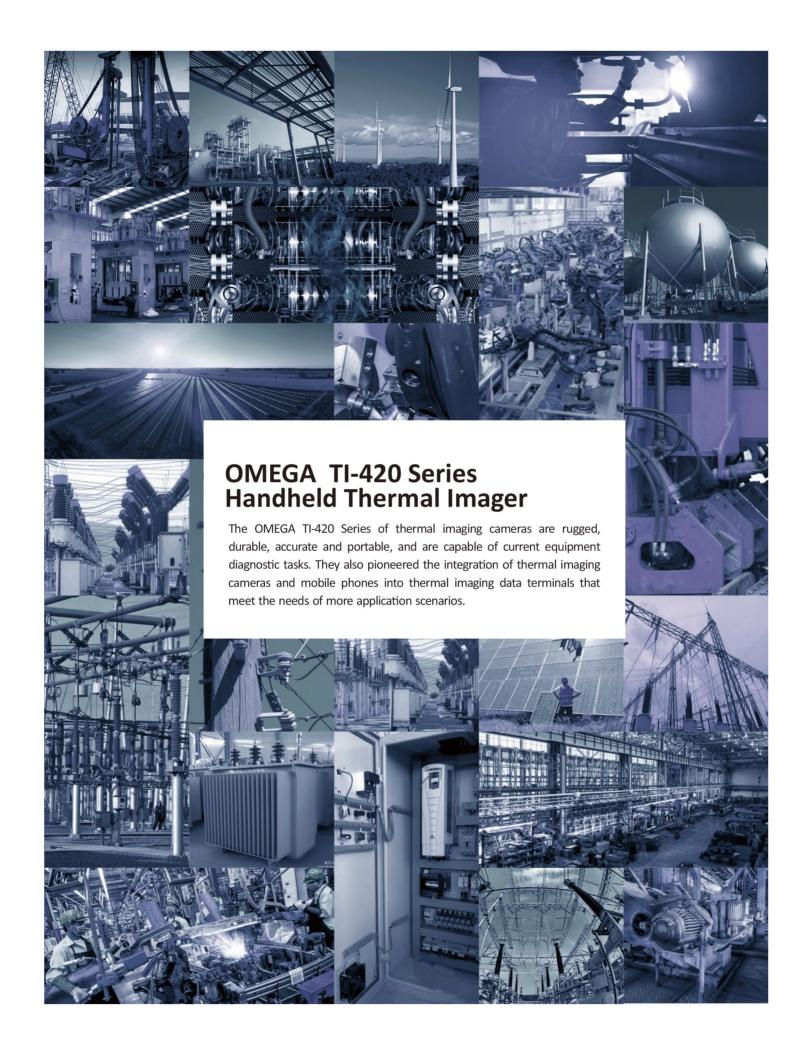




OMEGA TI-420Series Handheld Thermal Imager



## Rugged I Durable I Accurate I Portable

# **CE OMEGA** TI-420 Handheld Thermal Imager









The main use of the thermal imager is to diagnose the potential defect when the device is running online. OMEGA TI-420 series professional thermal imaging cameras are suitable for equipment inspection under severe conditions.





-20~650°C Wide Temperature Range



Auto High/Low Temperature Spots



5 spots 5 boxes Temperature Measurement



On-site Emissivity Set on Smartphone



Record Radiometric Video on Smartphone



User-Defined Temperature Alert



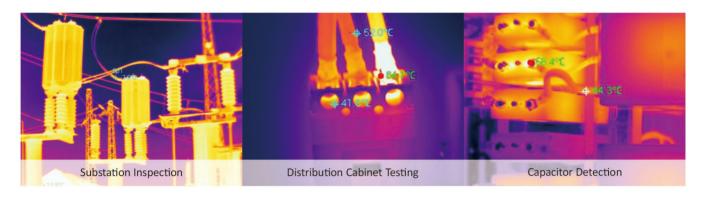
Text and Voice Annotation

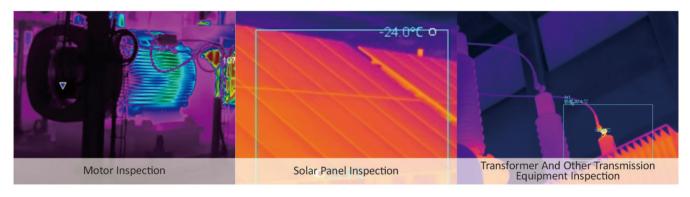


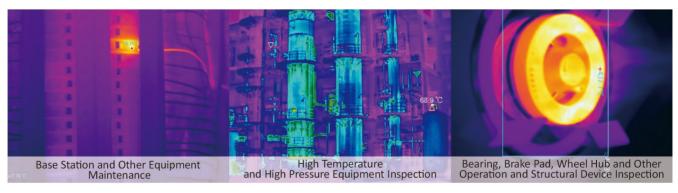
Cost-Effective Optional Lenses

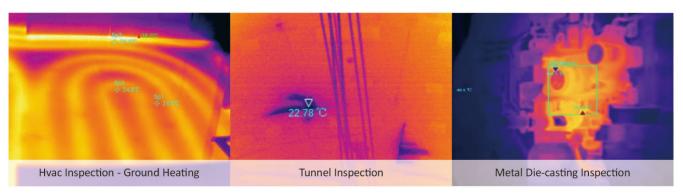


## **Typical Applications**











# **Specifications**

	OMEGA TI-426	
Thermal Imaging		
IR Resolution	384×288	
Field of View (FOV)	28°×21°	
Thermal Sensitivity (NETD)	<0.06°C@30°C	
Spatial Resolution (IFOV)	1.27mrad	
Digital Zoom	1~8x	
Detector Type	Focal Plane Array (FPA) uncooled microbolometer	
Spectral Range	8~14μm	
Minimum Focus Distance	0.15m	
Focus	Manual	
Measurement and Analysis		
Temperature Range	-20°C~650°C (-4°F~1,202°F)	
Measurement Accuracy	$\pm$ 2°C or $\pm$ 2% whichever is greater @ Environment Temperature 10°C ~35°C	
Automatic Capture of High and Low Temperature	Support	
ROI Measurement Modes	5 moveable area boxes (min/max) 8 moveable spots 1 moveable line (min/max)	
Correction Settings	Emissivity, reflected background temperature, relative humidity, ambient temperature, measuring distance, transmission	
Emissivity Adjustment	0.01~1.0, or pick up from the built-in material list	
Image Display		
Built-in Display Screen	3.5 inch	
Display Mode	Thermal image, visible light image, picture-in-picture fusion	
Color palette	5 color palette options	
Image Consistency Optimization	Automatic noise calibration FFC / Manual noise calibration FFC	
Professional Features		
Color Alarm (Isotherm)	Above / Below threshold	
Temperature Measurement Alarm	User-defined temperature threshold, audible and visual alarm of above/below temperature threshold	
Voice Annotation	60s voice annotation. Save with image.	
Text Annotation	Support text annotation. Save with image.	
Handheld Thermal Camera with Smartphone		
Take radiometric image on Smartphone	Support	
Take fully radiometric Video on Smartphone	Support	



	OMEGA TI-426	
Battery		
Battery Type	Rechargeable Lithium-ion	
Single Battery Use Time	2.5 hours	
Auto Shut-off	Support	
Storage and Transfer		
Image Save Mode	Single thermal image, Mixed image of thermal and visible light	
SD Card	Standard 16G	
Data Output	Micro-USB	
Video Output	Support, PAL/NTSC composite video	
Audio	Support, 3.5mm audio interface	
Power Supply and Environment		
Power Interface	DC 12V	
Operation Temperature	-20°C~50°C (-4°F~122°F)	
Storage Temperature	-40°C~70°C (-40°F~158°F)	
Relative Humidity	<90% RH	
Physical Parameters		
Enclosure Rating	IP54	
Weight	1,006g	
Size	310mm×130mm×110mm	
Warranty	2 Years	
Standard Configuration	Thermal imaging camera with standard lens, lens cover, power adapter, battery (2x), SD card, Micro-USB OTG cable (left/right), Micro-USB to USB cable, wrist band, getting started manual (with warranty card and certificate), calibration certificate, rigid portable case	

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Since its inception in 1962, OMEGA has grown from manufacturing a single product line of thermocouples to an established global leader in the technical marketplace, offering more than 100,000 state-of-the-art products for measurement and control of temperature, humidity, pressure, strain, force, flow, level, pH and conductivity. OMEGA also provides customers with a complete line of data acquisition, electric heating and custom engineered products.

For over four decades our handbooks and e-commerce site have served as valuable reference tools for engineers around the world. And though we are an established direct-marketing pioneer, our people, facilities and superior client services go well beyond the handbooks and high-value articles.

It is our commitment to quality instrumentation and exceptional customer service that has remained the cornerstone of our success. OMEGA's priority is clear. Our facilities exist to "facilitate" solutions to your needs.

Omega Engineering is part of Spectris plc, a leading supplier of productivity-enhancing instrumentation and controls. Headquartered in Egham, Surrey, United Kingdom, Spectris is listed on the London Stock Exchange (LSE: SXS) and had sales of £1,526 million in 2017. The company employs around 10,000 people located in more than 30 countries.

The Company's products, technologies and services help customers to improve product quality and performance, improve core manufacturing processes, reduce downtime and wastage and reduce time to market. Its global customer base spans a diverse range of end-user markets.

Spectris operates across four business segments which reflect the applications and industries it serves: Materials Analysis, Test and Measurement, In-line Instrumentation and Industrial Controls.

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