

# Pano Express for Education

## Data Sheet

### How It Works:

A complete turn-key installation of Pano System virtual desktops for 30 students or staff – Pano Zero Client endpoints, Pano System and VMware vSphere software – all pre-installed on an optimized HP server, ready to go out of the box.

Just unbox the server, configure users and desktop virtual machines using the Pano System, connect the Pano Zero Clients to your network, and add Microsoft VDA licenses, monitors, keyboards and mice – and your virtual desktops are ready to go.



Pano Express for Education is rightsized for classrooms and computer labs, allowing you to easily deploy one or more servers in an on-premise wiring closet or server rack, providing state-of-the-art desktop computing resources. And Pano System's web-based management interface can be accessed over your network, allowing centralized management of multiple deployments.

### What is Included:

Pano Express for Education includes:

- **30 Pano System** seats with black **Pano Zero Clients**
- **Pano Express for Education server** with the latest enterprise-grade Intel six-core CPUs, fault-tolerant disk arrays, and redundant power supplies.
- **VMware vSphere 5 Essentials** includes vSphere ESXi and vCenter Server, supported by a Windows Server 2008 R2 virtual machine hosting vCenter Server.
- **Software Updates for all components for 1 year** and continuing access to online Basic Support resources. Pano Logic Premium Support Subscriptions and Per Incident support must be purchased separately.
- **Hardware warranties for 3 years** for Zero Clients and server, with Customer Self Repair (CSR) parts-only limited warranty for server. HP Care Packs are available to upgrade the server's warranty and support.

### Key Benefits:

Pano Express for Education can help you quickly deliver 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 demands on IT resources a custom installation might involve.

- **Only truly complete solution for virtual desktops**, providing all the hardware and virtualization software you'll need, costing a fraction of other VDI solutions.
- **Everything needed, based on the latest versions of best of breed technology**, with no worries about getting the right server sizing 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.

## User Workloads:

The Pano Express for Education system has been preconfigured for 30 concurrent users running either Windows XP or Windows 7 virtual desktops. Target workloads include running 2 to 3 productivity suite, multimedia course or Internet applications concurrently. Its hardware configuration provides the overhead needed for power users and complex applications.

Optimizations in Pano System along with the latest Pano Zero Client hardware support high resolution video and USB devices (headsets, microphones, and webcams) needed for audio and video in language labs, computer-based coursework, and other educational multimedia content.

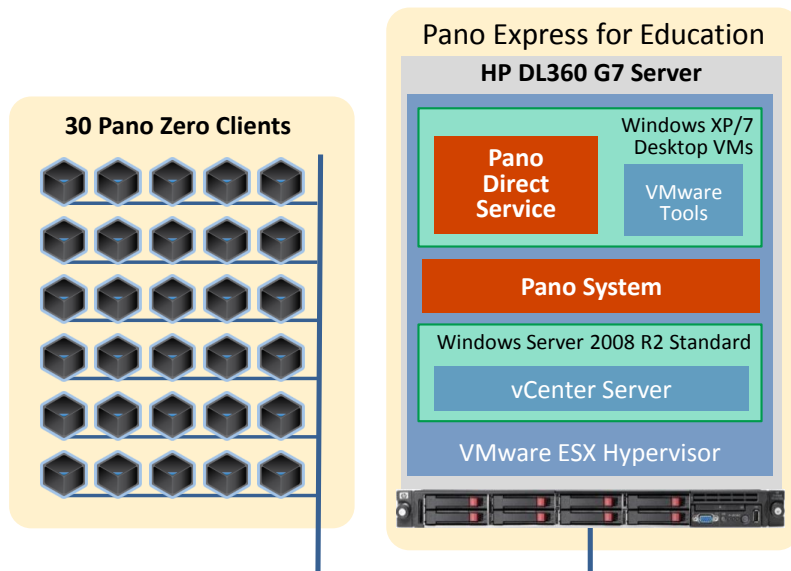
## Technical Specifications:

### Pano Zero Client:

- **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 for Education Server:

- **Server Configuration:** HP DL360 G7 server with dual Intel E5645 2.4 GHz CPUs (each six-core with hyperthreading and 12 MB L3 cache), 72 GB RAM, and eight internal 300 GB 10K rpm 2.5" SAS hard drives which are configured in a single RAID5 volume.
- **VMware Configuration:** VMware vSphere 5 Essentials includes vSphere ESXi, vCenter Server for Essentials, vCenter Agent and Update Manager licensed for no more than 3 servers.



- **Network Requirements:** DHCP server is required for deployment; Microsoft Active Directory is optional.
- **Power:** maximum of 450 watts of input power (325 watts output).
- **Weight:** Server chassis is 27.5 lbs. (12.47 kg) without hard drives
- **Dimensions:** Server 1U chassis is H: 1.70" x W: 16.78" x D: 27.25" (43.2mm x 462.2mm x 692.2mm);
- **Operating Ranges:** temperature 50-95° F (10-35° C), 8-90% relative humidity