





Hand-Held More Convenient I Longer Time Online More Professional Analysis I Faster Sharing

CE OMEGA™ TI-120



R&D user's measurement scene is complex and varied, including not only temporary detection tasks, but also lots of continuous sampling tests (such as trend analysis, reliability test, destructive testing, etc.), and continuous sampling tests may reveal more valuable data.

R&D users often face a dilemma when choosing a thermal camera: They may select a handheld thermal camera but cannot perform continuous sampling tests or they may select an online thermal camera, but lack flexibility.

The OMEGA TI-120 Series thermal camera makes the selection no longer difficult. It's not just a handheld thermal camera, but also an online thermal camera. It is more competent in long-term data sampling tests.



○ OMEGA TI-120



Hand-Held Is More Convenient

Smartphone Full Touchscreen Operation

Easy-to-learn smartphone touchscreen APP user interface, ultra-simple operation, and ready to use.

Fully-Radiometric Short Thermal VideoStream To Capture More Details

A smartphone connected with a OMEGA thermal camera can record directly up to 1,000 frames of fully radiometric video and capture temperature change processes in real-time with a user-defined sampling rate (up to 5 frames per second). It can automatically collect data without a PC.

Analyze The Thermal Image And Video Conveniently On The Smartphone

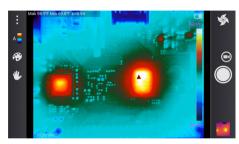
The OMEGA TI-120 series supports the instant analysis of the thermal image and thermal video on the smartphone, which is convenient after the thermal image or thermal video is recorded.

Flexible Sub-regional Emissivity Setting And Professional Temperature Measurement Parameter Correction

The different emissivity of each sub-region can be set to achieve an accurate temperature measurement of different material. At the same time, transmissivity, test distance, etc. can be set to ensure the accuracy of the temperature.

Long Battery Life And No Worry Of Frequent Charging

The low-power design gives OMEGA thermal camera more than 10 hours of battery life, to ensure a full day without interruption, allowing users to focus on work.



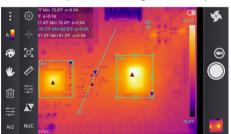
Full Touchscreen APP User Interface



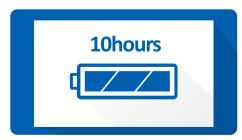
Customize Sampling Rate



Instant Analysis Of Thermal Image On The Smartphone



ROI Emissivity And Parameter Setting On The Smartphone



10 Hours Battery Life Of The Thermal Camera



Associate Thermal Image With Detected Object Automatically For Easy And Efficient Data Management

OMEGA thermal camera can scan the equipment QR code and automatically tag thermal images, thus avoiding cumbersome, inefficient and erroneous manual entry.

Instantly Share Thermal Images/Videos Through Favorite Channels

Rapidly share field data with colleagues and solve field problems with remote diagnosis through your favorite channels such as Message, Facebook, LinkedIn, Twitter, etc.



Longer-Time Online

High-Quality Product With Longer Time Online

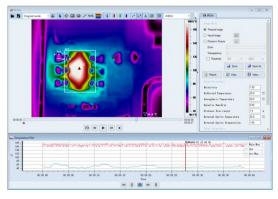
OMEGA TI-120 Series thermal cameras use expensive, high-end, and long-term work electronic components to ensure long-time normal operation and maintain long service life. With the bypass power supply design, OMEGA thermal camera can work long-term without interruption under the external power mode.

Fully Radiometric Thermal Video Stream

OMEGA TI-120 Series thermal camera works with professional PC software, TI Analyzer, to record fully radiometric thermal video. Each frame of the video stream preserves the original temperature of each pixel.



High-end Electronic Component + Professional R&d Test Platform
For Longer-time Online



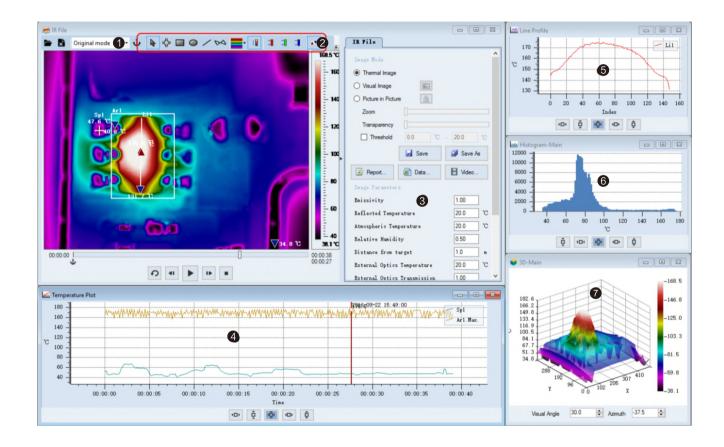
Any Temperature Spot Or Region Can Be Added And A Temperature Vs.

Time Curve Can Be Plotted



TI Analyzer – Professional Analyses Software

OMEGA TI Analyzer software is developed to meet the needs of R&D users, from the image, temperature and time of the threedimensional perspective to analyze the test data. One thermal picture will have more details and process of changes than the conventional equipment maintenance class thermal imager to obtain more in-depth research, more reliable data, and more valuable paper.



Note:

- 1. Original / temperature difference mode
- 2. Spot, line, box, palette, isotherm and other tools
- 3. Pre- and post- sampling temperature correction; support sub-regional emissivity setting
- 4. ROI temperature vs. time curve; ROI+ROI temperature vs. time curve; Overlay comparison of different thermal video curve
- 5. Plot of temperature along the line
- 6. Histogram
- 7. 3-D thermal image



1TB Oversized File, Recording Thermal Data Without Interruption

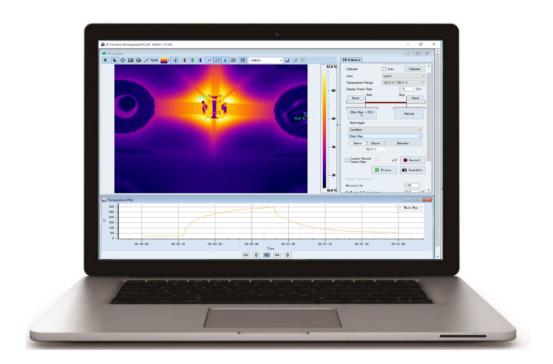
Thermal data collected under the long-term online mode is very large. OMEGA TI-120 Series companion software, TI Analyzer, supports up to 1TB single fully radiometric thermal video recording, which helps R&D users to record the complete data for the entire experimental process.

OMEGA Model	OMEGA TI-125	OMEGA TI-126	OMEGA TI-128
1TB single file recording time (Calculate at 1HZ frame rate)	~84 days	~57 days	~20 days

Automatically Collect Data And Free Up Human Resources

Three kinds of automatic data acquisition modes:

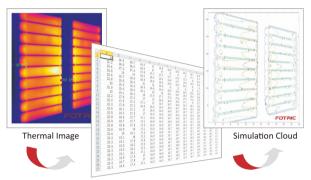
① Time trigger ② Temperature trigger ③ External I/O trigger





Raw Temperature Data Matrix

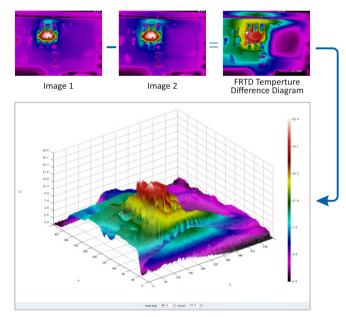
Users can pick up any frame of thermal image, save as a fully radiometric thermal image, and export to the .CSV file containing the original temperature of all pixels. These raw temperature data will help you optimize the algorithm, or use other software to generate a simulation contour map.



Original Temperature Matrix

Raw Temperature Data Matrix Analysis To Reveal Tiny Differences Clearly

Obtain the temperature difference of any two thermal pictures intuitively for faster and more accurate analysis, and generate a more understandable report.



3D Graph

Picture-In-Picture And Picture Fusion Function

Support picture-in-picture (PIP) and picture fusion function; inspect the temperature of a specific area.



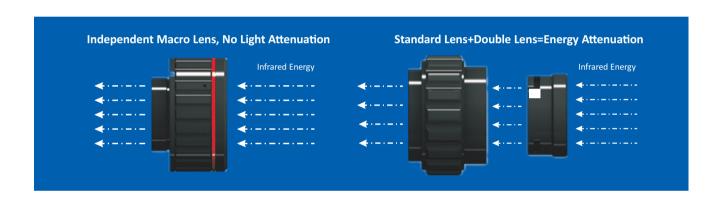
Support Picture-In-Picture And Picture Fusion Function



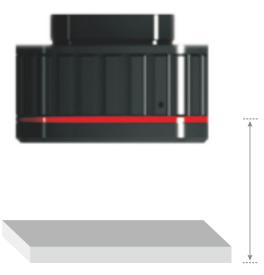
R&D Macro Lens = Independent Lens + Independent Calibration

OMEGA TI-120 Series Thermal Camera Is Capable of 50µm Micro Temperature Distribution Measurement.

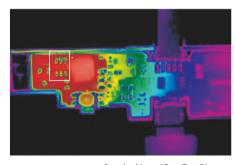
- Independent Macro Lens: No energy attenuation to ensure thermal image quality; while standard lens plus magnification lens increase optical attenuation, reducing the image quality.
- Independent Lens Calibration: OMEGA's original macro lens is temperature-calibrated in a one-on-one manner with the host thermal camera; temperature accuracy is guaranteed. The size of the chip in the white box is about 3mmx1.5mm.



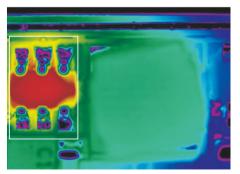
Macro Lens Illustration



50μm Macro Lens Test Distance 43-55mm



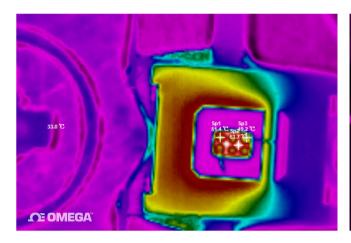
Standard Lens 15cm Test Distance (in White Area, The Chip Size 3mmx1.5mm)



50μm Macro Lens



Typical Applications

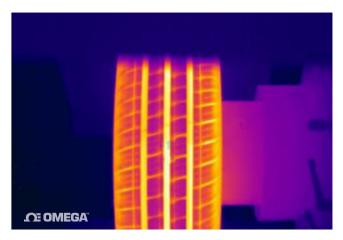


Electronics Industry

Unpacked Chip Internal Temperature Distribution Inspection

Test Difficulty: Single thermal image is not enough for most electronic thermal distribution analysis. It needs to capture the temperature change process and the entire experiment temperature changes, especially for devices as small as a chip.

Solution: For the test of small targets OMEGA TI-128 thermal camera with $50\mu m$ macro lens can be used. Through the OMEGA TI-120 Series software online model and TI Analyzer online analysis function, user can continuously detect the temperature changes and the recordings can also be analyzed later.

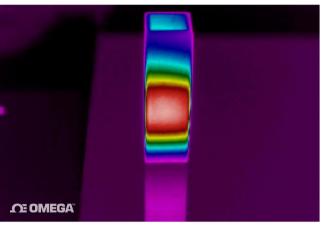


Automobile industry

Fatigue Life Test Of Tire

Test Difficulty: Tire durability test requires a long time monitoring, generally up to 7-10 days, and needs to record the entire process. Impact test requires a higher sampling frame rate.

Solution: OMEGA TI-120 Series thermal camera has bypass power supply design. It can use external power supply and won't lead to battery heating. The online analysis feature can be connected to PC software to record and analyze the data. User can customize the frame rate for impact test such as 30Hz high frame rate recording, and lower the frame rate in the durability test to reduce the amount of data. OMEGA TI-120 Series thermal imager supports 1TB single thermal video stream recording, suitable for the recording of long-term online test.

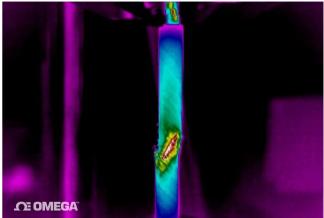


Biomedicine

Targeting Nanomaterials

Test Difficulty: Record the entire experimental process and compare the temperature changes of different test samples.

Solution: OMEGA TI-126 thermal camera with B3s universal test bench can be used to observe the temperature changes horizontally in material testing and laterally in vivo experiment. Online analysis function can record the entire experimental process in real-time, and use the superposition of the time-temperature curves for direct comparison of temperature changes between different test samples.



Test Of Material Characteristic

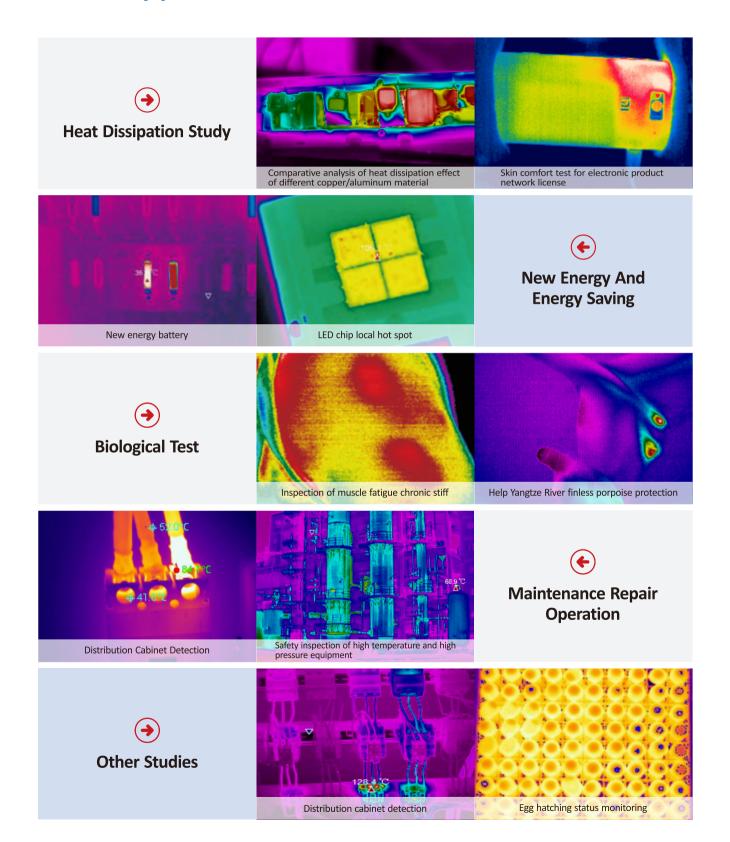
Carbon Fiber Fatigue Test

Test Difficulty: Capture the moment of fracture and record the temperature changes for post-test analysis.

Solution: Rupture moment is a sudden occurrence behavior which can be captured through the long-term online detection. OMEGA TI-128 thermal imager with B3s universal test bench can free up the labor and achieve the online monitoring. Through the on-line analysis feature and recording function of TI Analyzer to record the entire temperature process, the trend analysis of temperature vs. time can intuitively show the temperature changes. And the temperature difference model is easy to analyze the temperature rise.



Other Applications





Specifications

	OMEGA TI-128	OMEGA TI-126	OMEGA TI-125		
Infrared Imaging					
IR Resolution	640 × 480 pixels (307,200 pixels) or 1280 x 960 w/ Super-Resolution	384 × 288 pixels	320 × 240 pixels		
Field of View (FOV)	28.7°H × 21.6°V	28°H × 21°V	24°H × 18°V		
Temperature Range	-20°C ~+650°C (-4°F~+1202°F)				
Minimum Focus Length	0.1m (Star	ndard Lens)	0.15m (Standard Lens)		
Spatial Resolution (IFOV)	0.78mRad, D:S 1	0.78mRad, D:S 1282:1 (Std. Lens)			
Thermal Sensitivity (NETD)	≤0.05°	C@30°C	≤0.06°C @30°C		
Measurement Accuracy	$\pm2^\circ\!$				
Focus	Manual				
Spectral Range	8~14μm				
Detector Type	Focal Plane Array (FPA) uncooled microbolometer				
Zoom	10X continuous digital zoom		8X continuous digital zoom		
Image Processing					
Palettes	15 palette options (Gray White, Gray Red, Iron Red, Rainbow, etc.)				
Palette Switching	Tap palette icon				
Noise Calibration	Automatic noise calibration FFC / Manual noise calibration FFC				
Measurement And Analysis					
Correction Settings	Emissivity, reflected background temperature, relative humidity, ambient temperature, measuring distance, transmission				
Emissivity Adjustment	0.1~1.0				
Regional Emissivity Adjustment	Support, on smartphone and in software				
Automatic Capture of High, Low and Average Temperature	Support, on smartphone and in software				
Isotherm	Above / Below threshold				
ROI Measurement Modes	12 moveable spot 12 moveable area boxes (3 lines (min/max Emissivity set for eacl	min/max) 8 movea)	8 moveable spots ble area boxes (min/max) 1 line (min/max) sivity set for each ROI		
Temperature Alarm	User-defined temperature threshold, audible and visual alarm of abo ve/below temperature threshold				
Image Format	Standard JPEG, including raw temperature data, radiometric				
Long-Time Online Measurement					
USB	Transfer fully-radiometric thermal video stream with all original temperature data of each pixel to PC, connect with mobile devices supporting OTG (On-The-Go host)				
Continuous Online Monitoring	1TB in software; 1,000 frames on smartphone				



Professional Function Display Mode Full screen thermal image, customer size/transparency/moveable dual vision fusion picture-in-picture (PIP) Image Saving Modes Single thermal image / Thermal & digital mix image Take fully-radiometric Thermal Support, user-defined frame rate (up to 5 fps) or frame interval, up to 1,000 frames per video stream on Smartphone Support to site analysis or Smartphone Support on site analysis Support on s		OMEGA TI-128	OMEGA TI-126	OMEGA TI-125		
Image Saving Modes Single thermal image / Thermal & digital mix image Take fully-radiometric Thermal Video Stream on Smartphone Support, user-defined frame rate (up to 5 fps) or frame interval, up to 1,000 frames per Video Stream on Smartphone Support on site analysis Thermal Video Analysis on Smartphone Thermal Video Analysis on Smartphone Thermal Video Analysis on Smartphone Thermal Video Analysis on Support on site analysis Support on site analys	Professional Function					
Take fully-radiometric Thermal Video Stream on Smartphone Take fully-radiometric Thermal Video Stream on Smartphone Take fully-radiometric Thermal Video Stream on PC Support 1TB in software Support on site analysis Suppor	Display Mode	Full screen thermal image, custon	ner size/transparency/moveable dual vis	sion fusion picture-in-picture (PIP)		
Video Stream on Smartphone Take fully-radiometric hermal Video Stream on PC Thermal Video Stream on PC Thermal Video Analysis on Support on site analysis Inage Tagging / Labeling Thermal image can be automatically labelled by scanning QR code or barcode Image Annotation Voice / Text Memos Power Supply Battery Type Rechargeable Lithium-ion Battery Operating Time 10+ hours Charging System AC Power Adapter Charging System AC Power Adapter Charging Voltage 12V DC Charger Environment Operating Temperature 20°C ~+50°C (-4°F ~+112°F) Humidity 90%RH Physical Parameters Enclosure Rating IP40 FCC Certification CFR 47 Part 15.107 CFR 47 Part 15.107 CFR 47 Part 15.109 Tripod Mounting UNC1/4"-20 Weight -615g Dimensions (LkHxW) 118×145×93.5mm Varranty 2 years Dimensions (LkHxW) 118×145×93.5mm Varranty 2 years Software And App • 1 I Analyzer,professional computer analysis software • TI Link,smartphone App Standard Configuration • Thermal Imaging camera (built-in battery) • USB to Micro USB OTG cable • USB to USB cable • USB to Micro USB OTG cable •	Image Saving Modes	Single thermal image / Thermal & digital mix image				
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Thermal Video Analysis on Support on site analysis Image Tagging / Labeling Thermal image can be automatically labelled by scanning QR code or barcode Image Annotation Voice / Text Memos Power Supply Battery Type Rechargeable Lithium-ion Battery Operating Time 10+ hours Charging System AC Power Adapter Charging Voltage 12V DC Charger Environment Operating Temperature -20°C~+50°C (-4°F~+122°F) Storage Temperature -20°C~+50°C (-4°F~+122°F) Humidity <90%RH Physical Parameters Enclosure Rating IPA0 FCC Certification CFR 47 Part 15.107 FCR 47 Part 15.109 Tripod Mounting UNC1/4″-20 Weight ~615g Dimensions (LxHxW) 118×145×93.5mm Warranty 2 years Software And App • TI Link,smartphone App Standard Configuration • Thermal imaging camera (built-in battery) • Standard Infrared lens • Lens protective case • Power adapter • USB to micro USB OTG cable (left angle / right angle) Optional Test Bench		Support 1TB in software				
Smartphone Image Tagging / Labeling Thermal image can be automatically labelled by scanning QR code or barcode Image Annotation Voice / Text Memos Power Supply Battery Type Rechargeable Lithium-ion Battery Operating Time 10+ hours Charging System AC Power Adapter Charging Voltage 12V DC Charger Environment Operating Temperature -20°C~+50°C (-4°F~+122°F) Storage Temperature -20°C~+50°C (-4°F~+122°F) Humidity <990%RH Physical Parameters Enclosure Rating IP40 FCC Certification CFR 47 Part 15.107 CFR 47 Part 15.109 Tripod Mounting UNC1/4″-20 Weight -615g Dimensions (LxHxW) 118×145×93.5mm Warranty 2 years Software And App * TI Lankyzer,professional computer analysis software Til Analyzer,professional computer analysis software * TI Link,smartphone App Standard Configuration * USB to Micro USB OTG cable - USB		Support on site analysis				
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Battery Type Battery Operating Time 10+ hours 10+ hours Charging System AC Power Adapter 12V DC Charger Environment Operating Temperature -20°C ~+50°C (-4°F~+122°F) Storage Temperature -20°C ~+50°C (-4°F~+122°F) Storage Temperature -20°C ~+50°C (-4°F~+122°F) Humidity <90%RH Physical Parameters Enclosure Rating IP40 FCC Certification FCFR 47 Part 15.107 CFR 47 Part 15.109 Tripod Mounting UNC1/4"-20 Weight -615g Dimensions (LxHxW) 118×145×93.5mm Warranty 2 years Software And App -11 Analyzer, professional computer analysis software -11 Link, smartphone App Standard Configuration -1 USB to Micro USB OTG cable -1 USB to Micro USB CTG cable	Image Annotation		Voice / Text Memos			
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Warranty Software And App TI Analyzer, professional computer analysis software TI Link, smartphone App Standard Configuration Thermal imaging camera (built-in battery) Standard infrared lens Lens protective case Power adapter USB to Micro USB OTG cable USB to Micro USB-C OTG cable USB to USB cable Hand wrist strap Getting started manual (with warranty card) Calibration certificate Optional Test Bench	Weight		~ 615g			
Software And App • TI Analyzer,professional computer analysis software • TI Link,smartphone App Standard Configuration • Thermal imaging camera (built-in battery) • Standard infrared lens • Lens protective case • Power adapter • USB to Micro USB OTG cable • USB to USB cable • USB to USB cable • Hand wrist strap • Getting started manual (with warranty card) • Calibration certificate Optional Test Bench	Dimensions (LxHxW)		118×145×93.5mm			
 TI Analyzer, professional computer analysis software Standard Configuration Thermal imaging camera (built-in battery) Standard infrared lens Lens protective case Power adapter USB to Micro USB OTG cable USB to Micro USB-C OTG cable USB to USB cable Hand wrist strap Getting started manual (with warranty card) Calibration certificate Optional Test Bench	Warranty		2 years			
 Thermal imaging camera (built-in battery) Standard infrared lens Lens protective case Power adapter USB to Micro USB OTG cable USB to USB cable Hand wrist strap Getting started manual (with warranty card) Calibration certificate Optional Test Bench	Software And App					
 Thermal imaging camera (built-in battery) Standard infrared lens Lens protective case Power adapter USB to Micro USB OTG cable USB to USB cable Hand wrist strap Getting started manual (with warranty card) Calibration certificate Optional Test Bench	 TI Analyzer, professional com 	nputer analysis software	 TI Link,smartphone App 			
 Standard infrared lens Lens protective case Power adapter USB to Micro USB-C OTG cable USB to USB cable Hand wrist strap Getting started manual (with warranty card) Calibration certificate Optional Test Bench	Standard Configuration					
	 Standard infrared lens Lens protective case Power adapter USB to Micro USB-C OTG cable USB to USB cable Hand wrist strap Getting started manual (with warranty card) 					
OMEGA TI-B3s Universal test bench	Optional Test Bench					
	OMEGA TI-B3s Universal test bench					



OMEGA TI-B3s Universal R&D Test Bench



OMEGA TI-B3s (360 degree orientation)

About OF OMEGA

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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