



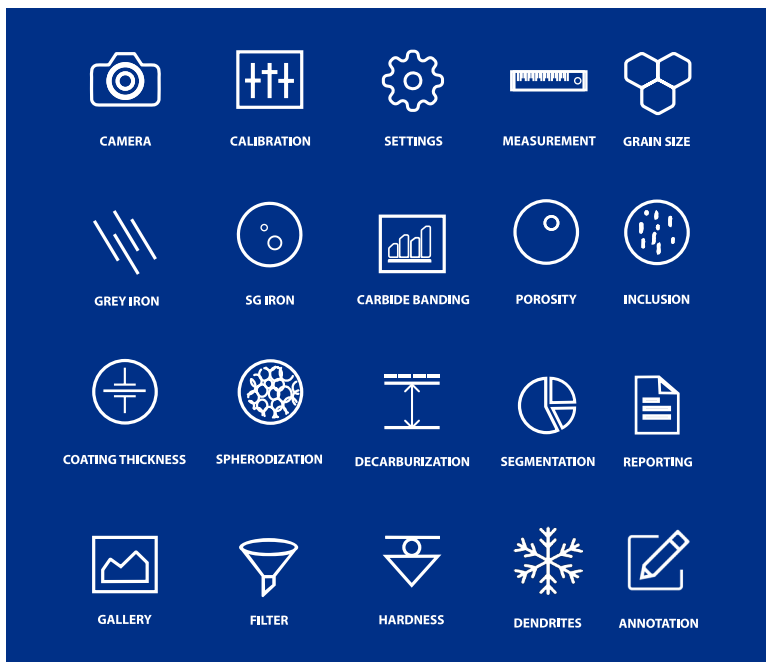
Metrical Software
CAT# 14625-USB
(includes 5MP camera)
shown on a computer monitor
(not included)

Versamet 4 Microscope
CAT# 15000-BD
and c-mount adapter
CAT# 00-2010-65
(all sold separately)
With 5MP camera
(included with Metrical)

METRICAL Metallurgical & Materials Analysis Software provides computer-aided quantitative analysis results in accordance with ISO and ASTM technical standards.

Includes modules for Grain Size, Porosity, Segmentation, Decarburization, SG Iron / Nodularity, Gray Iron, Carbide banding, and more.

- **Grain Size:** ASTM E-112, E-930, E1181, ISO 643-03, JIS G 0551-05 BS 490 DIN 643-03, IS-4748-88, SIS 111101 GOST 5639-82
- **Non-Metallic Graphite:** ASTM E-1245 E ASTM E45-97, ISO 4163-82, DIN 50602
- **Decarburization:** ASTM E1077, ISO 3887, JIS-0557-98 BS-6617, IS-7754 DIN 50192
- **Porosity:** ASTM 247
- **Streamlines:** image capture, measurement and enhancement, and accuracy of results, live measurement
- **Porosity:** ASTM 247
- **Dendrites and Hardness analysis** (Brinell and Vickers)
- **Live Measurement**



Software PC Requirements

Metrical Metrical is a resource-intensive computer-aided image analysis software. The PC specifications in the table are the minimum PC requirements to allow Metrical to perform imaging, analysis and computations. To ensure Metrical performs as expected, close all other applications when using Metrical.

Camera Included!

Metrical now comes with a high-performance, 5MP microscope camera. To ensure the best performance of Metrical, UNITRON now includes a high-performance USB 3.0 digital microscope camera with the software (camera requires a 0.65x C-mount adapter). The table shows the specifications for the camera.

Compatible Microscopes

Compatible with any brand microscope (requires camera port and 0.65x camera adapter).

SOFTWARE PC REQUIREMENTS

Minimum PC Requirements	Windows 10, 64-bit; MS-Office 10 64 bit Professional (full package with Excel and Access Database compatibility); Intel i7 processor or higher, ~3.2GHz or more; 32GB RAM or more; 500GB SSD + Hard disk; Nvidia Graphics Card 1050Ti 4GB; Monitor resolution: 1920 X 1080
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CAMERA SPECIFICATIONS

Model	AV-ALTRAMET
Sensor	Sony IMX264
Sensor Size	2/3"; 0.65x C-mount adapter recommended
Resolution	2448 (H) x 2048 (V); 5MP
Pixel Size	3.45µm x 3.45µm
Frame Rate	35fps
Shutter Mode	Global
Image Transmission	USB 3.0
Power Supply	Power over USB
In the Box	Camera, High-speed USB 3.0 Type-A to Type-B gold-plated cable (2.0m)