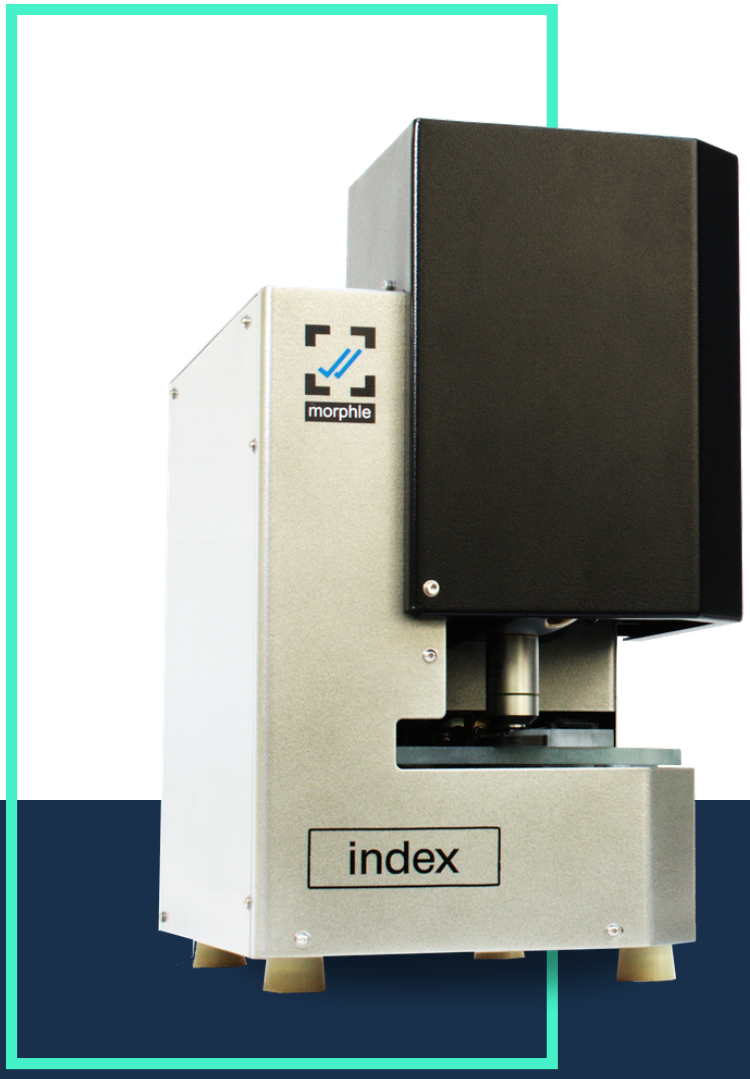
Digital Pathology Slide Scanners for the many

Highly robust yet surprisingly affordable



morphle

www.morphlelabs.com

Remote Microscopy of our Times

Slides for Scanning.
[PROCESSING LAB]

Whole Slide Images
Stored in Image Server.

Digital slide library comprising
of 1000s of scans.

Remote Consultant
Reporting on a WSI.

Static IP

Remote Faculty conducting
Online UG Practicals & PG
Classes.

Remote Student Accessing
Scan library anywhere.

Image server offers
base storage of 5000 scans.

NAS Extension stores
200000+ Scans.

- Multiple units can be simply chained together for higher storage.
- Low cost cloud backups ensure protection against data loss in worst case scenarios.

Export to personal
storage for offline access.

Glass Slide Storage ⟷ Digital Slide Storage

Stains fade in a matter of a month.

Slide cabinets are cost inefficient.

Broken/Misplaced Glass Slides.

Digital slides ensures perfect image perpetually.

3-5x lower cost of storage with latest data storage technology.

Retrieve ancient scans in a few seconds. Search by slide name, data range, diagnosis, patient details & more.

Live Z Stack

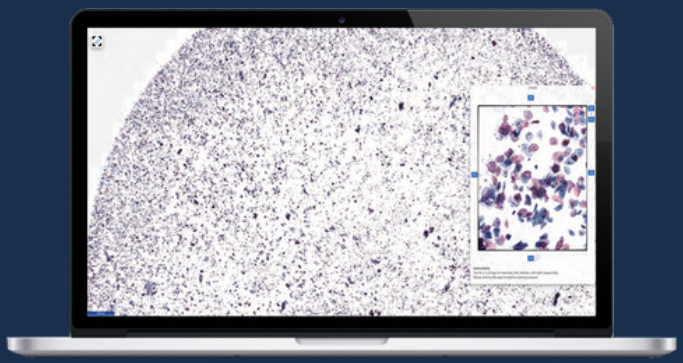
Just Like A Microscope, But Remote

- Start reporting at 40x remotely in 15 seconds.
- Report instantly for frozen section, cytology adequacy, fine needle aspiration.

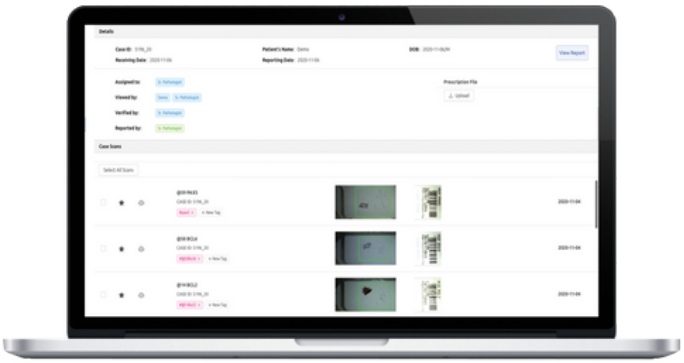
Never Miss A Detail

- Move across multiple Z-levels at each field.
- Scan Cytology slides with overlapping cells.

Volume Scanning



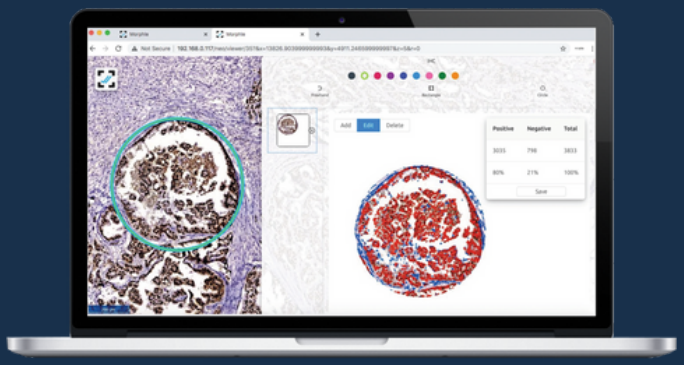
Bi Directional LIS Integration



Perfect Workflow Integration

- Access patient data and TRF form embedded into the digital pathology viewer.
- Push microscopic photographs. gross images to the final report.

IHC Cell Counting



Eliminating Inter-Observer Variability

- Automated positive & negative cell counting with positivity ratio.
- Manual region selection option to avoid compounding factors.
- Approved for research use for nuclear & membrane staining antibodies.

IHC Panel Comparisons Made Easy

- Compare HE & multiple IHC scans side by side.
- Eliminates the hassle of marking on glass slides / switching slides in microscope compounding factors.
- Upto 12 scans can be arranged in grid style on larger screens.

Scan Sync

Digital Cytology Reporting

Accuracy Meets Objectivity

- Compare shortlisted cells side by side.
- Track area screened to ensure coverage.

Hassle Free Measurement & Scoring

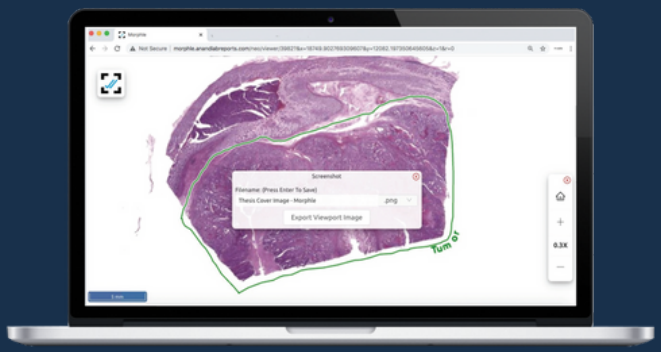
Morphometry At Fingertips

- Measure tumor margins & more in full tissue view.
- Measure nuclear diameters, area & more at micrometer accuracy.
- IHC scoring with one click image analysis.

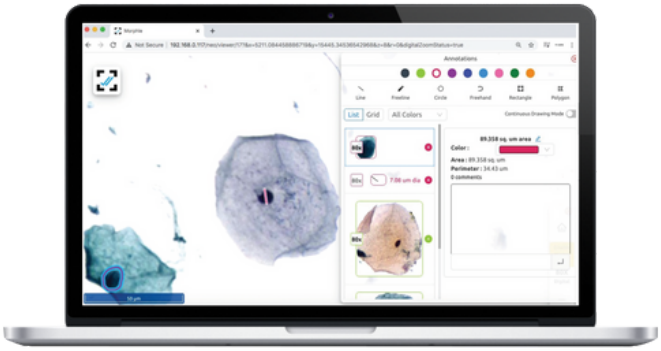
Perfect Images At 1X To 80X

- Full tissue image capture for large tissue that don't fit in a single field at even a 2x microscope objective.
- Integrated Image annotations.
- One Click export with perfect Image Quality.

Hi-DPI Publication ready Image export



Nuclear & Cellular Morphometry



Precise Micro - Measurements

- Measure Nuclear Parameters like area, perimeter, diameters, axis lengths & more.
- Calculate nucleocytoplasmic ratios.
- 100 nanometer precision for all measurements at 80X magnification.

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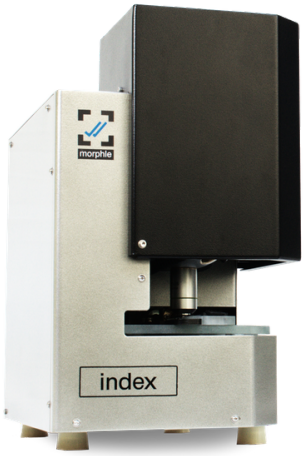
Technical Specifications



Slide capacity	→	1
Primary Scanning Objective	→	40X Plan Achromat - 0.65 NA
Scanning mode	→	1. Single plane Whole slide scanning 2. Live microscopy with continuous focus / Z-Stack 3. Multiple focal plane Volume scanning
Scanning Speed at 40X	→	2.5 mins for 15 x 15 mm area
Robotic objective switcher	→	3 objective turret with 4X, 40X & one optional objective
Scan preview mode i.e. thumbnail generation	→	1. 4x objective scan as preview 2. Single shot broad-view camera
Types of slide handled	→	1. HE & IHC stained tissue sections 2. Pap smears 3. FNAC cytology smears
Scanner Size W x D x H (cm)	→	30 x 20 x 35
Slide dimensions W x D x H (mm)	→	25cm x 75cm x 0.75-1.8mm
Weight	→	15 Kg

	Index	Optimus 6x	Continuum - 48
Maximum Slide Loading Capacity	1	6	48
Scanning Objective	40 x 0.65 NA	40 x 0.65 NA	40 x 0.65 NA
Secondary Scanning Objective	NA	20x 0.75NA (optional)	20x 0.75NA
Resolution	0.25 µm/pixel	0.25 µm/pixel at 40x 0.50 µm/pixel at 20x	0.25 µm/pixel at 40x 0.50 µm/pixel at 20x
Single slide Scanning Time for 40x (15x15 mm)	2.5 mins	2.5 mins	2.5 mins
Single slide Scanning Time for 20x (15x15 mm)	NA	90 sec	90 sec
Autoloading Rack details	Single cassette with 1 slide capacity	Single cassette with 6 slide capacity	Autoloading Rack with 8 cassettes each cassette holds 6 slides
Walkaway Time for Full Batch @ 40x	90 sec	15 mins	2 hours
Walkaway Tme for Full Batch @ 20x	NA	9 mins	1.2 hours
Robotic Objective Switcher	NA	3 Objective Turret	3 Objective Turret
Barcode	NA	1D & 2D	1D & 2D
Scan preview mode	broad view camera	Broadview camera + high resolution preview with 4x scanning objective	Broadview camera + high resolution preview with 4x scanning objective
Slide Dimensions	76 x 26 mm	76 x 26 mm	76 x 26 mm
Slide Thickness range	0.8 to 2mm	0.8 to 2mm	0.8 to 2mm
Types of Slides handled	HE & IHC stained tissue sections PAP smears (conventional & LBC both) FNAC cytology smears	HE & IHC stained tissue sections PAP smears (conventional & LBC both) FNAC cytology smears	HE & IHC stained tissue sections PAP smears (conventional & LBC both) FNAC cytology smears
Camera	5 MP 2/3 inch Sony sensor	5 MP 2/3 inch Sony sensor	5 MP 2/3 inch Sony sensor
Dimensions W x L x H (mm)	384 x 207 x 337	394 x 577 x 486	594 x 560 x 617
Weight (kg)	15	26	36

Global shipping
Plug & Play installation
Continuous online support

morphle

Bestselling Slide Scanner within India

1M+ Slides reported on Morphle Scanners as of today!

Join the digital pathology revolution

Schedule Online Demo

https://morphlelabs.com/demo.html

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