

Managing IP Surveillance Complexity

Driving Down Costs with Enhanced Compatibility and End-to-End Technology

As the IP-based market has grown, many providers' products have no common communication methodology. Today, IP-based devices have independent protocols proprietary to the manufacturer, often meaning every individual product within a surveillance solution is different. Even common protocols, ONVIF and PSIA, can present challenges, while advanced mobile technology and the demand for remote surveillance add yet another dimension to the conundrum. Even today's most masterfully and carefully integrated surveillance systems sit but a single upgrade away from unwelcome headaches, compatibility challenges, and unplanned costs.

The fundamentals of this challenge result in compatibility issues and loss of functionality across various products and devices within surveillance and wider security systems, and they cost the industry valuable time and resources at every step in the surveillance lifecycle. The complexities seemingly inherent in the IP revolution have driven up costs and slowed adoption, driving the question, year



after year, as to when IP will truly break out and become the undisputed video surveillance standard it has long promised to be.

Seeking to reduce or eliminate common complexities, including predictably unpleasant compatibility and cost headaches, innovators in the video surveillance space have looked to a less complex and more affordable way to deliver on the IP promise.



Managing Complexity through Innovation

The IDIS next-generation Direct IP™ surveillance solution meets the needs of an increasingly demanding security landscape through flexible and cost-effective technology, bundled together with performance, quality, and functionality that is as reliable as it is exceptional. It's all done through a single-sourced approach to HD that has effectively changed the conversation about surveillance technology. Direct IP™ is a one-stop-shop and affordable solution, delivering true plug-and-play simplicity to a range of cameras, monitors, network video recorders (NVRs), and comes with an integrated VMS. Remarkably simple to implement, DirectIP goes beyond mere “plug-and-play” capability, delivering

an auto-configuring, pre-engineered solution that is affordable and high performing.

The Direct IP™ framework tackles compatibility and the issues associated with existing protocols, which often prevent the full functionality of cameras, NVRs, and other network equipment from being realized. Designed to provide a simple yet high-performance solution, the framework builds an entire network system from a single source supplier utilizing Direct IP™ innovation. It permits simple configuration and installation and minimizes the complexity of multiple connections, cameras, monitors, recorders, and integration with third party and legacy systems delivering a complete security solution all from one single vendor.

R&D engineers at global surveillance manufacturer IDIS were in a particularly advantageous position to tackle these challenges. The 17-year old manufacturer’s well-known R&D focus, combined with its unique industry role as a true end-to-end manufacturer (IDIS designs, develops, and manufactures 100% of its offerings, including cameras, recorders, monitors) allowed the IDIS team to innovate its next-generation DirectIP™ technology and craft a range of video surveillance offerings that enhance the performance of every element in a video surveillance solution—from image capture, through recording, and display—through richer, optimized compatibility and connectivity. In doing so, the IDIS team found a way to leverage these innovations and resulting efficiencies to both manage complexity and drive costs down.

While a typical IP video surveillance system is comprised of multiple components (IP cameras, VMS on PC servers, VMS client software), often it's developed or manufactured by different providers. The IDIS DirectIP offering changes the formula of IP video surveillance, uniting these components (DirectIP cameras, DirectIP NVRs, free and powerful IDIS Center VMS) under one roof in an easily configured, low maintenance solution. The



end result is a simple, high performance, pre-engineered, highly scalable, low maintenance, end-to-end IP video surveillance system.

And Direct IP™ is a true plug-and-play, end to end system. It offers not only automatic device discovery, but automatic device configuration as well. Simply connect the IP cameras, activate the NVRs, run the auto-configuration wizard, and the IP surveillance system is configured and ready for use, all in a matter of minutes. This configuration process is so simple that it can be accomplished without a PC, from installation, configuration, and operation of the Direct IP™ systems. Direct IP™ empowers users to manage complexity. Imagine an environment with 300 IP cameras and 20 NVRs. With Direct IP™, users only need to configure 20 IP devices, rather than each IP camera individually, effectively decreasing installation complexity by more than 15 fold.

Direct IP™ has rich connectivity, providing a powerful yet intuitive solution appropriate for a wide range of vertical markets and applications. Where network HD surveillance technology and functionality in the past may have only have been accessible to larger organizations with significant budgets, the IDIS Direct IP™ solution is far more affordable and convenient; it is readily available and suitable for the majority of applications, large or small.

- **DirectIP™ offers users real-time live recording in FHD over 16 channels, with little to no “perceivable” latency in live video**
- **With DirectIP, users also enjoy high bandwidth, up to 10Mbps/2MP@30ips (H.264), and high resolution with H.265, supporting 8MP/4K/UHD**
- **DirectIP supports complex devices such as the IDIS Fisheye 5MP Camera, with both camera-side and client-side dewarping, and mobile dewarping**
- **DirectIP NVRs also feature huge storage capability, up to 132TB**
- **DirectIP is affordable, with no need for PC servers, licensing fees, annual fees, or upgrade fees**

A Pre-Engineered Solution that Removes Guesswork without Restricting Choice

Direct IP™ offers guaranteed high performance (H.264 with the DR-6216 and H.265 UHD performance with the DR-6316), with real-time FHD both live and while recording. This means no more guess work or calculations for users to determine the necessary specs for a PC server. Questions such as “What CPU do I need? What display adapter will be required? How much RAM will the system need? Is there enough network bandwidth?” no longer need to be asked. The only thing users have to determine is how much storage will be required, the Direct IP™ solution handles the rest.

Unprecedented Scalability for Any Surveillance Need

Direct IP™ systems are incredibly easy to scale up as required. The free IDIS Center VMS supports up to 1024 Direct IP™ NVRs, which allows for the management of over 32,000 IP cameras. Multiple NVRs can be united as on system to create a mini digital matrix when combined with NK-1100 network keyboard. Storage quantity is also scalable with Direct IP™, for example, DR-6200 series, up to 88TB (4TB/HDD), and 132TB (6TB/HDD) with DA-ES1104 eSATA storages.

Reduced Maintenance Requirements Mean Lowered Costs

Direct IP™ offers mega pixel video surveillance without the hassle of adding another Windows PC



to a user's network, which also means less down-time compared to other VMS solutions. Existing surveillance systems are easily migrated to Direct IP™ and little or no training is required, regardless of the platform a user chooses. The IDIS end-to-end system eliminates the worry over future backwards compatibility, which is guaranteed by IDIS, while the IDIS Center VMS is completely free of charge, eschewing licensing fees or annual upgrade fees.

Direct IP™ end-to-end surveillance innovation from IDIS delivers a truly simple, single-source HD solution. With Direct IP™, a comprehensive range of cameras, NVRs, monitors, PoE switches, and accessories now work together in an unprecedentedly flexible, H.265 compliant, truly plug-and-play manner. ■

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