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Kentucky Lt. Gov. Steve Pence and DJJ Commissioner Bridget Skaggs Brown applaud the new system at its unveiling.



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**Bid-Winning Surveillance Solutions: Kentucky Department of Juvenile Justice Goes Wireless**

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The DJJ, which is composed of 30 residential facilities, is implementing EMC Corporation's Surveillance Analysis and Management Solution (SAMS).

The installation of the system began earlier this year with an all-female minimum security facility, one of the state's oldest juvenile facilities. The second site in the roll-out was the Audubon Youth Development Center in Louisville. The project spans to level-5 security facilities, each with a SAMS system that will provide storage capabilities to capture and archive the video streams and a highly-secured, searchable ability to view those archived videos.

SAMS is a combination of hardware, software and professional services that enable the storage, archiving, fast searching and analysis of petabytes of video and other data from physical security devices such as surveillance cameras and access control systems. It was introduced by EMC, the world leader in information storage and management, in August.

**Why Wireless?**

Each DJJ facility will have indoor and exterior cameras – including high-impact enclosures, wedge mounts, corner units, and optional wireless solutions with pan/tilt/zoom – all integrating back to command centers or a SAMS viewing station.

The surveillance challenge of many juvenile facilities lies in the open spaces which are difficult to monitor, such as ball fields or recreational areas. In the past, such areas were considered either cost-prohibitive or too physically challenging to cover with surveillance. Wireless meets the challenge by reaching out to the equipment, allowing the camera to wirelessly and securely transmit its video stream back to central storage.

"Wireless technology provides the freedom and cost savings to install CCTV equipment in places that were previously cost prohibitive – on top of water towers, bridges, communication towers, parking decks, and billboards," says Ray Pagano, president of Videolarm. "The applications are endless, and so are the opportunities."

Says EMC's John McKenzie, the sales executive who worked the order with the Kentucky DJJ, "The further we get into this, the more excited we are about the technology and its ability to do different things."

*"[The competition's] units were heavy and fixed; Videolarm's products are more aesthetically pleasing, streamlined and flexible, and the wireless was second to none."*  
 –John McKenzie, Sales Executive for EMC

**Why Videolarm?**

EMC wanted a company that had leading-edge design and the willingness to be flexible and adaptive to the system's other specifications, notably the cameras.

"Pelco's units were heavy and fixed," McKenzie says. "Videolarm's products were more aesthetically pleasing, streamlined and flexible, and the wireless was second to none." He added that Videolarm's "price performance compared to others" was what EMC needed.

Once Videolarm was chosen, the process of final design approval began. "We really didn't know exactly what we were going to need, so there was a whole lot of shipping back and forth of demos before we got final DJJ approval," McKenzie recalls.

Videolarm's hard work to meet its customer's needs also came into play when the DJJ determined a unique surveillance need for total coverage of a very small room. "We needed something that covered all six surfaces – four walls and ceiling and floor," says Michael Dossett, Deputy Commissioner for DJJ.

Videolarm adapted one of its products in the Warrior series with a lens that not only met but exceeded all expectations. It's now going to be used in all facilities in the project.

Yet another situation in which Videolarm was put to the test involved its ACE20 enclosure. "As a customer, I expect a vendor to know their product intimately," Dossett says. "When Videolarm's president said the ACE20 would withstand the pressure from a 10-pound sledge, I said, 'Well, I can assure you that when it gets here, I'm going to call your hand and put a 10-pound sledge to it.'"

Dossett recalls: "The interesting thing was that Videolarm's Mike Medford put a sledge to it and sent me the enclosure. It withstood the blow, and the camera inside would not have been harmed."

Both Dossett and McKenzie praise the ACE20 for its slim and aesthetic lines, its ease in mounting and accessing the camera, and that it's manufactured with security closures – one of the project's requirements.

"The ACE20 is our workhorse," McKenzie says.

**Winning With Wireless**

If you're wooing a customer with a challenging outdoor application, consider these suggestions from Videolarm's president, Ray Pagano:

"Your customers want the very best protection for their money – so why is our industry so bent on putting costly surveillance cameras on the roof of a building?

I hear people say, 'It's less expensive than putting up a pole if one doesn't already exist and trenching the parking lot.' But what about the level of security the customer is receiving for the dollars spent?

When you mount a camera on a roof, your customer ends up looking at the tops of heads and missing the blinds spots of a building. A camera mounted away from the building has a much better viewing angle to I.D. a subject while providing coverage to the entire surface of the building, including what might normally be a blind spot if the camera was placed on the roof.

So how can you provide this better level of protection and still be competitive on the bid? First, sell the prospect on the concept that the camera mounted away from the building is the best way to provide adequate protection. Once your customer has approved your recommended methodology, the cost advantage part is simple – a 900 Mhz wireless communication system mounted on either an existing pole or, preferably, our PolElevator™ Lowering Pole – eliminates costly lift trucks for servicing."

**Design And Installation**

A 900 Mhz network communication system is more forgiving than the 2.4 or 5.8 GHz frequencies currently used by millions of cell phones and garage door openers. The lower the frequency, the more penetrating it is, making line of sight not as critical (although still recommended).

Video and data are transmitted by antennas for longer distances. A maximum of 12 antennas can be placed at one central location, but only after a careful survey of the area with a spectrum analyzer is performed and proper angle and distances between antennas are observed.

Frequently asked questions for this equipment, with a more in-depth explanation can be found at [www.videolarm.com/products/domes/ipwireless/domes\\_network-wireless.html](http://www.videolarm.com/products/domes/ipwireless/domes_network-wireless.html)

The ease of mounting a Videolarm wireless dome has been simplified with our factory-wired outdoor housings. You can choose from our list of outdoor domes or standard housing for fixed cameras. All housings easily accept p/t/z digital solutions manufactured by Axis, Sony, Panasonic, JVC, and others. Connections to the existing network or NVR are simplified with an RJ45 port on each receiver. For an updated compatibility chart, go to [www.videolarm.com/products/cameras/comchart.html](http://www.videolarm.com/products/cameras/comchart.html)

**More Resources**

- The American Correctional Association has two annual conferences and expos. For 2006 dates and information, go to <http://www.aca.org/Conferences/>.
- The Corrections Technology Association will have its 2006 conference April 30-May 3. For information, go to <http://www.correctionstech.org/2006Conference/index.asp>.
- The National Institute of Justice is the research and development agency of the U.S. Department of Justice. Their "Justice Technology Information Network" offers a host of information for corrections professionals. To learn more, go to <http://www.nlectc.org/justnet.html>.
- The Office of Law Enforcement Technology Commercialization (OLETC), the National Institute of Justice (NIJ), and the National Corrections and Law Enforcement Training and Technology Center (NCLCTTC) annually host a Mock Prison Riot in the former West Virginia Penitentiary in Moundsville. The purpose of the riot is to showcase emerging corrections and law enforcement technologies and to give corrections officers and tactical team members an opportunity to use and evaluate emerging technologies in riot training scenarios. For more information, visit the Riot web site at [www.oletc.org/riot/](http://www.oletc.org/riot/).

The Audubon Youth Development Center in Louisville, Kentucky is one of 30 facilities in the state's Department of Juvenile Justice system that will be fitted with EMC's Surveillance Analysis and Management Solution (SAMS), which includes Videolarm surveillance products.

Axis cameras and Videolarm housings, including wireless domes, are now installed throughout the center.

Videolarm developed the first outdoor dome enclosure in 1976 and now offers a product line that includes cameras, camera systems, the PolElevator™ lowering pole, and accessories for the security industry. The privately owned manufacturer has an international customer base which includes distributors, integrators, installers, and OEMs.

For a demo or additional information please feel free to contact Videolarm Inc., at [sales@videolarm.com](mailto:sales@videolarm.com) or visit [www.videolarm.com](http://www.videolarm.com) to locate a sales representative.

**To register with us for future emails or specific product information, please click here.**

Thank You!

**Kentucky Dept. of Juvenile Justice Implementing the Surveillance Analysis and Management Solution (SAMS)**

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Solar Power and Fixed Cameras on a Portable Platform



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Ray Pagano, Videolarm CEO

**About Videolarm**

CCTV camera and accessory manufacturer, Videolarm, developed the first outdoor dome enclosure in 1976 and now offers product lines that include cameras, camera systems, the PolElevator™ Lowering Pole, and accessories for the security industry. The privately owned manufacturer is located in Decatur, GA, just east of Atlanta. Its international customer base includes distributors, integrators, installers, and OEMs.