

# Security Monitoring



## **The technology driving the modern control room is changing, and at the forefront of this change is the multi-image display processor.**

The monitoring system of a control room is central to its effectiveness. Operators need immediate visibility of multiple images, access to alarm information, instant response mechanisms and control options. Harris multiviewers make the monitoring process easier for operators by integrating large numbers of sources onto a flexible, virtual command wall. Perfect for confined control room spaces, the compact Harris multiviewers combine multiple live feeds, such as full-motion video, DVRs, satellite sources, computer data, maps, building layouts and alarms, in real time for display on high-resolution screens, with central control capability from the control desk.

With a range of product options, Harris can meet the needs of many different types of control rooms. From simple screen splitters, to more sophisticated solutions for the display of video and computer data, to solutions for more enhanced 24/7 reliability and redundancy, Harris has a multiviewer to suit a wide variety of monitoring environments.

## **Enhancing Security Surveillance**

Due to advances in technology, control rooms that once required bulky monitor stacks can now monitor the same number of sources in a fraction of the space using compact Harris multiviewers and large-screen displays. This, coupled with significantly reduced power consumption and air cooling, gives Harris multiviewer-based command walls many advantages.

Harris multiviewers offer exceptionally high image quality, with dedicated processors on each input channel to ensure there is no compromise on image detail, and outputs up to 1920x1080p native resolution. A flexible interface enables all Harris multiviewers to be quickly configured, with flexible source allocation and easy-to-use layout design software. Harris multiviewers also have been designed to interface directly with many industry control protocols, allowing them to be incorporated into security management systems — such as ISM Genesys, Cortech and Synetics — to provide centralized control and improve the speed and quality of response.



## Airport Control Room Monitoring

**Schiphol Airport** in Amsterdam, Netherlands, has several control rooms responsible for the monitoring and control of important processes such as passenger flow in the terminal, technical equipment and crisis handling, parking and traffic on the airport premises, safety and security. As with all airport security operations, attention to detail is critical, and with the help of the Harris® MX™ series multiviewers, the operators can monitor the video input feeds of around 100 CCTV cameras over several 40-inch LCD screens to provide one integrated interface to monitor sensitive areas at parking spaces and garages throughout the airport. The 1RU MX systems monitor 12 video signals in real time on each screen, with operators able to access the security images over a comprehensive IP security network for a very cost-effective solution.



For more complex installations that require the monitoring of video and computer sources, the Harris FusionPro+™ series multiviewers have been the preferred solution. Available in a 1RU chassis to view up to eight windows, the FusionPro+ series is ideal for the large-screen display of multiple images in mission-critical applications. Users can combine formats — analog video, RGBHV computer sources or DVI sources — in one high-performance system.

FusionPro+ multiviewers deliver best-in-class image quality, window manipulation (including positioning, resizing and full-screen views) and numerous display styles. It is this combination of features that prompted a central Florida water utility company to choose the Fusion Pro+ multiviewer over other solutions.

## Critical Infrastructure Monitoring

**The Southeast Regional Water Treatment Plant** in Seminole County, Florida, had many demanding requirements from the outset. Seeking cost-effective alternatives with which to increase security, improve responsiveness and reduce downtime, the utility wanted a CCTV system that enabled the plant to perform real-time recording and monitoring for between 125 and 150 cameras, simultaneously. FusionPro+ multiviewers were chosen and used to display images on six high-definition DLP rear projection systems projected onto a single 75-inch x 281-inch custom screen.

The complete system is controlled over a local area network (LAN), and the operators have the ability to assign various, distinctive border colors and other camera identification colors to segment the overall display and highlight specific cameras and views. The flexibility and scalability of the solution will allow the utility to expand the system as its requirements evolve.

**Venlo Regional Command Center**, one of the first permanent regional disaster control centers in the Netherlands, also uses FusionPro+ multiviewers to protect critical infrastructure. The command center uses the multiviewers to monitor high-risk areas close to the German border, including 28 cities and a large chemical plant. The facility has been operational since November 2005, and so far, has enabled fire departments, police, medical teams, ambulances and local government to successfully manage several small disasters.

FusionPro+ multiviewers process RGB and video inputs for the display of road maps, computer data and helicopter images, as well as national and local television, in the control room. The system offers reliable, live video monitoring in this mission-critical monitoring application, as well as pristine image quality, so that nothing goes unnoticed when responding to an emergency situation.



## Government and Police Monitoring

**Thames Valley Police** in the U.K. chose FusionPro+ 1RU multiviewers to monitor CCTV cameras in custody suites. Utilizing eight source inputs, the systems display high-resolution images from 60 to 70 cameras. Images are also displayed from an advanced network video recorder (NVR) with audio and ISM Genesys integrated control software. The software incorporates clear, concise graphics of the custody suites, patch-through calls to cells from the telephone system, real-time CCTV images, intercoms, panic alarms and door control — all from a single platform.

**Nottingham City Council** in the U.K. has installed Harris Predator VC16™ series multiviewers as part of the upgraded Urban Traffic Control (UTC) Centre. With more than 260 cameras — from traffic and tramlink cameras to city center CCTV — to be monitored, the UTC needed a flexible multiviewer solution that would allow operators to instantly react to changing scenarios.

The Predator VC16 multiviewers allow the operators to switch to different layout configurations and zoom an image to full screen in a key stroke. The systems use the powerful Dual Head (ZdH™) display capability to drive eight rear-projection displays. With ZdH, a standard multiviewer becomes a mini wall processor, allowing a single system to cost-effectively drive two displays as one virtual super-screen. This ability to display any input on either output adds tremendous flexibility in the control room, while the ability to span images across displays further adds to the seamless view the operator has and needs in critical situations.

Available in a compact 2RU chassis, the Predator VC/VS series can process up to 12 or 16 full-motion video sources (composite or S-Video) in real time for both confidence- and quality-monitoring purposes. Additionally, the 12-channel Predator models can be expanded to add two or four computer inputs, allowing greater flexibility and expansion for the display wall.

Each image can be displayed with a source ID, as well as other features such as clocks and alarms. Sources can be displayed in a 4:3, 16:9 or non-format aspect ratio, allowing operators to size and place source views anywhere on the display to maximize the display area. An unlimited number of layouts can be created, stored and recalled using the Z-Configurator™ control software.

**Reliability** is crucial in the security environment, and it is essential that all the equipment is robust and offers redundancy. Harris multiviewers provide immediate startup, with no long software boot cycles, and enable monitoring almost as soon as the unit is powered up.

Harris multiviewers are the preferred choice for many security monitoring applications around the world. From CCTV and transport management to airport security and utilities monitoring applications, Harris multiviewers offer a consistently high level of performance, reliability and user-friendly reconfiguration options that our customers count on.



For more information, please visit [www.broadcast.harris.com/multiviewers](http://www.broadcast.harris.com/multiviewers).

Harris is a registered trademark of Harris Corporation. Trademarks and tradenames are the property of their respective companies.