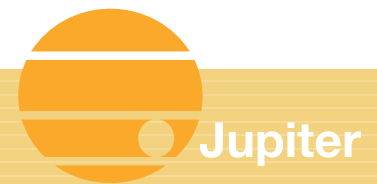


LAW ENFORCEMENT COMMAND CENTERS KEEP CITIES SAFE

AGENCIES USE AV TO REDUCE CRIME AND SAFEGUARD
LIVES AND PROPERTY



A JUPITER SYSTEMS WHITEPAPER

City and County Police Departments are responsible for law enforcement, the protection of people and property, maintaining civil order, and fighting crime. This can include everything from the fight against gangs, drugs, organized crime, and even terrorism to disaster response. Today, in police departments large and small, sophisticated surveillance, monitoring and intelligence gathering systems are employed to improve response times, enhance situational awareness and reduce crime.

In state-of-the-art operation command centers, law enforcement agencies are able to monitor multiple inputs such as live feeds from surveillance cameras, incoming emergency calls and local news and weather reports, search databases to access arrest and outstanding warrant information, and use GPS technologies to see the location of all police assets. The result is significantly improved intelligence gathering and analysis, and more effective emergency response. Connectivity within police departments and between local, state and national agencies also supports a more coordinated response effort.

Jupiter Systems, the leading worldwide supplier of display wall processors for command and control applications, provides advanced processing solutions for police operation centers around the world. Jupiter installations in law enforcement applications can be found in Dallas, Texas; Los Angeles, Calif.; Monterrey, Cancun, Mexicali, Mexico City and The Center for Research and National Security in Mexico; Saga and Ishikawain Japan; and the President's Office in Colombia.

GROWING NEED FOR ENHANCED, AFFORDABLE PUBLIC-SAFETY SOLUTIONS

In the past 10 years, law enforcement agencies have faced emergencies of a magnitude never previously imagined. The public safety concerns of the past decade have created greater urgency in law enforcement agencies to find ways to improve emergency response capabilities. There is increasing demand for real-time intelligence gathering and analysis, reliable connectivity within and across departments, and the flexibility to manage a variety of dynamic situations.

Given the budget shortfalls faced by many municipalities, affordability remains a primary concern. Many police departments that are considering technology solutions to improve their response capabilities must work within existing facility constraints. In addition, solutions often must be implemented in phases due to budgetary constraints.

TECHNOLOGIES TO HELP MEET THE NEEDS OF LAW ENFORCEMENT

Even as the challenges facing law enforcement agencies have grown exponentially, technologies have emerged that can help meet these challenges. For example:

- ▶ Most police departments have a great deal of real-time data at their disposal including video feeds from surveillance cameras, incoming emergency calls, GPS tracking of police cars and personnel, as well as computerized records of criminal activity by individual and location.
- ▶ Live digital video signals can be quickly sorted and distributed over long distances at low cost with no degradation in quality.
- ▶ New LCD displays with narrow bezels and lower prices have made it feasible to implement state-of-the-art display walls featuring real-time data in a central control room.

These technologies are putting state-of-the-art command centers within reach of more law enforcement agencies. With the greater situational awareness provided by command centers, police departments around the world are now able to make better informed decisions and respond more effectively to emergency incidents.

JUPITER SYSTEMS ARMS LAW ENFORCEMENT WITH KNOWLEDGE

Jupiter Systems is the global leader in display wall processors with thousands of high-performance, continuous-operation command and control center installations around the world. With its advanced display wall processors, Jupiter can arm law enforcement agencies with the knowledge they need to act quickly and effectively to protect the public.

Jupiter's display wall processor is the nerve center of intelligent command and control. These powerful systems aggregate data from a broad range of sources and project it on to a single large display wall or screen where it can be seen, shared and manipulated. Using the most advanced display wall technologies available, Jupiter offers a full range of solutions for law-enforcement applications, from centralized processing for large purpose-built command and control centers to revolutionary new distributed display wall systems.



FUSION CENTER, DALLAS POLICE DEPARTMENT.

CASE 1: DALLAS POLICE DEPARTMENT'S FUSION CENTER

In 2009, the Dallas Police Department (DPD) completed a comprehensive upgrade to its operations command center known as the Dallas Fusion Center. The upgrade extended the center's operations to 24 hours a day, 7 days a week and enhanced its information-gathering capabilities. Working with The Whitlock Group, a systems integration company, the DPD selected a Jupiter Fusion 960 Display Wall Controller to manage the increased number of input sources and applications for the existing display wall of six 60-inch Christie DLP cubes. The Fusion controller can manage all the visual data sources found in a control room environment, including streaming video, and arrange them in moveable, scalable windows on a virtual display.

In the Fusion Center, data sources include local applications, remote network applications and directly connected video and analog RGB inputs. The DPD is particularly enthusiastic about the Jupiter ControlPoint Pro software and its full suite of user-friendly tools that seamlessly and intuitively control the display wall and its visual sources. Completed in less than four months, the upgrade has significantly improved intelligence gathering and analysis, reduced response time and helped improve community relations, according to the DPD project coordinator.



LAPD RACR WALL POWERED BY PIXELNET®

NEW POSSIBILITIES WITH MODULAR, SCALABLE, DISTRIBUTED CONTROL SYSTEMS

In 2008, Jupiter introduced a revolutionary new way to capture, distribute, control and display digital and analog video sources. The PixelNet® product family is a new distributed system that is both modular and entirely scalable. In a PixelNet system, small local control areas are linked to a larger centralized command, enabling new inputs to be added or changed on an as needed basis. This means that a command center can now migrate from legacy, closed circuit TV-type cameras to larger numbers of networked streaming video cameras, which allows for easy system expansion or reconfiguration without scrapping existing system equipment.

The same component parts can scale from a single input distributed to a single output to hundreds of inputs and outputs. Outputs can be defined as a single display or can be logically grouped to create one or more display walls. If an agency needs to add another input or expand its display wall, they can simply add another PixelNet node. The system's PixelNet Domain Control software provides an intuitive, drag-and-drop interface that makes it easy to control and manage multiple inputs, outputs and display walls. PixelNet offers everyone from the smallest to the largest agency access to a cost-effective, expandable solution and as a result, PixelNet distributed systems are now being installed in police departments throughout the world.

CASE 2: LOS ANGELES POLICE DEPARTMENT'S RACR CONTROL ROOM

Faced with a move into a new, state-of-the-art building, the Real-Time Analysis and Critical Response (RACR) division of the Los Angeles Police Department (LAPD) investigated available audiovisual-system options for their 24/7 operations. Using system design expertise from Spectrum Audiovisual Systems, RACR selected a seamless video wall with a 7 x 4 array powered by PixelNet technology. The display wall will have the flexibility to handle a variety of dynamic input sources on single, logically grouped or the full array of displays; and will help enable swift, efficient collaboration and decision-making in emergency situations.

SYSTEM AVAILABILITY

Jupiter Systems products are designed for continuous 24/7 operation, specifically for the most demanding environments where availability of critical decision support systems can literally mean life or death. To this end, many Jupiter products feature redundant and hot-swappable components. Hardware and software continuously monitor key system parameters, automatically alerting users to conditions that require direct intervention.

UNIQUELY ENGINEERED FOR DISPLAY WALLS

Jupiter Systems designs all of its own software and hardware as an integrated whole, creating a tightly woven system architecture that provides the best functionality and achieves the highest possible performance. This provides Jupiter with the deep system knowledge that no integrator of 3rd party or COTS components can claim, and the best foundation for supporting our products after the sale.

ABOUT JUPITER SYSTEMS

Jupiter Systems is the leading worldwide supplier of display wall processors for command and control applications. Jupiter's best-of-breed products are designed for continuous, 24/7 operation and are used in network operation centers, electric power generation and distribution control rooms, boardrooms, intelligent traffic control rooms, 911 dispatch centers, financial management control centers, surveillance and security centers, and fixed and mobile military operations control centers in thousands of installations around the world. All Jupiter products are built in the company's ISO 9001:2008 certified US factory. For more information, please visit www.jupiter.com.

JUPITER SYSTEMS LAW ENFORCEMENT INSTALLATIONS

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| Los Angeles Police Department, Calif. | Saga Police, Japan | Beijing Municipal Public Security Bureau |
| Dallas Police Department, Texas | SSP Mexico City Police, Mexico | Mexicali Police, Mexico |
| President's Office, Colombia | Center for Research and National Security, Mexico | Cancun Police, Mexico |
| Ishikawa Police, Japan | | Monterrey Police, Mexico |