

Preliminary Smart Schools Investment Plan

Expenditure Category: Install High-Tech Security Features in School Buildings and on School Campuses

Ticonderoga Central School district would like to replace the old security camera system at the Elementary/Middle School building. The current system is using coax cable and is connected to an old stand alone DVR setup that does not allow for remote monitoring of cameras. We would like to install Cat5E cabling, replace existing cameras with POE cameras, install POE switches to power the cameras, and install new computer hardware and software to manage the camera system.

The breakdown is as follows:

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POE Cameras:

Indoor Cameras: Canon VB-S30D

Outdoor Cameras: Dahua IPC-HFW4300S 3MP Eco-Savvy Weatherproof Hi Def IP Security Camera 3.6mm

34 indoor cameras @ \$683.87 = \$23,251.58

15 outdoor cameras @ \$84.89 = \$1,273.35

Camera Total = \$24,524.93

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Computer Equipment and Software:

4 POE Switches will be required. 1 at each of the following locations: Kindergarten wiring closet, ES wiring closet, Maintenance wiring closet, and MS wiring closet.

HP Procurve 24 port POE managed switch: \$520 x 4 = \$2,080

Security Spy Camera Software (Unlimited Cameras) = \$1,000

6TB Thunderbolt External RAID Storage = \$600

Mac Pro = \$6,598

- 2.7GHz 12-core with 30MB of L3 cache
- 32GB (4x8GB) of 1866MHz DDR3 ECC
- 256GB PCIe-based flash storage
- Dual AMD FirePro D300 GPUs with 2GB of GDDR5 VRAM each

27 inch HDMI monitor = \$300

Total = \$10,579

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CABLING AND INSTALLATION

Cabling materials (cat5, ends, wire for outside units, wire mold) = \$5000

Labor: 6 days to pull wire
 12 days to hang and install cameras = \$5400

Total = \$10,400

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TOTAL COST OF SECURITY CAMERA SYSTEM WITH INSTALLATION = \$45,503.93

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At this time, most classrooms in the Elementary/Middle School building do not have classroom doors. As part of the Smart Schools Investment Plan, Ticonderoga Central Schools would like to add doors to eight different classrooms. Four in the Middle School and four in the Elementary School. These doors would be added to classrooms that would most effectively reduce travel times for students in unsecure hallways moving to secure locations during a school lockdown procedure.

DOORS

Installation per door with labor = \$3,500

8 doors @ \$3500 = \$28,000

**-The total price estimate for the Security Camera System and Classroom Doors =
\$73,503.93**