

MICROSCOPES INTERNATIONAL

The uScopeHXII is a small digital desktop microscope you can use in your workplace or home office. It uses high-NA infinity objectives to capture images from standard glass slides. 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 can capture slide images in a wide variety of environments.

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

The uScopeHXII is manufactured in the United States.



Features & Benefits

Overview and Objective Cameras

The uScopeHXII has an objective camera for scanning and an overview camera for navigating.

Automatic Focus

Images are automatically focused using configurable focus algorithms.

Portability

At a weight of 6 lbs., the uScopeHXII is highly portable.

Easy to Use

The uScope Navigator software simplifies scanning and browsing.

Self-Contained

The uScopeHXII 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.

Configurations

Part Number	Description
uScopeHXII-20	uScopeHXII Digital Microscope 20x (0.65NA) ∞ Objective
uScopeHXII-40	uScopeHXII Digital Microscope 40x (0.80NA) ∞ Objective

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Technical Specifications

Dimensions

- Width: 4.12 in. (10.4 cm)
- Height: 6.67 in. (16.9 cm)
- Depth: 8.84 in. (22.4 cm)
- Weight: 6.0 lbs. (2.7 kg)

Connectors

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

Operating Parameters

- Slide Capacity: Single Slide
- Illumination: Dual LED (White)
- Overview Camera: 1920x1080 or 960x540
- Slide Camera: 1920x1080 or 960x540
- Pixel Resolution:
 - 20x (0.65NA)
≈ 0.54µm/pixel @ 960x540
≈ 0.27µm/pixel @ 1920x1080
 - 40x (0.80NA)
≈ 0.27µm/pixel @ 960x540
≈ 0.135µm/pixel @ 1920x1080
- Image Format: JPEG (Q90)
- Image Capture:
 - Single Image,
 - Tiled Images,
 - Overlapped Images,
 - Underlapped 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

