



Intelligent Video Analytics

IVS - Future of Surveillance

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» About AirLive

The manufacturer of AirLive® products, OvisLink Corp. was founded in 1993 in Taiwan by a group of industrial experts who set out to provide the best combination of quality, service, technology and value in the industry.

Today, OvisLink Corp. is an international corporation focused on Security Surveillance Solution with over 200 products and with hundreds of distributors around the world.



AirLive offers a comprehensive range for Surveillance Market including:

- Different models and types of traditional and smart IP Network Cameras
- Wide support of New Network Video Recorders (NVR's) with Multiple Event Detection and on site Plug & Play with HD Monitor
- Surveillance applications which support live viewing on all AirLive IP Cameras and CoreNVR series
- Gigabit Ethernet Web Smart PoE Switch that help to build high-performance switched workgroup networks

- wireless solutions including sharing 4G or 3G
- surveillance solutions for business, public buildings, shopping centers, as well as for security or multi-family houses.

AirLive products in recent years have focused on IP Network Camera Surveillance and Smart Ipcams that indicate future trend of the industry.

The latest products **MD-3025 IVS** and **BU-3026 IVS** provide multiple intelligent video analytics (IVS) that help to save human resources and reach the goal of automatic surveillance. **Intelligent Video Surveillance includes 6 powerful intelligence function** (Trip Zone, Face Recognition, e-Fence, I-Motion, Face Detection, Object Counting). An important note is that camera support smart tracking and 20x Optical Zoom Speed Dome (**SD-2020**) In addition, R & D department has developed many new technologies such as Clear Motion, WDR (Wide Dynamic Range), etc.

More about these technologies and all products in details can be read on www.airlivesurveillance.com



AirLive In Our Life

» Our Booth on Securex 2014



Securex Security International Fair is the largest and most prestigious security industry trade show in Poland and Central Europe. During the exhibition a comprehensive range of leading suppliers of products and services for the protection of property, information, alarm systems, video surveillance and security is presented.

During the Exhibition, we presented:

Face Detection by IVS IPCam - IVS (Intelligent Video Surveillance) provides multiple intelligent video analytics to help you save human resources and reach the goal of setting up automatic surveillance.

Speed Dome Smart Tracking - AirLive SD-2020 IP Cam, that optionally offers Smart Tracking functionality. This AirLive ST-SD20 Smart Tracking software utility will automatically detect a moving person or vehicle and follow it within the camera's area of coverage.

5M, 3M and 2M new IP Cameras, Mega-pixel@30fps ONVIF IPCamera, FishEye IPCAM, PoE Switch, and CoreNVR 9/16.



» Computex 2014 - Summary

Thank you for visiting AirLive Computex 2014. We appreciated your attendance and support.
Most important products we presented:

CoreNVR with CMS

AirLive presented CoreNVR Series with CMS which are easy to install and operate with up to 256 channel live viewing and playback for a total solution to enhance the security.

Device Guard PoE Switch

AirLive showcased Device Guard PoE Switch: POE- GSH2004L-370 & POE-FSH1008AT which safeguard Wireless and IP Camera Networks from device crash and malfunction.

Speed Dome IP Camera

AirLive presented Speed Dome Camera SD-2020 which is 2-Megapixel and equips integrates 20x optical AF lens, Sony progressive scan CMOS sensor, high-speed and precise pan/tilt mechanism. AirLive Speed Dome also can option Smart Tracking.

Device Guard PoE Switch

AirLive showcased its most popular IVS IPCam: BC-5010-IVS & MD-3025-IVS & BU-3026-IVS. Three IVS IP Cameras with built-in IVS Analytics includes: Face Recognition & Detection, Object Counting, Trip Zone, e-Fence, i-Motion for providing varies applications of area restricted, entrance verification, off-time monitoring, ...etc.



» IK10 Rating system

The IK rating system classifies the level of protection provides by enclosures for electrical appliances against external mechanical impact. An IK10-rated network camera can withstand an impact of 20 joules, meaning the camera will withstand the impact of a 5 kg weight dropped on it from a height of 40 cm.

There are 4 AirLive IPCam with IK10 rated system:

IK10 Series IP Cam



MD-3025
MD-3025-IVS
3-Megapixel IR
NightVision Vandal
Mini Dome IPCAM



BU-3026
BU-3026-IVS
3-Megapixel 25 meter Wide
Angle IR Bullet Type IPCAM
with Video Analytics



OD-2050HD
2-MegaPixel IR Outdoor
Vandal PoE IPCAM



OD-2060HD
2-MegaPixel Pan-Tilt
Outdoor Vandal PoE IPCAM



Application



IK Code and Impact Energy										
IK Code	IK01	IK02	IK03	IK04	IK05	IK06	IK07	IK08	IK09	IK10
Impact Energy	0.14	0.2	0.35	0.5	0.7	1	2	5	10	20
Mass (kg)	0.25	0.25	0.25	0.25	0.25	0.25	0.5	1.7	5	5
Stroke down (mm)	56	80	140	200	280	400	400	400	400	400

» 2014 winning products



MD-3025 IVS

World Excellent award 2014

The purpose of the award "HD World Excellent" is to draw attention and highlight interesting products in the field of high-end electronics and IT technology. When evaluating the products will focus primarily on the positive difference from the competition and customer benefits. Awards can obtain both overall innovative products as well as products with interesting functional improvement, significantly simplified control or even with a very friendly price.

World Excellent



Recommended



SD-2020

Recommened Product

"AirLive SD -2020 Camera is a truly multi-purpose tool for monitoring, which can be used in practically any type of applications - from shopping malls to advanced monitoring systems installed at airports. A multitude of functions and the ability to configure knocks off knees. Great picture quality (Full HD 1080p), 20x optical zoom and PTZ are the main characteristics that make the use of the camera comfortable, effective and easy. Note, however, most of the advanced functions work only in Internet Explorer browser. The price may scare - about 7 500 zł, but people deciding on such a solution will receive the device that is not only functional, but above all reliable." pcpower.pl



BU-2015

Super Quality, Super Product, Editor's Choice"

"AirLive BU-2015 camera is very good, and solidly constructed, so that it should serve for a long period of time. Image recorded by the camera has very good quality and leaves nothing to be desired. The camera in the night also coped very well. Although the LEDs supposed to illuminate the space of only 15 meters (camera was mounted on 6th floor) the picture was very clear. I would recommend this camera to anyone who wants to have a professional but also simple to use monitoring camera." Newspc.pl

Super Product



» AirLive Products support:



AxxonSoft

Leading software developer that combines IP-based physical security information management (PSIM), intelligent video analytics, video management software, facial recognition, POS and road traffic monitoring, and an enterprise-wide platform into fully integrated vertical and horizontal solutions. Since the company's inception in 2003, over 100,000 successful projects worldwide have been implemented based on AxxonSoft software.



Onvif

ONVIF is a global and open industry forum with the goal to facilitate the development and use of a global open standard for the interface of physical IP-based security products. Or in other words, to create a standard for how IP products within video surveillance and other physical security areas can communicate with each other.



Synology

Synology is dedicated to develop high-performance, reliable, versatile, and environmentally-friendly NAS servers. Synology provides an affordable way to centralize data storage, simplify data backup, share and sync files across different platforms, and access data on-the-go. The "5S" serve as the pillars to Synology's core values which are realized in products, features, and the direction we head.



Digifort

The Digifort system is offered in 4 different versions, offering sets of features compatible with any type of installation and offer support for a large number of IP Cameras and Video Servers of various manufacturers, allowing the client to choose the most adequate hardware and software set for his installation.



Nuuu

Founded in 2004, NUUO uses advanced and comprehensive technologies to enhance surveillance cameras to high standards demanded by our Intelligent Surveillance Solution.



Digiever

DIGIEVER is a leading company dedicated to integrating IP video surveillance solutions and providing world-class network video recorder (NVR). Formed with a group of experts who have rich experience in research and development in networking products, DIGIEVER, focuses on providing leading-edge surveillance

» New Surveillance Site

www.airlivesecurity.com

- New fresh, minimalistic and simple design
- User friendly navigation
- Many practical solutions and applications
- Case studies
- Portfolio
- Live demo
- Marketing Support
- Download area
- Creative product videos



New Products



BC-5010-IVS

5 Megapixel Box Type PoE IP Camera with Video Analytics

BC-5010-IVS is the new generation of 5 Megapixel box type IP Camera with video analytics from AirLive, it improves the frame rate up to 15 FPS at 5 Megapixel resolution and it also provides SD slot and USB port for local storage. Moreover, with optional wireless dongle, AirLive BC-5010-IVS can support wireless connection. AirLive BC-5010-IVS can offer you smoother video. At 5 Megapixel resolution, new processor can process 15 frames per second. In addition, it can also operate at 3 Megapixel at 25 frames per second or 1080P at 30 frames per second. The enhanced sensor can work in light condition as low as 0.2 lux. Therefore, AirLive BC-5010-IVS can offer better quality video in low light environment. **More details: page 10**

Live-5F v2

5-Port Fast Ethernet Switch

Live-5F v2 is a 5-port fast Ethernet switch enclosed in a mini and stylish housing. Each port is equipped with Auto-MDI/MDIX to eliminate the need for cross-over cable. In addition, N-way auto-negotiation function ensures plug-n-play simplicity. The comprehensive LEDs allow users to track network status at a glance. AirLive's Live series is the master piece of performance, reliability, and simplicity with eye-pleasing decor design.



BU-3026

3-Megapixel 25 meter Wide Angle IR Bullet Type IPCAM

BU-3026 IP Camera is the latest bullet type camera from AirLive. With built-in 3-Megapixel CMOS sensor and CS mount wide angle lens, AirLive BU-3026 offers excellent video quality and large area surveillance. With IP66 housing with cable through bracket, this camera can sustain severe environments and prevent from being damaged by gangster. Furthermore, BU-3026 can work day and night with ICR and 25 meter IR LED. AirLive BU-3026 provides 3-Megapixel high definition resolution at 25 frames per second and 1080P at 30 frames per second. With CS Mount 2.6mm ultra wide high quality lens, AirLive BU-3026 can secure larger area compare to normal camera and outstanding low lux video quality

BU-3026 IVS

3-Megapixel 25 meter Wide Angle IR Bullet Type IPCAM with Video Analytics

BU-3026-IVS-IVS IP Camera is the latest bullet type camera from AirLive. With built-in 3-Megapixel CMOS sensor and CS mount wide angle lens, AirLive BU-3026-IVS-IVS offers excellent video quality and large area surveillance. With IP66 housing with cable through bracket, this camera can sustain severe environments and prevent from being damaged by gangster. Furthermore, BU-3026-IVS-IVS can work day and night with ICR and 25 meter IR LED. AirLive BU-3026-IVS provides multiple intelligent video analytics that helps you to save your human resources and reaches the goal of automatic surveillance. **More details: page 10**



POE-FSH1008AT

8-port POE + 2 Combo Gigabit 802.3at Device Guard Web Smart Switch

POE-FSH1008AT is a 10-Port web smart switch including 8 PoE ports and 2 RJ45/ SFP uplink ports. Each PoE Port can provide up to 30W output which is 802.3at/af output standard. With the standard 802.3at/af PoE function, the PoE-1008AT can power any standard 802.3at/af IP cameras or access point. Moreover, it provides the remote management function including enable/ disable the PoE output, VLAN, Bandwidth Control, Trunking, Broadcast Storm Control and Device Guard.

Campro Mobile

Live Viewing on iOS and Android Mobile Devices

CamPro Mobile app is for both iOS and Android system which supports live viewing on all AirLive IP Cameras and CoreNVR series. You may have up to 4 channels in a group at a time with two-way audio, snapshot and movement controls on PTZ cameras. Please visit App Store or Google Play to download this free software. CamPro Mobile HD is high resolution quality for iPad with exactly the same functions as CamPro Mobile.





CoreNVR 16

16-Channel Network Video Recorder with HDMI

CoreNVR series is a new generation Network Video Recorder for home, retailer stores and small office applications. It supports up to 3 Megapixel resolution for IP cameras with H.264 video codec for high quality, real-time monitoring, recording and playback. It also supports HDMI video out to provide you high resolution video quality on any HD monitor.

You can easily setup the system by a few clicking on the build-in web pages of CoreNVR series with AirLive IP cameras for searching, configuring and notifications from multiple different alarm triggered. Furthermore, with two internal 3TB SATA HDD and eSATA interface, this provides alternation and more storage capacity and keeps the video files in the CoreNVR system for longer period.

MD-720

720P 2.8mm Wide Angle PoE Mini Dome IP Camera

AirLive MD-720 is a mini-dome camera that mounts on the ceiling. It measure only 99mm in diameter and 60.6mm height. It is only about the half size of a standard dome camera and makes it suitable for elevators, office, shops, home, and public areas, and even on public transportations. The camera has 802.3af PoE port so you can install the device away from the power source. MD-720 provides 720P High Definition resolution at 30 frames per second. That's means crisp and smooth video with full details.



FE-200VD

2-MegaPixel Vandal Dome Fish Eye PoE IPCAM

FE-200VD is a Fish-Eye Vandal Dome Network Camera; it is featured with superior H.264- AVC performance and rich functions. It includes a fish-eye lens for 360° wide angle view without blind spot. AirLive FE-200VD provides the user modes of multiple video, including source image, double broad view, triple mode view and quad view. The e-PTZ function includes 16 preset points without moving parts; it can execute part of traditional PTZ camera functions and thus it saves lot of traditional mechanical Pan/Tilt maintain cost. AirLive FE-200VD enables you to monitor an area in high-resolution quality and without any blind spots. AirLive FE-200VD is a discrete camera. Mounted to a ceiling, it provides 360° surveillance covering the entire area. With just one camera, up to 4 virtual cameras can be displayed.

SD-2020

2-Megapixel 20X Optical Zoom Speed Dome IP Camera

SD-2020 is 2-Megapixel Speed Dome IP Camera which integrates 20x optical AF lens, Sony progressive scan CMOS sensor, high-speed and precise pan/ tilt mechanism. With IP66 and wide temperature range support, SD-2020 has excellent capability for harsh outdoor environment. 2-Megapixel Sony Progressive CMOS Sensor with Wide Dynamic Range and High Frame Rate AirLive SD-2020 is built-in 2-Megapixel Sony CMOS Sensor. With Sony COMS sensor, user can see smooth video with 30FPS at full HD resolution in 0.05 lux surroundings. Even though camera is in strong back light environment, user still can see the details in the bright and dark areas.



BU-2015

2-Megapixel Outdoor IR Nightvision Bullet IP Camera

BU-2015 is a high-level 2-Megapixel network camera which is designed for professional surveillance and security applications. The built-in IR LEDs provides high quality of night time monitoring with 15M viewing distance in darkness. Users are able to view live video over the internet and PoE function allows power and data to be transmitted via single Ethernet cable. This useful function provides an easier installation, lower cabling costs and allows placement of AirLive PoE cameras in locations without access to electrical source. With the IP66 rated housing, AirLive BU-2015 offered water and dust proof features for demanding environments. Also it can be easily installed and be integrated into kinds of surveillance project.

MD-3025-IVS

3-Megapixel IR NightVision Vandal Mini Dome IPCAM with Video Analytics

This is the latest Mini Dome camera from AirLive. It combines 3-Megapixel video, wide angle lens, power over Ethernet, ICR, excellent image quality, IR night vision and intelligent video analytics into one compact size. With only 108mm in diameter and 62mm height, it is about the half size of a standard dome camera and makes it suitable for elevators, offices, shops, home, and public areas, and even on public transportations. Its 802.3af PoE port can also let you install the device away from the power source. AirLive MD-3025-IVS provides multiple intelligent video analytics that helps you to save your human resources and reach the goal of automatic surveillance. More details: page 9.



» AirLive IVS IP Cameras



IVS Function - The futuristic solutions are ready now.

Imagine a world where machines can do automation for you, things that we only dreamed about in science fictions or movies. Imagine a camera that can count people, recognize faces, aware of the crowd, and warn you when there is a potential hazard. At AirLive, we believe the IP cameras can do more than just video recording. That's why we spent over two years to develop the industry's most comprehensive intelligent IP cameras. The futuristic solutions are ready now.

Intelligent Automation

Possible automations that AirLive IPCam could manage:

Counting:

Find out the number of people, cars, or user defined objects within specific period.

Event:

When a face is detected, object removed, or someone cross the fence; you can decide what action to take

Recognize:

Identify faces for front door access control

Counting+Event:

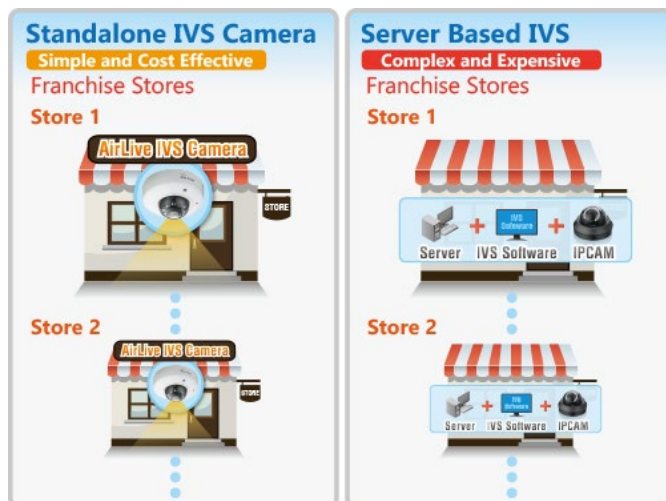
Define the number of people or cars detected within specified period, then decide what action to take.

Action:

Send emails message, trigger alarm, voice announcement, save or send video or picture.

Standalone Video Analytics

Each AirLive IVS (Intelligent Video Surveillance) camera has 6 built-in video analytics functions that encompass 7 major applications. It is completely standalone and self sufficient. That means there is no need for expensive server and professional VMS software licenses.



» AirLive MD-3025-IVS

3-Megapixel IR NightVision Vandal Mini Dome IPCAM with Video Analytics

AirLive MD-3025-IVS combines 3-Megapixel video, wide angle lens, power over Ethernet, ICR, excellent image quality, IR night vision and intelligent video analytics into one compact size. It is a mini-dome camera, mounted on the ceiling. With only 108mm in diameter and 62mm height, it is about the half size of a standard dome camera and makes it suitable for elevators, offices, shops, home, and public areas, and even on public transportations. Its 802.3af PoE port can also let you install the device away from the power source.

Feature Summary

- Miniature Size Dome with Vandal Proof (IK10 Certified)
- IP66 Protection
- 3-Megapixel 1/2.5" CMOS Sensor
- Support 25FPS at 2048x1536 or 30FPS at 1080P
- 802.3af PoE Port
- 2.6mm Wide Angle Lens
- Low Lux Sensor for Ultra Bright Images
- 15m IR LEDs
- Mechanical IR-Cut Filter Removable
- MicroSD Card Slot for Local Storage
- Built-in MIC, Two-Way Audio, DI/DO
- Clear Motion Technology for Moving Objects
- WDR Enhanced
- Compatible with ONVIF Standard
- Free 64-Channel Recording Software

Clear Motion Technology

AirLive MD-3025-IVS has the Clear Motion Technology to minimize the motion blur caused by moving objects. So you can have the details where you need it.



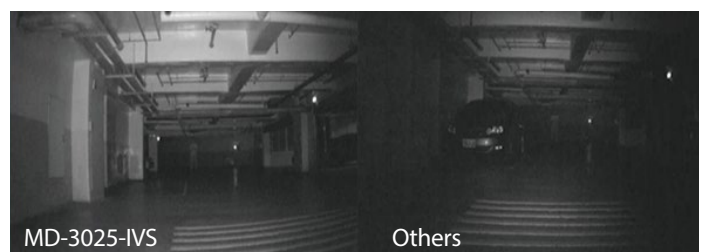
Mini Compact Size

With only 108mm in diameter and 62mm height, it is about the half size of a standard dome camera and makes it suitable for elevators, offices, shops, home, and public areas, and even on public transportations.



IR Night Vision and IR-CUT Removable (ICR)

AirLive MD-3025-IVS is designed for 24hr indoor/outdoor surveillance even in the harshest conditions. AirLive MD-3025-IVS is equipped with high resolution CMOS sensor with infrared LEDs in up to 15m working distance. The auto-changeable IR filter also provides superior day/night performance.



» AirLive BU-3026-IVS

3-Megapixel 25 meter Wide Angle IR Bullet Type IPCAM with Video Analytics

AirLive BU-3026-IVS is bullet type camera built-in 3-Megapixel CMOS sensor and CS mount wide angle lens. AirLive BU-3026-IVS offers excellent video quality and large area surveillance. With IP66 housing with cable through bracket, this camera can sustain severe environments and prevent from being damaged by gangster. Furthermore, BU-3026-IVS can work day and night with ICR and 25 meter IR LED. BU-3026-IVS provides 3-Megapixel high definition resolution at 25 frames per second and 1080P at 30 frames per second. With CS Mount 2.6mm ultra wide high quality lens, AirLive BU-3026-IVS can secure larger area compare to normal camera and outstanding low lux video quality.



Feature Summary

- IP66 Housing with Cable through Bracket IP-66 Protection
- 3-Megapixel 1/2.5" CMOS Sensor
- Support 25FPS at 2048x1536 or 30FPS at 1080P
- 802.3af PoE Port
- 2.6mm CS Mount Wide Angle Lens
- Low Lux Sensor for Ultra Bright Images
- 25m IR LEDs
- Anti-fog Front Cover
- Mechanical Removable IR-Cut Filter
- MicroSD Card Slot for Local Storage
- Two-Way Audio, DI/DO
- Clear Motion Technology for Moving Objects
- WDR Enhanced
- Compatible with ONVIF Standard
- Free 64-Channel Recording Software

Clear Motion Technology

AirLive MD-3025-IVS has the Clear Motion Technology to minimize the motion blur caused by moving objects. So you can have the details where you need it.



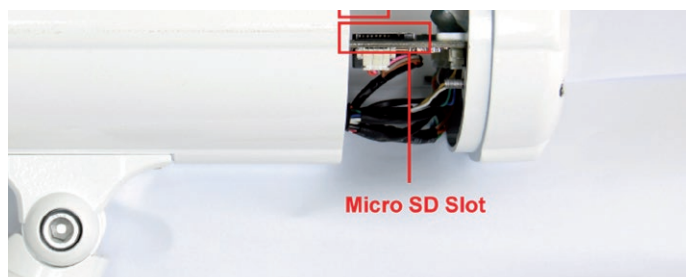
IP66 Waterproof Housing, Cable through bracket and Anti-Fog Front Cover

The outdoor environment is unexpected. The rugged IP66 waterproof housing can stand harshest circumstances and the cable through bracket can also protect the extend cables from the destruction by invaders. Moreover, to avoid the fog on the glass, Anti-fog front cover is applied for AirLive BU-3026-IVS.



MicroSD Card Recording

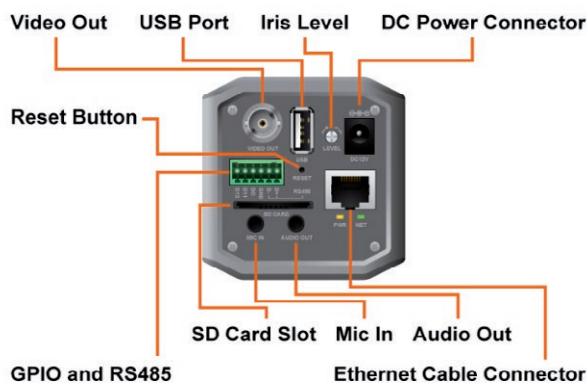
With the Built-in MicroSD card slot, this camera can record video in itself locally without PC or NVR. AirLive BU-3026-IVS supports Micro SDXC up to 64GB capacity for longer video recording. Customer can save cost to set up surveillance easily.



» AirLive BC-5010-IVS

5 Megapixel Box Type PoE IP Camera with Video Analytics

BC-5010-IVS is the new generation of 5-Megapixel box type IP Camera with video analytics from AirLive, it improves the frame rate up to 15 FPS at 5-Megapixel resolution and it also provides SD slot and USB port for local storage. Moreover, with optional wireless dongle, AirLive BC-5010-IVS can support wireless connection. AirLive BC-5010-IVS can offer you smoother video. At 5-Megapixel resolution, new processor can process 15 frames per second. In addition, it can also operate at 3-Megapixel at 25 frames per second or 1080P at 30 frames per second. The enhanced sensor can work in light condition as low as 0.2 lux. Therefore, AirLive BC-5010-IVS can offer better quality video in low light environment.



Changeable Lens and Auto-Iris Support

AirLive BC-5010-IVS can support both C mount and CS mount lens without needs for adapters. In addition, the support for Auto-Iris lens allows automatic aperture adjustment to improve image quality to avoid over exposure.

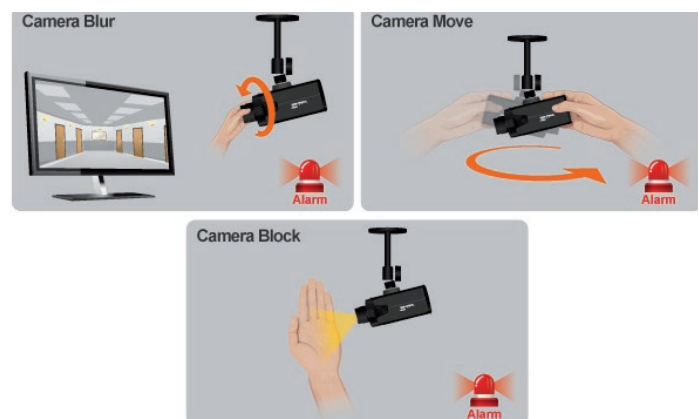


Feature Summary

- 5 megapixel high resolution CMOS sensor
- 0.2Lux at F1.2
- DC IRIS and IR-CUT Removable (ICR)
- Multiple Profiles Supported(H.264, MPEG4, MJPEG and 3GPP)
- Support 15fps at 2592x1920
- Two-way audio
- Intelligent motion detection up to 3 zones
- Support iSCSI, WDR enhanced HTTP/RTSP protocols selectable
- Image transmission using an FTP or e-mail for event
- Digital I/O connectors and RS-485 supported
- 802.3af PoE support
- USB wireless dongle support (with adaptor only)
- SD/SDHC Slot and USB slot for local storage
- Compatible with ONVIF standard
- Built-in Video Analytics (Equiped only for BC-5010-IVS)
- UPnP device discovery and NAT router transversal for easy installation

Tampering Detection

The tampering detection function will provide alarm when AirLive BC-5010-IVS is under attack. For example, if the intruder tries to move it to the other side, AirLive BC-5010-IVS will recognize the attack and send out the alarm or trigger the digital output devices.



IVS Function

- 6 built-in video analytics functions



Object Counting

One of useful IVS feature to count objects like cars, pedestrians, or any objects size you may define in the IVS IP Cameras.

We focused on Vehicle Counting and People Counting.

The amount of object counting is able to trigger alarm output or various notifications, and also will be stored in the database for further search.



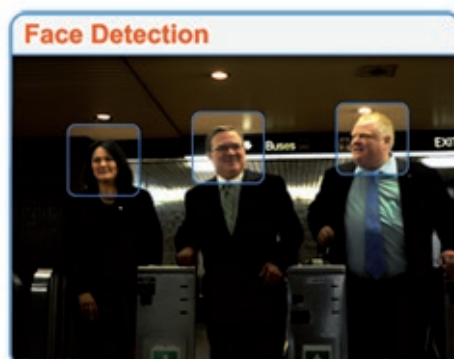
To detect objects moving from one zone to the other, also can be used for „Wrong Way” detection. A Trip Zone event can be triggered by time interval or object quantity. The unique adjustable and transformable area also provides you the most accurate detection.



i-Motion detection offers 4 detective zones to guard the targets and inspect the invader. It is more accurate than normal motion detection. IMotion detection can be triggered by objects such as people and cars-instead of normal pixel changes.



e-Fence is an invisible fence. It is a simple, convenient and safe home security solution, so you can easy set it from IP camera on your back yard to protect your house. When someone intrudes your house, it will send notification by an alarm or e-mail to you immediately.



Face detection is a precise feature which needs highly accurate rate of recognition on human faces only. The software is able to count many faces in the image and also highlights those faces simultaneously so the administrator will be easier to look in detail on each face at a specific environment.



Intelligent
Video
Analytics
by
AirLive



AirLive IP cameras with Face Recognition can verify a face againsts the pre-installed database on the edge and only allow those who passed the verification process. The IVS IP Cameras will take few seconds to recognise the face already in database and trigger an event or a digital output to open the door.

» Vehicle Counting



Overview

It is a standalone function built into the camera's firmware without the need for external software or device. The object counting function can be used to count people or cars. This function is perfect to do vehicle counting in places like intersections, arteries, parking space and highways.

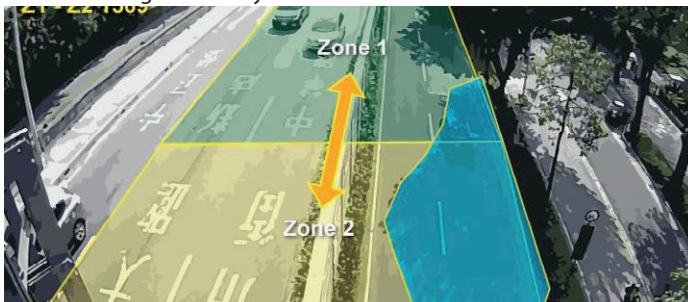
The Object Counting works by defining 2 zones on the video image. When a vehicle crosses the center border between 2 zones, the camera will register a count. The camera can count vehicles from "Zone1 to Zone2", "Zone2 to Zone1", or both directions.

The important factors for successful vehicle counting installations are:

- choose the appropriate viewing angle and height.
- choose the appropriate resolution and frame rate.
- choose the appropriate installation location; avoid any obstacle like shadow of tree or building showing in the detecting area.

Some important installation guidelines for best Vehicle Counting

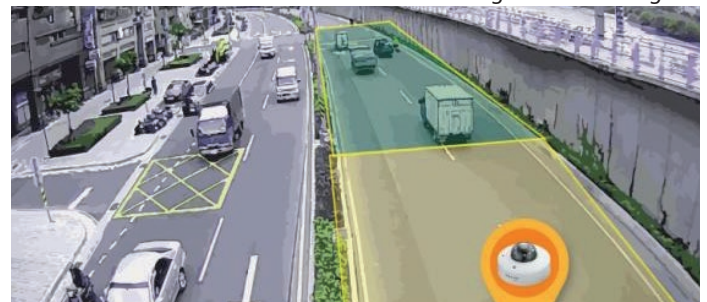
Avoid any obstacle like shadow of tree, building and traffic light showing in the detecting area. It may cause false detection statistic and false alarm.



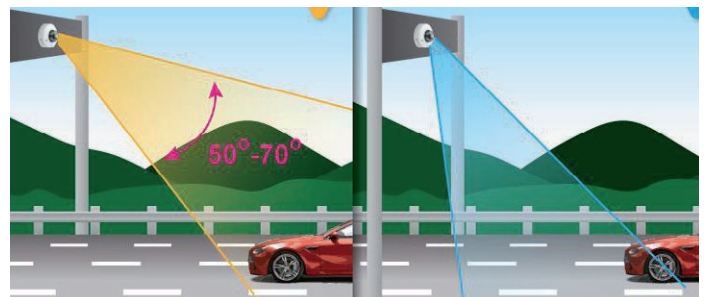
Avoid the camera position is too low or too high, the proper height will be 9~15 meters based on different application environment.



Make sure the camera position is right above the lane or detecting area
Attention: Lots vehicles in the screen will cause higher CPU loading.



Make sure the appropriate viewing angle to have the best field of view.



» People counting



Overview

It is a standalone function built into the camera's firmware without the need for external software or device. The object counting function can be used to count people or cars. This function is perfect to do people counting in places like shopping malls, stores, or super market. The Object Counting works by defining 2 zones on the video image. When a vehicle crosses the center border between 2 zones, the camera will register a count. The camera can count vehicles from "Zone1 to Zone2", "Zone2 to Zone1", or both directions.

The important factors for successful vehicle counting installations are:

- choose the right installation location
- choose the correct resolution and frame rate
- calibrate the object size

It is recommended to have at least 3 meter of vertical clearance (from floor to ceiling) for best performance.

Tracking the number of visitors to the shopping mall, supermarket, or store, especially during holiday sales periods or promotions, lets the manager know how efficiently it could turn potential customers into paying customers. The retail industry revolves around customer service and the staff hired determines the quality of the customers' experiences. Analyzing foot traffic with people counters for business help justify labor costs by highlighting peak traffic times. Scheduling the best salespeople and additional staff members during prime shopping hours can result in a better customer experience. On the other end of spectrum, labor costs can be reduced by cutting the number of employees scheduled during the less busy store hours.



Installation guidelines:

Avoid tilting the camera forward or backward



Make sure there is enough illumination.



Avoid direct sunlight into the counting zone.



Avoid tilting the camera forward or backward



Make sure there is enough illumination.



» Trip Zone



Overview

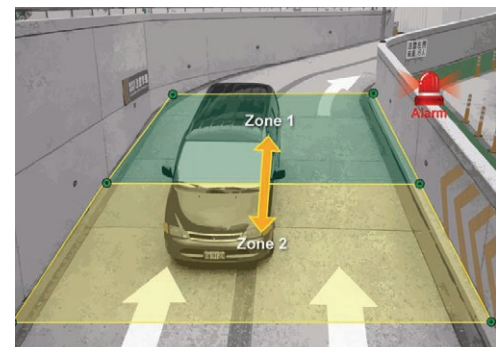
It is a standalone function built into the camera's firmware without the need for external software or device. The Trip Zone function can be used to detect people or vehicles crossing the restricted area or boundary. It could work in places like one-way traffic, railway station platform, exit of parking lot, highways, privacy or military instruction.



The Trip Zone function works by defining 2 zones on the video image. When the system detects an object crossing the center border between 2 zones, it will send an alert message to notify the administrator within seconds. It can detect object from "Zone1 to Zone2", "Zone2 to Zone1", or both directions.

The important factors for successful iMotion Detection installations are:

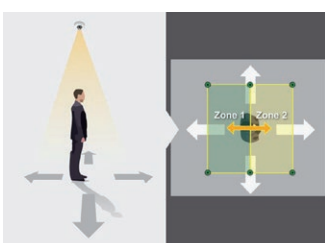
- choose the appropriate camera viewing angle of tree or building showing in the detecting area.
- choose the appropriate camera height (distance)



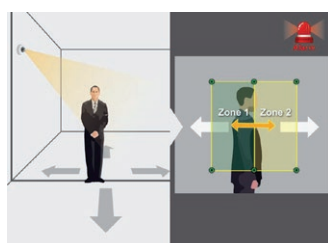
To detect objects moving from one zone to the other, also can be used for "Wrong Way" detection. A Trip Zone event can be triggered by time interval or object quantity. The unique adjustable and transformable area also provides most accurate detection.

Some important installation guidelines for best Trip Zone

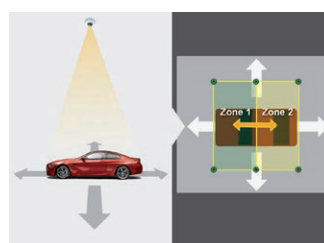
For human beings, camera can be installed from right above the side of the area.



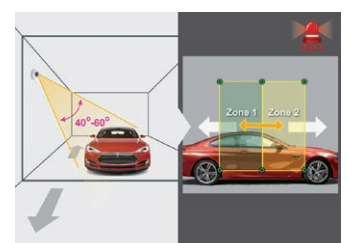
If you install the camera to the side of the area, horizontal detection will be our suggestion.



For vehicles, camera can be installed from right above the area to 45 degrees oblique angle.



For 45 degrees angle, you can choose a horizontal or vertical detection.



» e-Fence



Overview

It is a standalone function built into the camera's firmware without the need for external software or device. The e-Fence function can be used to detect any objects when it crosses border of detection areas. It could work in places like museum, residential area, warehouse, military structure, or jail.



The e-Fence is an electronic fence protection system which is able to detect and send output alert if any object is entering or leaving the boundaries you set in the camera.

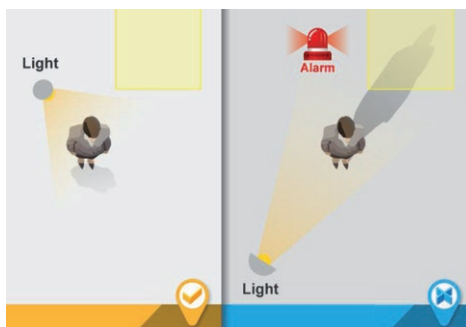
The e-Fence works by defining 1~4 zones on the video image. When a person or object crosses the border or moves in/out the zone, the camera will detect the object immediately.

The important factors for successful iMotion Detection installations are:

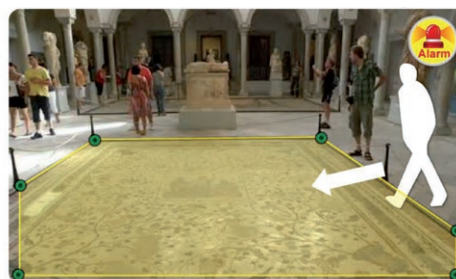
- choose the appropriate installation location and avoid any obstacle like shadow of tree or building showing in the detecting area.
- choose the appropriate resolution and frame rate.

Some important installation guidelines for best e-Fence

Prevent from any shadow comes into detection area.



Make sure there is enough illumination. (Noise will cause the false alarm)



e-Fence Settings

Sensitivity: MODERATE

Detect: ☒ People ☐ Vehicles ☐ Anything

Calibration: ☒ People ☐ Vehicles

Event Conditions: Interval User Define 10 SEC

Set Event Action

Zone Settings

Set Zones Add Zone Delete Zone Delete All Enable



» I-Motion Detection



Overview

It is a standalone function built into the camera's firmware without the need for external software or device. The iMotion detection function can be used to detect specific or any moving objects.

There are 3 specific enhancements in iMotion Detection compared with Motion Detection.

- ability to distinguish motion from people, vehicle, or user defined object size.
- define the detection areas with polygons.
- ability to define event interval

The iMotion Detection works by defining 1~4 zones on the video image. When a person or object crosses the border or moves into the zone, the camera will detect the object immediately.

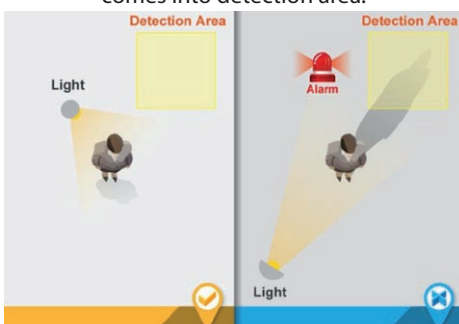
The important factors for successful iMotion Detection installations are:

- choose the appropriate installation location and avoid any obstacle like shadow of tree or building showing in the detecting area.
- choose the appropriate resolution and frame rate.



Some important installation guidelines for best iMotion Detection

Prevent from any shadow comes into detection area.



Prevent from any shadow comes into detection area.



Prevent from any shadow comes into detection area.



» Face Detection



Overview

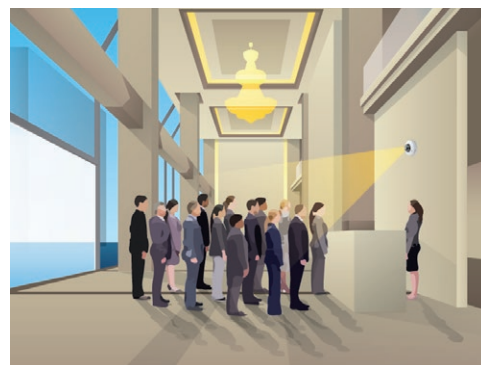
It is a standalone function built into the camera's firmware without the need for external software or device. The Face Detection function can be used to detect and count any person walks by or stays in the detected area. "Face Detection" function to detect human face in places like office, lobby, ticket stand, shopping mall, airport, cashier, signage system and amusement park.

The Face Detection works on the live view video image. When people walk into the video image area, the camera will detect people's faces. The maximum quantity of face can be detected in the video at the same time is 35 faces.

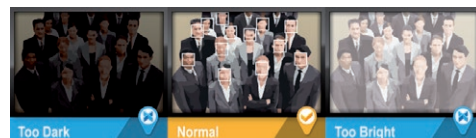
The important factors for successful Face Detection installations are.

- Choose the appropriate installation location and height.
- Choose the appropriate resolution and frame rate.
- Make sure the people's face is bigger than minimum face size

The maximum quantity of face can be detected in the video at the same time is 35 faces.

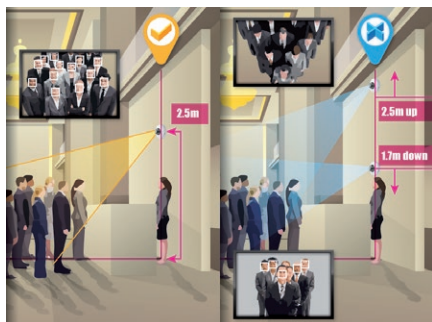


Avoid the light of surrounding is too dark or too bright

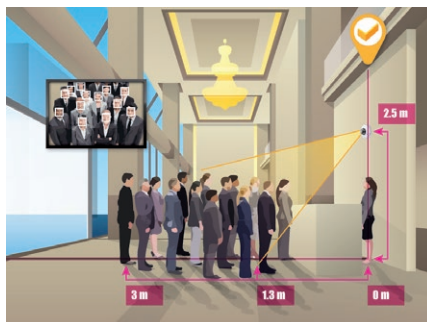


Some important installation guidelines for best Face Detection.

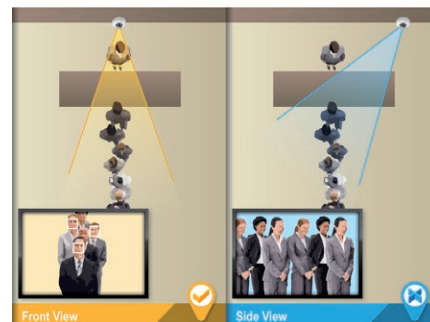
Prevent from any shadow comes into detection area.



Prevent from any shadow comes into detection area.



Prevent from any shadow comes into detection area.



» Face Recognition

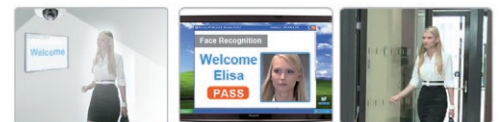


Overview

It is a standalone function built into the camera's firmware without the need for external software or device. The face recognition function can be used for the access control. Face Recognition function to do access control in places like offices, warehouses, vaults and laboratories.

The Face Recognition requires creating the face database in advance. People need to register their faces by the camera first. Once the database has been created, camera is able to recognize the registered faces when they showing in the camera view.

Face Recognition is to recognize faces for access control or any suspicious persons in camera which is matched to the database. AirLive welcome 3rd company to cooperate and provide better user experiences.

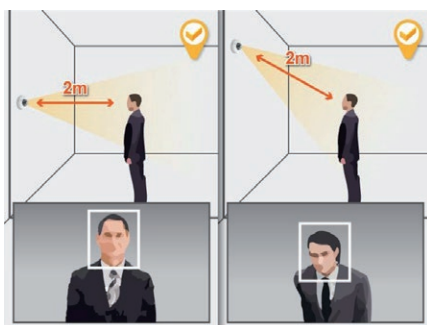


The important factors for successful Face Recognition installations are.

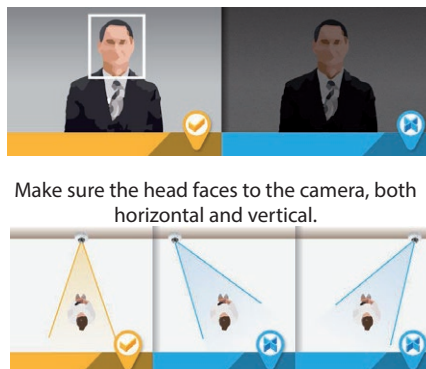
- Choose the appropriate viewing angle and height.
- Choose the appropriate resolution and frame rate.
- Choose the appropriate installation location; avoid any obstacle like shadow showing in the detecting area.

Some important installation guidelines for best Face Recognition

Avoid the camera position is too far to recognize the face. The proper distance from the camera to the face will be less than 2 meters for face recognition.



Make sure there is enough illumination around the face.



Make sure the head faces to the camera, both horizontal and vertical.

Example application:

Casino



ATM Drive through



» Solutions - Safety Hotel



AirLive's surveillance network solution offers you the ability to broadcast your surveillance footage over the internet. This breakthrough in surveillance technology allows you to monitor any of your hotel security cameras at any time from any internet connection, giving you instant security updates.

System Feature

IP Camera Video Analytics

IVS IP Camera provides multiple intelligent video analytics that helps hotel managements to save human resources and reach the goal of automatic surveillance.

Face Recognition for VIP Lounge or VIP Elevator

To Identify faces for unique guests at the particular entrance to differentiate the service

Intelligent Focus Issues

When the issue occurred, the Speed Dome can be set to be triggered to focus, zoom-in, and record the issue.

CoreNVR with CMS/AirLive Central

Easy to install, monitor, and manage the distributed ip camera system, and support up to 256 channels

Device Guard Secure IP Cameras and APs

Secure our wireless APs and IP Cameras from device crash and malfunction

Wireless Internet Service for Entire Hotel

Provide high speed internet service through the entire Hotel

Product

IP Camera



Wireless



Hardware



Software

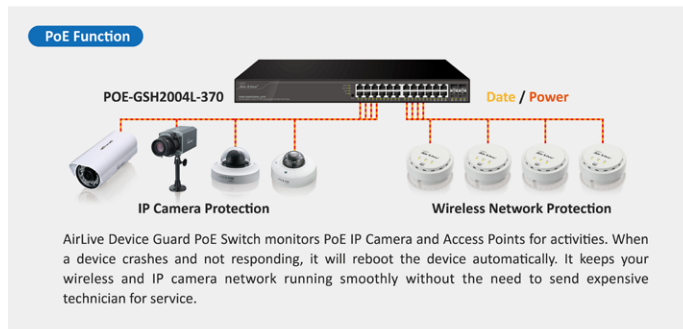


» PoE+ Device Guard Switch Series

AirLive PoE+ Device Guard Switch Solves Surveillance Challenges

Building a reliable surveillance system can be challenging. There might be a broadcast storm causing the surveillance video feeds dropping out or freeze, or heavy network traffic during data transferring. The best way to solve these problems is to create a separate network for private data and surveillance traffic. However, it costs the end users more for additional hardware and cabling. With AirLive PoE+ Device Guard Switch, you can separate the data and surveillance network with less hardware and cabling, easier deployment, and lower costs.

AirLive, leading worldwide brand for networking and communication equipment, introduced AirLive PoE+ Device Guard switch series, which can automatically detect the presence of an 802.3at/af compliant powered device (PD) and provide power through the port. The AirLive switch provides up to 30W per PoE port and can be used to power AP, IP phone, IP Cam and other PD devices. AirLive PoE+ switch equipped with high Power AC/DC power module. It does not require external Power adapter and can power up to 24 PoE devices for PoE-GSH2004L-370 with maximum 370W of power totally, and 8 Port PoE devices for PoE-FSH1008AT with maximum 130W of power totally



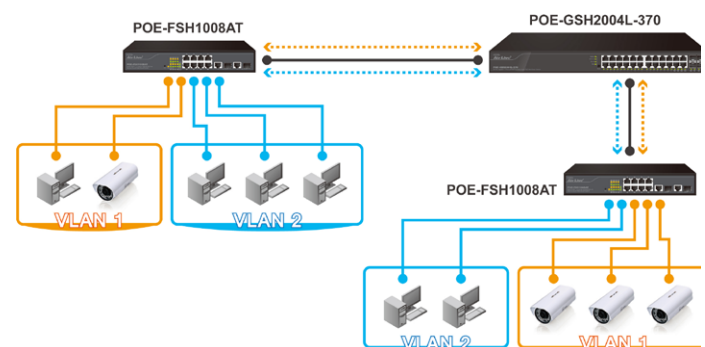
Auto Secure (Device Guard) -- Your virtual technician

AirLive Device Guard Switch can automatically re-power the PoE IP cameras and Access Point, whenever IP cameras or Access Point is not working. This intelligent design comes with an advantage of cost saving is considered benefiting enterprise customers the most. In most cases, IP-cameras and access points are located in places that are not easy to reach. Device Guard Switch monitors the IP cameras or access points by the IP or packet status and will automatically provide power to a device when a non-responsive status is detected. Therefore, both wireless and networks surveillance can run smoothly without extra manually technician support.

VLAN Provides Better Solution to Separate the Surveillance Network from Networks

It is highly recommended to keep surveillance network isolated from others in order to deliver a more stable performance. AirLive web smart switch supports two types of VLANs: Port Based VLAN and Tag Based VLAN (802.11Q), allowing users to separate surveillance network from other networks easier.

VLAN is a technology for segmenting networks into multiple distinct domains and dividing network users into logical groups. Only the users in a specific group are capable of exchanging data or accessing certain resources on that network. If a network video system is segmented into a VLAN, only the servers located on that VLAN can have the access to the network cameras. VLANs normally provide a better and more cost-efficient solution than a separate network requires extra expense on additional hardware and installing new cabling. (Separate network as: data network and surveillance network separate.)



Prioritize the Network Traffic & Ensure the Network Bandwidth (QoS)

In order to ensure that there is sufficient bandwidth available for surveillance devices, users are able to set the priority for specific ports on the switch. For example, connections to network cameras and storage servers should be set at higher priority while others such as desktop, email, FTP, HTTP, ect. can be set for low priority, making sure that the bandwidth is available for critical video surveillance.

Efficient Remote Management

For management efficiency, Airlive PoE web smart switch allows the MIS or surveillance administrator to reboot or disable/enable PoE power, IP camera and Access Point remotely.

Long Distance connection between switch by using Fiber Optical

AirLive GSH2004L-370, FSH1008AT offers 4UTP/SFP combo and 2 combo ports boasting high-performance switch architecture for long distance.

AirLive web smart Switch, with its build-in SFP slot, is able to be connected with Fiber in a distance up to 80km.



Retail



Train Station



**Auto
Secure**

**Full
Power**

VLAN



PoE Switch Series for IP Surveillance Solution

AirLive PoE+ Switch Series brought IP Surveillance Solution with benefits including Full Power, Auto Secure (Device Guard), VLAN, QoS, Remote management, Long distance connection between switches. More detail introduce please visit our website.

Solution System



Related Product

Device Guard Switch



POE-GSH2004L-370
24 Port Gigabit with 4 UTP/SFP combo 802.3AT
Device Guard Web Smart Switch



POE-FSH1008AT
8-port POE + 2 Combo Gigabit 802.3at
Device Guard Web Smart Switch

PoE Switch



POE-FSH808PW
8-Port 24V Passive POE + 2 Gigabit Uplink
Web Smart Switch



POE-FSH804AT
8-Port 802.3at/802.3af Fast Ethernet Switch
with 4 PoE Ports