

Thermal Imaging Cameras

s_XE SERIES

s_XE thermal imaging camera series: generalities

The s_XE series handheld digital thermal imaging cameras allow for simple and fast measurements of the temperature emitted by objects and surfaces, proposing themselves as a valid measurement and thermal mapping tool applicable to countless application situations, ranging from research and development, to inspections, to research of losses and failures, in numerous market segments such as the production and transport of energy, in the automotive sector, in the petrochemical sector, in the steel industry, in the medical sector and in general in the industrial sector.

s_XE series thermal imaging cameras are autonomous from power sources (provided of an internal rechargeable battery, with an autonomy of approximately 2 to 3 hours), are equipped with a compact and robust casing made of plastic, and are provided with both a thermal sensor infrared, as well as a camera for visible light, thanks to which it is possible to offer both a clear indication of the values detected on a large LCD display, allowing for any overlapping with the analogous image detected with visible light ("fusion" selectable between 0, 25, 50, 75 and 100%).

The s_XE series thermal imaging cameras offers good measurement accuracy (the worst of $\pm 2^\circ\text{C}$ ($\pm 3.6^\circ\text{C}$), or $\pm 2\%$ of reading), and allows the user to select the engineering unit of measurement ($^\circ\text{C}$ or $^\circ\text{F}$). The images obtained from the thermal imaging camera can be stored internally (3 GB), and subsequently can be downloaded to a PC.



s_XE series thermal imaging camera

s_XE miniature compression thermal imaging camera series main characteristics:

- infrared resolution: depending on model, 160 x 120 up to 320 x 240;
- good measurement accuracy; simple and intuitive use;
- image displayable with false colors, according to five different palettes;
- numerous programmable features available;
- languages that can be set by the user between English, Italian, German and Chinese;
- different selectable units of measurement: $^\circ\text{C}$ and $^\circ\text{F}$;
- availability of type C port;
- possibility of fixed use with tripod;
- compact, portable thermal camera, autonomous from power sources;
- cursors on screen (3.5" TFT LCD), of maximum, minimum & central temperatures;
- rugged and light plastic enclosures.



quoted dimensions are in mm

s_XE miniature compression thermal imaging camera series specifications:

	model	XE-31	XE-32	XE-33
- detectable temperature range:		-20 to 450°C (-4 to 842 °F)	-20 to 300°C (-4 to 572 °F)	
- accuracy:		±2% or reading ±2°C /3.6°F		
- infrared image resolution		160 x 120	220 x 160	320 x 240
- display screen:		3.5" TFT LCD color display, 320 x 240 as resolution		
- field angle:		35° x 26°		
- focus:		fixed, shortest focus lenght as 0.15 m		
- thermal sensitivity:		0.07°C		
- emissivity:		adjustable from 0.01 to 1.00		
- frame rate of thermal images:		9 Hz		
- wavelength coverage:		8 μm to 14 μm		
- color palette:		rainbow, iron oxide red, cold color, black & white, white & black		
- storage capacity and file format		built in 3 GB; JPG		
- USB port:		type-C		
- rechargeable battery:		18650 Li-ion type (Ø 18.5 × 69 mm), autonomy from 2 to 3 hours of operation		
- automatic power off:		selectable: 5 minutes/20 minutes/ not power off automatically		
- languages		English, Italian, German, Chinese		
- approximate dimensions & weight:		221 x 96 x 88 mm; 374 g.		
- temperature range:		operating as 0 to 45°C (32 to 113°F); storage as -20 to 60°C (-4 to 140°F)		
- relative humidity:		up to 85% RH, not condensing		