MICROSCOPES INTERNATIONAL

uScopeMXII

The uScopeMXII is a small digital desktop microscope you can use in your workplace or home office. It captures images from standard glass slides and sends them to your PC. You can interactively browse slides with full control of focus, image processing, and location. You can also scan regions of interest creating fully focused image sets.

The industry-standard USB interface makes it simple to plug in and start capturing images. It easily interfaces with a high-performance desktop or laptop PC and captures slide images in a wide variety of environments.

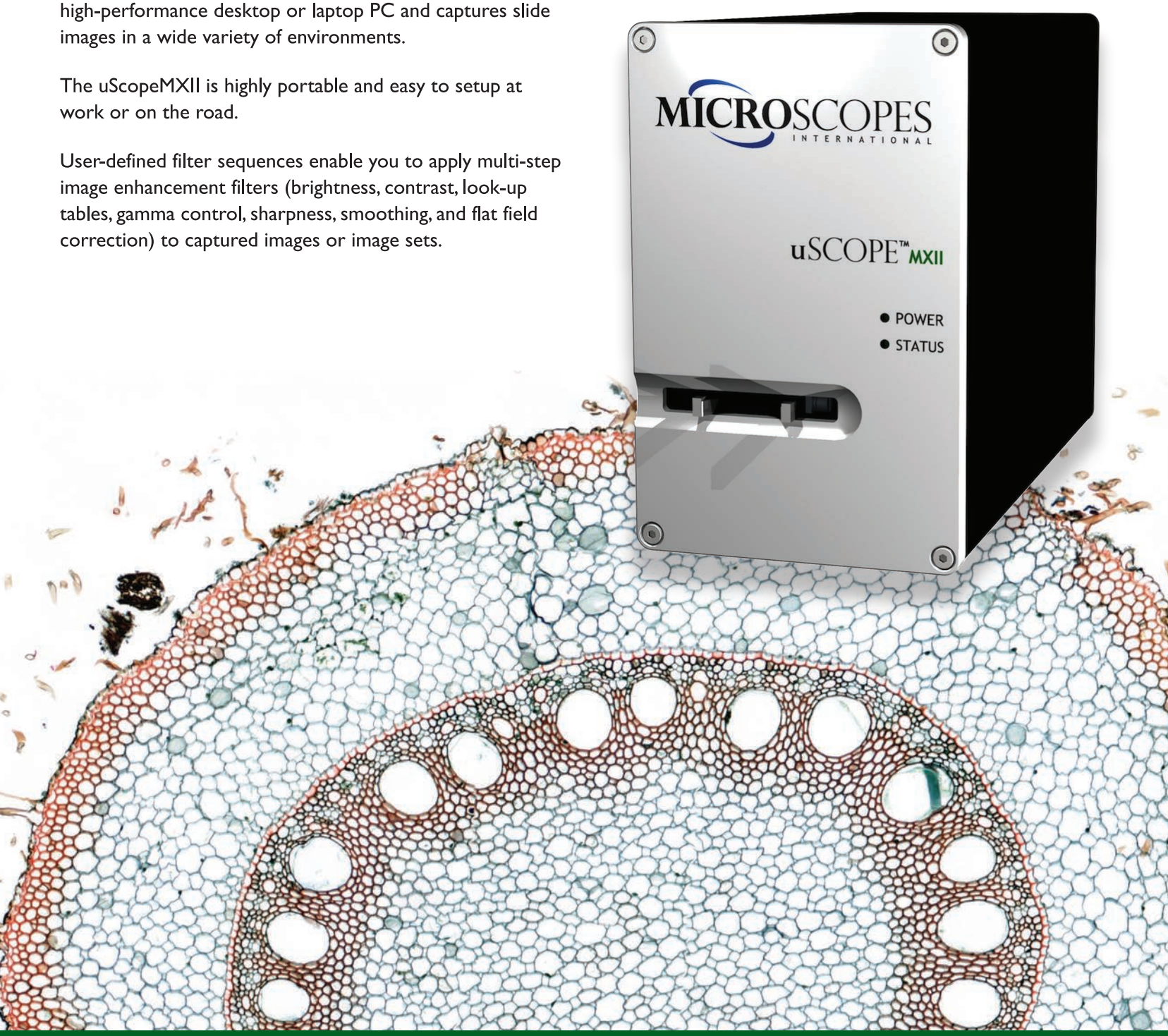
The uScopeMXII is highly portable and easy to setup at work or on the road.

User-defined filter sequences enable you to apply multi-step image enhancement filters (brightness, contrast, look-up tables, gamma control, sharpness, smoothing, and flat field correction) to captured images or image sets.

Deep zoom image sets, which allow you to zoom in and out and navigate large slide scans, are easily created.

Every uScopeMXII comes with a one year warranty and includes one-year of software updates which you may extend annually.

The uScopeMXII is manufactured in the United States.



Features & Benefits

- **Overview and Objective Cameras**
  The uScopeMXII has one objective camera for scanning and one overview camera for navigating.
- **Automatic Focus**
  Images are automatically focused using several user-configurable focus algorithms.
- **Portability**
  At a weight of 6 lbs., the uScopeMXII is highly portable.
- **Speed**
  The uScopeMXII is fast. At 20x, it can scan a 15mm×15mm area (2,900 fields) in about six (6) minutes.
- **Easy to Use**
  The uScope Navigator software simplifies scanning and browsing.
- **Self-Contained**
  The uScopeMXII is self-contained and includes the electronics, cameras, stage, and optics in a device about the size of an external disk drive.
- **Full Imaging Control**
  Filters provide control of image processing and correction.

Part Number	Description
uScopeMXII-20	uScopeMXII Digital Microscope 20x (0.40NA) 160mm Conjugate Objective
uScopeMXII-40	uScopeMXII Digital Microscope 40x (0.65NA) 160mm Conjugate Objective
uScopeMXII-60	uScopeMXII Digital Microscope 60x (0.85NA) 160mm Conjugate Objective

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Technical Specifications

Dimensions

- Width: 4.12 in. (104 mm)
- Height: 6.67 in. (199 mm)
- Depth: 8.84 in (224 mm)
- Weight: 6.0 lbs. (2.7 kg)
- Shipping Weight: 11.0 lbs (5.0 kg)

Connectors

- Power: 1.5A, 12VDC
- Communications: USB 2.0

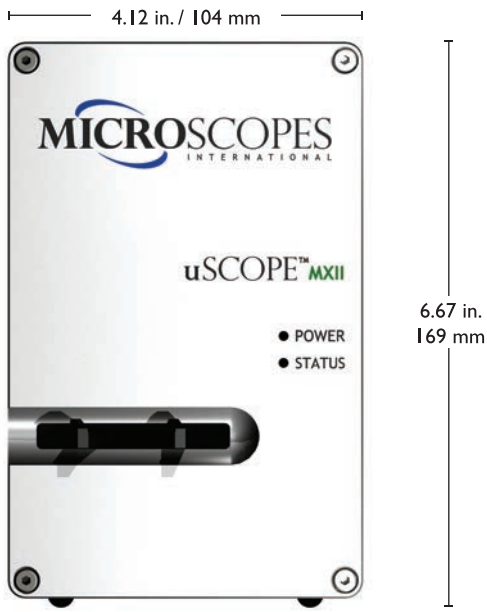
Operating Parameters

- Slide Capacity: Single Slide
- Illumination: Dual LED (White)
- Overview Camera: 1920×1080 or 960×540
- Slide Camera: 1920×1080 or 960×540
- Pixel Resolution:
  - 20x (0.40NA)
    ≈ 0.50µm/pixel @ 960×540
    ≈ 0.25µm/pixel @ 1920×1080
  - 40x (0.65NA)
    ≈ 0.25µm/pixel @ 960×540
    ≈ 0.125µm/pixel @ 1920×1080
  - 60x (0.85NA)
    ≈ 0.167µm/pixel @ 960×540
    ≈ 0.083µm/pixel @ 1920×1080
- Image Format: JPEG
- Image Capture:
  - Single Image,
  - Tiled Image,
  - Overlapped Images,
  - Deep Zoom Image.

Operating Requirements

- Line Voltage: 100VAC – 240VAC
- Line Frequency: 50Hz – 60Hz
- Operating Temperature: 50° – 95° F (10° – 35° C)
- Storage Temperature: 10° – 105° F (-12° – 40° C)
- Relative Humidity: 0% – 80% non-condensing

Front View



Side View