

# 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**<sup>™</sup>  
THE PERFECT COMBINATION



SPECIFICATIONS SHEET

 FEI COMPANY<sup>™</sup>

# SPECIFICATIONS

## Items

### System

### Imaging Modes

- Light Optical
- Electron Optical

### Illumination

- Light Optical
- Electron Optical

### Digital Image Detection

- Light Optical
- Electron Optical

### Image Format

### Image Resolution Options

### Data Storage

### Sample Stage

### Sample Size

### Sample Loading Time

- Light Optical
- Electron Optical

### Dimensions & Weight

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

### Room Temperature

### Humidity

### Power

### Recommended Table Size

## Description

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

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

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

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

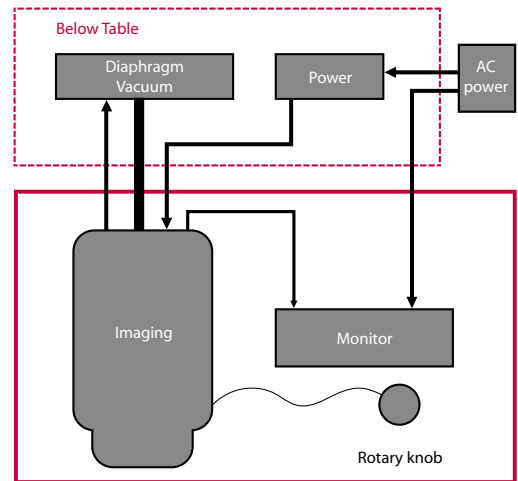
JPEG, TIFF, BMP  
456x456, 684x684, 1024x1024 and 2048x2048 pixels

USB 2.0 Flash drive  
Computer controlled motorized X and Y  
25mm (dia) x 30mm (h)

<5s  
<30s

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  
15°C ~ 30°C (59°F ~ 86°F)  
<80%RH  
Single phase AC 110 - 240Volt,  
50/60Hz, 300W (max.)

120 x 75cm, load rating of 100kg



Phenom configuration

Table 120 x 75 cm

## FEI Company

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## Find your Phenom contact information on

[www.fei.com/phenom](http://www.fei.com/phenom)