

## Press release



# D-Series

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Multi-Sensor thermal outdoor domes for integration into TCP/IP networks.

*Thermal imaging cameras are becoming more and more popular for security and surveillance applications. Many users require thermal imaging cameras that can seamlessly be integrated in new or existing TCP/IP networks. The new FLIR D-Series outdoor dome Multi-Sensor thermal imaging cameras are an answer to their demands.*

D-Series thermal security cameras let you see intruders and other threats to your facility clearly in total darkness and in bad weather. The D-Series outdoor dome enclosure provides precision pan/tilt control while providing fully programmable scan patterns and slew-to-alarm functionality. Fully enabled for control and operation over IP and serial networks, D-Series systems deploy a 320 x 240 thermal imager along with a day/night 36x zoom color CCD camera.

FLIR's D-Series thermal multi-sensor security dome cameras are the perfect replacement for day/night dome cameras, providing clear 24/7 imaging capability in an attractive, discrete dome-style enclosure.

### **Crisp thermal images**

D-Series thermal imaging cameras incorporate an advanced uncooled Vanadium Oxide microbolometer detector. Producing crisp thermal images of 320 x 240 pixels on which the smallest of details can be seen. Advanced internal camera software delivers a crisp image without the need for user adjustments. It provides high quality thermal imaging in any night- or daytime environmental conditions. There is no need for the expense or complication of added lighting infrastructure.

### **Wide variety of lenses**

Depending on his needs, the user can choose for the following lens options:

- D-348: 9 mm lens - Field of view: 48°(H) x 39°(V)
- D-334: 13 mm lens - Field of view: 34°(H) x 28°(V)
- D-324: 19 mm lens - Field of view: 24°(H) x 19°(V)
- D-313: 35 mm lens - Field of view: 13°(H) x 10°(V)

### **Digital Detail Enhancement**

The D-Series provide high contrast imagery optimized to get the most out of video analytics software. Digital Detail Enhancement ensures clear, properly contrasted thermal images in all weather conditions.

### **Easy to use**

Equipped with an "athermal lens", all D-Series are able to maintain focus no matter what the environmental temperature is. There is no need for user adjustments.

### **Excellent range performance**

Equipped with a 35 mm lens, the D-313 is designed for mid-range security and surveillance applications. The D-313 has a 13° field of view. With the D-313 you will be able to detect a man-sized target at a distance of over 790 meter.

# Press release



## **Precise Pan/Tilt mechanism**

All D-Series thermal imaging cameras are installed on a precision pan/tilt mechanism. It allows the user to rotate the camera 360° continuously and to tilt it +45° to -180°. This drastically increases situational awareness. The Pan/Tilt has 128 preset positions. Ideal if you want to scan an area continuously.

## **Daylight camera**

All versions are equipped with a long range daylight/low light camera. The video output of the thermal imaging and daylight/low light camera are simultaneously available. The daylight camera offers a 36x optical zoom.

## **Multiple installation options**

Various options exist to connect the D-Series and integrate them in your existing CCTV infrastructure providing early detection and visibility 24/7 all year round. They can be configured for stand alone use, as part of a network or in a hybrid configuration with local and network based control:

- *Analog configuration:*  
Simply connect the D-Series over RS-232, RS-422 or RS-485 to a remote control panel. Pelco D and Bosch commands are used for common functions. A video cable can be connected to any existing multi-function display that accepts composite video.
- *TCP/IP configuration:*  
The D-Series can be integrated in any existing TCP/IP network and controlled over a PC. No additional cables are required. Using this configuration, you can monitor all activity over the network, even when you are thousands of kilometers away.

## **Video Streaming**

Multiple channels of streaming digital video available are available in H.264, MPEG-4, or M-JPEG formats. Simultaneous digital and composite video output is possible.

## **FLIR Sensors Manager**

Each D-Series camera comes with a single sensor copy of FLIR Sensors Manager. This intuitive software allows managing and controlling a D-Series camera in a TCP/IP network.

## **Easy-to-install**

The D-Series can be easily connected to common power and video interfaces found in existing and new security systems. It can be easily integrated into any existing CCTV infrastructure providing early detection and visibility 24/7 all the year round. The video can be displayed on virtually any existing display that accepts composite video.

## **Designed for use in harsh environments**

The D-Series are extremely rugged systems. Their vital core is well protected, meeting IP66 requirements, against dust and water. The D-Series operate between -32°C and +55°C. They have a built-in heater which ensures a clear lens and perfect infrared images displayed on your monitor even in extremely cold environments.

## Press release



### **About thermal imaging**

Thermal imaging is the use of cameras constructed with specialty sensors that “see” thermal energy emitted from an object. Thermal, or infrared energy, is light that is not visible to the human eye because its wavelength is too long to be detected. It’s the part of the electromagnetic spectrum that we perceive as heat. Infrared allows us to see what our eyes can not.

Thermal imaging cameras produce images of invisible infrared or “heat” radiation. Based on temperature differences between objects, thermal imaging produces a clear image. In contrast with other technologies, such as light amplification, thermal imaging needs no light whatsoever to produce an image on which the smallest of details can be seen. Thermal imaging provides full visibility irrespective of the prevailing light level and weather conditions.

It can see in total darkness, in the darkest of nights, through fog, in the far distance, through smoke and is able to detect anyone hiding in the shadows. It is used for security and surveillance, maritime, automotive, firefighting and many other applications.

### **About FLIR Systems**

FLIR Systems is the world leader in the design and manufacturing of thermal imaging cameras for a wide variety of applications. It has over 50 years of experience and thousands of thermal imaging cameras currently in use worldwide for security and surveillance, maritime, automotive and other night-vision applications. FLIR Systems has six manufacturing plants located in the USA (Portland, Boston, Santa Barbara and Bozeman), Stockholm, Sweden and near Paris, France. It operates offices in the Belgium, Brazil, China, France, Dubai, Germany, Italy, Japan, the Netherlands, Spain, UK and the USA. The company has over 1,900 dedicated infrared specialists, and serves international markets through an international distributor network providing local sales and support functions.

If you would like more information about the D-Series or about FLIR Systems and its wide range of thermal imaging cameras for a wide range of applications, please contact:

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