

Micronet®
Making Communication Easier

Communicate via **Micro network**



Network Video IP Surveillance



Network Camera

Megapixel and HDTV, for various video surveillance requirements



Fixed Dome



Fixed

Various Types of Network Cameras

With expertise and experience in networking and video surveillance, Micronet continues to deliver excellent and various types of network cameras to meet the diverse requirements from the market.

Fixed Network Cameras, Box or Bullet

A fixed type of network camera may refer to box- or bullet-type, with the viewing direction is set as the camera is mounted. The box-type camera is flexible to meet the needs of a variety of applications with its changeable lenses for different scenes. Another choice is the bullet camera. With built-in varifocal lens, IR LEDs, and weather-proof housing, the bullet camera is suitable to be installed in harsh environments or for any indoor/outdoor applications.

Fixed Dome Network Cameras, Compact or Vandal-proof

A fixed dome type of network camera may refer to compact- or vandal-proof-type camera and is mostly mounted on a ceiling. It is designed to be discreet and non-obtrusive, and it is difficult to see where the camera is pointing. In addition, it is more effective in protecting from redirection and defocusing. The compact dome camera is very easy for installation and maintenance. The vandal-proof dome camera, on the other hand, provides the best protection against tampering.

PTZ Dome Network Cameras

A PTZ dome-type network camera offers 360° pan, 180° tilt, optical zoom operations and continuous camera movement based on its advanced mechanism design. In guard tour mode, it supports to monitor a bunch of sub-areas in a time interval. Furthermore, it is very ideal for live monitoring, where the users need to actively follow an object and/or identify the human face or the license plate number from distance away.

Cube Network Cameras

A cube-type network camera offers plug-and-play installation. It is very user-friendly for simple applications, such as home, office or retail store. Usually, the cube camera provides built-in wireless function and supports easy accessibility simply by integrating with existing wireless network environment.

Pan/Tilt Network Cameras

A Pan/Tilt-type network camera offers directional and zoom control. It can be controlled remotely via the network. By using the pan and tilt functions, the users are able to monitor different areas in the room.



PTZ Dome



Pan/Tilt



Cube



Advantages of Micronet Network Camera

Micronet network cameras provide superior video quality, particularly in versatile challenging lighting environment. Intelligent, easy to install and manage, Micronet network cameras means high performance, and economic total cost of ownership. Micronet develops products based on a coherent and logical migration strategy that takes the complexity out of the industry evolution.

Superior Video Quality

By introducing megapixel, HDTV and progressive scan technology, Micronet network cameras provide superior video quality and outstanding color representation. Whereas, our cameras make all the impossibly determined before become all possibly identified from now on.

Saving Bandwidth and Storage

By distributing video stream encoded with H.264 compression (MPEG-4 Part10/AVC), Micronet network cameras sufficiently reduce storage and bandwidth by 80% compared with Motion JPEG and by 50% compared with MPEG-4. As a result, we save your storage and bandwidth cost without compromising image quality at all.

Easy Installation and Maintenance

With built-in power over the Ethernet (PoE, IEEE 802.3af/ 802.3at), Micronet network cameras support easier and more flexible way for installation at diverse places, where data is transmitted and power is provided simply through one single RJ45 Ethernet cable. Most importantly, the power will be provided stably from a PoE -enabled switch or midspan. Thus, the camera will remain operation in case of power failure, where the switch or midspan is properly connected to backup power with an UPS.

Critical Event Management

With built-in interface of audio, Micronet network cameras are allowed to work with audio devices, such as microphone and speaker, to have instant two-way communication via the camera. In addition, by integrating with external devices, such as siren or alarm, through digital input/output interfaces, the user is allowed to recognize an event immediately and manage it accordingly to prevent from possible damage or accident.

Overcoming Versatile Challenging Environments

By its true Day/Night with IR-Cut Removable (ICR) filter, wide dynamic range (WDR) and auto iris functions, Micronet network cameras provide clear visibility under challenging lighting conditions, such as total darkness, brightness and darkness co-exist in the scene, or changing lighting in the scene. In addition, the digital noise reduction technology enables the camera to decrease noise levels caused by insufficient lighting. By supporting corridor-like format and multiple region-of-interest (ROI) views, the effect of camera image is maximized as possible. Moreover, the outdoor-ready, weather-proof camera enables to reliably operate in harsh environments for 24 hours and 7 days a week.

Anywhere and Anytime

With remote accessibility, all Micronet network cameras allows the users to operate, administer and maintain the camera over the internet from anywhere and at anytime.

Lower Total Cost of Ownership

In summary, Micronet network cameras save substantially the total costs for users by reducing equipment and management costs. It is implemented by leveraging the existing IP networks, computers and servers and by minimizing the whole efforts on installation, operation, administration, maintenance and integration.

Other More ...

For more features of Micronet network camera please visit our website at www.micronet.com.tw.



MicroView™

The most powerful IP video surveillance platform, intelligent, rock-solid and easy to manage



Micronet's MicroView™ products are the powerful IP video surveillance management software, acting as the core of the surveillance system, connecting all the network cameras. MicroView™ is intelligent, easy to manage, rock-solid reliable and scalable. With the sophisticated, high performance recording engine and the reliable system recovery mechanism, the system administrator is free from the loss of the critical video data in case of the system is crashed unexpectedly. By its multiple-server solution, the system administrator is enabled to manage as many surveillance cameras as possible via one unified interface.

The software is offered in tiers as packaged solutions scaled to different business needs.

MicroView™ Professional

MicroView™ Professional is an excellent video management software (VMS) that is bundled with every Micronet network camera. When integrated with Micronet Full HD network cameras, it perfectly demonstrates the quality and capabilities of the megapixel and HDTV image.

Micronet™ Professional is a cost-effective solution for mid-sized installations that supports up to 64 channels recording and up to 6 monitors, provides e-map function, useful event/alarm management, full remote management, 4-channel synchronized video playback, 32 times of fast search and video export with digital watermarking protection for investigation jobs.

Moreover, powered by the sophisticated recording technology and the system disaster recovery mechanism, the video is completely and securely recorded and is able to be efficiently recovered in case of the system is crashed unexpectedly.

MicroView™ Enterprise

MicroView™ Enterprise, the state-of-the-art centralized management software (CMS) with advanced VMS functionality, is an outstanding solution for network video surveillance. By its multiple-server architecture and full remote management capability, MicroView™ Enterprise is designed to manage unlimited channels of cameras from PCs or servers.

MicroView™ Enterprise transcends the competitors in the market by featuring 512x fast search and 25 channels of

synchronized video playback, and the intelligent video analytics, including motion, tamper, missing object, foreign object detection functions, and object counting.

Moreover, double tripwire alarm function is useful for virtual fence application that enables to prevent from accidental or intentional intrusions and to keep secure of your assets and safety.

MicroView™ Corporate

MicroView™ Corporate, inherited from MicroView™ Enterprise, is not only CMS-ready with powerful built-in VMS functionality including intelligent video analytics, but is also flexible for projects that demand for integration with fisheye network cameras, access control systems, point-of-sale (POS) systems, license plate recognition (LPR) systems, and so forth.

Due to its flexibility, MicroView™ Corporate is an ideal solution for integration with the existing surveillance applications which have already installed a bunch of surveillance devices, including analog cameras, network cameras and video servers. Hence, with MicroView™ Corporate, the users shall be beneficial from ROI as maximized as possible.



Advantages of MicroView™

MicroView™ perfectly demonstrates the performance of megapixel and HDTV network cameras. Besides, MicroView™ provides many advantages which the other VMS can't compare with.

Full Remote Management

You may consistently manage the systems from remotely anywhere via web-based or client program

Multiple Monitors

By working with multiple monitors, the users are allowed to monitor hundreds of live video feeds, work with map functions, and perform investigation tasks at the same time.

Reliable Recording

With sophisticated and disk-optimized recording engine, the users will be able to experience high performance and reliable video recording with many dozens of megapixel and HDTV network cameras.

Intelligent Video Analytics

MicroView™ provides intelligent video analytics such as motion, tamper, missing object and foreign object detection functions, object counting, and double-tripwire alarm. With the intelligent video analytics, instant awareness of events are improved and false alarms can be minimized.

Powerful Investigation

By using remarkable 512 times of fast smart search and 25 channels of synchronized video playback functions, the users are allowed to perform

investigation tasks more efficiently. In addition, with storage usage statistics, it is very useful for the users to quickly search for those high-event-frequency of durations for more efficient investigation.

Centralized Management

With centralized management capability, it does not only enable users to expand the system in the future, but can also give the users a complete overview of all network cameras in a comprehensive and unified interface.

Flexible Alarm Management

By providing interfaces to connect with external devices, a real-time alert can be received and processed accordingly by triggering an alarm, making a buzzer, or sending e-mail.

Digital Watermarking

MicroView™ provides Digital Watermarking, which make sure the exported video is complete and not tampered, and guarantee the integrity of any exported video.

Other More ...

For more features supported by MicroView™, please visit our website at www.micronet.com.tw.



Key Features Comparison	Professional	Enterprise	Corporate
Number of recording channels per server	64	64	64
Maximum number of monitors per server	6	6	6
Centralized management		yes	yes
Multiple-server solution		yes	yes
Number of connected channels	64	unlimited	unlimited
Maximum number of concurrent users	3	unlimited	unlimited
Number of synchronized playback channels	4	25	25
Maximum times of fast playback	32	512	512
Alarm management	alarm input	complete	complete
Intelligent video analytics (motion, tamper, missing object, foreign detection, object counting, double-tripwire alarm)	motion	complete	complete
Full remote management (via web-base and client program)	yes	yes	yes
Mobile device for video streaming (via 3GPP)		yes	yes
Google map supported		yes	yes
Fisheye camera supported			yes
360° panorama view			yes
System customization & integration (by project)			yes

* Product specification is subject to change without prior notice.

PoE Switch, Fiber and Wireless Extender

Wired and wireless connections, easy for versatile installations

Network video IP surveillance has great advantage over the traditional CCTV analog security system. Rather than using the very thick coaxial cable in the analog system, the IP surveillance may apply the much thinner Ethernet cable, and/or fiber cable for longer distance than 100m, and even wireless without cabling hassle. Besides, the PoE (Power over Ethernet) technology provides great convenience to empowering the network cameras, especially where the power is not convenient to access.

Micronet develops and manufactures the complete solution of the connections between backbones to the front end network cameras. Figure 1 illustrates the case study of the integration of the Micronet IP Surveillance system, including various types of network cameras, switches with PoE, switches w/o PoE, fiber-optic uplink and Wireless LAN equipments.

PoE Switch

With his long experience in Ethernet switch and PoE technology, Micronet develops and manufactures various types of rock solid switches including 10/100M and Gigabit, 5/8/16/24 ports, with or without fiber uplink, managed or unmanaged, with or without PoE, etc.

The Micronet standard IEEE 802.11at/af compliant PoE switches supply the required DC power to the network cameras, along with data over the same Ethernet cable. Refer to Figure 2 Power over Ethernet. PoE is typically deployed where access to AC power is inconvenient, expensive or infeasible to supply. PoE can power network cameras located in ceilings, on rooftops, light poles, along fences, pipelines, transit routes and other out-of-the-way locations. The cost of bringing electrical power to

each camera is eliminated by powering the equipment through the UTP cable.

Fiber Optic Uplink

When the distance between camera and switch is longer than 100m (the cat5/6 cabling restriction), the fiber optic uplink becomes an excellent solution of distance extension.

Many Micronet switches, with or without PoE, provide the fiber optic uplink ports. Combined with various fiber transceivers, 10/100Mbps or 1000Mbps, multimode or single mode, the distance extension can be up to many Kilometers. Besides, Micronet also manufactures individual fiber-optic media converters, 10/100Mbps or 1000Mbps, multimode or single mode, the excellent solution for distance extension through fiber cable. Figure 2 also illustrates the distance extension through fiber uplink.

Micronet PoE switches with fibre uplink are a reliable and cost-effective solution to extend network distances via fibre to remote network cameras and to solve the troubles in finding power source for each network camera.

Wireless LAN

Micronet wireless LAN equipments provide another option when cabling is not convenient. With his long experience in WiFi technology, Micronet develops and manufactures various types of standard IEEE 801.11 a/b/g/n compliant equipments, 54/150/300Mbps at 2.4GHz or 5.8GHz radio, including router and access point, designed for indoor or outdoor application. Figure 3 illustrates the diagram of a network camera transmitting signals through wireless LAN.



Figure 2 PoE Switch with Fibre Optics Uplink

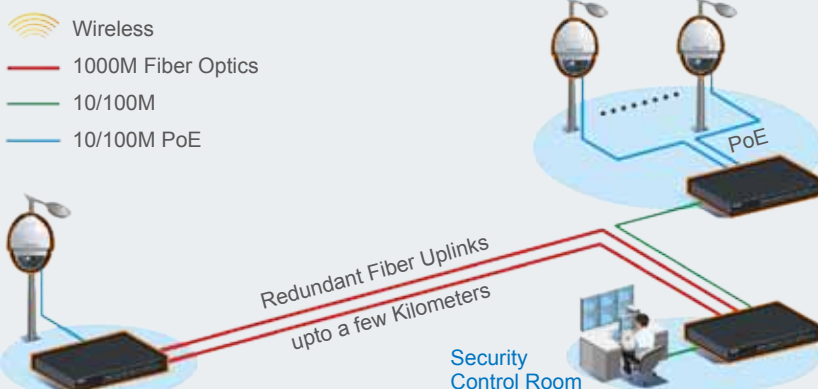


Figure 3 Outdoor Wireless CPE Solution

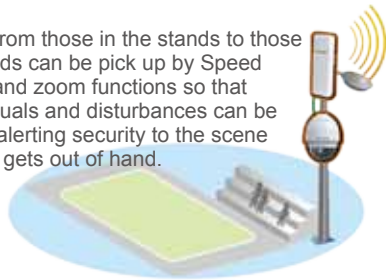


Figure 1 Case Study on School Surveillance

Micronet take care of students safety with first-rate network video surveillance

Sports Field

Physical attacks from those in the stands to those on the playing fields can be pick up by Speed Dome's pan, tilt, and zoom functions so that suspicious individuals and disturbances can be closely watched, alerting security to the scene before a situation gets out of hand.



Gymnasium

Vandal-proof Dome cameras can monitor campus activity 24/7, working to ensure that school policies are properly followed, threat of vandalism to school property is lessened.



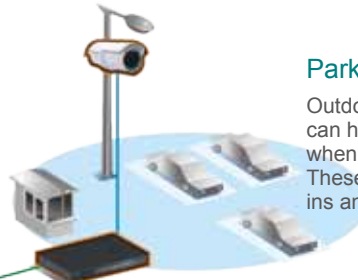
Security Control Room

Whether the school security challenge are bullies, vandals, or unwanted visitors. MicroView Video Management software with CMS enables alert-driven video delivery, storage and central monitoring.



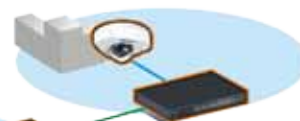
Parking Lot

Outdoor IR Bullet cameras in parking lots can help protect older students and staff when leaving school late or arriving early. These cameras can also discourage break-ins and vandalism during school hours.



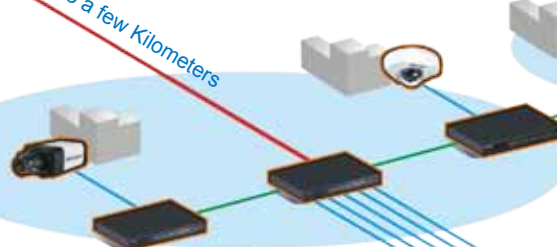
Cafeteria

Mini Dome cameras can help you monitor transactions near cash register and sales floor, and provide high-resolution footage that makes it easy to distinguish features of thieves.



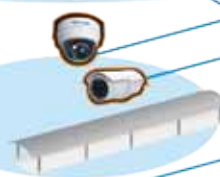
Administrative Building

School Campuses feature a variety of buildings, each with their own security needs. Box cameras can be strategically placed in order to protect valuables like computers, sound equipment, trophies and books, helping to secure facilities, watching for suspicious behavior and unauthorized access.



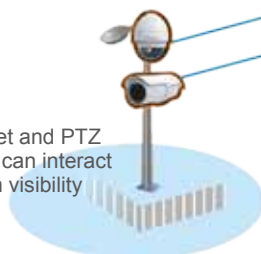
Corridor

Students usually have to cover a lot of ground when navigating ways through campus. This often involves traveling by foot, and sometimes the journey takes place late at night. Day & Night IR cameras, allowing students to wander the campus under safe watch 24/7.



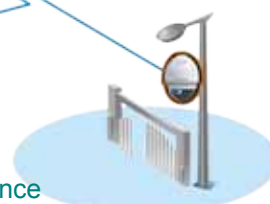
Campus Surroundings





Two different types of cameras, Bullet and PTZ Speed Dome, mounted strategically can interact with one another to create maximum visibility and security.



Main Entrance

Speed Dome cameras mounted near main entrances can get a full field of view with Pan, Tilt, Zoom (PTZ) which can help you record each visitor as they enter and exit your school. Cameras near exits can also help reduce truancy.



-  Wireless
-  1000M Fiber Optics
-  10/100M
-  10/100M PoE



SP5563HTM
Box Camera



SP5584HTM
Mini Dome Camera



SP5591HTM
Bullet Camera



SP5582HTM
Vandal-proof Dome Camera



SP5923
Speed Dome Camera



SP9015N
Wireless LAN Outdoor CPE



SP6010P8
8-port Managed PoE Switch with Fiber Uplink



SP6824P
24-port Managed PoE Switch with Fiber Uplink



SP1684B
24-port Gigabit Managed Switch with Fiber Uplink



About Micronet Communications

Micronet, founded in 1992, focuses on developing, manufacturing and marketing network product solutions, including wired and wireless network infrastructure and video surveillance. Based in Taiwan, Micronet cooperates with worldwide partners in more than 100 countries. For more information about Micronet, please visit our website at www.micronet.com.tw.

COMPANION PRODUCTS

Consider the following Micronet products as a factor in your network planning.

Ethernet Switch

Industrial Ethernet

IP Surveillance

Wireless LAN

VDSL•ADSL and Broadband

IP Telephony

KVM Switch

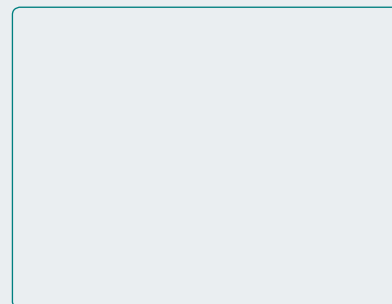
Network Appliance

Structured Cabling System

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