



ACS Material Equipment Series

InfaredPro[®] Infrared Emissivity In-Situ Tester

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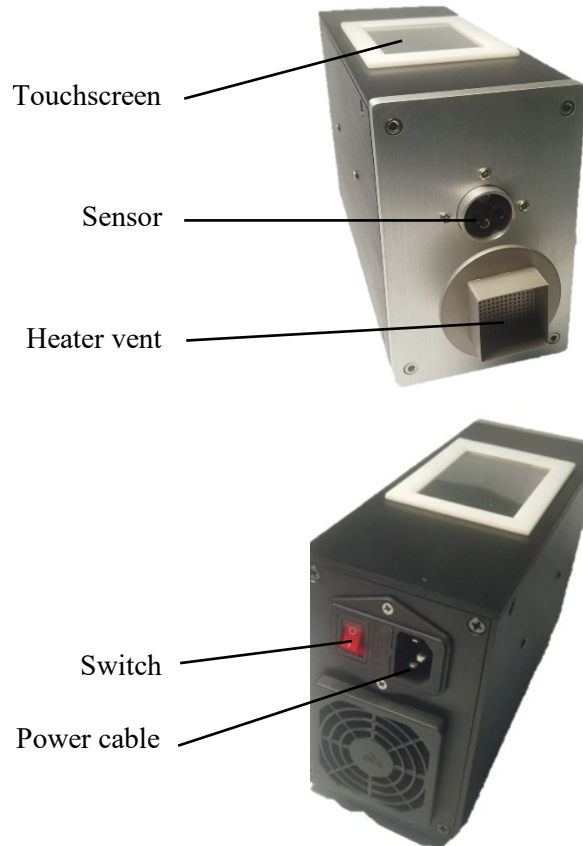
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I. Product Composition

1. Main Machine



Photos of Infrared Emissivity In-Situ Tester

II. Product Features

This product addresses the limitations of steady-state calorimetry using thermocouples, which are incapable to perform transient measurements. It replaces the thermocouple with a thermopile to reduce the temperature measurement time constant, enabling real-time measurement of the target temperature. The device is compact, cost-effective, and does not require destructive cutting of the test object or the use of artificial blackbody calibration, making it easy to deploy for field testing. Additionally, the testing process only requires localized heating of the test target, eliminating the need for the specimen to reach strict thermal equilibrium conditions. This results in shorter measurement times and reduced energy consumption.

Product Advantages:

1. No need to destroy the test object for sampling.
2. No need for artificial blackbody calibration.
3. The test device has a simple structure and is easy to use for on-site testing.

4. No strict thermal equilibrium conditions required, resulting in shorter measurement time.

III. Product Specifications

Product Name	InfaredPro® Infrared Emissivity In-Situ Tester
Model	EIET001
Target Temperature	Room Temperature ~300°C
Operating Temperature	-10°C~80°C
Measurement Wavelength Band	8~14μm
Emissivity Measurement Range	0.05~0.99
Measurement Error	Maximum ±0.05
Target Size	Diameter ≥ 70mm
Power Supply	220V
Rated Power	600W
Weight	~1.9kg
Overall Dimensions	270*90*150 mm
Configuration Description	Includes 1 main machine, tapes for test.

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