

THROUGH YOUR WORLD IN SECONDS.

Through your world in seconds

FEI brings a new dimension to microscopy with Phenom, its unique imaging tool. Never before could you get this level of resolution, magnification and speed at this low price point. Phenom makes high-end imaging practical and affordable for a variety of applications.

Phenom is a high resolution desktop imaging tool that is fast and easy to use. It takes you through the world of optical and electron microscopy – from millimeters to the nano scale – in seconds. With magnifications of 20x to 20,000x and an ultimate resolution of 30 nm, it's ideal for routine inspection of materials, detailed imaging or classroom instruction. Phenom is extremely easy to operate as well, meaning everyone in your team can run it. Research institutes can use its capabilities to discover next generation materials. Manufacturers can optimize production ramps and reduce the time for root cause analysis. Educators can take an exciting leap in teaching methods by bringing a world that students have never seen before into the classroom.

'Imagine the possibilities.

See them with Phenom'.



PHENOM™
THE PERFECT COMBINATION



SPECIFICATIONS SHEET

 FEI COMPANY™

SPECIFICATIONS

Items

System

Description

Imaging module, touch screen monitor, Rotary knob, diaphragm vacuum pump, power supply, USB 2.0 flash drive

Imaging Modes

- Light Optical
- Electron Optical

Magnification fixed: 20x
Magnification range: 120x to 20,000x
(Digital zoom: 12x)

Illumination

- Light Optical
- Electron Optical

Selectable axial and off-axis LEDs
Long lifetime thermionic source
(5kV accelerating voltage)

Digital Image Detection

- Light Optical
- Electron Optical

Color CCD Camera
High Sensitivity Backscatter Electron Detector (Compositional and Topographical modes)

Image Format

JPEG, TIFF, BMP

Image Resolution Options

456x456, 684x684, 1024x1024 and 2048x2048 pixels

Data Storage

USB 2.0 Flash drive

Sample Stage

Computer controlled motorized X and Y

Sample Size

25mm (dia) x 30mm (h)

Sample Loading Time

- Light Optical
- Electron Optical

<5s
<30s

Dimensions & Weight

- Imaging module
- Diaphragm vacuum pump
- Power supply
- Monitor

286(w) x 566(d) x 495(h)mm, 50kg
145(w) x 220(d) x 213(h)mm, 4.5kg
156(w) x 300(d) x 74(h)mm, 3kg
355(w) x 340(w) x 203(h) mm, 3.2kg

Room Temperature

15°C ~ 30°C (59°F ~ 86°F)

Humidity

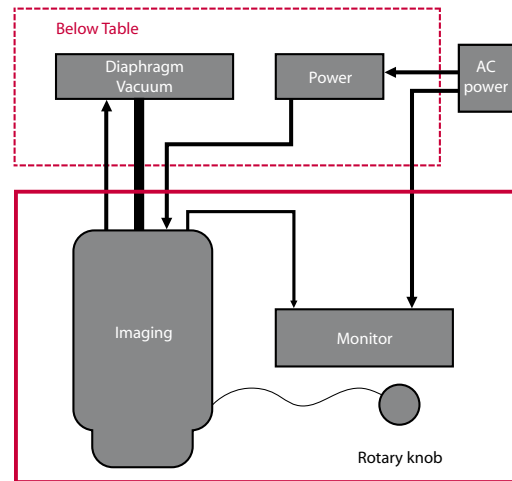
<80%RH

Power

Single phase AC 110 - 240Volt,
50/60Hz, 300W (max.)

Recommended Table Size

120 x 75cm, load rating of 100kg



Phenom configuration

Table 120 x 75 cm

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