

The uScopeDX is a digital, whole slide scanner you can use in your workplace or home office. It connects to your desktop PC or laptop and captures images from standard glass slides using brightfield illumination and either of two included objectives. You can interactively browse slides with full control of focus, illumination, image processing, and location. You can scan regions of interest creating fully focused image sets.

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

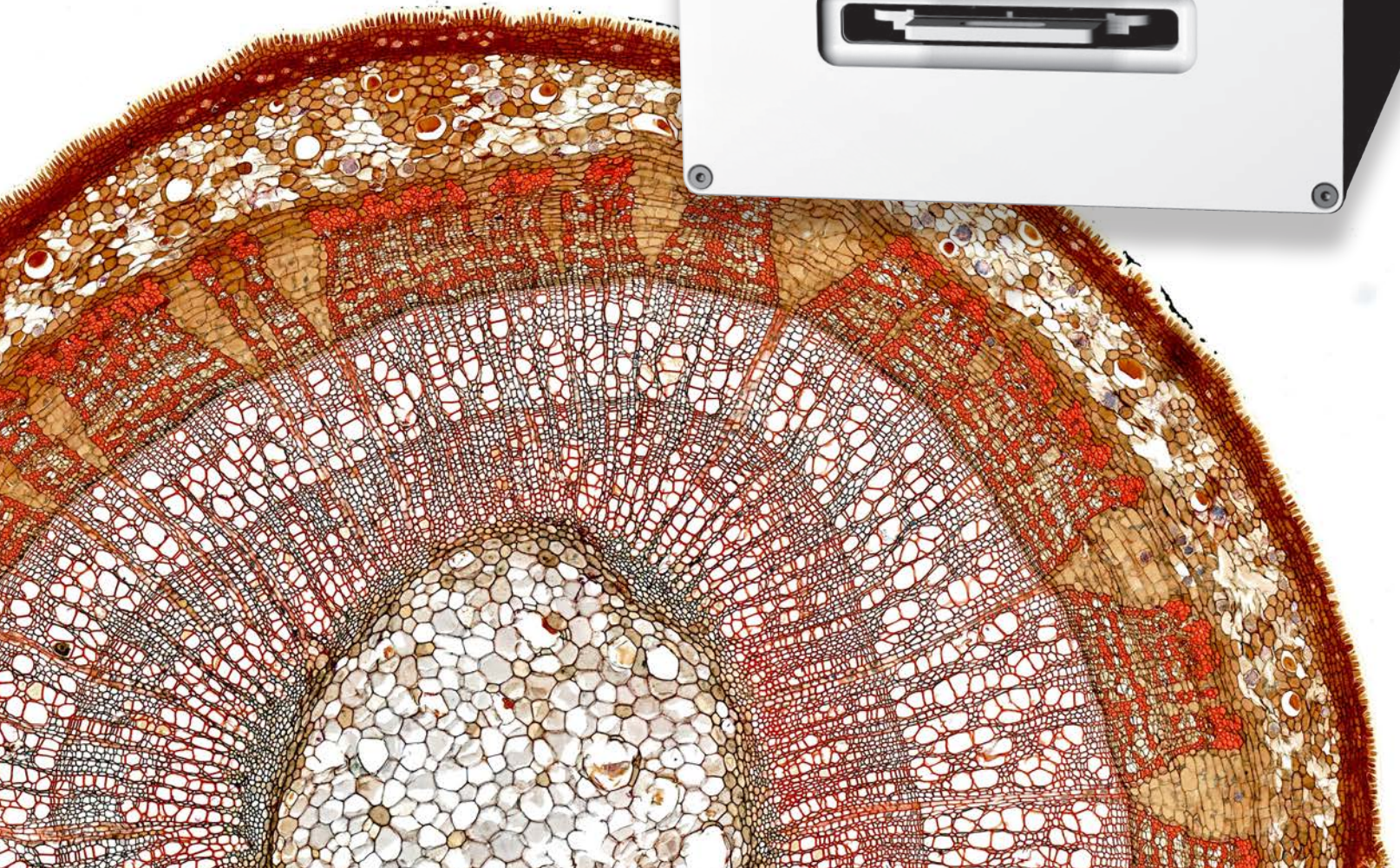
The uScopeDX is portable and easy to setup at work, in your home office, or on the road.

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

Deep zoom images, which allow you to zoom in and out and navigate large slide scans, are easy to create.

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

The uScopeDX is manufactured in the United States.



Features & Benefits

Overview and Objective Cameras

The uScopeDX has two objective cameras for scanning and an overview camera for navigating.

Automatic Focus

Images are automatically focused using configurable focus algorithms.

Portability

At a weight of 9.5 lbs., the uScopeDX is highly portable.

Easy to Use

The uScope Navigator software simplifies scanning and browsing.

Self-Contained

The uScopeDX is self-contained and includes the electronics, cameras, stage, and optics in a device about the size of a shoe box.

Full Imaging Control

User defined filters provide control of image processing and image correction.

Configurations

Part Number	Description
uScopeDX-1020	uScopeDX Digital Microscope 10x/20x (.25/.40NA) 160mm Conjugate Brightfield Objectives
uScopeDX-2040	uScopeDX Digital Microscope 20x/40x (.40/.65NA) 160mm Conjugate Brightfield Objectives

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Technical Specifications

Dimensions

- Width: 7.75 in. (196 mm)
- Height: 6.57 in. (167 mm)
- Depth: 10.63 in (270 mm)
- Weight: 9.5 lbs. (4.3 kg)

Connectors

- Power: 2.0A, 24VDC
- Communications: USB 2.0

Operating Parameters

- Slide Capacity: Single Slide
- Illumination: Dual LED (White) Brightfield and Polarizing
- Overview Camera: 1920×1080
- Objective Cameras: 960×540 (SD) or 1920×1080 (HD)
- Objective Camera Pixel Resolution:
 - 10x (0.25NA)
≈ 1.00µm/pixel @ 960×540
≈ 0.50µm/pixel @ 1920×1080
 - 20x (0.40NA)
≈ 0.50µm/pixel @ 960×540
≈ 0.25µm/pixel @ 1920×1080
- Field Image Format: JPEG (Q90) or PNG (lossless)
- Scanned Image Capture: Single Field, Tiled Fields, Deep Zoom Image
- Export Formats: JPG (Q90), BMP, PNG, TIFF

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

PC Requirements

- High Performance PC Running Windows 7/8/10
- At Least 8GB RAM / 20GB Hard-Disk Space (SSD is Recommended)
- 1920×1080 or Higher Resolution Monitor
- Several Available USB Ports

Front View

7.75 in. / 196 mm



Side View

10.63 in. / 270 mm

6.57 in.
167 mm

