



# Wyse® Winterm™ V90

The Most Feature Rich, Highest Performing, Windows XP Embedded Thin Client

Enable workers to cost-effectively run application software at any workspace with inherent immunity from viruses and malicious software. The “install and go” quality of Wyse® thin clients managed by Wyse™ Rapport® keeps maintenance and total cost of ownership at a minimum. Powered by Microsoft® Windows® XP Embedded operating system, the model V90 has a common Windows user interface, delivers responsive local and remote application and browsing performance, and offers rich peripheral connectivity in a sleek and compact enclosure.

Wyse Technology, the leading supplier of thin client solutions, is the choice of the world’s largest businesses and institutions offering the most cost-effective, highly manageable, and secure way to deploy applications including rich GUI-based and media rich Windows® applications to end-users throughout any enterprise. Low client cost, low power consumption, obsolescence-free longevity, effortless device setup, and remote management combine to keep your overall application deployment and computing environment costs to a minimum without sacrificing capabilities.

The Winterm™ V90 includes a powerful 1GHz CPU; smart card slot; CardBus/PCMCIA slot; and serial, parallel, and USB ports. Video performance is fast and crisp, minimizing eye-strain and meeting stringent health and ergonomic requirements. The Winterm V90 runs the Microsoft® Windows XP Embedded operating system providing fast boot-up functionality and the ability to easily and rapidly switch between a typical PC desktop and a connection manager dashboard. Because the model V90 is diskless and application installation and execution is fully managed, it is inherently secure from viruses and other malicious software attacks.

The Winterm V90 offers a broad range of mounting options for any work environment via its innovative monorail mounting system that allows the unit to be conveniently attached to a wall, a desk, under a work space, within a cash register, or any space constrained environment.

As with all Winterm thin clients, the Winterm V90 comes bundled with Wyse™ Rapport® (Workgroup edition), the enterprise client management tool that leverages the value of your IT infrastructure for maximum ROI.

## Features

## Benefits

True 1GHz x86 CPU coupled to a high resolution 24-bit video controller	Delivers superior performance to CPU emulating architectures and high resolution video systems for fast display updates and local application performance
PC/SC smart card reader support	Provides 2-factor secure logon and free-seating to roving users
Innovative monorail mounting system	Zero desktop footprint and enhanced physical security is ideal for wall, desk, or under workspace mounting
32-bit CardBus/PC-Card expansion slot with physical restraint	Supports a broad array of add-on hardware peripherals, with removal prevention
Broad connection options: 2 serial, 1 parallel, 2 PS/2, audio in, headphone /speaker out, and 3 USB 2.0 ports	I/O rich, ready for all your peripheral needs and can take advantage of high speed peripherals, such as mass storage with USB 2.0 support
Microsoft Windows XP Embedded OS	Rich Windows desktop environment to run desktop application software with vast support for peripherals and their corresponding drivers
Familiar Windows XP graphical user interface	Run application software locally and on a server with a common user interface
Embedded custom local applications	Commonly used applications can be built into the device's image so they are immediately available to run locally
Supports RDP 5.2, ICA® 8.0 protocols and terminal emulation	Connectivity and access to applications running on a server via Windows Terminal Services and the Citrix Access Platform
Internet Explorer 6.0 and Microsoft Media Player	Industry-standard web browser and plays industry-standard multimedia formats
Diskless, fanless, convection cooled	Quiet, no moving parts, durable, low operating cost, low service, very long Mean Time Between Failures (MTBF)
Wyse™ Rapport® (Workgroup edition) client management software	"Visit-free" total control — remote management, upgrades, and configuration from administrator's console
Three-year hassle-free limited warranty	Assurance of reliability, availability, and performance from the industry leader

# Software

<b>Windows Custom-Application Terminal</b>	<ul style="list-style-type: none"> <li>Based on Microsoft Windows XP Embedded operating system</li> <li>512MB flash/256MB DDR RAM (standard)</li> </ul>	<ul style="list-style-type: none"> <li>Integrated Microsoft RDP, Citrix ICA, and terminal emulation protocols standard</li> </ul>
<b>Firmware Features</b>	<ul style="list-style-type: none"> <li>Microsoft Windows XPe</li> <li>Microsoft Internet Explorer 6.0 resident: HTML, JavaScript, XML, Active X, Sun JRE, Media Player 6.4, Citrix Web Client</li> </ul>	<ul style="list-style-type: none"> <li>RDP 5.2 resident<sup>1</sup></li> <li>Citrix ICA 8.0 resident<sup>1</sup></li> <li>Terminal emulation, emulates 60 terminal types<sup>2</sup></li> </ul>
<b>Server OS Compatibility/Support</b>	<ul style="list-style-type: none"> <li>Microsoft Windows 2000/2003 Server</li> <li>Microsoft Windows NT Server 4.0, Terminal Server Edition</li> </ul>	<ul style="list-style-type: none"> <li>Citrix® WinFrame® and MetaFrame®</li> </ul>
<b>Set-Up and Configuration</b>	<b>User interface</b> <ul style="list-style-type: none"> <li>Boot from local flash</li> <li>Windows XP user interface language: U.S. English; French, German, Spanish optional</li> </ul>	<ul style="list-style-type: none"> <li>Keyboard language support: U.S. English standard; French, German, Italian, U.K. English, 34 others included</li> </ul>
<b>Protocol Support</b>	<ul style="list-style-type: none"> <li>TCP/IP, DNS, DHCP, PXE</li> </ul>	
<b>Management</b>	<ul style="list-style-type: none"> <li>Remote management, configuration, and upgrades through Wyse Rapport client management software version 4.4.1 or later</li> <li>Complete image upgrade</li> <li>Wake terminal remotely (Wake-on-LAN)</li> </ul>	<ul style="list-style-type: none"> <li>Terminal configuration (IP information, name, etc.)</li> <li>Reporting</li> <li>Remote screen shadowing of entire desktop (VNC)</li> <li>Asset management</li> </ul>

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# Hardware

<b>Processor</b>	<ul style="list-style-type: none"> <li>True x86 CPU clocked at 1GHz</li> </ul>									
<b>Input/Output/Peripheral Support</b>	<ul style="list-style-type: none"> <li>Two serial ports and one parallel port</li> <li>Three USB 2.0 ports</li> <li>Keyboard: USB with Windows keys (104 keys) included<sup>3</sup></li> <li>CardBus/PCMCIA card slot</li> </ul>	<ul style="list-style-type: none"> <li>Mouse: PS/2 mouse included</li> <li>Local printers via USB, parallel, serial, ethernet</li> <li>VGA-type video output (DB-15)</li> <li>Internal smart card reader (factory installed option)<sup>5</sup></li> </ul>								
<b>Networking</b>	<ul style="list-style-type: none"> <li>10/100Base-T Fast Ethernet, twisted pair (RJ-45)</li> <li>Wi-Fi wireless LAN connectivity via external USB</li> </ul>	and CardBus adapters (available separately)								
<b>Display Support<sup>4</sup></b>	<ul style="list-style-type: none"> <li>VESA monitor support, with Display Data Control (DDC) for automatic setting of resolution, and refresh rate</li> </ul>	<table border="0"> <tr> <td><b>Display resolution</b></td> <td><b>Color depth</b></td> </tr> <tr> <td>1280x1024 @ 100Hz</td> <td>16-bit, 64K colors</td> </tr> <tr> <td>1600x1200 @85Hz</td> <td>16-bit, 64K colors</td> </tr> <tr> <td>1280x1024 @ 100Hz</td> <td>24-bit, 16.7M colors</td> </tr> </table>	<b>Display resolution</b>	<b>Color depth</b>	1280x1024 @ 100Hz	16-bit, 64K colors	1600x1200 @85Hz	16-bit, 64K colors	1280x1024 @ 100Hz	24-bit, 16.7M colors
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<b>Audio<sup>4</sup></b>	<ul style="list-style-type: none"> <li>Output: 1/8-inch mini, full 16-bit stereo, 48 KHz sample rate</li> </ul>	<ul style="list-style-type: none"> <li>Input: 1/8-inch 8-bit mini microphone</li> </ul>								
<b>Physical Characteristics (H x W x D)</b>	<ul style="list-style-type: none"> <li>Height: 7.9 inches (201mm)</li> <li>Width: 1.8 inches (46mm)</li> <li>Depth: 7.1 inches (180mm)</li> <li>Shipping weight: 8lbs (3.6kg)</li> </ul>	<ul style="list-style-type: none"> <li>Built in Kensington security slot (cable lock sold separately)</li> <li>Optional mounting bracket for wall and monitor installation sold separately</li> <li>Optional vertical foot included (as shown at right); horizontal feet sold separately</li> </ul>								
<b>Accessories and Add-Ons</b>	<ul style="list-style-type: none"> <li>Accessory, option, and add-on information can be found at <a href="http://www.wyse.com/products/accessories">www.wyse.com/products/accessories</a></li> </ul>									
<b>Environmental</b>	<b>Temperature range</b> <ul style="list-style-type: none"> <li>Operating: 32° to 104°F (0° to 40° C)</li> <li>Storage: -14° to 140°F (-10° to 60° C)</li> <li>Convection cooling, fanless design</li> </ul>	<b>Humidity</b> <ul style="list-style-type: none"> <li>20% to 80% noncondensing</li> </ul> <b>Operating altitude range</b> <ul style="list-style-type: none"> <li>0 to 10,000 feet (0 to 3,050 meters)</li> </ul>								
<b>Power</b>	<ul style="list-style-type: none"> <li>Worldwide auto-sensing 100-240 VAC, 47-63 Hz</li> </ul>	<ul style="list-style-type: none"> <li>Average power usage: 17.2Watts (set-up: device connected with 1 PS/2 keyboard, 1 PS/2 mouse and, monitor)</li> </ul>								
<b>Regulatory compliance</b>	<table border="0"> <tr> <td><b>Ergonomics</b></td> <td><b>Safety</b></td> </tr> <tr> <td> <ul style="list-style-type: none"> <li>German EKI-ITB 2000</li> <li>ISO 9241-3/-8</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>cULus 60950</li> <li>TÜV-GS</li> <li>EN 60950</li> </ul> </td> </tr> </table>	<b>Ergonomics</b>	<b>Safety</b>	<ul style="list-style-type: none"> <li>German EKI-ITB 2000</li> <li>ISO 9241-3/-8</li> </ul>	<ul style="list-style-type: none"> <li>cULus 60950</li> <li>TÜV-GS</li> <li>EN 60950</li> </ul>	<b>RF interference</b> <ul style="list-style-type: none"> <li>FCC Class B</li> <li>CE</li> <li>VCCI</li> <li>C-Tick</li> </ul>				
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<b>Warranty</b>	<ul style="list-style-type: none"> <li>Three-year limited warranty</li> </ul>									



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<http://www.wyse.co.uk>  
<http://www.wyse.com>

**Or send email to:**  
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(800 800 9973)

<sup>1</sup>Contact Wyse for the latest versions. <sup>2</sup>Ericom-PowerTerm™ Terminal Emulation. <sup>3</sup>International keyboards are provided in a localized product kit and may also be purchased separately. <sup>4</sup>Monitor, speakers, and microphone not included. <sup>5</sup>Omnikey smart card reader.

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