## Global Leader in Affordable Digital Pathology





# **OS-Ultra**

World's First Affordable High-Speed Whole Slide Scanner Speed » Quality » Efficiency

#### **About Us**

OptraSCAN is an end-to-end digital pathology solution provider; focused on delivering fully integrated, cloud-based affordable desktop scanning systems and solutions that will maximize your return on investment and improve the performance of your pathology services.

OptraSCAN's recent addition OS-Ultra is a high-speed whole slide digital pathology scanner that scans tissues/cells of size 15x15 mm area at 40x equivalent in less than 60 seconds.

OS-Ultra will assist pathologists in delivering quick and precise results, at an affordable cost.



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OptraSCAN India Private Limited 5th Floor, IT - 4, Qubix SEZ, Blue Ridge, Phase 1, Hinjewadi, Pune, Maharashtra 411057 Tel : 020 66540900



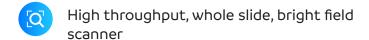


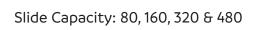
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#### **Key Features**





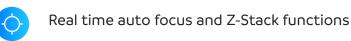
Whole slide scanning at 0.25 micron per pixel at 40x

Ability to handle slides of varying formats – 1"x3"and 2"x3"

Patented automatic tissue detection & composite imaging technique

Continuous loading and unloading for efficient workflow

High resolution imaging of digital slides and associated metadata



Barcode and case reconciliation

Cloud-enabled with instant cloud-loading capability

IMAGE Path® Image Management System included for viewing, storing and archiving

TELEPath® Telepathology included for Real-Time, Remote Consultations

User friendly, intuitive LCD touchscreen

Easy installation & noiseless operation

# **Technical Specifications**

Imaging Mode: Brightfield

Scan time: 52 Seconds at 40x (15 x 15 mm tissue)

Light Source: LED

Focusing Technique: Real Time Auto Focus

 File Format: JPEG2000, TIFF Ability to convert file formats

 Slide Formats: Standard 25x75mm (1"x3") slides, 50x75mm (2"x3") slides

Magnification: 40X

Scan Modes: Normal (Real-time auto focus)
 High Precision (High precision auto focus)
 EDF (Extended Depth of Field)
 Z-Stack (Three-Dimensional Stacking)

 Capable of Bi-Directional Interface with LIS/ LIMS Slide Tolerances: Length: ± 1mm, Width:
 ± 1mm, Thickness± 0.2mm

Resolution: 40X: 0.25 m/pixel μ

Slides Loader: 80, 160, 320 & 480 slides

 Continuous Slide Loading: Intuitive interface with fully automated walk-away acquisition

Storage - 1) Local
 2) Cloud
 Cloud enabled for auto-streaming data into Cloud

 Image Storage Space: 600-800MB for a 15x15 mm tissue size at 40x magnification

Barcode Support: 1D, 2D

 Loaded slides scanning sequence can be rescheduled as per user priority



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#### **IMAGEPath®**

Web-based Image Management and Viewing

- · Image sharing, collaboration and storage security
- Pan, zoom, annotate, generate reports
- User authentication and "role-enabled" access
- Image analysis plug-in available
- Audit trail functionality



#### TELE Path™

Real -time Digital Conferencing

- · Real-time sharing/collaboration
- Interactive chat
- iOS and android based applications



### OptraASSAYS™ Image Analysis

Al & ML based Image Analysis Solutions

- Turnkey analysis of ER, PR, Her2neu, Ki67, PD-L1
- IHC multiplexing assays
- IHC dual-plex analysis for each biomarker analyzed
- Accurate, rapid & reproducible assessment
- Additional algorithms available with user configuration
- Biomarker quantification using nuclear, membrane & cytoplasmic stains



### **Nuclear Biomarker Analysis**

Al & ML based Image Analysis Solutions

- Identification of optical density vectors
- Easily tunable training & classifying modules
- Batch processing and single slide analysis
- Computer assisted whole slide & regions of interest assessment for quantification of nuclear algorithm





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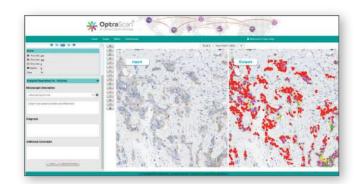
# **Membrane Biomarker Analysis**

- Highly reproducible and accurate score generation
- User validation through exposed parameters opened for user interaction
- Stroke detection algorithm for filtering out the residual/background staining



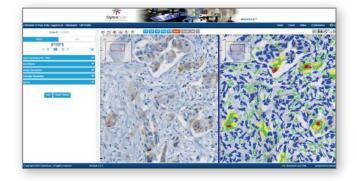
#### Cytoplasmic Biomarker Analysis

- Algorithm helps distinguish between the staining of two or more sub cellular compartments
- Algorithm evaluates the respective nuclear cytoplasmic localization in order to gain further cellular insights
- Provides accurate and detailed score generation in the form of 3+,2+,1+ and negative cell counts



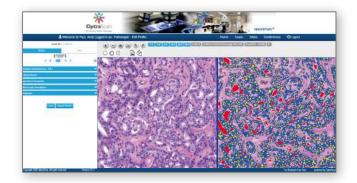
#### **PD-L1 Biomarker Analysis**

- Fully automated solution for interpretation of PD-L1 IHC expression
- Computer aided region detection system based for automated evaluation of tumor nest
- Score generation based on the number of PD-L1 positive cells in relation to total tumor and immune cells in a single read



### **Prostate Cancer Analysis**

- End to end, fully automated solution for prostate cancer
- ANN (artificial neural network) based classifier
- ML based histological assessment of architectural patterns



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#### **Breast Cancer Analysis**

- Evaluation of tumor (invasive carcinoma) area and the tissue area in mm2
- Automated evaluation of invasive cellularity in the tumor area
- Identification of DCIS



#### Cytology Imaging and Analysis

- Fully automated multi-layer scanning at different focal depths
- Automated computation of sample adequacy for the whole slide cytology image
- Identification of abnormal cells and other entities based on morphological features and Al based classification
- Identification of reactive, endometrial, actinomyces, candida, clue cells, trichomonas vaginalis, and herpes entities
- Identification of entities including blood, inflammation, and lubricant



# **OptraSCAN's Advisory Board**



**Dr. Jiaoti Huang** Chair - Pathology at Duke University



**Dr. Thomas Montine**Chair - Pathology at
Stanford University School of Medicine



**Dr. Jon S. Morrow**Chair - Pathology at
Yale School of Medicine



**Dr. Abu I Abbas**Chair - Pathology at
University of California, San Francisco



**Dr. Manu Sebastian**Associate Professor.6 Director.The University of
Texas MD And erson Cancer Cen ter



**Dr. Allen Gown**Founder, Medical Director
Phenopath

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