

PRO-WATCH® 5.5

Integrated Security Suite

Focus more on business outcomes, worry less about security needs with Honeywell Pro-Watch software.

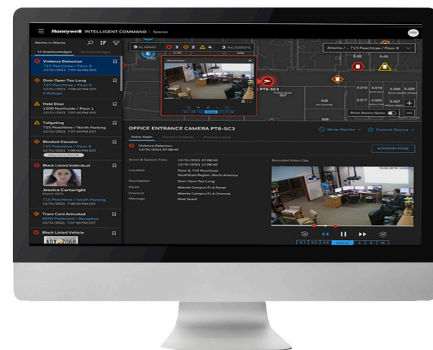
PRO-WATCH INTEGRATED SECURITY SUITE combines the power of Pro-Watch Access Control, Pro-Watch Intelligent Command with Pro-Watch VMS to create information-driven insights that are delivered in a unified dashboard. System tools such as system health dashboards and bulk firmware and password updates lower operational costs and improve operator efficiency. A unified view of alarms in maps and allowing for customized salvo views enhances situational awareness. Automated operating procedure workflows reduce compliance costs and everyday operational costs. Pro-Watch Integrated Security suite also reduces total cost of ownership by leveraging existing infrastructure

Additionally, Pro-Watch Integrated Security Suite uses data from the customer's system to provide proactive diagnostics – allowing the user to accurately budget for maintenance costs. Regional regulations create everyday challenges for security teams. By automating compliance, Pro-Watch reduces the risks of potential fines that could be levied for non-compliance. Automated workstreams allow the security operator to focus on daily needs, instead of on compliance activities.

Pro-Watch Integrated Security Suite's flexible architecture achieves 24x7 availability with the industry's lowest installation and lifecycle costs. The user-friendly design blends functional richness and configurability with an intuitive design requiring minimal operational training. Embedded system tours guide new operators through the basics of system operation, enabling them to be effective within 10 minutes – eliminating the need for costly on-site training.

Situational awareness is a core concept in security systems. Pro-Watch Integrated Security Suite uses artificial intelligence to make sense of the mountain of data from multiple systems as it looks for abnormal situations. When detected, the location of the incident is represented on a building map and an incident workflow is created while SOP is executed. All actions related to an incident are archived for later analysis and packaged for external review.

Pro-Watch delivers comprehensive options for audit and reporting to address forensics, compliance and business intelligence data mining needs.



Honeywell Pro-Watch 5.5, part of the Pro-Watch Integrated Security Suite platform, provides robust, global integrated access control, video surveillance and intrusion detection in a single view to protect staff, property, optimize productivity and comply with strict industry regulations all while reducing operational costs.

Pro-Watch 5.5 Technical Specifications

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 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
- HID Origo™ Integration
- 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 Series 3 Controller
- Mercury M5 (CASI) and MS Bridge (Software House) Controller
- Lite, Professional, Corporate and Enterprise editions

Pro-Watch 5.5 Technical Specifications

The reporting application includes basic report templates and the capability to generate custom reports exported as XLS, CSV and PDF formats.

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

Additional licensed features include:

- Alarm roll-up on maps
- GIS maps implementation
- System health dashboards for access devices
- Exporting incidents as PDF
- Bulk firmware and password updates for non-Honeywell cameras

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 2019, 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.

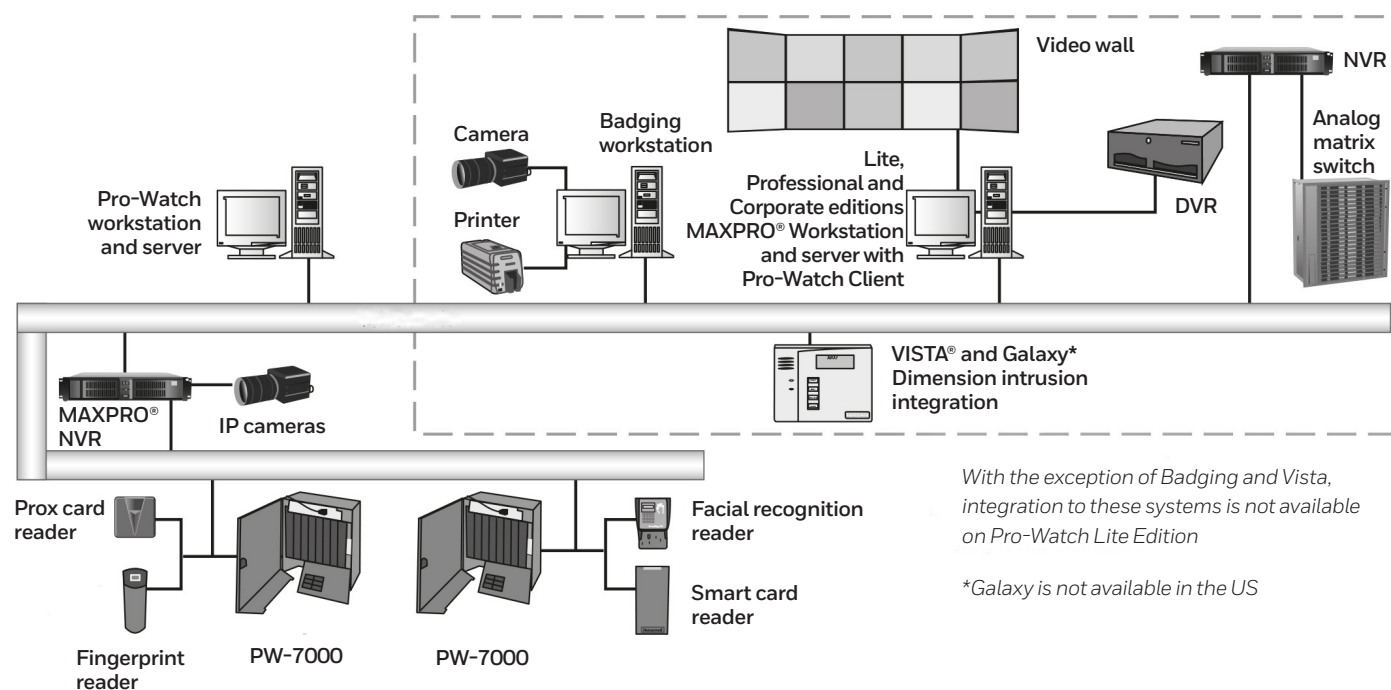
Pro-Watch Lite Edition offers basic functionality for the small office and features Pro-Watch PW Series access controllers. Up to four total client licenses can be added as needed.

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.

Figure 1. Integrations available using Pro-Watch



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ENTERPRISE SYSTEMS: PRO-WATCH ENTERPRISE EDITION

Pro-Watch Enterprise Edition (PWEE) provides a security solution for the global organization by sharing badge holder 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:

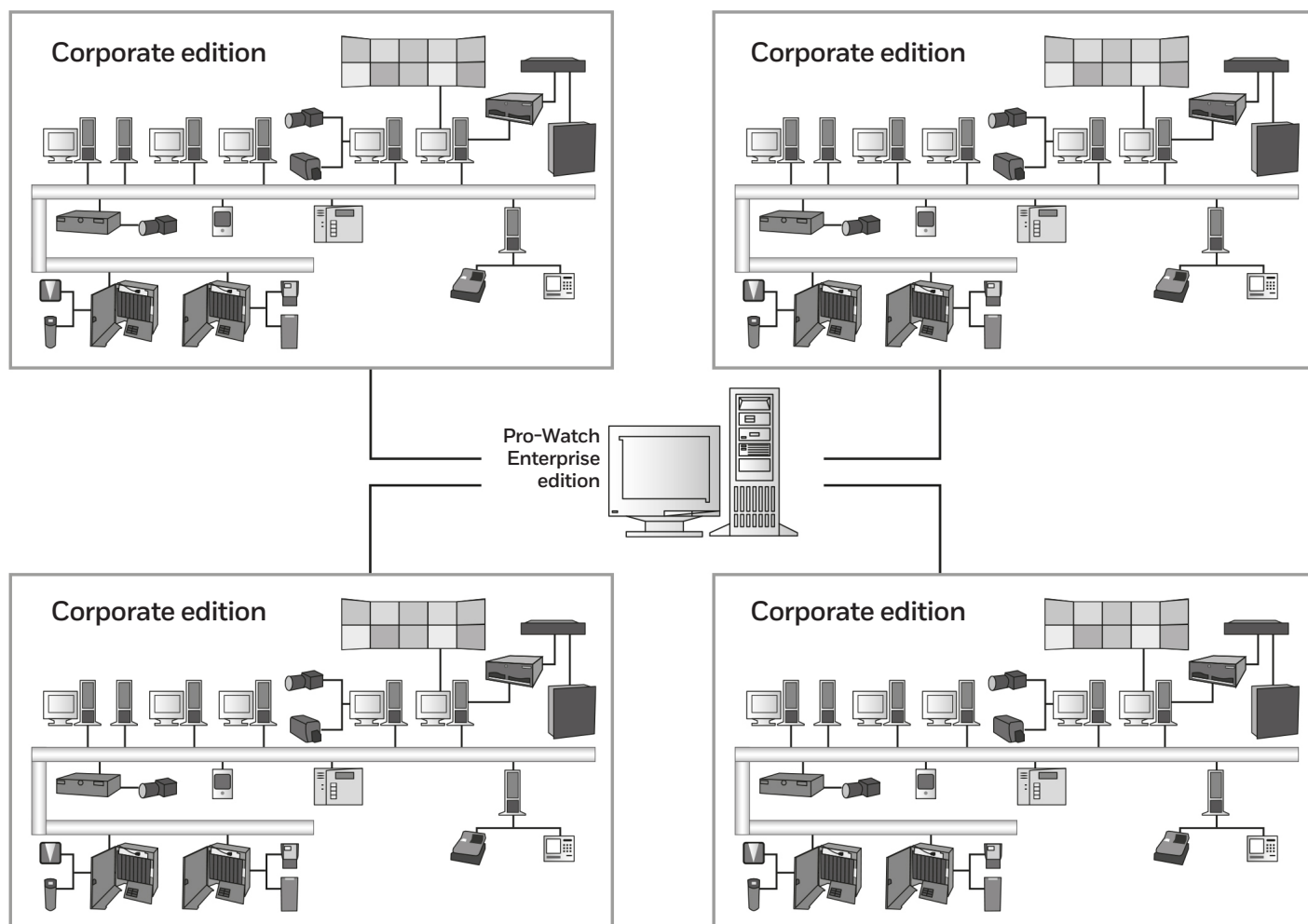
Complete security functionality with more options for medium-sized organizations with up to 64 doors for organizations requiring integrated processes or regulatory compliance.

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 badge holder data and report on events across the organization. Business continuity plans for the security system are included.



Pro-Watch 5.5 Technical Specifications

PROFESSIONAL, CORPORATE AND ENTERPRISE EDITIONS

- Standard badging and advanced badging client
- 2D 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
- 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

Table 1. Pro-Watch 5.5 specifications

| | LITE | PROFESSIONAL | CORPORATE | ENTERPRISE ³ |
|---|-------------------------------------|-------------------------------------|-------------------------------------|---------------------------|
| STANDARD CLIENT LICENSES (NON-BADGING) | | | | |
| Quantity included with base system 1 server and 1 client license | 2 | 2 | 2 | 2 |
| Maximum quantity that can be added | 4 | 5 | Unrestricted | Unrestricted |
| BADGING / ADVANCED BADGING CLIENT LICENSES | | | | |
| Quantity included with base system | 1 | 1 | 1 | N/A |
| Maximum quantity that can be added ¹ | 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 LICENSES | | | | |
| Quantity included with base system | N/A | N/A | N/A | N/A |
| Maximum quantity that can be added | Limited by standard client licenses | Limited by standard client licenses | Limited by standard client licenses | N/A |
| DATABASE SUPPORT | | | | |
| SQL 2016, 2017 and 2019 express (10 GB maximum database size) | Yes | Yes | Yes | No |
| SQL 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.

Enterprise systems link together two or more Corporate edition systems to share badgeholder identities and events among the Corporate edition systems.

Pro-Watch 5.5 Technical Specifications

Table 2. Pro-Watch 5.5 Specifications

| PRO-WATCH CLIENT WORKSTATION SPECIFICATIONS | |
|---|---|
| FEATURE | RECOMMENDATION |
| 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 | 100 Mbps/sec or greater, GB recommended |
| Video resolution | 1920 x 1080 pixels; 24-bit color or higher |
| Multimedia | Standard VGA graphics adapter (display adapter) |

¹ Includes RAM required by the customer's computer to run the Windows operating system.

| PRO-WATCH SERVER SPECIFICATIONS | | |
|--|---|---|
| FEATURE | SMALL SYSTEM REQUIREMENT ¹ | LARGE SYSTEM REQUIREMENT ¹ |
| Recommended processor | 2nd generation Intel Xeon® scalable processors with silver/gold/platinum (12 cores or greater) 3.2 GHz max turbo frequency | 2nd generation Intel Xeon scalable processors with 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® 2014/2016/2017/2019 | SQL Server 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 7,200 RPM 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 7,200 RPM or higher SATA or SAS (SSD preferable) RAID array 2: (application databases) (hardware-based RAID 5 or RAID 10) * Size may vary according to transaction storage and other variables such as archives, backups, etc. |
| Removable media for database backup ⁴ | 160 GB or larger USB or eSATA drive | 300 GB or larger USB drive or eSATA drive |
| Network connection | 100 Mbps/sec or greater, GB recommended | 100 Mbps/sec or greater, GB recommended |
| Video resolution | 1920 x 1080 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 five 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 database size of 500MB:

- Badgeholder storage = (number of badgeholders) x (75 KB)* estimate based on typical captured picture size
- Event history storage = (number of events per day) x (2.5 KB) x (number of days to retain in server)
- Audit history storage = [(number of cardholder changes per day) + (number of system configuration changes per day) + (number of events per day) + (number of operator system changes per day)] x (1.2 KB) x (number 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. Honeywell recommends two or more removable media per server based upon end-user processes. Alternatively, Honeywell system installers can engage the end-users' 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 5.5 Technical Specifications

Table 3. Pro-Watch 5.5 Part Number and Descriptions

| PART NUMBER | DESCRIPTION |
|--|--|
| PRO-WATCH LITE SOFTWARE | |
| BASE SOFTWARE LICENSE | |
| PW55LTSW | Pro-Watch 5.5 LE server software - 1 server license, 32 reader licenses, 1 concurrent User license, 1 concurrent advanced badging license |
| ADD-ON CLIENT LICENSE | |
| PW55LTSWCL | Single concurrent user LE edition software license add-on |
| PWBADGEL | Pro-Watch 5.5 single concurrent classic/advanced badging license add-on. This includes license only and requires a single concurrent client license (part number: PW55LTSW) |
| UPGRADES | |
| PW55LTPE32R2U | Upgrade from Pro-Watch 5.5 LE to Pro-Watch PE with one client |
| PRO-WATCH PROFESSIONAL EDITION SOFTWARE | |
| BASE SOFTWARE LICENSE | |
| PW55PESW | Pro-Watch 5.5 PE server software - 1 server license, 1 concurrent user license, 1 concurrent advanced badging license, 32 reader licenses |
| ADD-ON CLIENT LICENSES | |
| PW55SWCL | Single-user software license add-on for PWPE and PWCE |
| PWBADGEL | Pro-Watch 5.5 single concurrent classic/advanced badging license add-on. This includes license only and requires a single concurrent client license (part number: PW55SWCL) |
| ADD-ON READER LICENSES | |
| PWRDR32 | 32 reader license add-ons, 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 |
| PWSTDOMIC | 1 Mercury standard protocol intelligent controller license |
| PRO-WATCH CORPORATE EDITION SOFTWARE | |
| BASE SOFTWARE LICENSE | |
| PW55CESW | Pro-Watch 5.5 CE server software - 1 server license, 1 concurrent user license, 1 concurrent classic/advanced badging license, licenses for 96 readers |
| ADD-ON CLIENT LICENSES | |
| PW55SWCL | Single user software license add-on for PWPE and PWCE |
| PWBADGEL | Pro-Watch 5.5 single concurrent classic/advanced badging license add-on. This includes license only, and requires a single concurrent client license (part number: PW55SWCL) |
| ADD-ON READER LICENSES | |
| PWRDR32 | 32 readers license add-on |
| PWRDR64 | 64 readers license add-on |
| PWRDR128 | 128 readers license add-on |
| PWRDR256 | 256 readers license add-on |
| PWRDR512 | 512 readers license add-on |
| PWWRDR | 1 wireless reader license |
| PWDSCRDR | 1 Salto disconnected wireless reader license |
| PWSTDOMIC | 1 Mercury standard protocol intelligent controller license |

Pro-Watch 5.5 Technical Specifications

Table 3. Pro-Watch 5.5 Part Number and Descriptions, continued

| 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 (PW55SWCL) |
| PWPDF427 | Plug-in for classic, advanced and airport badging; allows generation of PDF427 2D 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 |
| INTERCOM SYSTEM CONNECTION LICENSES | |
| PWINTSTENO | Pro-Watch interface to Stentofon™ Intercom System |
| PWINTCOMMEND | Pro-Watch interface to Commend™ Intercom System |
| INTELLIGENT COMMAND LICENSES | |
| PW55INDWRKFL | Incident workflow client license |
| PW55DASHBOARDS | PW Intelligent Command Dashboards |
| PW55ONLINEMAPS | Support for Online GIS maps |
| PRO-WATCH AIRPORT BADGING | Call for details |
| FAILOVER SOFTWARE LICENSES AND INSTALLATION SUPPORT | |
| NFHALAN | The Neverfail® 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. |
| REDUNDANCY FOR PRO-WATCH SERVER | |
| PW55CESWR | Pro-Watch 5.5 CE server software* 1 server license, 1 concurrent user license, 1 concurrent advanced/classic badging license, licenses for 96 readers, Pro-Watch redundant |
| PW55EESWCLR | Redundant license single-user software, add-on to PWEE 5.5 server |
| PW55SWCLR | Redundant single concurrent Pro-Watch 5.5 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 |

Table 3. Pro-Watch 5.5 Part Number and Descriptions, continued

| PART NUMBER | DESCRIPTION |
|--|---|
| REDUNDANCY FOR PRO-WATCH SERVER | |
| PWBADGELR | Redundant PWCE classic/advanced 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 |
| PWNTEXCCTVAD-R | Redundant PWCE AD CCTV license 2050 Megapower |
| PWNTEXCCTVBR-R | Redundant PWCE Burle CCTV license Allegiant Series |
| PWNTEXCCTVPE-R | Redundant PWCE Pelco CCTV license CM9760 |
| PWNTEXCCTVVI-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 |
| PWPDF427-R | Plug-in for Classic, Advanced and Airport badging: Allows generation of PDF427 2-D barcodes. License required per concurrent badging client (part number: PWBADGEL) |

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