

Pano Express HA

Data Sheet

How It Works:

Pano Express HA provides a complete high availability virtual desktop infrastructure, supporting branch offices to enterprise departments with 30 to 60 users. Its virtual desktops provide a level of availability and accessibility impossible to achieve with traditional PCs.

Based on Pano Zero Clients with VMware vSphere Essentials and DataCore's SANsymphony™-V storage hypervisor software, Pano Express HA runs on redundant fault-tolerant enterprise-grade servers.

Pano Express HA includes the latest generation of Pano System software and Zero Clients to provide robust, continuous access to virtual desktops supporting a broad range of workloads in both Windows XP and Windows 7.



What is Included:

Pano Express HA includes:

- 30 to 60 **Pano System** seats with black Pano Zero Clients
- **Dual redundant Pano Express HA servers** with the latest Intel six-core CPUs, interconnected to form an advanced fault-tolerant virtual storage network.
- **DataCore's SANsymphony™-V Storage Hypervisor** software providing real-time virtual machine replication, ensuring that a server failure doesn't cause any user downtime.
- **VMware vSphere 4 Essentials** includes vSphere ESXi and vCenter Server, supported by Windows Server 2008 R2 virtual machines to host vCenter Server and SANsymphony-V.
- **Support and Maintenance** for all components provided by Pano Logic with 1 year of 11x5 phone support and up to 3 years of software updates.
- **Hardware warranties for 3 years** for Zero Clients and servers, with on-site next business day parts and services coverage for server repairs.

Key Benefits:

Pano Express HA can help you quickly realize the benefits of desktop virtualization without the potential risks, costs, and demands on IT resources a custom installation might involve.

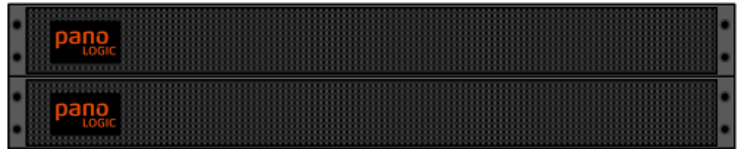
- **Single contact for support** – Pano Logic provides front line support for entire bundle.
- **Robust, fault-tolerant design** – high-availability infrastructure keeps your virtual desktop running even if multiple hardware or software failures occur, without any user downtime.
- **Rightsized and optimally configured** for up to 60 virtual desktops running Windows XP or 7.
- **Ready to go right out of the box** with VMware and DataCore software pre-installed and preconfigured, running on industry-standard redundant server hardware using the latest generation of Intel Xeon CPUs, RAID array data protection, and enterprise-level disk drives.
- **Simple and scalable** using DataCore's advanced storage hypervisor with real-time replication rather than costly and complex SAN or NAS hardware.

User Workloads:

The Pano Express HA servers have been preconfigured for up to 60 concurrent users running either Windows XP or Windows 7 virtual desktops. Target workloads include medium office or knowledge worker

running two to three Office suite and Internet applications at a time. Hardware configuration provides the overhead needed for power users working with complex applications and large datasets to ensure it meets your needs now and in the future.

Optimizations in Pano System along with the latest Pano Zero Clients support the high resolution video playback and isochronous USB devices (headsets, microphones, and webcams) needed for audio and video input/output in unified communications, transcription/dictation, online training courseware, and other multimedia content.



Technical Specifications:

Pano Zero Clients:

- **Power:** worldwide auto-sensing 100-240 VAC, 50/60 Hz supply; maximum power usage with dual monitors, USB keyboard/mouse connected is just 6.5 watts.
- **Weight:** 1.1 lbs. (500 g) each
- **Dimensions:** H: 2.00" x W: 3.50" x D: 3.50" (51mm x 88.8mm x 88.8mm)
- **Operating Range:** temperature of 50-104°F (10-40°C), humidity 20-80% non-condensing.
- **Regulatory Compliance:** RF Interference: FCC Class B, CE; RoHS Compliant.

Pano Express HA Servers:

- **Power:** each server has a minimum power usage of 178 watts and maximum of 549 watts from a power supply with 92% efficiency (at 50% load) fulfilling CSCI "GOLD", total peak of 1098 watts
- **VMware Configuration:** VMware vSphere Essentials includes vSphere ESXi 4.1, vCenter Server for Essentials, vCenter Agent and Update Manager.
- **Network Requirements:** DHCP server is required for deployment; Directory service optional but recommended.
- **Weight:** Servers are up to 37.5 lbs. (17 kg) each, total of 75 lbs. (34 kg)
- **Dimensions:** Servers each H: 1.69" x W: 18.98" x D: 30" (43 mm x 482 mm (Bezel) / 431mm (Body) x 762 mm)
- **Operating Range:** temperature 50-95°F (10-35°C), 10-85% relative humidity.
- **Regulatory Compliance:** CSAc/us, ULc/us, ICES-003 Class A, FCC Class A, CE Class A, Germany GS; RoHS, WEEE, CB Compliant.