

Experience the power of Bosch IP

A complete IP camera portfolio

Superior image quality.
Efficient network connectivity.



BOSCH
Invented for life



A complete IP camera portfolio

Choose only the best for your network CCTV applications.



FlexiDome IP

Perfect images in any location



Dinion IP

Hybrid solution for the most challenging applications



AutoDome Modular

Revolutionary dome platform ready to go wherever the future takes you

Bosch has built the definitive IP camera portfolio, offering a wide range of solutions – from versatile, high-speed PTZ domes to all-environment cameras with built-in active-infrared illumination.

Why go from analog to IP? IP Network Video systems offer a number of advantages over traditional analog systems. Convenience, cost-effectiveness and overall efficiency are just a few.

Bosch has an IP camera solution that delivers the perfect combination of performance, flexibility, convenience and value to meet your needs.



Megapixel

Ultra-high-resolution video cameras for capturing the finest details



IR Cameras

Designed to work the night shift



Extreme Environment Cameras

Precision engineered for vandal-prone environments

The logical step to IP

The convergence between security and data networks is a natural progression of these complementary technologies. Via local area networks or even the Internet, Bosch IP networking solutions give you extra control over CCTV systems with improved ease of operation. Images from multiple locations can be stored and managed centrally, allowing you authorized access from anywhere in the world.



Protecting your investment

When you are migrating from analog to digital, a hybrid system can help protect your existing investment as you prepare to step into the next generation of surveillance with Bosch IP cameras.

The increased processing power and intelligence inherent in our video products make them ideal for both IP and hybrid analog and digital systems.

With Bosch IP cameras, you can now combine high quality video surveillance with the many powerful benefits of IP networking.

Benefits of IP camera systems:

- ▶ Scalability for expansion
- ▶ Improved accessibility including remote access
- ▶ Centralized storage and management
- ▶ System-wide automated alarm and event handling



FlexiDome IP

Perfect images in any location

The FlexiDome IP system combines award-winning imaging technology and a stylish, vandal-resistant design to deliver discreet, high quality surveillance – no matter how tough the environment.



Benefits

- ▶ Vandal-resistant dome camera offers maximum protection for your security equipment
- ▶ Day/Night IR sensitivity or NightSense offers 24-hour security, giving you detailed images any time
- ▶ MPEG-4 compression reduces bandwidth and storage
- ▶ Tri-streaming technology optimizes bandwidth usage
- ▶ Direct-to-iSCSI recording reduces costs by eliminating the need for a network video recorder
- ▶ Intelligent Video Analysis improves detection accuracy and reduces false alarms
- ▶ Power over Ethernet enabled for easy installation with no extra power supplies
- ▶ Complete integration with Bosch Video Management System

As tough as you need it

The FlexiDome IP system's combination of high-performance camera and rugged enclosure conquers the most demanding surveillance challenges that man or nature can pose. Using our Dinion imaging technology, FlexiDome IP systems deliver clear, sharp images – even in brightly backlit environments.

Clearly exceptional imaging – day and night

NightSense compensates for fading light, automatically switching to monochrome to increase sensitivity. The FlexiDome^{DN} IP Day/Night camera includes a mechanical switching filter for enhanced night-time performance.

Efficient storage and bandwidth management

MPEG-4 compression, bandwidth throttling, multicasting and Intelligent Video Analysis (IVA) all combine to efficiently manage storage and bandwidth usage. You can record images centrally using network video recorders, or directly with network-attached iSCSI devices.



Dinion IP

Hybrid solution for the most challenging applications

Benefits

- ▶ 15-bit digital imaging provides award-winning image quality
- ▶ Day/Night IR sensitivity or NightSense offers 24-hour security, giving you detailed images any time
- ▶ MPEG-4 compression reduces bandwidth and storage
- ▶ Hybrid capability provides a migration path from analog to IP, capitalizing on the latest technology while preserving the usefulness of your existing analog systems
- ▶ Direct-to-iSCSI recording reduces costs by eliminating the need for a network video recorder
- ▶ Intelligent Video Analysis improves detection accuracy and reduces false alarms
- ▶ Power over Ethernet enabled for easy installation with no extra power supplies
- ▶ Complete integration with Bosch Video Management Systems

With a wide variety of options to choose from, Dinion IP cameras can be tailored and optimized to suit your most demanding applications. The cameras support both analog and Ethernet connections, making them compatible with existing CCTV installations and giving you plenty of scalability potential. Dinion IP cameras let you easily migrate to the newest digital technology while preserving your original investment.

High quality picture, low storage costs

Dinion IP network cameras take the outstanding picture quality of the Dinion analog camera range to the next level of performance by adding the power of Internet Protocol (IP) connectivity. These cameras produce up to 30 images per second of high-quality video at a true 4CIF MPEG-4 video resolution with tri-streaming capabilities. You get top-of-the-line functionality with minimal network traffic and lower storage costs.

Low light? No problem

In low light, these cameras automatically switch from color to monochrome to boost their infrared illumination sensitivity while maintaining superior picture quality. Problems due to strong backlighting are a thing of the past, thanks to programmable backlight compensation. Both the level of compensation and zone of interest can be programmed, ensuring that you get the best results, whatever the application may be.

Sharper, more detailed images

Models in our Dinion family include the Dinion IP and Dinion^{XF} Day/Night IP cameras. For the most demanding applications, the Dinion^{XF} Day/Night camera uses 15-bit digital signal processing to enhance light sensitivity, as well as XF-Dynamic to extend its viewing range for sharper, more detailed pictures and exceptional color reproduction accuracy.



AutoDome Modular

Revolutionary dome platform ready to go wherever the future takes you

AutoDome Modular cameras bring IP connectivity to Bosch's range of modular, high-speed PTZ cameras. A system of intelligent, interchangeable modules – including camera, CPU, housing and power – allows you to customize or change functionality quickly and cost-effectively.

Benefits

- ▶ Modular camera design future-proofs your technology investment – simply update modules instead of replacing the whole camera
- ▶ Advanced intelligence reduces false alarms using motion detection, object tracking, image stabilization and alarm control
- ▶ Hybrid capability provides a migration path from analog to IP, capitalizing on the latest technology while preserving the usefulness of your existing analog systems
- ▶ High performance imaging technologies deliver outstanding picture quality and sensitivity
- ▶ Day/Night operation offers reliable surveillance around the clock, giving you detailed images any time
- ▶ Superior serviceability reduces installation and support costs
- ▶ Complete integration with Bosch Video Management System



Increase functionality easily and cost-efficiently

The AutoDome Modular Camera System is based on five types of interchangeable modules: the CPU, camera, housing, communications and power supply. As your security requirements change, you can expand the functionality of your system by simply replacing one of AutoDome's modules – you can make the changes you need without buying a new system or installing new cameras.

Maximum image quality, minimum bandwidth requirements

AutoDome Modular is also IP-enabled, capturing and storing images efficiently using MPEG-4 encoding and compression, which delivers DVD-quality 4CIF video at rates up to 30 images per second. Tri-streaming, bandwidth throttling and multicasting capabilities deliver the best image quality and resolution while making efficient use of bandwidth and storage.



Megapixel

Ultra-high-resolution video cameras for capturing the finest details

Crisp, clear video that remains highly detailed even when the camera zooms in on the action: that's what Bosch Megapixel IP cameras deliver.

Benefits

- ▶ Ultra-high-resolution results in large, detailed, clear images that are ideal for identification
- ▶ Day/Night operation offers reliable surveillance around the clock, giving you detailed images any time
- ▶ IP connectivity lets you view and control cameras from virtually anywhere
- ▶ Megapixel cameras can replace multiple analog cameras, reducing system, installation and maintenance costs
- ▶ Digital pan/tilt/zoom lets operators examine all details in a scene
- ▶ Power over Ethernet enabled to provide easy installation with no extra power supplies
- ▶ Megapixel cameras are part of a fully integrated solution along with the DiBos Hybrid DVR
- ▶ Model with built-in active-infrared illumination produces high-signal, low-noise images in all lighting conditions, helping ensure efficient compression and low bit rates



These cameras are called "megapixel" because they are ultra-high-resolution cameras that contain a million pixels or more. For a given resolution, a single multi-megapixel camera can view a far wider area than a typical analog camera, letting you cover the same area with fewer cameras.

Bosch megapixel cameras offer outstanding image quality for live viewing, also providing extremely fine detail for identification purposes.

Megapixel cameras complement our DiBos Digital Video Recorders perfectly, giving you the flexibility of combining analog and digital cameras. You can combine local cameras with IP-linked cameras located anywhere in the world for the most comprehensive system coverage.



Megapixel cameras are being successfully adopted in key locations such as turnstiles, where a DiBos DVR takes short captures of megapixel video when an alarm is activated, while simultaneously recording normal CCTV video around-the-clock. The combination of megapixel and MPEG-4 technologies focuses on recording identity and activity. Bosch's DiBos Hybrid DVR is perfect for simultaneously recording footage from analog cameras, MPEG-4 cameras and encoders, and now megapixel cameras.

IR Cameras

Designed to work the night shift

These all-environment, rugged products from the Extreme Series combine award-winning active-infrared illumination for high quality, low-noise images with cutting-edge IP technology for full compatibility with Bosch's complete IP product portfolio. The result, even under the most extreme conditions, is uncompromised 24/7 surveillance video, which not only helps reduce bandwidth and storage requirements, but also enables effective night-time Intelligent Video Analytics.



Benefits

- ▶ Black Diamond night vision for detection-level imaging up to 350 ft. (100m)
- ▶ High resolution optics up to 550 TVL color / 570 TVL monochrome with mechanical filter technology
- ▶ Intelligent Video Analysis ready for intelligence at the edge
- ▶ IP Infrared Imaging design harnesses the power of infrared illumination to deliver outstanding images day or night
- ▶ Reduced night-time image noise for improved compression performance and low bit rates
- ▶ Effective night-time function of video analytics
- ▶ iSCSI recording
- ▶ Field-proven NEMA4X all-weather design
- ▶ Megapixel model uses dual megapixel sensors to produce crystal clear images with amazing detail



With models ranging from an entry-level single-sensor to an advanced dual-megapixel, Extreme Series IR Imagers meet the surveillance requirements of a wide range of applications - from commercial and industrial to critical infrastructure and Homeland Security.

Extreme Environment Cameras

Precision engineered for vandal-prone environments



Specifically designed to meet the needs of applications with specialized surveillance and design requirements, cameras from the Extreme Series deliver video vigilance under conditions that defeat conventional cameras.

Benefits

- ▶ US patented No-Grip, vandal resistant housings are virtually impossible to grip or hang from, helping to prevent the camera from being forcibly removed while promoting maximum safety
- ▶ Intelligent Video Analysis ready for intelligence at the edge
- ▶ iSCSI recording

EX36

- ▶ Innovative 45° tilt eliminates blind spots and enables vandal-resistant surveillance of an entire 15x15ft room, including the floor beneath the camera itself
- ▶ IP Infrared Imaging design and available in 940nm for covert illumination

EX7

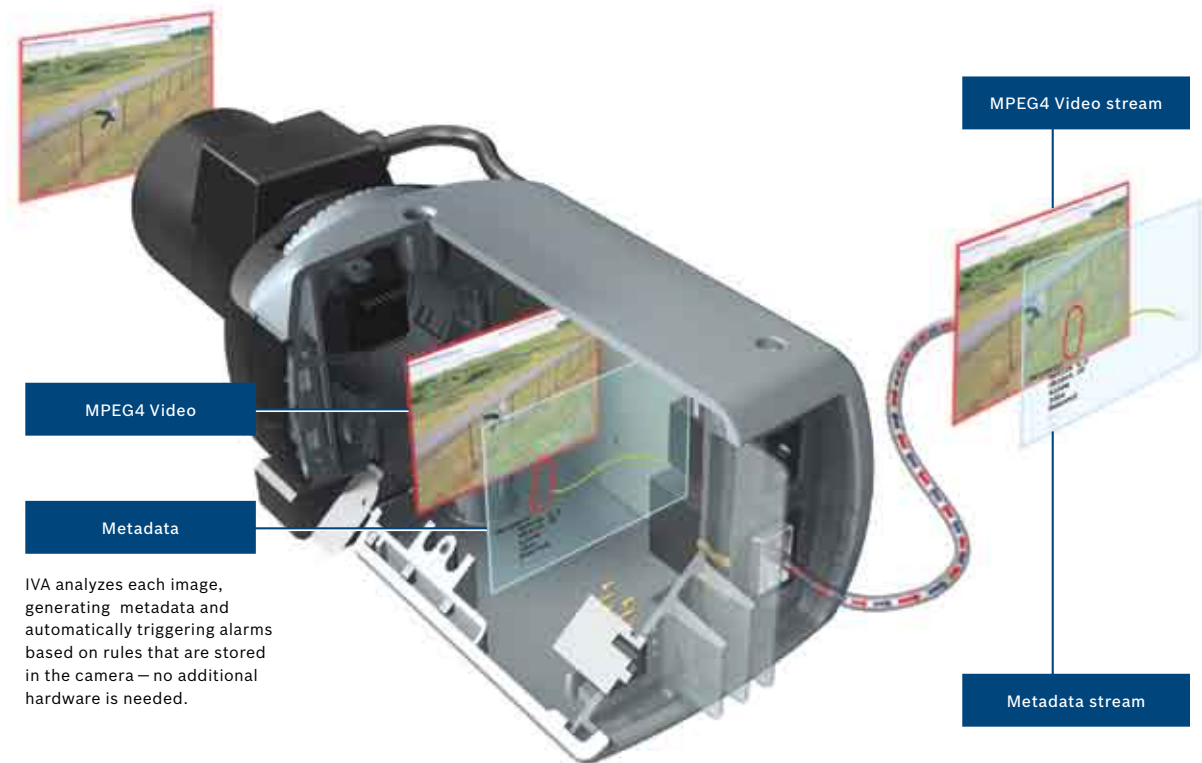
- ▶ Packed with installer-friendly features including a detachable camera platform for fast and easy CCD adjustments, 3-axis pan-tilt-twist gimbals and conduit compatibility
- ▶ Day/Night and color models, with various lens and CCD options, including CS-mount 5-50mm varifocal lens and mechanical filter



Engineered to help ensure maximum safety at high-risk environments, EX36 and EX7 are field-proven at locations such as correctional facilities and psychiatric wards. These cameras also meet the unique surveillance needs of everyday applications including hospital care rooms, sleep labs and elevator cabs.

Intelligence at the edge

Taking a unique approach, Bosch IVA puts the image processing power inside the camera or video encoder. Able to automatically recognize key events in a scene and alert the operator, it delivers “intelligence at the edge.”



Bosch IVA helps your security team react quickly to suspicious activities or potential threats. Each surveillance camera in the system becomes an active member of your team, automatically:

- ▶ Identifying events during continuous real-time image analysis
- ▶ Alerting the operator by sending an alarm when it detects a critical event – turning your cameras into a virtual security team

Furthermore, whether your existing system uses analog cameras or Bosch IP cameras, adding Bosch IVA capability is simple and cost-effective.

Since Bosch IVA is built directly into the cameras, this technology is more readily available to a wider range of applications. Plus there are no PCs, no servers and no software required – the cameras simply communicate the information to wherever it's needed, be it a DVR or video management system.

Intelligent Video Analysis technology is built into the Dinion IP, FlexiDome IP and our Extreme Environment IP cameras, enabling analysis at the scene without the need for extra hardware.

A complete IP network and video management portfolio

To provide greater security and integrated control, Bosch's total solution includes a range of network video recorders and management tools. Scalable and flexible, these technologies allow you to combine your existing components with Bosch's cutting-edge IP technology in one easy-to-manage system.



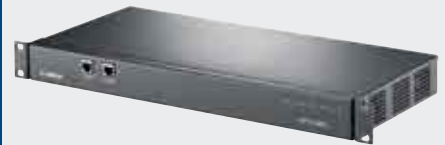
Bosch Video Management System

The Bosch Video Management System provides seamless management of digital video, audio and data across any IP network. It uses industry-standard IT server, storage and workstation components, so you can use your existing vendors and service agreements. Secure and firewall-friendly, it supports the latest .NET remote access technology, while an open protocol ensures easy user management.



DiBos Hybrid DVR

DiBos is a powerful video surveillance and recording system offering networked multi-camera recording, rapid image retrieval and the ability to connect to other security systems. It lets you view live and recorded images from both analog and IP cameras, giving you a versatile and cost-efficient hybrid system. MPEG-4 digital encoding technology maximizes image quality, content analysis and data storage efficiency.

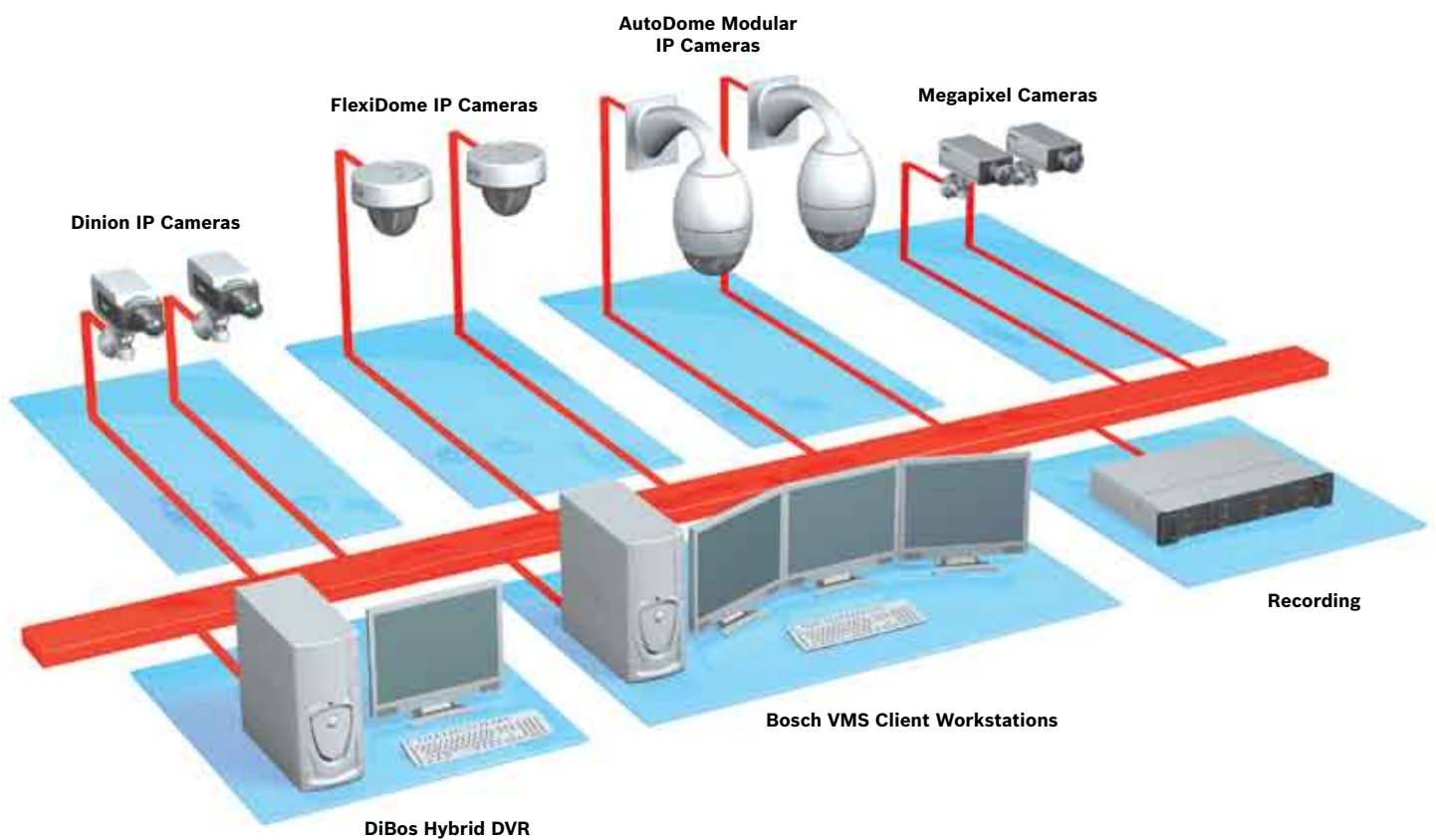


VIP X1600 IP Encoder

The VIP X1600 is a highly efficient iSCSI encoder offering a low cost, fully expandable storage solution for IP video systems. More flexible than a network video recorder, the VIP X1600 allows for recording at the edge, saving network bandwidth and improving system efficiencies.

Typical IP Video Management system architecture

Satisfying an extensive range of applications, you can choose from a variety of IP Cameras to suit your requirements.



Bosch: The clear leader in IP technology

Bosch's strong background in imaging and IP technologies ensures that our solutions meet your current needs and can adapt to your future requirements. Each of our IP camera families incorporates all the latest features and functionality – everything you need to take full advantage of the benefits offered by IP and digital networking.

High quality imaging

Image quality is a fundamental factor in any type of surveillance equipment. Our no-compromise approach to image quality – optics, hardware and software – ensures that our systems always deliver the clearest, detailed pictures, even in the most adverse lighting or weather conditions.



Direct-to-iSCSI Recording

Leading the industry into the second generation of video over IP CCTV, Bosch's IP cameras stream video to a network-attached iSCSI disk array, eliminating the need for network video recorder servers and their Windows operating systems, anti-virus software and daily patch updates.

Intelligent analytics

Reducing demands on bandwidth and storage capacity, our Intelligent Video Analysis (IVA) technology performs advanced video content analysis to ensure that only important events trigger image capture and recording.

IVA is exceptionally versatile and detects many motion scenarios, from left-behind baggage to loitering. It can even recognize motion in several independent detection fields and features image stabilization for temporary or mobile applications.

The Bosch IP advantage

Many businesses, institutions and organizations around the world are upgrading their facilities to IP-based CCTV surveillance systems. Bosch IP network products offer many advantages:

- ▶ Scalability
- ▶ Flexibility
- ▶ Optimal camera functionality
- ▶ Hybrid connectivity
- ▶ Built-in migration path
- ▶ Economical cost of ownership

Compelling reasons to invest in Bosch IP-based security systems.

Take your surveillance systems into the future with Bosch, and enjoy all of the benefits of our IP network solutions.

Make Bosch the choice for your business

Contact your local Bosch representative or call **866-CCTV-REP**.

Visit www2.boschsecurity.us/cameras to learn more.

A tradition of quality and innovation

For over 100 years, the Bosch name has stood for quality and reliability. Bosch is the global supplier of choice for innovative technology backed by the highest standards for service and support.

Bosch Security Systems proudly offers a wide range of security, safety, communications and sound solutions that are relied upon every day in applications around the world, from government facilities and public venues to businesses, schools and homes.



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Modifications reserved
Printed in United States | 11/08
F01U073061