15-meter Infrared Camera

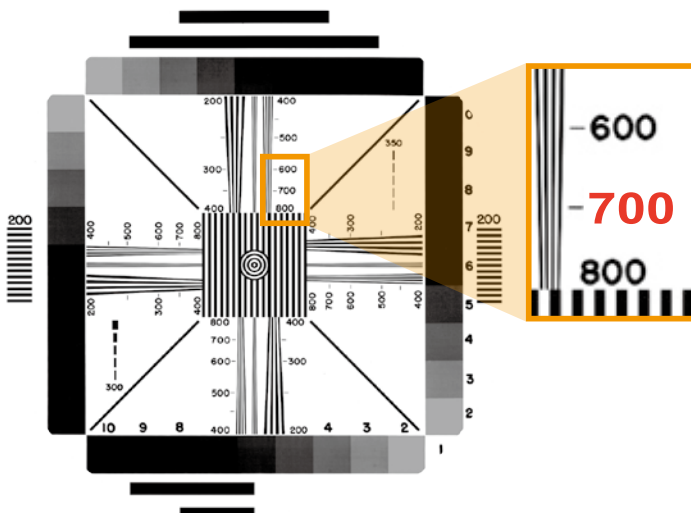

Providing Better Lens for Clearer and Sharper Surveillance Image

PLANET provides various camera solutions for users to solve different security issues. Working with PLANET Digital Video Recorders or Internet Video Servers, the CAM-IR138 helps people easily create a secure protection system for their daily lives.

The new CAM-IR138 provides you with better lens, processor, and resolution, when compared with the last version. It produces pictures reaching 700TV Lines (TVL) of horizontal resolution when integrated with the highly sensitive color Sony DSP 1/3" interline transfer Charge Coupled Device (CCD) image sensor. Its auto-iris lens will then adjust the amount of light that passes through the lens automatically to help form a sharp and clear image.

TV Lines are a measure of horizontal resolution that must be measured using a specialized chart like the one shown below. It helps to detect the number of TV Lines that a camera produces because the human eyes cannot detect them.
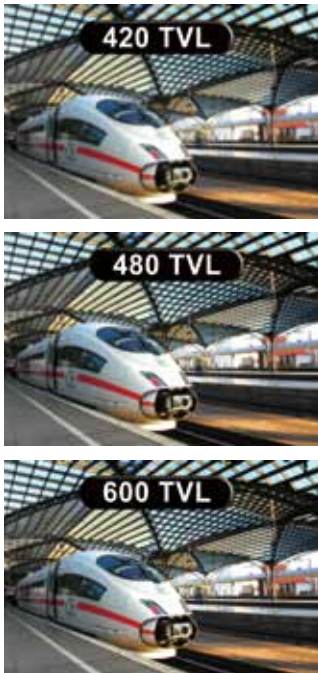
TVL Specialized Chart

Camera

- 1/3" Sony 960H Super HAD II High Resolution CCD Sensor
- Employs Sony Enhanced Effio-E Digital Signal Processor (DSP) chip-set
- Board Lens 3.6mm / F2.0
- 0.01 Lux with built-in IR LED
- Maximum resolution 700 TV lines
- Built-in highly-efficient 48 IR LEDs for low light and long distance up to 15~30 meters.

Video

- Picture Elements NTSC: 976 x 494, PAL: 976 x 582
- Auto White Balance 1800K~10500K
- Auto Gain Control and White Balance
- Auto Electronic Shutter Time (NTSC: 1/60s~1/100,000s, PAL: 1/50s~1/110,000s)
- S/N Ratio more than 60dB
- Image Enhancement with ATR / 2DNR

Hardware

- Video Output: 1 Vp-p Composite Video / 75 Ohms
- IP66 weatherproof certified protection
- Analog operation, easy to install and fast reaction

Sony Effid 700 TVL DSP

Comparison of Different TVL Resolutions

Dedicated Monitoring with Highly Sensitive DSP

The CAM-IR138 adopts Sony Enhanced Effio-E Digital Signal Processor (DSP) chip-set to provide clearer pictures with higher sensitivity compared to conventional CCTV cameras. The "Effio" stands for Enhanced Features and Fine Image Processor and realizes a horizontal resolution of maximum 700 TVL in combination with Sony's newly developed 960H CCD image sensor. With Digital Signal Processor (DSP) chip-set, it can make the camera process speedier and more efficient, and save more electricity.

High Tech, High Quality, High Protection

The CAM-IR138 applies Adaptive Tone Reproduction (ATR) technology to improving the visibility of the entire picture by providing the optimum gradation compensation for the image in one field based on the luminance information. Furthermore, the CAM-IR138 provides high quality images under all lighting conditions. Adopting the 2-DNR (Digital Noise Reduction) technology, the CAM-IR138 automatically reduces noises in low light environment and brings an extremely clear and exquisite picture quality even under any challenging lighting conditions.

Full Surveillance during Day & Night Functionality

For a clear surveillance image both in the day and night, the CAM-IR138 built-in 48 IR LEDs can offer a long IR distance of up to 15~30 meters. The 700TV Lines performance makes the image clear even at night.

The CAM-IR138 is also equipped with ICR 3.6mm / F2.0, and its auto-iris function can automatically adjust the amount of light that passes through the lens. Thus, the CAM-IR138 is able to maintain clear images 24 hours a day.

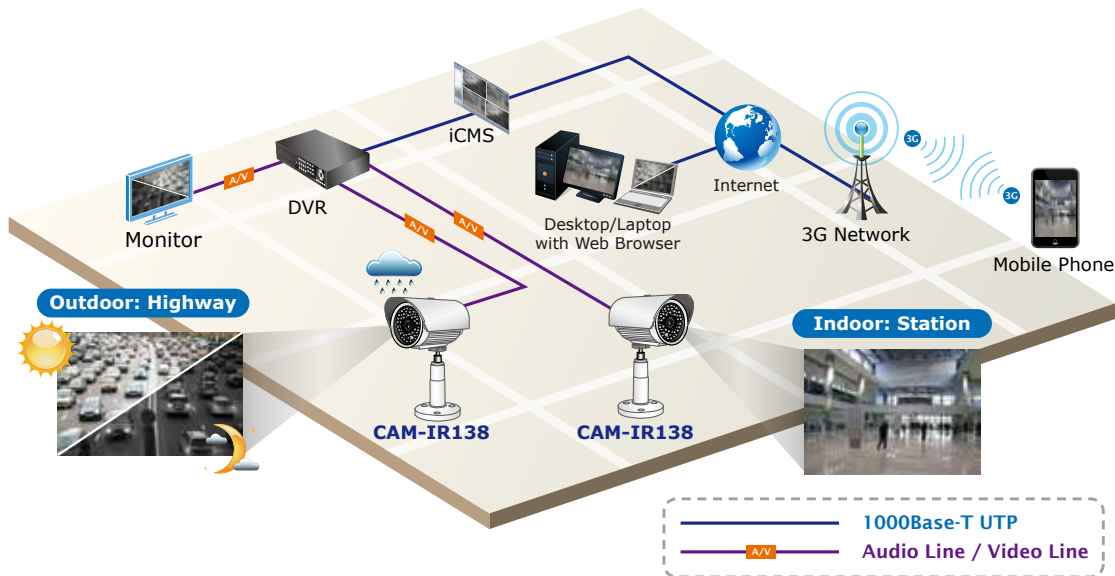## IP66-rated Housing for Indoor and Outdoor

In order to fit different security issues, the CAM-IR138 is the better product of surveillance system to meet the demands from worldwide market. By providing IP66 weatherproof certified protection, 700 TVL high-quality images and long IR distance Infrared LED solutions, the CAM-IR138 definitely is the perfect choice for your indoor and outdoor surveillance system.
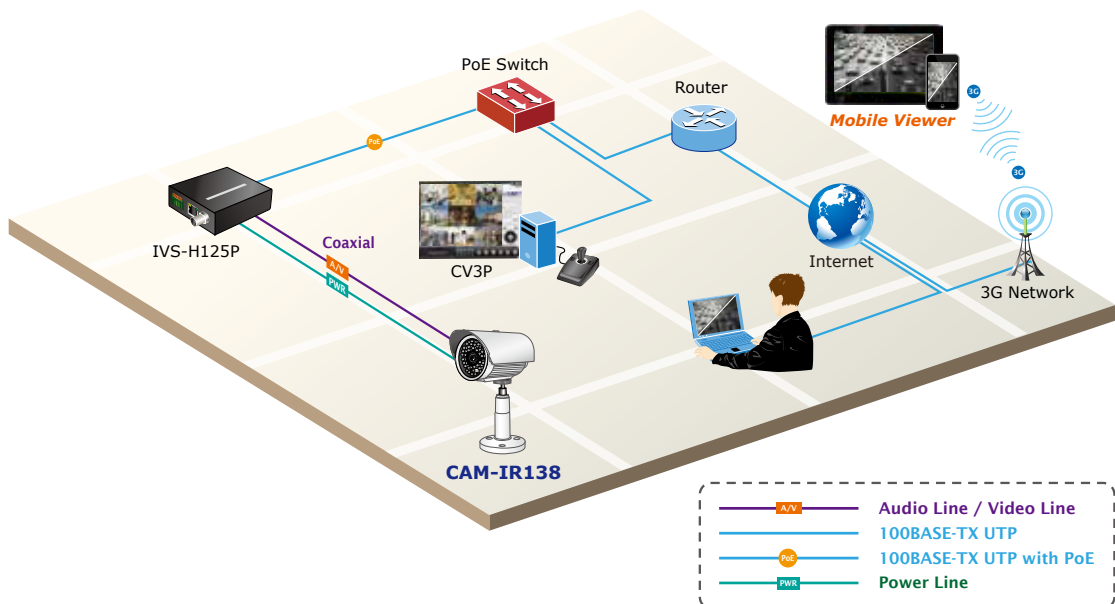
Applications

Taking advantage of the convenient TCP/IP network, the surveillance system administrators can integrate different kinds of cameras such as the CAM-IR138 IR camera with PLANET DVR system to establish 24/7 indoor and outdoor secure surveillance applications, and to ensure a secure environment to protect people's life.

Connection with DVR

The CAM-IR138 can work with PLANET IVS-H125P, the PoE Internet Video Server, enabling you to monitor your house, office or production line in the factory through Internet. The administrators can easily place the IVS-H125P wherever a network connection is available and efficiently turn the analog camera monitoring system into IP-based surveillance.

Turn Analog into IP

Specifications

Model	CAM-IR138
Camera	
Sensor	SONY 1/3" 960H Super HAD II High Resolution CCD
Effective Picture Elements(H x V)	NTSC: 976 x 494 PAL: 976 x 582
Signal Processor	Sony Enhanced Effio-E DSP
Lens Furnished	Board Lens 3.6mm / F2.0
Minimum Illumination	0.01 Lux with built-in IR LED
LED	
IR LED	48 Units of 850nm High Power IR LED
IR Project Distance	15 to 30 meters
Video & Audio	
Horizontal Resolution	700 TV lines
S/N Ratio	More than 60 dB
White Balance	Automatically (1800K ~ 10500K)
Gamma Characteristic	0.45
Gain Control	Automatically
Auto Electronic Shutter	NTSC: 1/60s~1/100,000s PAL: 1/50s~1/110,000s
Adaptive Tone Reproduction	ON
2D Noise Reduction	2DNR ON
Synchronous System	Internal, Negative Sync
Environment	
Operating Temperature	-10 to 50 degrees C (14 to 122 degrees F)
Video Output	1 Vp-p Composite Video / 75 ohms
Power Supply	12V DC, 400mA
Water Resistance	IP66
Dimensions (Φ x L)	69 x 120 mm

Ordering Information

CAM-IR138-NT	15-meter Infrared Camera (NTSC)
CAM-IR138-PA	15-meter Infrared Camera (PAL)

Related Products

IVS-H125	H.264 Internet Video Server
IVS-H125P	H.264 PoE Internet Video Server
IVS-2120	Industrial Internet Video Server
DVR-462	4-channel H.264 Digital Video Recorder
DVR-872	8-channel H.264 Digital Video Recorder
DVR-1672	16-channel H.264 Digital Video Recorder
CAM-IR338-NT	30-meter Infrared Camera (NTSC)
CAM-IR338-PA	30-meter Infrared Camera (PAL)
CAM-IR560V-NT	50-meter Infrared Vari-focal Camera (NTSC)
CAM-IR560V-PA	50-meter Infrared Vari-focal Camera (PAL)
CAM-IVP55-NT	25-meter Infrared Vandalproof Camera (NTSC)
CAM-IVP55-PA	25-meter Infrared Vandalproof Camera (PAL)
CAM-IVP55V-NT	25-meter Infrared Vari-focal Vandalproof Camera (NTSC)
CAM-IVP55V-PA	25-meter Infrared Vari-focal Vandalproof Camera (PAL)