

Mileseey TR20 Pro Thermal Imaging Camera



Model: TR20 Pro

Manufacturer: MILESEY

EAN: 6971915320023

Product Code: 877582

R7,529

Mileseey TR20 Pro Thermal Imaging Camera

Precise temperature diagnostics has never been more convenient. The Mileseey TR20 Pro combines high-resolution thermal imaging with advanced visualization modes, enabling quick detection of anomalies in electrical installations, HVAC systems, and industrial equipment. Thanks to a sensitive detector, a wide field of view, and video recording capabilities, you gain full control over the area being analyzed. Its rugged construction, intuitive operation, and long battery life make this tool ideal for both professional applications and everyday diagnostics. This equipment significantly speeds up work and increases its accuracy.

Exceptional thermal image quality

Precise temperature mapping is ensured by a detector with a sensitivity of $NETD \leq 40 \text{ mK}$ and a resolution of 320×240 pixels (76,800 measurement points). These parameters result in a clear, detailed image that allows you to detect even slight temperature differences. Smooth operation is

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ensured by a refresh rate of 50 Hz, keeping the image stable and clear even during dynamic scanning.

Clear display and fast analysis

All data is displayed on a 2.8-inch color LCD screen with a resolution of 640 × 480 pixels. It offers high sharpness and contrast, which significantly facilitates the identification of problematic areas. This allows you to react instantly to detected anomalies without the need for additional analysis on a computer.

Precision thanks to dual-camera technology

The TR20 Pro model uses a dual-camera system that combines thermal imaging with visible light in fusion mode. This solution allows you to accurately locate the source of the problem and better understand its context. This feature is particularly effective in substations, transformer stations, and anywhere where quick and accurate identification of high-temperature spots is crucial.

Real-time monitoring and documentation

The device supports video recording, which is extremely useful during lengthy inspections, such as boiler inspections, electrical system monitoring, or HVAC system testing. The automatic temperature alarm feature—both visual and audible—further enhances workplace safety. Upon detecting an anomaly, the camera automatically saves the image, ensuring that no critical information is missed.

Flexibility in all conditions

The wide-angle field of view of 50° × 37.2° allows you to cover a larger area in a single measurement. This means less time spent scanning and faster fault detection. This is particularly important in service work, where every minute counts. You have access to as many as 5 image modes, including thermal, PIP, fusion offset, fusion rate, and digital, as well as 8 color palettes. This allows you to easily adapt the data presentation to the specific situation and type of inspection. Regardless of the work environment, the TR20 Pro provides a clear and useful image.

Durability and reliability in the field

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The robust construction made of high-quality materials is protected to IP54 standard, shielding the device from dust and splashes. Additionally, the camera can withstand drops from heights of up to 1 meter, making it a reliable tool even in demanding working conditions.

Precise measurements and long battery life

A wide measurement range from -20°C to 550°C, accuracy of $\pm 2\%$, and an optimal measurement distance of 0.3 to 3 meters allow for versatile use of the device. The camera automatically tracks the hottest and coldest points, which speeds up diagnostics and increases their accuracy. The built-in 5000 mAh Li-ion battery provides up to 8 hours of continuous operation, and USB-C charging ensures convenient use.

Memory and Fast Data Transfer

The built-in 8 GB memory allows you to store over 30,000 images, which can be automatically captured upon detection of anomalies. Thanks to the USB-C port, fast data transfer is possible, facilitating the archiving and further analysis of measurement results.

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Model	TR20 Pro
Infrared (IR) resolution	320 × 240 px (76,800 pixels)
Thermal sensitivity (NETD)	≤ 40 mK
Refresh rate	50 Hz
Display	2.8" color LCD
Screen resolution	640 × 480 px (307,200 pixels)
Camera type	dual (thermal camera + visible light, fusion mode)
Field of view	50° × 37.2°
Temperature measurement range	from -20°C to 550°C
Measurement accuracy	$\pm 2\%$

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Optimal measurement distance 0.3 – 3 m

Image modes thermal, PIP (Picture-in-Picture), fusion offset, fusion rate, digital

Color palettes 8 modes

Built-in memory 8 GB (over 30,000 images)

Interface USB-C

Battery built-in Li-Ion

Battery capacity 5000 mAh

Operating time up to 8 hours

Protection rating IP54

Drop resistance up to 1 m

Gross weight: 1230, Net weight: 900, Box length: 27,50, Box width: 14,00, Box height: 11,00, GPSR

Link: https://psr-assets.innpro.pl/tools/sg_tools_measuring_tools.pdf, Information about data

generation: <https://dataact.innpro.pl/Mileseey/6971915320023>

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