

Extend the Power of Wonderware Everywhere



- *Extraordinary Value*
- *Lower Total Cost of Ownership*
- *Mobile Information Management*
- *Simplified, Extensive Support*



Visualize



Analyze



Optimize

EXTRAORDINARY VALUE

Introducing Industrial Tablets and Touch Panel Computers from Wonderware, a business unit of Invensys Systems, Inc. These tablet and panel computers have been pre-installed with InTouch human-machine interface (HMI) software, combining the world's leading HMI for visualizing and controlling automation processes with rugged, cost-effective hardware. Now it's possible to use the same software consistently across all plant devices, at an extraordinary value.

HIGHLIGHTS

- Supports stringent certifications
- Unmatched durability and reliability
- Easy-to-use familiar InTouch development environment
- Unrivaled connectivity
- Pre-installed with InTouch HMI software
- Lower total cost of ownership and improved productivity
- Extend the power of Wonderware software to places never thought possible before

Fully functioning InTouch applications on Industrial Tablets and Touch Panel Computers can provide visualization and control in many automation scenarios previously serviced only by closed proprietary terminals. Wonderware Industrial Tablets and Touch Panel Computers work out of the box, without additional

configuration, and include access to Wonderware's extensive library of device integration tools, ensuring connectivity to a wide range of systems.

Wonderware Industrial Tablets and Touch Panel Computers have been enhanced to ensure optimal InTouch application performance. Increased speed, additional memory, hardened and ruggedized exteriors, and the latest in hardware and software technology enable superior performance with reliable service.

Wonderware Industrial Tablets feature the latest version of the Microsoft Windows XP Tablet PC Edition operating system and Wonderware InTouch HMI software. The tablets are also available in ruggedized models because of the variety of environments and conditions in which they might be used. In addition, several docking station options allow users to mount Wonderware Industrial Tablets where they can best be utilized.

Wonderware Touch Panel Computers combine a fully functioning computer with Wonderware's award-winning InTouch HMI software on Microsoft Windows XP Professional operating systems. Wonderware Touch Panel Computers give customers the opportunity to simply and easily replace proprietary panels that offer few features and functions with these fully functional computers.

invensys
Wonderware

Powering intelligent plant decisions in real time.

Lower Total Cost of Ownership

It makes perfect business sense to expand the use of InTouch software everywhere throughout an organization by utilizing Wonderware's new Industrial Tablets and Touch Panel Computers. Engineers and operators already familiar with the InTouch HMI do not require further training and first-time customers will find the software exceptionally easy to use.

In addition, Wonderware Industrial Tablets and Touch Panel Computers can successfully access existing InTouch software applications without engineering modifications. The absence of re-engineering retains a company's initial engineering investment while enabling the company to standardize on one HMI platform throughout a plant. IT departments will also be able to reduce the amount of time they spend on software administration and management.

Wonderware's Industrial Tablets and Touch Panel Computers with InTouch software give the power and freedom of an open and fully functional PC-based HMI where once economics dictated closed, functionally weak, proprietary hardware platforms. Proprietary, stand-alone hardware terminals can now be replaced with networked PC-based HMI applications that fully participate in supervisory control and plant intelligence applications.

Wonderware Industrial Tablets and Touch Panel Computers reduce costs associated with:

- Application Development
- Hardware
- Software Integration
- Operator Training
- Software Administration and Management
- Maintenance

By standardizing on Wonderware throughout an organization, customers can improve production efficiency and decrease costs.

WONDERWARE INDUSTRIAL TABLETS

Mobile Information Management

The InTouch HMI software within Wonderware's Industrial Tablets facilitates mobile information management. Now, with the Wonderware Industrial Tablet, engineers and operators can rise from their operator stations and computer desks to perform activities throughout the plant, while maintaining supervisory control of plant processes.



Wonderware Industrial Tablet

Wonderware Industrial Tablets:

- Empower Users
- Increase Productivity
- Give Users Mobile Visualization and Control
- Save Time

Ideal situations for Tablet PC:

- Facilitate Mobile Troubleshooting
- Emergency "Grab-and-Go" Situations
- Wireless Diagnostics and Maintenance
- Start Up On-Site without Opening Cabinets or Connecting Cables
- Give Plant Employees the Freedom to Move about the Plant

Wonderware Industrial Tablets can be used in wide-ranging applications such as mobile data collection, plant troubleshooting and diagnostics, mobile HMI, and mobile communication stations. They are ideal for emergency situations in which plant employees have no time to worry about fragile laptops or connecting multiple cables and similar emergency "grab-and-go" situations. The uses for Wonderware Industrial Tablets are as varied as the industries that Wonderware serves. In addition, ruggedized tablets offer the assurance of quality and dependability in harsh industrial environments.

Hardware Specifications

- Rugged enough to handle shock, vibration, weather, dirt, humidity, liquid spills and damaging chemicals
- Dual hot-swappable battery
- Drop-tested for rough and mobile applications
- Built according to MIL-STD 810F & IP67 ratings
- Available in various docking station styles
- 802.11 Wireless technology

The Wonderware Industrial Tablet is a lightweight, rugged tablet that has been designed and tested to MIL-STD-810F. It is fully sealed, water and dust-proof, and ideal for industrial environments.

It comes with a weatherproof carrying case and offers faster speeds, longer battery life and lower power requirements than standard tablets available on the market today. It also utilizes advanced display technology, which allows users to optimize the display for outdoor or indoor use.



Industrial Tablet with Various Docking Stations

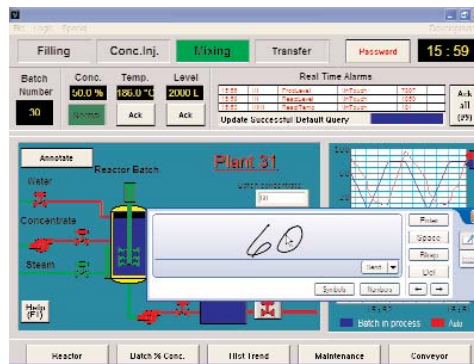
The Wonderware Industrial Tablet is ideally suited for the toughest applications and the most extreme environments. Durable and reliable, the Industrial Tablet pre-integrated with Wonderware's industry-leading InTouch HMI software is an unbeatable combination.

Tablet PC Features

- Digital Inking feature integrated with InTouch software
- Digital Pen enables handwritten annotation
- Wireless communication for monitoring and control

Wonderware's InTouch software has been enhanced to help customers leverage new Tablet PC features such as Inking and Annotation.

Inking enables customers to write values into data links in their own handwriting. The InTouch application recognizes numbers and/or text in multiple languages and inputs them into the data field. This inking feature can save users a tremendous amount of time, especially when the Tablet PC is being used as a mobile data collection station.



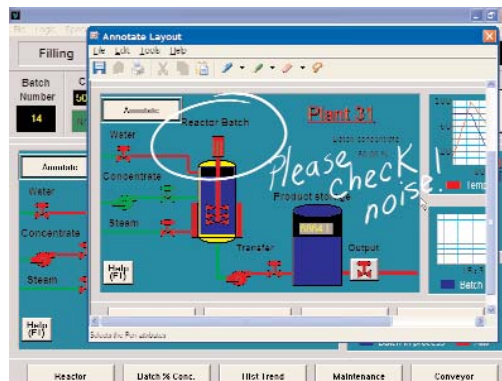
Inking Integrated with InTouch Software

Annotation

Annotation enables users to mark up a graphical display with pens and highlighters. After capturing and annotating a graphical screen, the user can instantly e-mail, print or save the screen capture to facilitate troubleshooting and explanations of the production process. With this feature, operators and engineers can mark up HMI displays directly, allowing them to quickly and precisely communicate areas of concern or interest and promptly resolve production inefficiencies.

Wireless Access

Wonderware Industrial Tablets come standard with wireless access capabilities, allowing users to communicate directly with control systems while maintaining mobility. The Industrial Tablets support wireless access through VPN, to ensure tight security in all communications and operations.



Example: Annotation Feature of Tablet PC



Wonderware Touch Panel Computer

WONDERWARE TOUCH PANEL COMPUTERS

Wonderware Touch Panel Computers pre-installed with InTouch software give users the freedom and power to use a PC-based InTouch HMI in applications where economics previously dictated that they use closed, proprietary terminals.

Wonderware Touch Panel Computers are:

- Powerful
- Cost-Effective
- Easy to Use
- Versatile and Flexible

Hardware Specifications

- Modular - Interchangeable Displays with Quick Change Mechanism
- XP Professional operating systems
- On board circuit for system diagnostic monitoring
- Stainless steel or Aluminum bezels



Ports and Drives

The Wonderware Touch Panel Computer has passed a plethora of worldwide certification tests. These computers are designed for harsh industrial environments, yet retain an open, modular structure for flexibility and versatility. Touch Panel Computers are available with a stainless steel or aluminum bezel.

To optimize performance, Wonderware Touch Panel Computers have been enhanced with up to 8 times more memory and 2-4 times more processing speed than comparable proprietary units on the market today. The Wonderware

Touch Panel Computer features a brilliant screen, excellent performance and outstanding flexibility. Plus, the separate Display Bezel and PC Box design enables easy maintenance by allowing a quick connect and disconnect of the display from the computer.

Wonderware Touch Panel Computers go beyond what many users expect from an industrial PC. Each Touch Panel Computer includes an onboard circuit card to monitor circuit voltages and temperature.



Detachable Display for Easy Replacement

The InTouch software integrates with the Touch Panel Computer's system diagnostics, which monitor the system's reliability, set alarms, and can schedule preventive maintenance. In addition to the onboard system diagnostics, the computer's strong and rugged housing is designed to maximize effectiveness against electromagnetic interference.

Applications

Original Equipment Manufacturers (OEMs) will find that the powerful Wonderware Touch Panel Computers offer their customers more features and functions than closed, proprietary terminals at a comparable price. The easy-to-use InTouch development environment means that OEMs will be able to quickly create applications for machine control and will have extensive troubleshooting tools to aid them in design, testing and startup scenarios.

Wonderware Touch Panel Computers also empower industrial personnel who already use InTouch software to banish the headaches and frustration associated with trying to integrate disparate machine-control and supervisory systems - because both systems can now run the same software. Replacing an existing equipment control system with a Wonderware Touch Panel Computer eliminates the need for training on different types of HMI software, software administration and management tools.

ArchestrA Ready

Wonderware Touch Panel Computers include the hardware capabilities to support an existing ArchestrA software architecture. In this case, the data within the Touch Panel Computer can seamlessly plug into applications that have been created with Invensys' ArchestrA technology. Invensys' ArchestrA industrial automation and information software architecture was designed from the outset to extend the life of legacy systems by leveraging the latest software technologies. Offerings built upon this architecture empower decision-makers to achieve their business objectives without abandoning prior investments in automation systems, production processes or intellectual property.

ONE DEVELOPMENT ENVIRONMENT

Wonderware Industrial Tablets and Touch Panel Computers feature a comprehensive, feature-rich InTouch application environment. This means that powerful applications based on InTouch software can be standardized and distributed throughout a facility, from operator control to supervisory control. One common InTouch development environment can be used to create applications that run on stand-alone and distributed operator stations, tablet computers and touch panel computers. Using one development environment can save engineers and operators valuable time and money because there is only one software system to learn and maintain, and the resulting applications can be used everywhere.

SIMPLIFIED ORDERING

Because Wonderware pre-installs the InTouch software onto the hardware platform, it is extremely easy to order Wonderware Industrial Tablets and Touch Panel Computers. Every Wonderware system has been thoroughly tested for compatibility and performance prior to shipment, including appropriate hard disk sizes, memory requirements and operating systems. In fact, Wonderware has reduced the ordering process to a single part number. The systems are designed to work out of the box, saving valuable configuration and deployment time.

WORLDWIDE SUPPORT

As Wonderware products, support for Industrial Tablets and Touch Panel Computers is offered through the award-winning Wonderware technical support organization. Both the hardware and software are supported by one organization.

As the world-leading HMI, InTouch software is used in more than 300,000 customer sites across the globe. Wonderware has offices throughout the world and thus offers local support on a global scale.

In every industry, InTouch software helps customers improve their processes and productivity, reduce engineering costs, increase production efficiency and lower their total cost of ownership.

By standardizing on one software vendor, costs are also minimized, while support is maximized. Throughout the world, technical support is available 24 hours a day, 7 days a week, 365 days a year.

WONDERWARE TOUCH PANEL COMPUTERS



FEATURES	10.4"	12.1"	15"	17"
Display				
Type	TFT LCD 32 Bit Color Display, Resistive Touch Screen / Intel Extreme Graphics with 64MB shared video RAM			
Size/Resolution	800x600	800x600	1024x768	1280x1024
Bezel Options	Black Aluminum or Stainless Steel			
PC Data				
Pre-Installed Software	Wonderware InTouch HMI software 1K or 2K tags RT (upgradeable to 3K or 60K tag RT) with I/O and DAServers IAS Bootstrap, My-T-Touch onscreen keyboard		Wonderware InTouch HMI software 2K tags RT (upgradeable to 3K or 60K tag RT) with I/O and DAServers IAS Bootstrap, My-T-Touch onscreen keyboard	
Operating System	Microsoft Windows XP Professional			
Processor	Celeron M 600 MHz		Pentium M 1.1 GHz	
Memory	512 MB		512 MB or 1 GB	
Solid State Drive	Optional: 4 GB on XP Professional			
Hard Disk Drive	20 GB or 40 GB			
Network	2 Ethernet (10/100T)			
External Interfaces	1 Compact Flash type II slot, 2 USB, 2 RS232, 1 RS 422/485, 1 LPT1, 2 PS/2 1 USB on front (Aluminum bezel only)			
Expansion Slots	1 x 32 bit available PCI slot (half size)			
System Diagnostics	Onboard Diagnostics Monitor: voltages and temperature / LED indicator on rear panel: 1x Power LED, 1 x HDD activity LED			
Overall Dimensions (WxHxD)	348 x 217 x 151.4 mm	380 x 312 x 156.6 mm	449.4 x 354 x 116.7 mm	461 x 399 x 122.3 mm
Electrical				
Rated Input Voltage	Universal Power: AC: 100-240 VAC, 50-60Hz, external AC/DC power supply DC: 24VDC (+20 to +28 VDC, 3.6 amp max)			
Environmental				
Thermal Management	Fanless, passive cooling			
Temperature	Operating: 0 to +50°C (32°F to 122°F) / Storage: -25°C to +70°C (-13°F to 158°F)			
Operating Humidity	5-95% non condensing			
Shock	DIN EN 60068-2-6 / Operating: 15G, 11 ms duration / Storage: 50G, 11 ms duration, half-sinus			
Vibration	Operating: 10-500 Hz: 1G / 3 axis - Storage: 10-500 Hz: 2G / 3 axis			
Altitude	Operating: 10000 ft (3,048m) / Storage: 15000 ft (4,622m)			
Protection Class	IP65 (front side), NEMA 250 type 12 and 13			
MTBF	40,000 hours (excluding backlight)			
Certifications				
Safety Standards				
EUROPE	CE			
U.S.A./Canada	UL/cUL			
EMC Standards				
EUROPE	EN61000-6-2; EN55022/A (CISPR22)			
U.S.A./ Canada	FCC47 CFR PART 15; Class A level			

*Note: Specifications are subject to change.

WONDERWARE INDUSTRIAL TABLETS

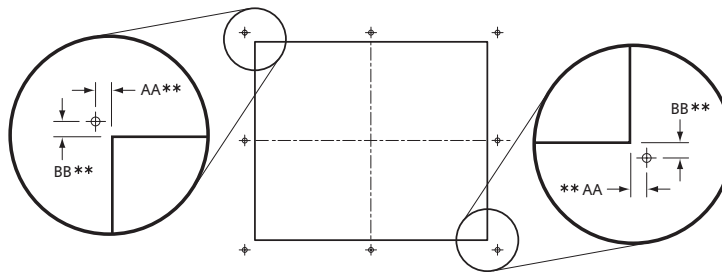
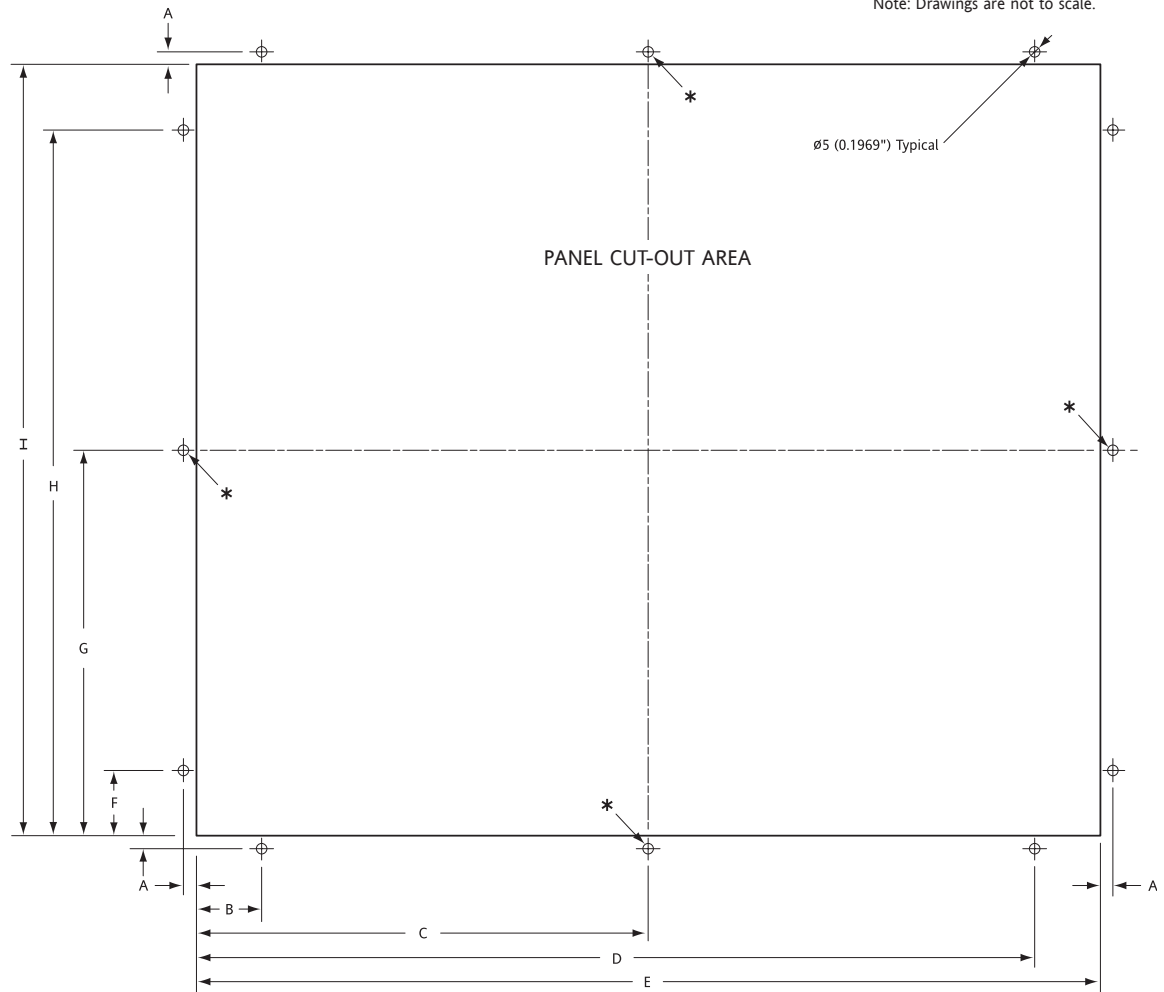


Display	
Type	Active Matrix Display; Transmissive (indoor), All-Vis (indoor/outdoor), Hi-Vis (high resolution)
Size/Resolution	10.4-inch SVGA active matrix color display, 800x600 or 1024x768
Bezel Options	Black Aluminum Only
PC Data	
Pre-Installed Software	3000-tag Wonderware InTouch HMI software
Operating System	Microsoft Windows XP Tablet PC Edition
Processor	933 MHz Mobile Intel Pentium III Processor-M with Enhanced Intel Speedstep technology
Memory	N/A
Hard Disk Drive	20 GB shock-mounted rotating hard disk
Network	802.11 a/b/g Wireless Ethernet
External Interfaces	1 PCMCIA (type III), 1 USB, Docking Station
Expansion Slots	Via Docking Station: Up to 3 serial ports (2 partial), 1 USB, 1 EPP parallel port, 1 SVGA video, 1 AC power connection, 1 keyboard, PS/2
System Diagnostics	Battery status LEDs, HDD activity LED, External Power LED
Overall Dimensions (WxHxD)	270 x 210 x 40 (mm)
Electrical	
Rated Input Voltage	Universal AC adapter: 110V-250V, 50-60 Hz Memory-free "smart" Li-Ion battery technology Hot-swappable batteries provide 40 nominal Watt hours of power
Environmental	
Thermal Management	Fanless, passive cooling
Temperature	Operating temperature: 0°C to 60°C (32°F to 140°F); (MIL-STD-810F, Method 501.4 & 502.4, Procedure II)
Operating Humidity	0 to 95% non-condensing humidity (MIL-STD-810F, Method 507.4)
Shock	MIL-STD-810F, Method 516.5, Procedure IV, Transit Drop Test, 4 ft.
Vibration	MIL-STD-810F, Method 514.5, Procedure I, Category 4 (Truck) & 24
Protection Class	Rain (IEC529, IP67) / Dust (IEC529, IP67)
Certifications	
Safety Standards	
EUROPE	CE
U.S.A./Canada	UL/cUL
Standards	
EUROPE	EMC Directive 89/336/EEC
U.S.A./ Canada	FCC Part 15 Class B, Canada ICES-003 Class B
Other	Japan VCCI, CISPR22 Class B; Australia/New Zealand ACA, AS/NZS 3548

*Note: Specifications are subject to change.

PANEL INSTALLATION SPECIFICATIONS

Note: Drawings are not to scale.



12" Panel (Typical) Corner

INSTALLATION INSTRUCTIONS
 ALL STUDS HAVE TO BE PROPERLY TIGHTENED, MAX. TORQUE 1.7Nm
 DO NOT LOAD THE STUDS IN AXIAL DIRECTION, MAX. PUSHOUT 890 N
 STUDS ARE NOT INTENDED OF FLEXURAL STRESS, MAX. LOAD 200 N ON THE END OF THE STUD IN ANY DIRECTION

PANEL SIZES	INCHES									MILLIMETERS								
	A	B	C	D	E	F	G	H	I	A	B	C	D	E	F	G	H	I
10.4"	0.2756"	1.8110"	N/A	9.8819"	11.6929"	1.2598"	N/A	8.0315"	9.2913"	7	46	N/A	251	297	32	N/A	204	236
12.1"	N/A	N/A	6.4173"	N/A	12.8346"	N/A	5.2165"	N/A	10.4331"	N/A	N/A	163	N/A	326	N/A	135.5	N/A	265
15"	0.2362"	0.7480"	8.0787"	15.4094"	16.1575"	0.7480"	6.2008"	11.6535"	12.4016"	6	19	205.2	391.4	410.4	19	157.5	296	315
17"	0.2362"	1.2008"	8.3071"	15.4134"	16.6142"	1.2008"	7.0866"	12.9724"	14.1732"	6	30.5	211	391.5	422	30.5	180	329.5	360

*THESE HOLES DO NOT EXIST ON THE 10" PANEL. **DIMENSION AA = 12.5 (0.4921"), BB = 9 (0.3459")

Contact Wonderware or your local Distributor for information about software products for industrial automation.
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