

ES30TI Series Positioning System

ESPRIT® SYSTEM WITH THERMAL IMAGING OPTICS

Product Features

- Receiver, Pan/Tilt, and Enclosure with an Integrated Thermal Imaging Camera
- Sensitivity Below 40 mK at f/1.0
- Long Wave, Uncooled, Vanadium Oxide Microbolometer
- 320 x 240 Resolution; 38 µm Pixel Size
- User Definable/Programmable Camera Settings
- On-Screen Compass, Tilt, and Zoom Display
- 2X Digital Zoom
- Integral Multiprotocol (Coaxitron®, RS-422 Pelco D and Pelco P) Receiver/Driver
- Variable Speed Pan: 0.1° to 100°/Second with Proportional Pan
- 360° Continuous Pan Rotation
- Zone Blanking; Allows up to 8 Zones (Programmable in Size) to Be Set to Output Blank Video
- Operational in 90 mph Wind Conditions; Can Withstand Wind Velocity up to 130 mph
- Pan Preset Speed of 100° Per Second in 50 mph Winds and 50° Per Second in 90 mph Winds
- Tilt Range of +33° to -83° from Horizontal
- Preset Positioning, Patterns, Multiple Scan Modes
- Designed for Minimal Maintenance, No Gears to Adjust

The **ES30TI Series** combines the power of an advanced thermal imaging device with the precision of an Esprit® pan/tilt to create a completely integrated, single addressable thermal imaging positioning system. At the core of the **ES30TI** 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 and supports 2X digital zoom.

The **ES30TI Series** provides outstanding sensitivity below 40 mK. It is capable of multiple display formats, including white hot, black hot, and color signatures. The **ES30TI** is available with three different lens configurations (14.25 mm, 35 mm, and 50 mm focal lengths) for effective deployment in a wide range of applications.

A powder-coated, aluminum construction makes the **ES30TI Series** ideal for either indoor or outdoor applications. The system has an absolute operating temperature range of -50° to 140°F (-45° to 60°C). Within two hours after power-up, the entire unit can de-ice and be operational from a temperature of -13°F (-25°C).



**ES30TI ESPRIT THERMAL IMAGING SYSTEM
(SHOWN WITH PEDESTAL MOUNT)**

A built-in heater, window defroster/defogger, sun shroud, and insulation blanket are standard features on the **ES30TI Series**. All units also include an open collector auxiliary output that functions for two seconds before deactivating.

The **ES30TI Series** variable pan and tilt speeds range from 0.1 to 40 degrees per second in manual pan mode and 0.1 to 20 degrees per second in manual tilt. Pan preset and turbo speeds are 100 degrees per second in wind speeds of 50 mph and 50 degrees per second in the 90-mph wind-speed profile. Tilt preset speed is 30 degrees per second. The **ES30TI** is capable of 360 degrees of continuous pan rotation. The tilt range allows for horizontal viewing of +33 to -83 degrees. There are 64 programmable preset positions with a preset accuracy of one-quarter degree.

ES30TI Series systems are available with an input voltage of 24 VAC or with a selectable power source of 120/230 VAC. The **ES30TI** also has a power-up recovery mode that lets users specify the operation to perform whenever the power is cycled.

