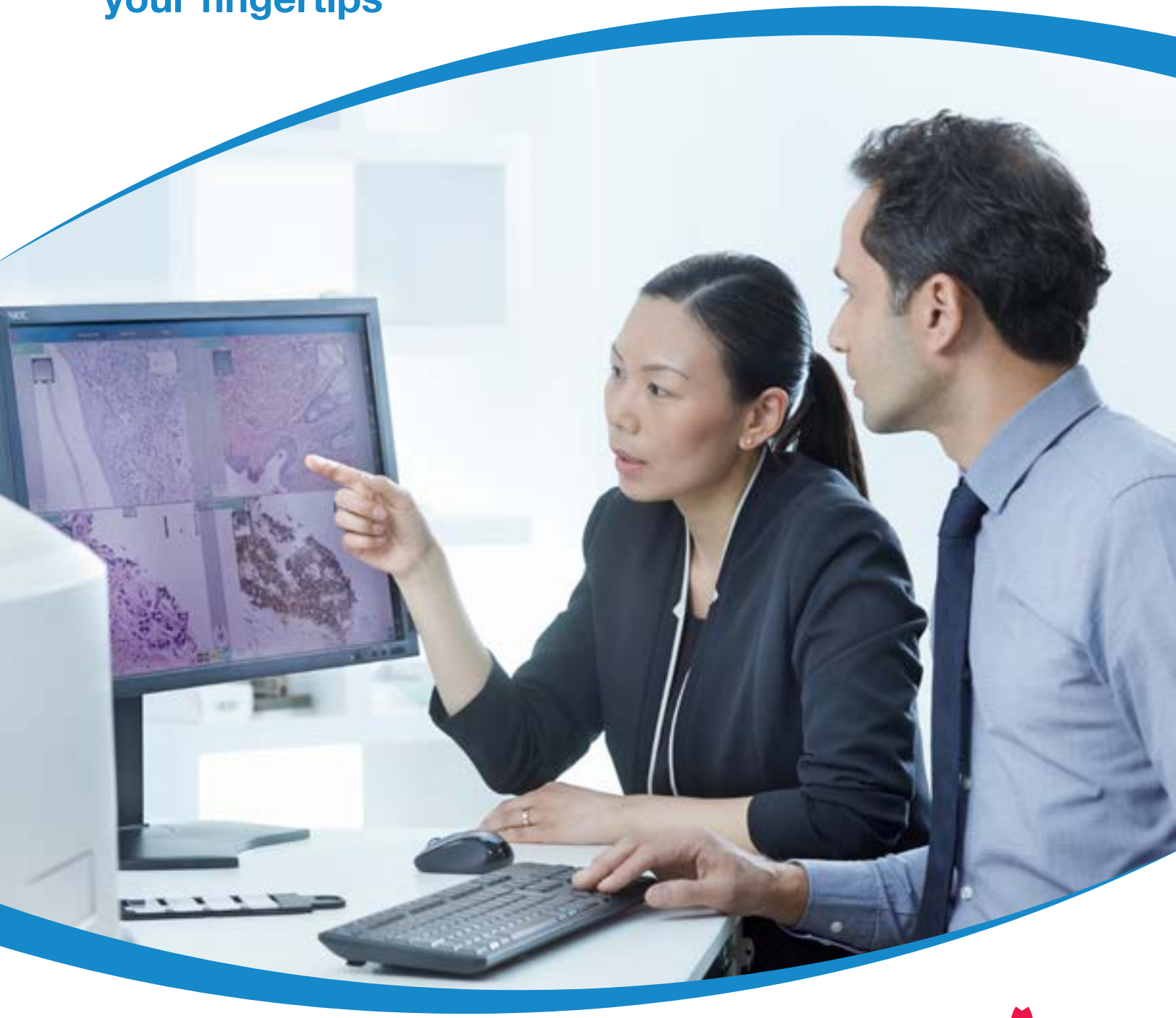
VisionTek®
Digital Microscopes

Remote, real-time live slide review at your fingertips



continuous innovation for pathology

SAKURA®

The most versatile digital microscopes for telepathology and telecytology

The VisionTek® M6 Digital Microscope and the VisionTek® Digital Microscope are robotic imaging systems that pathologists can use like a conventional microscope to simultaneously live review up to 4 slides with a time to view under 17 seconds.

The VisionTek M6 Digital Microscope is equipped with six magnifications (2.5x, 5x, 10x, 20x, 40x, and 63x) and has automated control of stage, focus and illumination. This satisfies needs for intraoperative and second opinion consultation of anatomical pathologists, cytopathologists and hematopathologists, while providing additional value for teaching and tumor board reviews.

The VisionTek Digital Microscope is equipped with four magnifications (2.5x, 10x, 20x and 40x) and has automated control of stage, focus and illumination to satisfy needs for intraoperative and second opinion consultation of anatomical pathologists.

Both systems are operated by software that can remotely control them through a network connection (intranet or internet) to share live images between multiple viewers.

Both digital microscopes can rapidly scan[1] single or multiple Z planes of partial slides (PSI™) or whole slides (WSI) for archiving and sharing, making it a truly versatile tool for pathologists.

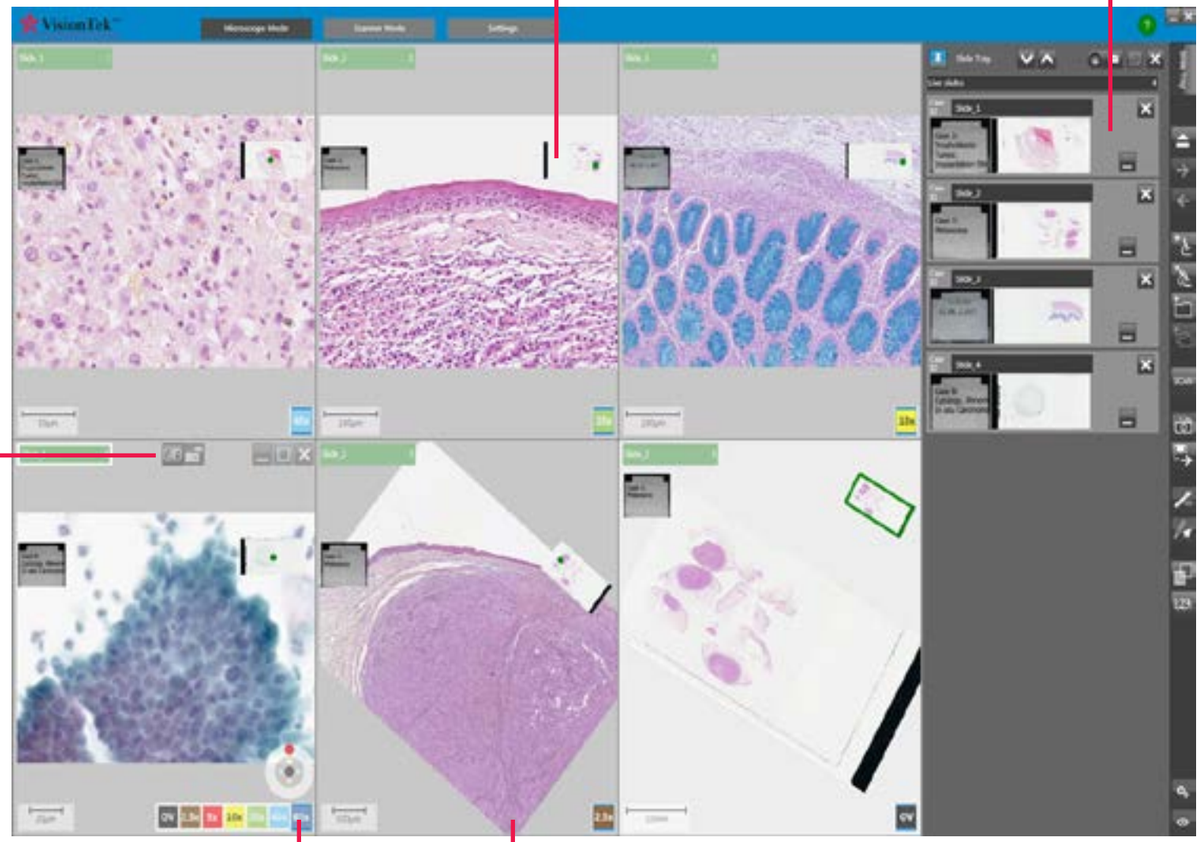
Product highlights include:

- Start reviewing slides under 17 seconds, time critical for intra-operative consults
- Robotic control of the microscope with a mouse including stage, focus, magnification, and illumination, just like you control a conventional microscope
- Review up to 4 live slides and 12 scanned slides simultaneously for case or comparative review
- Mark a field of view and review it at different magnifications at the same time
- Detect subcellular and nuclear details with a true 40x objective
- Get a spectacular first overview of cytology slides with the needed true 5x objective
- Leverage six slide magnifications (2.5x, 5x, 10x, 20x, 40x, 63x) to review slides your preferred way
- Preserve depth details of your cytology slides using rapid multiple focal plane scanning[1]
- Add valuable information to the image such as annotations and measurement

[1]The snapshot, partial scan, and whole slide scanned images are for research use only (RUO) in the USA.

Easy-to-use and intuitive software interface

The VisionTek® Live and the VisionTek® Viewer Software provides all the capabilities of your conventional microscope and more including the ability to take snapshots, review multiple slides at the same time, cloning slides, add measurements and annotations, or rotate images for adjusting orientation.

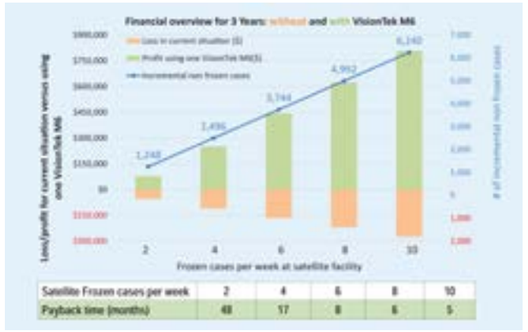


Key applications

Intraoperative consultation

Gain valuable time and reduce costs

VisionTek Digital Microscopes enables remote review in real-time of frozen sections and rapid on-site evaluation (ROSE). You can now review slides from anywhere for cellular content and adequacy of fine needle aspiration (FNA) smears, as well as biopsy touch preps.



Satellite Frozen cases per week	2	4	6	8	10
Payback time (months)	48	17	8	6	5

Traveling to the same satellite facility (2, 4, 6, 8, or 10 times per week); Satellite facility is 10 miles away (round-trip 20 miles; Travel time is 2 hours round-trip; When a VisionTek M6 is used, the pathology assistant travels to the satellite facility instead of the pathologist.

Increase billable hours

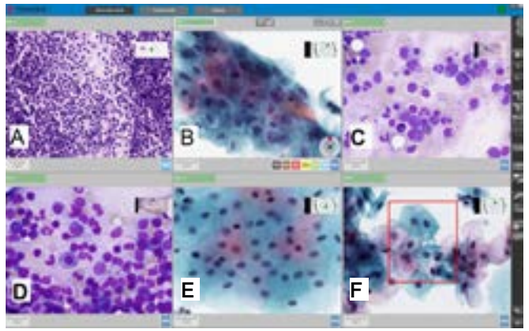
When used for remote satellite consults from the convenience of your office, an investment in VisionTek Digital Microscopes creates more time for routine case review. An increase in billable hours, improved profitability with a short payback time on your investment can be achieved. For example, with just 10 satellite frozen cases per week, a practice can gain $800,000 in incremental billable revenue over three years with a payback time of just 5 months[2].

[2]"Cost-Effectiveness Of Remote Live Digital Imaging For Intraoperative Consults Using Frozen Sections", Poster presented at the Annual Meeting of the National Society of Histotechnology, 2015

Rapid remote slide review

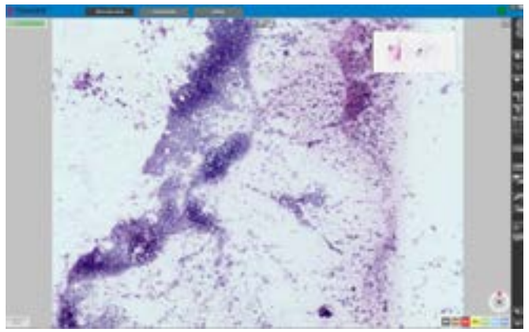
Technologists can load up to 4 frozen section slides, FNA smears, or biopsy touch preparations including non-coverslipped slides before notifying the pathologist or cytopathologist located anywhere to review the slides.

The pathologist or cytopathologist can start reviewing slides 17 seconds after they have been loaded using a secure remote connection with any PC/MAC, tablet or mobile phone.



High resolution

Easily detect subcellular and nuclear details for better differentiation of cells using the 40x objective (A) and digital 63x magnification (CDEF).



Get a fantastic first overview of cytology slides with the needed true 5x objective.

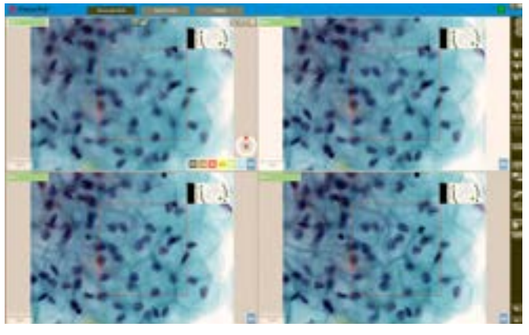
Implement a mobile microscopy solution for remote ROSE of FNA smears

Use the VisionTek® Cart for Mobile Microscopy to leverage reviewing slides remotely and receive reimbursement for your expertise. Have a cytotechnologist be mobile and close to the patient in the surgery suite for immediate review. The cart is custom designed to carry a conventional microscope for emergency backup and utilities for the daily use.

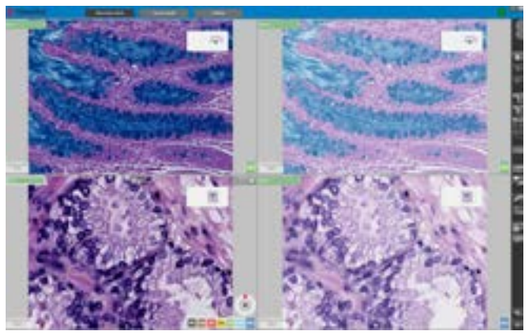
Second-opinion consultation

Eliminate time, costs, and risk from shipping slides

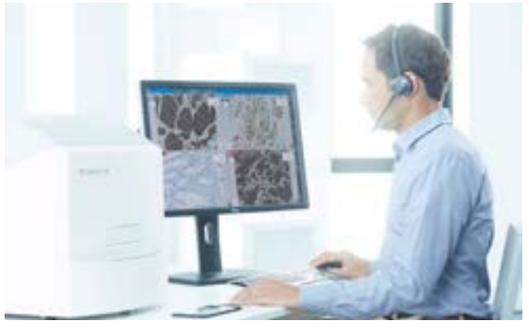
The VisionTek M6 Digital Microscope enables second-opinion consults on the same day, eliminating waiting time and costs associated with shipping slides. Shorten time to consult with colleagues from a week to one day.



- Save on additional and expensive courier shipments while eliminating the risk of slide breakage
- Pass control of the microscope to your colleague for a true interactive consult and regain control when desired
- Remotely focus real-time and look through multiple planes for best assessment, live or on scanned slides



- Adjust illumination and gamma display control for best image contrast, especially useful in overstained specimens



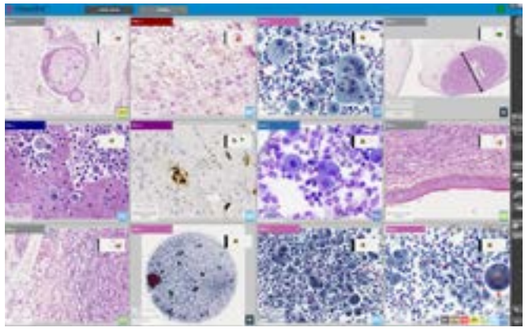
- Simultaneous review up to 4 slides in their best focal plane, a huge advantage when performing consults on IHC and ISH

Teaching and tumor board review

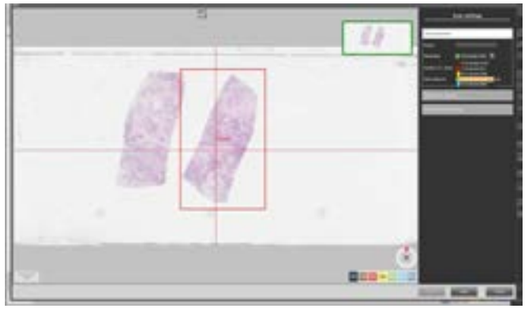
Advance pathology instruction and tumor board reviews with fully interactive slide sharing

Replace multi-headed microscopes and pass or regain control of the VisionTek M6 Digital Microscope for a truly interactive, more efficient and appreciated learning experience.

- Share slides with a tumor board panel, reducing time for preparation of presentations and enabling sharing of information on whole slides or cases



- Leverage the full range of slide magnifications (2.5x, 5x, 10x, 20x, 40x and 63x) to enrich the positive learning experience of your training sessions in anatomical pathology, cytopathology or hematopathology



- Rapidly scan[1] whole slides or areas of interest from 5x to 40x, preferably in multiple z-planes for any occasion, such as remote student teaching, conferences or research

Specifications

Product names	VisionTek® M6 Digital Microscope VisionTek® Digital Microscope
Product codes	9006 9000
Optics	VisionTek® M6 Digital Microscope: EC Plan NeoFluar® 5x/0.16 NA, 20x/0.5 NA, 40x/0.75 NA VisionTek® Digital Microscope: EC Plan NeoFluar® 2.5x/0.075 NA, 10x/0.3 NA, 20x/0.5 NA
Magnification	VisionTek® M6 Digital Microscope: Overview image 0.45x High-resolution live magnifications: 2.5x, 5x, 10x, 20x, 40x, 63x VisionTek® Digital Microscope: Overview image 0.45x High-resolution live magnifications: 2.5x, 10x, 20x, 40x
Illumination	Illumination white LED, with Köhler illumination; User illumination control
Z-Stage autofocus	High-precision mechanical focus; motor controlled via mouse; Resolution 0.2 µm; IR beam and image-based autofocus mechanisms work together to focus automatically after each XY stage movement
XY-Stage automation	Automation XY stage accommodates 4 standard microscope slides on a slide carrier and controlled via mouse
Slide loading	Slide carrier accommodates up to 4 standard microscope slides
Label/barcode	1D and 2D barcode recognition
Image detection	VisionTek M6 Digital Microscope: • Overview camera resolution at 0.45x = 12 µm/pixel • Live view and scanning camera resolution at 5x = 1.10 µm/pixel, at 20x = 0.275 µm/pixel, at 40x = 0.138 µm/pixel VisionTek Digital Microscope: • Overview camera resolution at 0.45x = 12 µm/pixel • Live view and scanning camera resolution at 2.5x = 2.20 µm/pixel, at 10x = 0.550 µm/pixel, at 20x = 0.275 µm/pixel
Scan speed	VisionTek M6 Digital Microscope: 1.5 min. for 15 x 15 mm (at 0.275 µm/pixel) VisionTek Digital Microscope: 3.0 min. for 15 x 15 mm (at 0.275 µm/pixel)
Workstation	Operating Systems: Microsoft® Windows® 7 Professional, 64-bit Processor Intel® Core i7 or higher; Hard disk 128GB +1TB 3.5”; 1000 Base-T Ethernet Intel®, Pro/1000 PT server network card; Monitor 24-inch 1920 x 1200 pixel resolution; DisplayPort™ or DVI; VisionTek Software

Included accessories	VisionTek® Slide Carrier; 2 units
Dimensions	15.9 (W) x 20.5 (D) x 17.9 (H) inches 40.5 (W) x 52.0 (D) x 45.5 (H) cm
Weight	77.2 lbs (35.0 kg)
Power requirements	85-264 VAC, 47-63 Hz, single-phase; Power cord connector: IEC/EN 60320-1/C14; NOTE: Universal power supply
Power ratings	100 V operation: 4 A; 240 V operation: 2 A

Accessories

Product code	Product name and quantity
9011	VisionTek® Slide Carrier; 1 unit
9009	VisionTek® Uninterrupted Power Supply (UPS), 10 min; 1 unit
9012	VisionTek® Cart for Mobile Microscopy; 1 unit
9013	VisionTek® Cart for Mobile Microscopy, Customizable; 1 unit

[1]The snapshot, partial scan, and whole slide scanned images are for research use only (RUO) in the USA.

A long tradition of excellence

Known for best-in-class automation and reliability Sakura Finetek remains a privately-held company in business for over 160 years. Sakura Finetek has achieved its success and solidified its reputation by providing timely, ingenious solutions to the real challenges laboratories face on a day-to-day basis.

Our rich history has given us a thorough understanding of technology, quality, reliability, value for money and our customers' requirements. We use this knowledge to passionately develop products that anticipate developments in both technology and market needs.

Sakura Finetek USA, Inc. (SFA) is based in Torrance, California. Functions covered at this facility include sales and marketing, service and technical support, R&D, and manufacturing.

SFA is an ISO 13485 certified manufacturer and supplier. As one of the two global manufacturing and R&D sites, SFA develops instruments and reagents into system solutions and secures our innovation with a steady stream of patents.

In addition to supporting the U.S. marketplace, SFA is also responsible for Canada, Mexico, Central and South America and serves these markets with a network of local distributors.

With the worldwide headquarters in Japan and regional offices in Japan, The Netherlands and the U.S.A., the global strategy of worldwide representation has been fulfilled to guarantee our customers the best service and support.

Our organization is developing, professionalizing and growing continuously, and thus maintaining its position as a trustworthy and valuable partner in histopathology.

Please visit our website www.sakuraus.com

Sakura Finetek USA, Inc., 1750 West 214th Street
Torrance, CA 90501 U.S.A.

SAKURA®

0002762-01 Rev.B