

Pano Express

Data Sheet

How It Works:

A complete turn-key installation of Pano System virtual desktops for 50 users – including 50 zero client Pano Device endpoints, Pano Manager management and connection broker software, Windows VECD licenses, VMware vCenter Server VM management tool and the VMware ESXi hypervisor – all pre-installed and pre-configured on optimized HP server hardware, ready to go out of the box.

Pre-built templates for desktop virtual machines running both Windows XP and Windows 7 are included on the server's hard drives, optionally with the OpenOffice.org productivity suite already installed so you can get started with VDI right away.

Just unbox the server, run a quick automated Setup Wizard, and connect the Pano Devices to your network, monitors, keyboards and mice – and your virtual desktops are ready to go.



What is Included:

Component	Qty	Vendor	Technical Support and Maintenance Included
Pano System	50	Pano Logic	Includes 1 year of online and phone customer support, 1 year maintenance for software, and a 3 year limited warranty for Pano Device hardware.
Windows VECD Licenses	50	Microsoft	Device-based subscription license which must be renewed after first year. Support obtained as specified in Microsoft Volume Licensing Agreement or online from Microsoft Support.
VMware vSphere 4 Essentials Bundle	1	VMware	Includes 1 year software updates. Per Incident Support Packs available at extra charge from VMware Online Store.
Server & Storage Hardware	1	HP	HP 3 year Customer Self Repair (CSR) parts-only limited warranty. HP Care Packs available for support and maintenance upgrades.

Key Benefits:

Pano Express can help you quickly realize the benefits of desktop virtualization – achieving radical TCO reductions of up to 70% while still delivering the full native Windows desktops your users need – without the potential risks, costs, and delays a custom installation might involve.

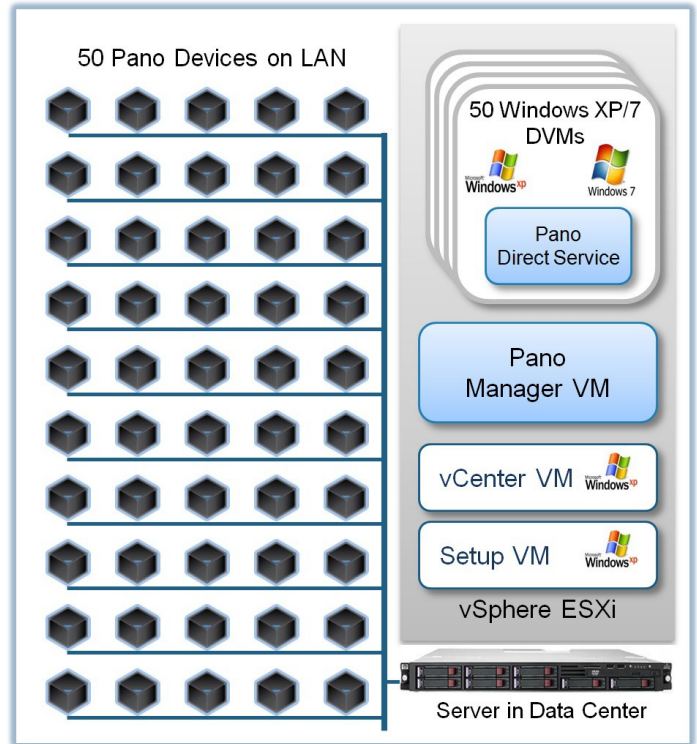
- **Lowest cost per seat of any true virtual desktop** at just \$489 per seat, costing only one-half to one-third as much as other VDI solutions.
- **Everything needed, based on best of breed technology**, with no worries about complicated configurations, lengthy installs or missing a key component at the last minute.
- **Optimized performance, right out of the box**, leveraging our broad base of VDI experience and best practices along with Intel's cutting-edge support for virtualization, potentially saving you weeks of time spent tweaking and tuning.

Workloads Tested and Benchmarked:

The entire system has been optimized and benchmarked for 50 concurrent simulated users on both Windows XP and Windows 7 virtual desktops. Tested workloads consisted of light to medium office or task work involving running two to three open applications at time – specifically the light use of Microsoft Office 2007 applications (Outlook, Word, Excel, and PowerPoint) and the Windows Internet Explorer 8 web browser.

Technical Specifications:

- **Server Configuration:** Dual Intel E5620 2.4 GHz CPUs (each Quad-core with hyperthreading and 12 MB L3 cache), 48 GB RAM, and seven internal 146 GB 10K rpm 2.5" SAS hard drives which are configured in a single RAID5 volume.
- **VMware Configuration:** VMware vSphere Essentials includes vSphere ESXi 4.0, vCenter Server for Essentials, vCenter Agent and Update Manager. Licensed for up to 3 hosts, each with up to 2 six-core CPUs and 256 GB RAM.
- **Desktop Virtual Machine Allocations:** each allocated up to 400 MHz CPU, 1 GB RAM, 12 GB disk space, and 18 IOPS of storage bandwidth.
- **Network Requirements:** DHCP server is required for deployment; Microsoft Active Directory is optional.
- **Weights:** Server chassis is 34 lbs (16.78 kg) maximum; Pano Devices are 1.1 lbs (500 g) each.
- **Dimensions:** Server 1U chassis is H: 1.70" x W: 17.64" x D: 26.85" (43.2mm x 448mm x 682mm); Pano Devices are H: 2.00" x W: 3.50" x D: 3.50" (51mm x 88.8mm x 88.8mm)
- **Power Requirements, Pano Device:** Worldwide auto-sensing 100-240 VAC, 50/60 Hz supply; usage with USB keyboard and mouse connected is just 3.5 watts per Pano Device.



- **Operating Ranges:** Server: temperature 50-95° F (10-35° C), 10-90% relative humidity; Pano Device: temperature of 50-104° F (10-40° C), humidity 20-80% non-condensing.
- **Regulatory Compliance for Pano Device:** RF Interference: FCC Class B, CE; RoHS Compliant.

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