

AUTOMATED MICROSCOPY SYSTEM



# Ikoniscope<sup>®</sup> Digital Microscopy System

*Change the way you FISH*

**AUTOMATED IMAGING AND ANALYSIS FOR YOUR LAB**

**ikonisys**

FINDING THE CELLS THAT MATTER

## Get valuable results back to your clinicians, fast!

*Now you can perform automated FISH slide imaging and initial analysis right in your lab, no darkroom required. Change the way you FISH, and focus on what's important—generating valuable results, fast!*

### Walk-away system does the work for you

The Ikoniscope® is a robotic microscopy system for whole slide digitization and analysis. It performs fluorescence digital imaging and initial analysis of FISH-processed slides—automating a subjective and time-consuming procedure.

By making FISH analysis faster and easier, the Ikoniscope provides a real solution to the shortage of qualified laboratory personnel. Technologists can focus on critical interpretation and reporting, rather than manually reading slides.

With its versatile scanning capabilities, and exceptional imaging sensitivity and speed, the Ikoniscope is the most efficient method of generating valuable, reliable information from FISH-processed slides.

### Powerful applications eliminate manual processing

The Ikoniscope operates with proprietary Ikonisoft® software for application-specific scanning and algorithmic analysis. Our fully automated intelligent microscopy applications enumerate, classify and present cells for review—without user intervention—eliminating subjectivity and improving repeatability.

FDA-cleared applications for AneuVysion®, PathVysion® and UroVysion® are available, or you can program your own cell suspension FISH applications with Ikonisoft® explorer.

### More than a microscope

- **Reduces subjectivity and risk of human error** associated with fatigue.
- **Delivers comprehensive, accurate laboratory results**, supporting faster and more efficient diagnosis, prognosis and treatment of disease.
- **Increases overall workflow efficiency and cost effectiveness** by reducing operator attended time.
- **Increases sample capacity** without increasing staff.
- **Enables high throughput**, with the option of unattended overnight FISH slide processing.
- Delivers the **outstanding sensitivity** of FISH analysis.
- **Maintains a record** of results.
- **Supports future needs**, with flexibility for a larger menu of sophisticated diagnostic tests to detect rare and abnormal cells.

**Tired of FISHing in the dark?** With the Ikoniscope, instead of spending hours in the darkroom manually counting cells, you can work comfortably in your lab.



# Focus on interpreting results, not looking at slides

The Ikoniscope® performs FISH slide handling, scanning, imaging, scoring and preliminary analysis—all without operator intervention—increasing workflow efficiency and speeding turn-around time. Just load the slides and the Ikoniscope does the rest!



1

## Load slides into cassettes

Just load bar-coded slides into the Ikoniscope cassettes.



2

## Place cassettes into Ikoniscope

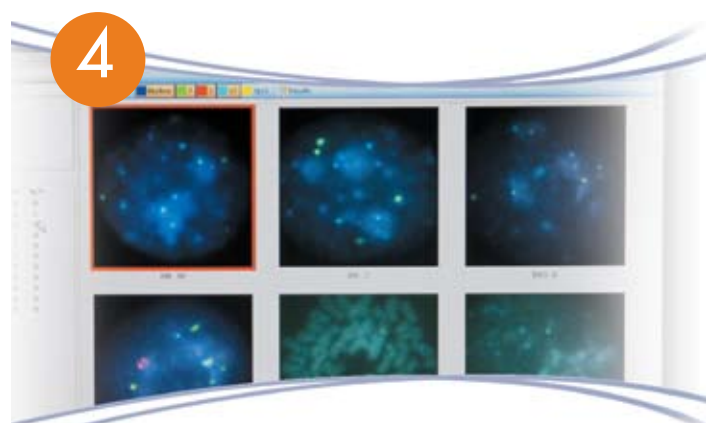
175-slide/load capacity enables high throughput.



3

## Initiate run

Slide handling, scanning, image capture and preliminary analysis occur automatically, reducing operator attended time.



4

## Review results and issue report

Ikonisoft® software provides complete slide scanning and algorithmic classification of cellular nuclei, eliminating the subjectivity associated with manual counting. A clear, well-defined digital gallery of images for viewing and review is produced.



# Increase efficiency and overall cost effectiveness

## ■ True walk-away functionality

Slide handling, scanning, real-time digital image capture, scoring and preliminary analysis occur automatically, increasing overall workflow efficiency by reducing operator attended time.

## ■ No darkroom required

Easy fit into any laboratory setting.

## ■ Versatile scanning capabilities with exceptional sensitivity

Dramatically increases the amount and quality of data generated, making the Ikoniscope® ideally suited for early detection of abnormal and rare cells.

## ■ Ultra-high resolution imaging

Advanced imaging technology maximizes signal intensity and signal-to-noise ratio, for exceptional image quality.

## ■ High speed slide processing

Improves turn-around time of results to clinicians.

## ■ Dry lens optics

No oil requirement. Easy to use; easy to maintain.

## ■ Remote diagnostics

Remote diagnostic capabilities facilitate troubleshooting.

## ■ Large slide load capacity

175-slide load capacity enables high throughput, with the option of unattended overnight FISH slide processing.

## ■ Integrated Ikonisoft® Software

Provides application-specific whole slide or area of interest scanning and algorithmic analysis, greatly reducing subjectivity and improving repeatability of results, thus enhancing reliability of interpretation and reporting.

## ■ Secure digital data delivery

Comprehensive, high quality data can be accessed in real time or on demand.

## ■ Integrated Ikonilan® server

Networks internally or externally with other Ikoniscopes or virtually any laboratory information system, facilitating data sharing and reporting, on site or remotely.

## ■ Optional IkonIWAN™ networking

Internet-based remote viewing capability.

## ■ FDA-cleared applications

Diagnostic applications for AneuVysion®, PathVysion® and UroVysion® analysis available.

## ■ Optional Ikonisoft explorer

Program your own hematopathology or other cell suspension FISH applications.



CE

# Supports a broad range of tests— now and in the future

The Ikoniscope® automates existing routine clinical tests and enables new tests for early detection of abnormal and rare cells. Ikonisoft® applications provide assay-specific image analysis and algorithmic classification of cellular nuclei. More applications are constantly being added—visit our website at [www.ikonisys.com](http://www.ikonisys.com) for the latest!

## IKONISOFT SUITE OF APPLICATIONS



### **oncoFiSH® her2** Automate PathVysion® HER-2 analysis

Fully automated microscopy application for the determination of HER-2 status in human breast cancer specimens processed with Abbott's PathVysion® HER-2 DNA Probe Kit. Automation of laborious process steps reduces subjectivity and increases overall workflow efficiency. FDA cleared.

### **oncoFiSH® bladder** Automate UroVysion® analysis

FDA-cleared imaging application for the automation of UroVysion® using the Ikoniscope Digital Microscopy System. If you are doing manual cellular analysis using Abbott UroVysion® assay kits, think what oncoFiSH bladder and the Ikoniscope can do for your lab's productivity!

### **fastFiSH® amnio** Automate AneuVysion® analysis

Automate Abbott AneuVysion® for accurate prenatal diagnosis of genetic disorders using the Ikoniscope. FDA-cleared for prenatal diagnosis of common chromosomal abnormalities.

### **Ikonisoft® explorer** Automate cell suspension FISH slide analysis

Define your own scanning and analytical parameters for hematopathology and other cell suspension FISH applications—up to six separate channels and six fluorescent stains. *For Research Use Only. Not for use in diagnostic procedures.*

## Don't FISH in house?

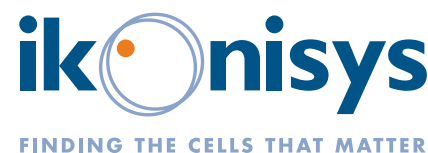
Get the benefits of our FISH expertise by sending your samples to our fully accredited Ikonisys Clinical Laboratory.

## Do more with Ikoniscope automation

By changing how you FISH, your lab will be more productive and efficient. And you can focus on what's important—interpreting results. To learn more, visit [www.ikonisys.com](http://www.ikonisys.com), email us at [products@ikonisys.com](mailto:products@ikonisys.com) or call **866-456-6479**. Ask for an onsite demo!

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