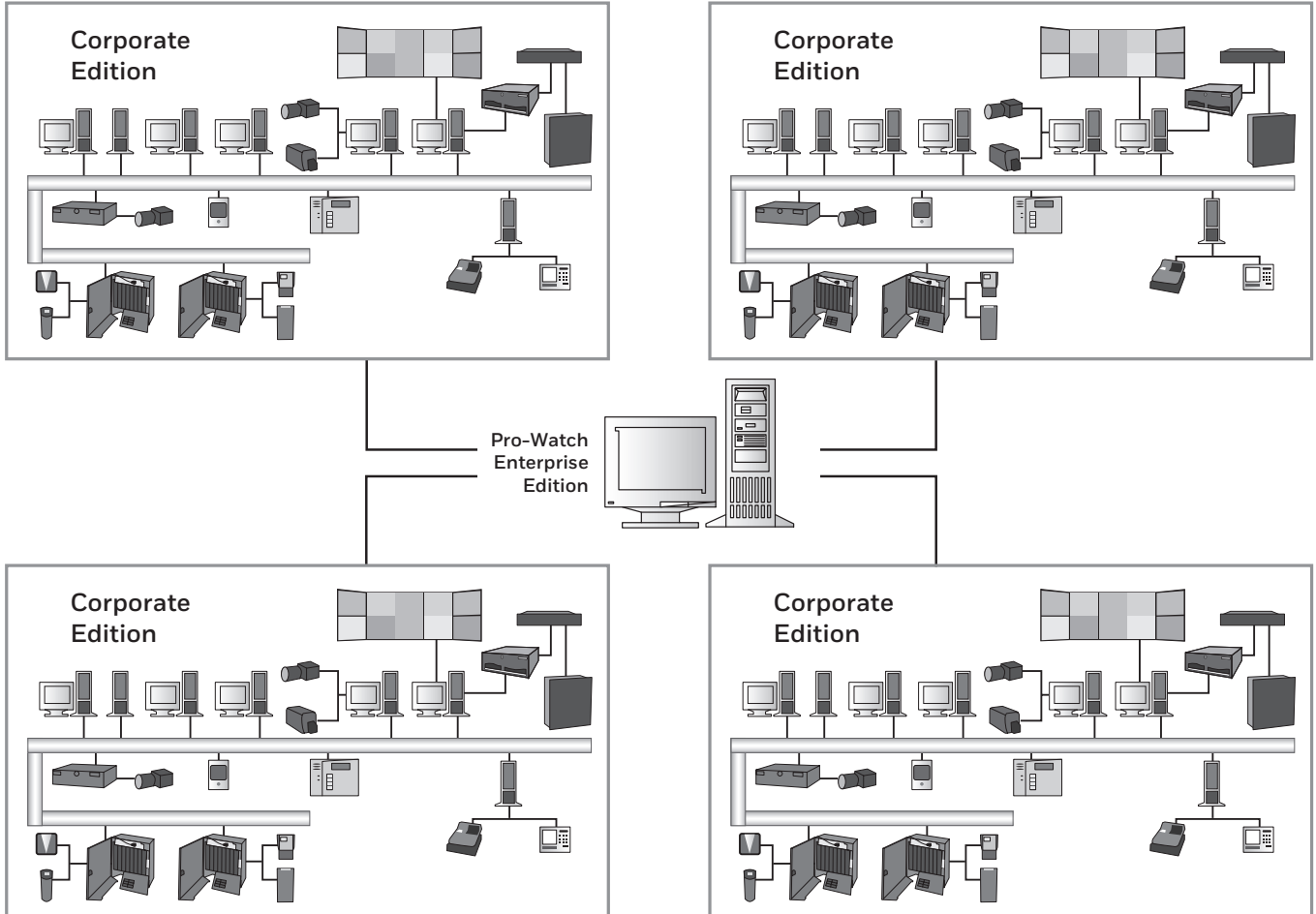### PRO-WATCH PROFESSIONAL EDITION:

Complete security functionality with more options for medium-sized organizations with up to 64 doors for organizations requiring integrated processes or regulatory compliance.

PRO-WATCH CORPORATE EDITION:

Complete security for larger organizations and campuses. Additional high availability options make this edition the optimal choice for organizations requiring 24/7 business continuity plans for their security system.

PRO-WATCH ENTERPRISE EDITION:

Global security system that merges multiple Pro-Watch Corporate Edition systems to efficiently manage badgeholder data and report on events across the organization. business continuity plans for their security system.

PRO-WATCH 5.0 CONNECTED BUILDING PLATFORM

PROFESSIONAL, CORPORATE & ENTERPRISE EDITIONS

- Standard Badging and Advanced Badging client

- 2-D PDF417 barcode add-on license for badging

- Option for Transportation Security Clearinghouse (TSC) background checks in Pro-Watch AP (Airport) and Vendor Management Portal

- Integration to Honeywell VISTA® panels 128 /250 FBP, FBPT, BPE, and BPT, and GX in North America and to Honeywell Galaxy Dimension GD-48, GD-96, GD-264, GD-520 in Europe

- Event Procedures triggers on consecutive duplicate events

- Mustering, anti- passback and guard tour

- Minimum and maximum occupancy enforcement

- Integrates video devices added in MAXPRO® VMS

- Supports Commend intercom system servers GE200, GE300, GE700 and GE800

- Detailed historic records for tracking configuration changes, security operations and device events to comply with audit requirements for regulatory compliance

- Intercoms linked to readers and locations on maps provide quick access to specific units

- Options for integrating biometrics, third-party hardware, radar-video solutions and IT convergence

- High availability and redundant server solutions (Corporate and Enterprise Edition)

- Support for Wireless Locksets from Allegion, Assa Abloy, and Salto

- Support for Disconnected Locksets from Salto

- Direct support for Biometric Readers from Morpho and Iris ID

- FICAM PACS Infrastructure APL Listed

PRO-WATCH 5.0 SPECIFICATIONS

	LITE	PROFESSIONAL	CORPORATE	ENTERPRISE[3]
STANDARD CLIENT LICENSES (NON-BADGING)				
Quantity included with base system	2	2	2	2
Maximum quantity that can be added	4	5	Unrestricted	Unrestricted
BADGING/ADVANCE BADGING CLIENT LICENSES				
Quantity included with base system	1	1	1	N/A
Maximum quantity that can be added	2	5	Unrestricted	N/A
READER LICENSES				
Quantity included with base system	32	32	96	N/A
Maximum quantity that can be added	0	32	20,000	N/A
REGIONAL SERVER LICENSES				
Quantity included with base system	N/A	N/A	N/A	1
Maximum quantity that can be added	N/A	N/A	N/A	Unrestricted[2]
COMPLIANCE REPORT MANAGER CLIENT LICENSES				
Quantity included with base system	N/A	N/A	N/A	N/A
Maximum quantity that can be added[3]	Limited by Standard Client Licenses	Limited by Standard Client Licenses	Limited by Standard Client Licenses	N/A
DATABASE SUPPORT				
SQL 2012, 2016, 2017 and 2019 Express (10 GB maximum database size)	YES	YES	YES	NO
SQL 2012 , 2014, 2016, 2017 and 2019 Standard	NO	NO	YES	YES

1 Must have a standard client license on a machine in order to run an Advanced Badging client license.
2 Must order one regional server in an Enterprise system for each PWCE server in the system.
3 Enterprise system capabilities align with Corporate for respective regional servers.
    Enterprise systems link together two or more Corporate Edition systems to share badgeholder identities and events among the Corporate Edition systems.

PRO-WATCH CLIENT WORKSTATION[1] SPECIFICATIONS

FEATURE	RECOMMENDED
Processor	Intel® Core™ i3, i5, or i7 Processor 2.8 GHz or higher
PC Type	Workstation or Server hardware
System Memory (RAM)[1]	8 GB for Windows 8.1 (32 and 64 bit) 8 GB for Windows 10
Operating System	Windows 10 (32 or 64 bit) Windows 2012/2016/2019 Server Enterprise or Standard edition (32 or 64 bit) NOTE: ALL versions require Professional edition or higher
DVD Drive	Yes
Hard Drives	Capacity, Speed, Interface: 80 GB or larger 7,200 RPM SATA or SAS
USB Connection	2.0
Network Connection	100Mbits/sec or greater, GB recommended
Video Resolution	19204x1080 pixels; 24 bit color or higher
Multimedia	Standard VGA Graphics Adapter (Display adapter)

1 Includes RAM required by the client machine to run the Windows operating system.

PRO-WATCH 5.0 SPECIFICATIONS

PRO-WATCH SERVER[1] SPECIFICATIONS

FEATURE	SMALL SYSTEM REQUIREMENT	LARGE SYSTEM REQUIREMENT
Recommended Processor	2nd Generation Intel® Xeon® Scalable Processors" W/Silver/Gold/Platinum (12 cores or greater) 3.2 GHz Max Turbo frequency	2nd Generation Intel® Xeon® Scalable Processors" W/Silver/Gold/Platinum (24 cores or greater) 3.6 GHz Max Turbo frequency
Recommended Operating System	Windows 10* build 1067 or higher Windows Server 2012/2012 R2/2016/2019 * Requires Professional edition or higher	Windows Server 2012/2012 R2/2016/2019
Recommended Database System	SQL Server 2012/2014/2016/2017/2019	SQL Server 2012/2014/2016/2017/2019
Email Notification	Required for SMTP Server. Used for integrated identity authentication.	Required for SMTP Server. Used for integrated identity authentication.
Recommended PC Type (Server or Workstation)	Workstation or Server hardware	Server hardware recommended Workstation hardware supported (requires stability in mission critical environments)
Recommended System Memory (RAM)	24 GB minimum, 32 GB recommended or greater (based on OS selected)	32 GB minimum, 64 GB recommended
DVD Drive	Yes	Yes
Hard Drives[2,3]	Capacity, Speed, Interface: 160 GB SSD or 7,200RPM or higher SATA or SAS *Size may vary according to transaction storage and other variables such as archives, backups, etc.	RAID Array 1: (OS or hardware based RAID 1) Capacity, Speed, Interface: 160 GB SSD or 7,200RPM or higher SATA or SAS (SSD preferable) RAID Array 2: (Application Databases) (Hardware based RAID 5 or RAID 10) Capacity, Speed, Interface: 300 GB 7,200RPM or higher SATA or SAS *Size may vary according to transaction storage and other variables such as archives, backups, etc.
Removable media for database backup[4] database backup[4]	160 GB or larger USB or eSATA drive	300 GB or larger USB drive or eSATA drive
Network connection	100Mbits/sec or greater, GB recommended	100Mbits/sec or greater, GB recommended
Video resolution	1920x1080 pixels; 24 bit color or higher Standard VGA Graphics Adapter (Display adapter)	1920x1080 pixels; 24 bit color or higher Standard VGA Graphics Adapter (Display adapter)

1 For a system to be considered small, the Pro-Watch system shall have less than 5 clients, no more than 128 online readers, less than 5000 historical events per day, and proper database maintenance conducted by the end user or servicing dealer. For a system to be large, it must have between 5000 and 50,000 historical events per day, between 128 and 512 online readers, between 5 and 15 client workstations, and proper database maintenance conducted by the end user or servicing dealer. If the system will have more than 50,000 events per day, exceed 512 online readers, exceed 15 client workstations, or use Pro-Watch server side functions like anti-passback, event triggers and procedures, Real Time Data Transfer Utility, HSDK, etc. please consult Honeywell for custom server sizing.

2 RAID technology used for the larger system server – Disk sets 1 and 2. When several physical disks are set up to use RAID technology, the operating system will be installed on a single disk (OS installed on RAID1 mirrored set) and the Database and Storage on a separate disk (RAID 5 or 10 disk set)

3 To estimate database storage space, use the following approximations and add to the base DB size of 500MB:

- Badgeholder storage = (# of badgeholders) x (75KB)* estimate based on typical captured picture size

- Event history storage = (# of events per day) x (2.5 KB) x (# of days to retain in server)

- Audit history storage = [(# of cardholder changes per day) + (# of system configuration changes per day)+(# of events per day)+(# of operator system changes per day)]* (1.2KB) x (# of days to retain in server)

4 Honeywell highly recommends some type of removable media for daily database backups. Database backups should be removed from the server and stored in a safe, secure location so in the event of system failure this valuable data can be recovered. We recommend two or more removable media per server based upon end user processes. Alternatively, Honeywell system installers can engage the end-user's IT group to participate in some type of network backup program.

- Important Notice – These server and workstation hardware guidelines are intended for use as a reference only. The specifications are subject to changes due to market conditions, software updates, manufacturing changes, and other variables outside of our control. Honeywell recommends for planning based on system growth and expansion, operating system updates and upgrades, database engine updates and upgrades, end user system expansion, historical data retention requirements, and archive data storage requirements. Please consult with Honeywell as applicable for assistance.

PRO-WATCH 5.0 ORDERING INFO

PART NUMBER	DESCRIPTION
PRO-WATCH LITE SOFTWARE	
BASIC SOFTWARE LICENSE	
PW50LTSW	Pro-Watch 5.0 LE Server Software - 1 Server License, 32 Reader License, 1 Concurrent User License, 1 Concurrent Advanced Badging License
ADD-ON CLIENT LICENSES	
PW50LTSWCL	Single Concurrent User LE Edition Software License add-on
PWBADGEL	Pro-Watch 5.0 Single Concurrent Classic/Advanced Badging License add-on. This includes license only and requires a single concurrent client license (part PW50LTSWCL)
UPGRADES	
PW50LTPE32R2U	Upgrade from Pro-Watch 5.0 LE to Pro-Watch PE with one client
PRO-WATCH PROFESSIONAL EDITION SOFTWARE	
BASE SOFTWARE LICENSE	
PW50PESW	Pro-Watch 5.0 PE Server Software - 1 Server License, 1 Concurrent User License, 1 Concurrent Advanced Badging License, 32 Reader License
ADD-ON CLIENT LICENSES	
PW50SWCL	Single User Software License add-on for PWPE and PWCE
PWBADGEL	Pro-Watch 5.0 Single Concurrent Classic/Advanced Badging License add-on. This includes license only and requires a single concurrent client license (part PW50SWCL)
ADD-ON READER LICENSES	
PWRDR32	32 Reader License add-on, in addition to the 32 standard readers. (PWPE supports a maximum of 64 readers)
PWWRDR	1 Wireless Reader License
UPGRADES	
PWPECE32R	Upgrade from PE to CE for one server, maintains user count from PE and increases readers from 32 to 96
PWPECE64R	Upgrade from PE to CE for one server, maintains user count from PE and increases readers from 64 to 96
PWSTDMERIC	1 Mercury Standard Protocol Intelligent Controller License

PRO-WATCH 5.0 ORDERING INFO

PART NUMBER	DESCRIPTION
PRO-WATCH CORPORATE EDITION SOFTWARE	
BASE SOFTWARE LICENSE	
PW50CESW	Pro-Watch 5.0 CE Server Software - 1 Server License, 1 Concurrent User License, 1 Concurrent Classic/Advanced Badging License, License for 96 readers
ADD-ON CLIENT LICENSES	
PW50SWCL	Single User Software License add-on for PWPE and PWCE
PWBADGEL	Pro-Watch 5.0 Single Concurrent Classic/Advanced Badging License add-on. This includes license only, and requires a single concurrent client license (part PW50SWCL)
ADD-ON READER LICENSES	
PWRDR32	32 Reader License add-on
PWRDR64	64 Reader License add-on
PWRDR128	128 Reader License add-on
PWRDR256	256 Reader License add-on
PWRDR512	512 Reader License add-on
PWWRDR	1 Wireless Reader License
PWDSCRDR	1 Salto Disconnected Wireless Reader License
PWSTDMERIC	1 Mercury Standard Protocol Intelligent Controller License

PRO-WATCH 5.0 ORDERING INFO

PART NUMBER	DESCRIPTION
COMMON ADD-ONS AND ACCESSORIES FOR PRO-WATCH PROFESSIONAL EDITION AND CORPORATE EDITION	
CLIENT ADD-ON LICENSES	
PWDWFX	Plug-in for viewing DWFX format files (supported by AutoCAD 2008 and later) in Pro-Watch. License required per concurrent standard client license (PW50SWCL)
PWPDF427	Plug-in for Classic, Advanced and Airport Badging: Allows generation of PDF427 2-D barcodes. License required per concurrent badging client (PWBADGEL)
INTRUSION PANEL CONNECTION LICENSES	
PWVISTA1	1 Panel License for VISTA®-FBP128/250, BPE128/250 and BPT128/250 (not available in Europe)
PWVISTA5	5 Panel License for VISTA-FBP128/250, BPE128/250 and BPT128/250 (not available in Europe)
PWVISTA10	10 Panel License for VISTA-FBP128/250, BPE128/250 and BPT128/250 (not available in Europe)
PWDIMEN1	License for One Dimension Intrusion Panel (not available in North America)
DATA IMPORT/EXPORT LICENSE	
PWDBUT	Pro-Watch Database Transfer Utility Import/Export
PWDBUT-API	Adds Door Control Functionality and Event Handling
INTEGRATION LICENSE	
HNMUGPWPE	Pro-Watch MAXPRO VMS integration license for Pro-Watch Professional Edition
HNMUPGPWCE	Pro-Watch MAXPRO VMS integration license for Pro-Watch Corporate Edition
HNMUPGPWCE-R	Pro-Watch MAXPRO VMS integration license for Pro-Watch Corporate Edition - Redundant
PWLW4	Pro-Watch LobbyWorks integration license
INTERCOM SYSTEM CONNECTION LICENSES	
PWINTSTENO	Pro-Watch interface to Stentofon Intercom System
PWINTCOMMEND	Pro-Watch interface to Commend Intercom System
DIRECT VIDEO CONNECTION LICENSES	
PW50INDWRKFL	Incident Workflow Client License
PRO-WATCH AIRPORT BADGING	Call for details
FAILOVER SOFTWARE LICENSES AND INSTALLATION SUPPORT	
NFHALAN	Neverfail's continuous availability solution provides automatic failover to a secondary, or if desired, tertiary server. Includes Neverfail for SQL Server – 2 Nodes and first year support. Please contact your regional sales rep for details

PRO-WATCH 5.0 ORDERING INFO

PART NUMBER	DESCRIPTION
REDUNDANCY FOR PRO-WATCH SERVER	
PW50CESWR	Pro-Watch 5.0 CE Server Software* 1 Server License, 1 Concurrent User License, 1 Concurrent Advanced/Classic Badging License, License for 96 readers, Pro-Watch Redundant
PW50EESWCLR	Redundant License Single User Software, Add-on to PWEE 5.0 Server
PW50SWCLR	Redundant Single Concurrent Pro-Watch 5.0 User Professional/Corporate Edition Software License Add-on
PWRDR32R	Redundant PWCE 32-Reader License
PWRDR64R	Redundant PWCE 64-Reader License
PWRDR128R	Redundant PWCE 128-Reader License
PWRDR256R	Redundant PWCE 256-Reader License
PWRDR512R	Redundant PWCE 512-Reader License
PWWRDRR	1 Redundant Wireless Reader License
PWDSCRDRR	1 Redundant Salto Wireless Reader License
PWBADGELR	Redundant PWCE Classic/Advice Badging License
PWSTDMERICR	Redundant 1 Mercury Standard Protocol Intelligent
PWDBUT-R	Redundant PWCE DTU License
PWVISTA1-R	1 Panel Redundant License for VISTA
PWVISTA5-R	5 Panel Redundant License for VISTA
PWVISTA10-R	10 Panel Redundant License for VISTA
PWDIMEN1-R	1 Panel Redundant License for VISTA
PWINTSTENO-R	Redundant Pro-Watch interface to Stentofon
PWINTCOMMEND-R	Redundant Pro-Watch interface to Commend Intercom System
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
PWDWFX-R	Plug-in for viewing DWFX format files (supported by AutoCAD 2008 and later) in Pro-Watch. License required per concurrent standard client license (PW42SWCL)
PWPDF427-R	Plug-in for Classic, Advanced and Airport Badging: Allows generation of PDF427 2-D barcodes. License required per concurrent badging client (PWBADGEL)

THE
FUTURE
IS
WHAT
WE
MAKE IT

Subject to change without notice.

HIS-PRW50-04-NA(240620)DS-ZB
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