



by **Schneider** Electric

Thermal Imaging Solutions

Esprit Ti and TI2500



For all the power users who have been searching for a revolutionary advance in video system capabilities and performance, Pelco Thermal Imaging Solutions bring light to a whole new world of possibilities. With the Esprit Ti, which integrates an advanced thermal imaging camera into the Esprit Positioning System, and the TI2500 Series fixed solution, Pelco offers a suite of thermal imaging camera systems to meet the demands of your next installation.

Esprit Ti Thermal Positioning systems installed at the Port of Valencia, Spain



Hot Performance. Cool Technology.



Providing vivid, high-contrast thermal video of targets, even when hidden by obscurants such as fog, smoke, steam, or lack of ambient light, Esprit Ti and the TI2500 Series are ideal for an array of installations that require the ability to secure an area regardless of lighting conditions.

A New World of Application Possibilities

As the demands of video security applications grow, so do the technologies necessary to deliver the performance high-end users expect. In addition to seeing what other cameras simply cannot, imagine looking at any structure – bridges, dams, pipelines, power plants – and being able to detect even the slightest shift in temperature. Complementing classic video security applications, Pelco Thermal Imaging Solutions are a powerful operations management tool, delivering information that would otherwise be very difficult to ascertain.

Focusing on an object's emissivity – the rate at which it emits IR energy – both the Esprit Ti and the TI2500 Series can help identify leaks, ruptures, hot spots or any sensitive location where changes in temperature output can mean serious trouble. This makes thermal imaging ideal for in-plant surveillance, perimeter monitoring, high-value asset protection and any application where subtle differences in appearance – black ice, for example – cannot be detected through traditional camera systems.

Esprit Ti Thermal Imaging Positioning System

Esprit Ti combines the power of an advanced thermal imaging device with the precision of an Esprit Positioning System to create a completely integrated, single addressable thermal imaging PTZ system. At its core is an uncooled, vanadium oxide microbolometer, long wave infrared (LWIR) camera. It delivers 320 x 240 thermal video with a pixel size of 38 μm , sensitivity below 40 mK and supports 2X digital zoom. Esprit Ti is available with a choice of three lens sizes to meet the unique demands of your particular installation. Available in both NTSC and PAL formats, Esprit Ti offers lens sizes of 14.25 mm, 35 mm and 50 mm.

From the System You Can Rely On

Because Esprit Ti is an Esprit, you get advanced thermal imaging technology with the power and performance of the industry's most sought-after and reliable positioning system. Operational in 90 mile-per-hour winds, Esprit Ti can accelerate and decelerate more smoothly, more responsively and more accurately than any other system available. And thanks to an ultra-slow, ultra-smooth "creep mode" speed of 0.1° per second, Esprit Ti is perfect for tracking almost any object at any speed at almost any distance.



For Details that Other Cameras Miss



Help Identify Trouble Spots



Integrated Thermal Imaging Optics Package



The Performance of Esprit



Complete Environmental Protection

Esprit Ti comes standard with industry-leading features such as heater, window defroster, sun shroud and thermal insulation blanket, enabling your unit to operate in temperature conditions ranging from as low as -50°F to 122°F. And in the event of a power failure during an ice storm, the entire unit can de-ice itself and become operational in just two hours after regaining power at a temperature as low as 13°F.

Digital Position and On-Screen Feedback

On-screen position feedback displays the camera's directional orientation and zoom position. Esprit can also accept RS-422 data commands to send it to exact azimuth, elevation and zoom settings, and can report its current position as well.

The Pelco Remote Data Port

A first-of-its-kind interface, the Remote Data Port can be installed anywhere along the video data lines. Such "bottom-of-the-pole" access provides an unprecedented level of control to verify camera settings and video output without ever needing a lane closure or lift truck.

TXB Series Translator Boards

The TXB Translator Interface enables Esprit Ti to be used with a variety of competitive control systems. Protected by the pan/tilt enclosure, translator boards provide seamless operation without the need for additional hardware.

Multiple Display Types and Hot Keys

For easily viewing and interpreting video images, both the Esprit Ti and TI2500 Series offer 12 display formats, including white hot, black hot, and ten unique color signatures.

And with Esprit Ti, users can simply access the Preset 95 program to select which of the display formats works best for their particular installation. For added flexibility and performance, pre-programmed "hot keys" enable the user to quickly toggle between selected display types. Moving from white hot to black hot to any of the available color signatures can now be performed instantly without sacrificing performance. Moreover, Esprit Ti also includes a hot key to temporarily disable the embedded flat-field correction algorithm, making the unit a true security system.



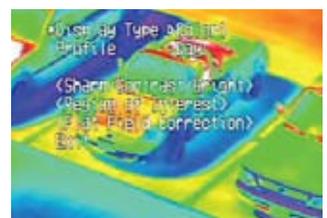
Accurate Camera Orientation



For Use with Competitive Control Systems



Program "Hot Keys" for Performance

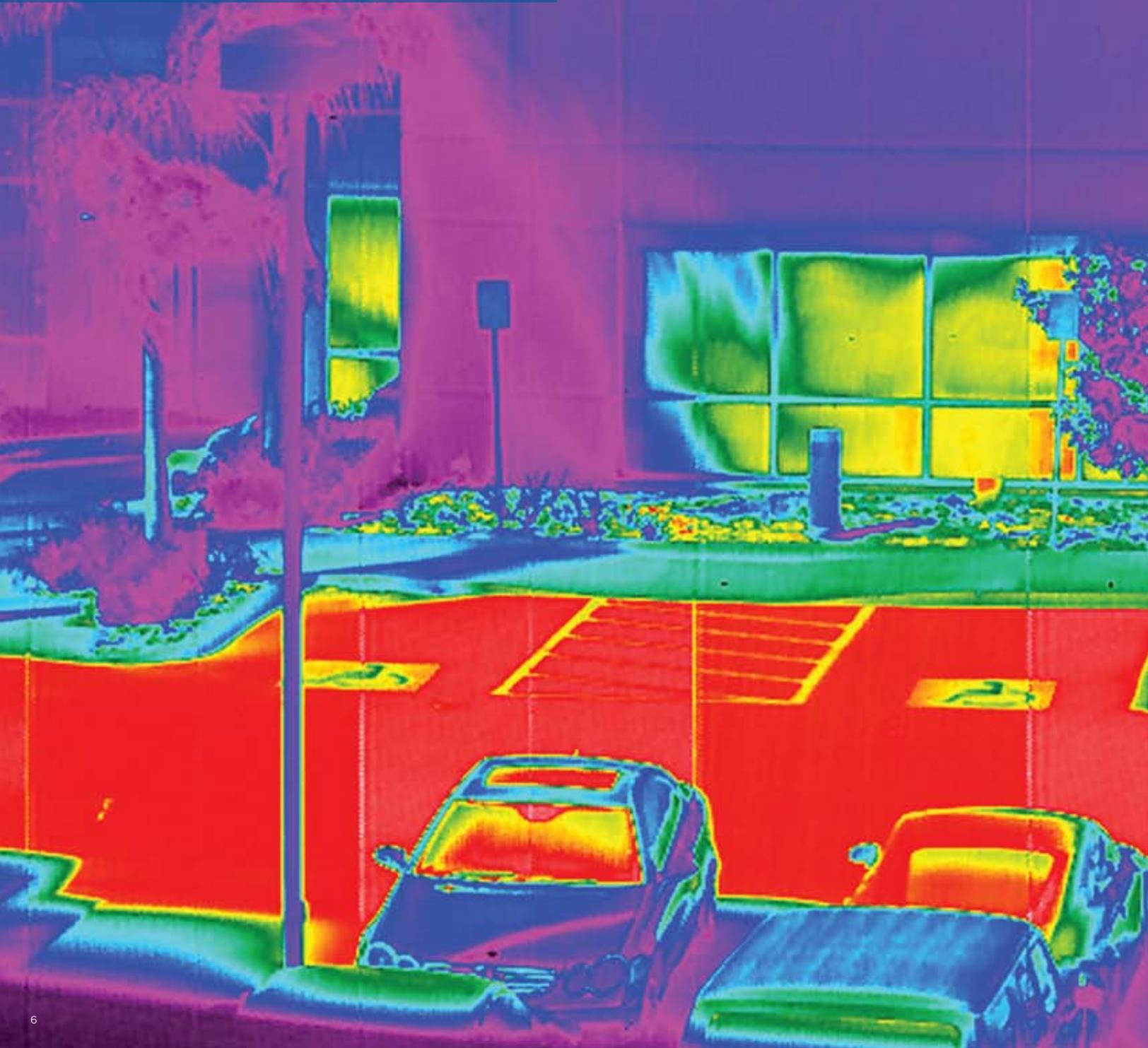


Easily Configure Esprit Ti Using Preset 95

The Esprit Positioning System is the premier pan-and-tilt positioning system. And now with Esprit Ti, a powerful thermal imaging capability is added to the family.



By eliminating the need for good lighting to detect threats and/or activity, users save money and prevent “highlighting” the very assets that need protection.



More than Meets the Eye



Once solely the domain of military applications, thermal imaging technology is ideal for commercial, industrial and law enforcement applications, allowing security personnel to detect threats without the need for natural or artificial illumination, in all types of weather and lighting conditions.

TI2500 Series Fixed Camera System

Offering a completely integrated imaging device in a Pelco outdoor enclosure, the TI2500 Series incorporates the same camera technology as found in Esprit Ti but in a fixed format. Such an alternative is an effective solution for those areas that demand constant monitoring. And because it produces high-quality thermal video with enough data for the use of both Pelco and third-party analytics, the TI2500 Series delivers the 24/7 surveillance and protection that the most critical applications demand. The TI2500 Series is available in both NTSC and PAL formats. Choose from lens sizes of 35 mm, 50 mm and 100 mm.

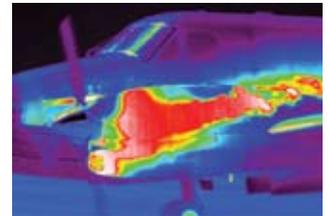


TI2500 Series Fixed Camera System

For a Variety of Applications

Choose Esprit Ti and TI2500 Series Fixed Camera System for a diverse range of applications including:

- Power Plants
- Reservoirs
- Dams
- Bridges
- Petrochemical Facilities
- Refineries
- Prisons
- Border Security
- Port Security
- Coast Guard Applications
- Perimeter Security
- Process Control



For Any Application

Pixels on Target (POT)

The following performance values are based on a man-sized target from a unit mounted at 25 ft (8 m) under normal atmospheric conditions:

Lens	Horizontal Field of View	Identification (12 POT)	Detection (2 POT)
14.25 mm ¹	50°	305 ft (93 m)	807 ft (246 m)
35 mm	20°	767 ft (234 m)	1,902 ft (580 m)
50 mm	14°	1,115 ft (340 m)	2,736 ft (834 m)
100 mm ²	7°	2,230 ft (680 m)	5,472 ft (1,668 m)

¹14.25 mm lens available in Esprit Ti only ²100 mm lens available in TI2500 only



by **Schneider** Electric

The recognized worldwide leader in video and security systems, Pelco boasts the most comprehensive array of products, services and expertise available in today's marketplace. And now as a member of the Schneider Electric family, Pelco brings a network of assets backed by the strength of a Fortune 500 company to help you define and achieve your business objectives.

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