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20 years research and development



Easy Operation High-accuracy Imaging

20 years of technical upgrade experience helps develop the latest series of the best quality KFBIO products. KF-PRO series digital pathology slide scanners have excellent performances in its movement precision, focus precision and image processing precision. High-accuracy WSI meets the needs of traditional slide viewing method, and the high-precision demands of AI-assisted image analysis.

As the first batch of Chinese digital pathology slide scanners, KF-PRO series have been installed in more than **2000 hospitals** and labs, and scanned more than **50 million** slides.

Application Scenarios: Telepathology, Al analysis, pathology department



Five Functions

3 Colors Independent Process

K-SCP color processing helps reproduce the original color, color saturation, color temperature, color contrast and color compensation of different monitors. High-accuracy Imaging and high-accuracy color representation make every slide trustworthy.

6 Different Capacity

KF-PRO series digital pathology scanners of 1~400 slides meet different needs of different workload. They support different scanning modes of different kinds of slides. Software are self-developed and equipped for digital slides storage and management, telepathology and scientific research.

25s High-speed Scanning

It only takes 25s to scan a 15mm*15mm area at 20x magnification. It's quite suitable for rapid frozen section consultation, high-throughput scanning and real-time AI data acquirement.

20nm Precise Control

KF-PRO series digital pathology scanners adopt line scanning technology and grating ruler position method to realize high-precision movement control at nanometer level. It makes every sample process quickly and accurately and realizes more stable imaging.

80x Magnification

It uses top optical configuration to improve the light source, objective lens, cameras, optical path, etc. It greatly improves resolution. The structure and details of cells are clearly visible. The edge of cells is sharp and the cell structure is clear.

High-quality model for clinic and scientific research

Al-assisted Analysis High-matched Model





High Speed

25s scanning (15mm*15mm,20x), rapid frozen section diagnosis, over **200,000 cases**

Z-stack Scanning



Support **Z-stack** scanning to fuse a high-quality slide, support single layer viewing



Cloud Configuration

Provide free cloud for storage and one-click sharing



Support Different Slides

Support precise scanning of light color staining, uneven thickness, small tissue slides



Support Different Sizes

1*3 inch, 2*3 inch, 6*8 inch, automatic recognize tray model to adjust parameter



High Flexibility

Support small and large batch



High Stability



Electric condenser, strong light source and high-sensitive camera ensure excellent scanning performance



scanning for remote consultation



Al-enhanced Imaging

Slides recognition improvement, color contrast of cell nucleus enhancement, image recognition accuracy improve-



Multi-site Management

Central archive management for different working scenarios and centralized AI analysis

Application Scenarios



Rapid remote frozen section diagnosis, complex cases, multi-discipline consultation, applied in top hospitals, medical institutions, laboratories



Precise scientific research collection, new development



data

Digitize and archive highquality slides for slide construction, education resources, important cases archive



Customized Al-assisted scanning to preprocess the slide images



Batch Al-assisted diagnosis



Telepathology consultation, multi-discipline consultation, complex cases archive



Application Scenarios

Data analysis and academic exchange



Scientific research data archive and management

High stable model for clinic, education and research

High-throughput model for large hospitals and labs





High Speed

15mm*15mm, 20x, 15s only



Top Accessories

OLYMPUS top objective lens CHROMA narrow band filter



Stable Scanning

Magnetic suspension motor drive 99.85% slides scanned successfully



High Precision

50nm positioning accuracy Support 80x magnification



High Fidelity

High resolution 0.25 um/pixel (20X), 0.125um/pixel (40X) WSI scanning



Professional Services

Customize products quickly Provide in-time support





Daily use for pathology labs and hospitals



Remote sharing and consultation for scientific research



Efficient slide management, archiving and storage



Customized Al algorithm to assist diagnosis



High Speed

15mm*15mm, 20x, 15s only



High Compatibility

Support bright-field and fluorescence Support different image format



Stable Scanning

Magnetic suspension motor drive 99.85% slides scanned successfully



High Fidelity

High resolution 0.25 um/pixel (20X), 0.125um/pixel (40X) WSI scanning



Intelligent Scanning

Automatic one-click scanning Customized Al algorithm



Professional Services

Customize products quickly Provide in-time support

Application Scenarios



Large throughput for pathology labs and hospitals



Remote sharing and consultation for scientific research



Efficient slide management, archiving and storage



Customized Al algorithm to assist diagnosis

Full Digital Pathology Labs Basic Model





Full Automatic

One-click scanning, read slide bar code automatically, upload classified slides to storage server



High Stability

Record: Scan 4600 continuously without



Intelligent Scanning Mode Switch

Switch scanning parameter and mode **automatically for** different slides



Automatic Image Quality Grade

Grade image quality **automatically** before archiving



Slide Protection Programme

Push out or skip the nonstandard slides **automatically** to avoid getting stuck



Big Data Efficient Management

Centralized data storage, efficient classification management, bind to patient information automatically, graded storage

Application Scenarios



Full digital pathology department construction



Large batch Al-assisted scanning, sub-specialty data collect Al analysis systems Annotation



Artificial Intelligence data collection and storage, large data annotation bank construction



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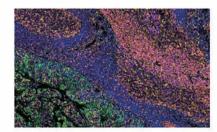
Various digital applications in experiment

Fluorescence Scanning Upgrade Choice

Support Whole Series

KF-PRO series can be upgraded to equip fluorescence channels. Fluorescence scanning speed: 8 slides/h (3 channels). 2*2 px image fusion function, high sensitivity. Short exposure time realizes weak light detection to protect sample.

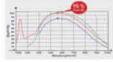
Latest 1.2 inch matrix CMOS chip. Target surface size: 6.5 um. Higher quantum efficiency.



Top Fluorescence Camera

Active cooling sCMOS fluorescence camera. Low SNR. High resolution.





Support Bright-filed and Fluorescence

Support bright-filed and fluorescence scanning; Standard: 3 or 6 fluorescence channels. 10 channels at most.

Approved registration certificate for fluorescence scanner



Top Filters

Quick filter switch, wide spectral region, excellent fluorescence imaging performance. Separate fluorescence channels efficiently. Large information density but high-quality data meanwhile.





Several LED independent light sources to fit every fluorescence channel

• Application Scenarios •



Multi-color immunofluorescence scanning



FISH scanning and analysis



Applied in scientific research: brain science, liver, stem cells, drug development



Cancer microenvironment analysis/ Spatial transcriptome analysis

KFBIO 江丰生物

DIGITAL PATHOLOGY SLIDE SCANNER (FLUORESCENCE)

KF-FL SERIES

Capacity: 5/20/120/400 slides

Mode: Bright-field&fluorescence

Lightning: LED light source

Channel: 8 channels at most

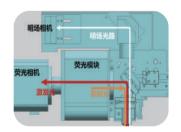
Algorithm: Fluorescence AI analysis algorithm



▲ KF-FL-400



Key Technical Advantages



Flexible Configuration

Support bright-field and fluorescence scanning Support different channel purchase



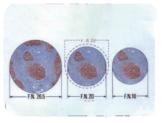
Convenient Maintenance

Removable color filter Easy to maintain



Durable In Use

LED light source 20000+ hours lifetime

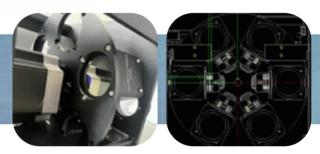


Large Field of View

26.5mm field of view Reduce shoot and exposure time

Key Advantages

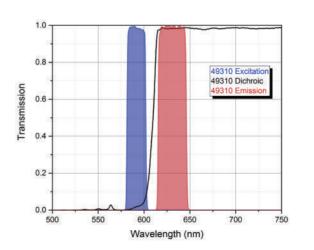




Independent LED light source avoids cross color. It features with its high contrast, high brightness, no drift and no cross color. It's more suitable for specific fluorescence channel.

CHROMA narrowband filter is equipped. The minimum spectral band resolution reaches 10nm.

8 channels, 8 filters at most



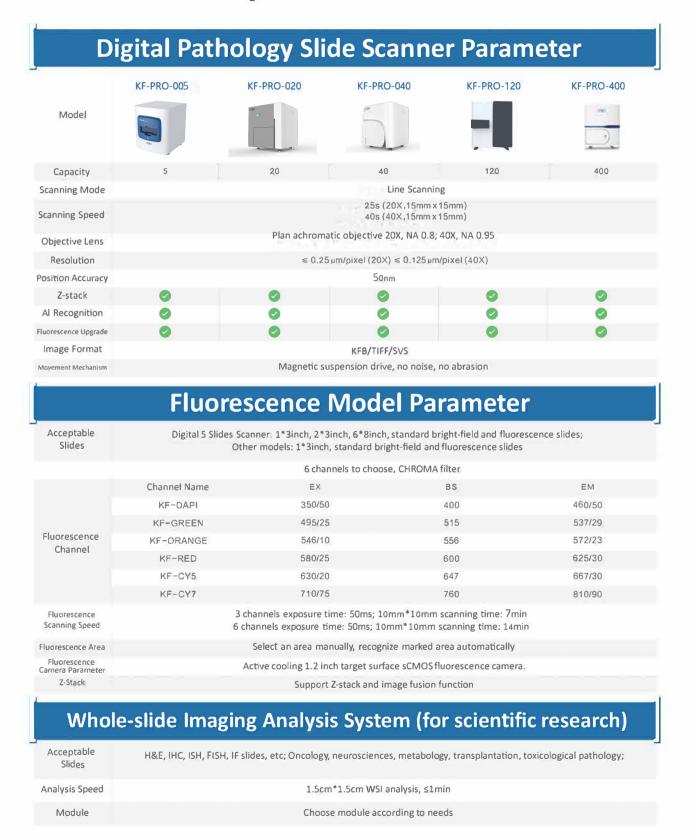


FISH filters High contrast



General filters Low contrast

Choose a product that meets the needs of your lab





Team and Service

About KFBIO

KFBIO has been devoted to digital pathology for ten years. KFBIO has developed a innovative end-to-end digital pathology solution including pathology slides scanning equipment, pathology routine equipment, telepathology platform, Al analysis systems, etc.

Technical Strength

Chinese Thousand Talents Plan: 2 talents; Over 50% R%D staff; 267 patents, 95 invention patents

Market Distribution

Strong agents network; Cover Asia, Europe, America, etc.

Top Clients Over 2000 hospital clients































Technology partnership: Intel, Nanjing University of Science and Technology, China Maternal and Child Health Association, Tokyo Institute of Technology





Free 50GB cloud space for storage



Digital pathology quality control and training cources



Online pathology slides sharing and discussion webinars



Bright-field and fluorescence scanning for scientific research

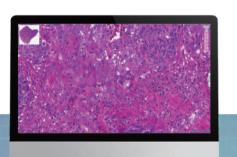


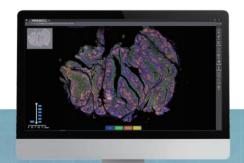
K-VIEWER Image Viewing Software

K-Viewer offers to browse and annotate the digital slides for the convenience of pathologists to diagnose the cases. It allows pathologists to quickly access slides or cases locally at the desktop or remotely, on a computer, smartphone or tablet device. K-Viewer gives customized viewing options for different customers to deliver optimal performance and suit the device you choose. Its intuitive interface and customized workflows provide a consistently excellent viewing experience.

Real-time, Security, Stable

- >>Real-time Slide Image Collection and Transmission
- >>Safe, Stable and High Fidelity Data Transmission
- >>Local PC and Mobile Phone Viewing Are Available







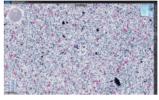
Software Functions

- >>Zoom, rotation and partial magnification
- >>Real time view and mark multiple images synchronously
- >>Parameter definition of image comparison, color channel, auto-play etc
- >>Marking tools of images and words, measure the marked areas automatically

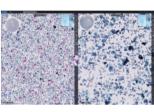
Operating Modules

Local Image Viewing









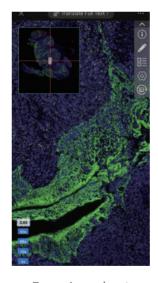
Mark and annotate

Partial zoom

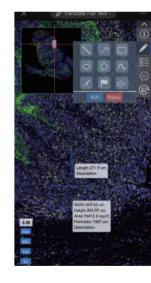
Slide parameter adjustment

Synchronous viewing

Mobile Image Viewing









Zoom in and out

Mark and annotate

Automatic measure

Slide information

• Application Scenarios •



Telepathology for both classroom and online education



Flexible presenter role for students



Instant K-Viewer: an excellent viewer for remote slide viewing



KFBIO Slide Management System

It makes it possible to manage a large number of digital slides within a short time. It allows pathologists to get access to slides immediately after being scanned so that slides can be shared or annotated remotely. It greatly reduces your workload to manage slides.

Seamlessly connect with digital pathology slide scanner to provide the most comfortable experience for you.

>> Share

Use the link or QR code to share the digital slide to others

>> Speed

Upload digital slides automatically or manually quickly

>> Integration

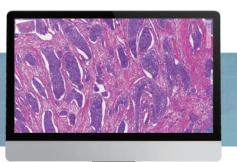
Integrate with HIS and LIS for the convenience of slide sharing and management

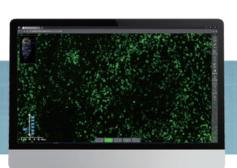
>> Convenient

Rapid retrieve, edit and annotate the digital slides

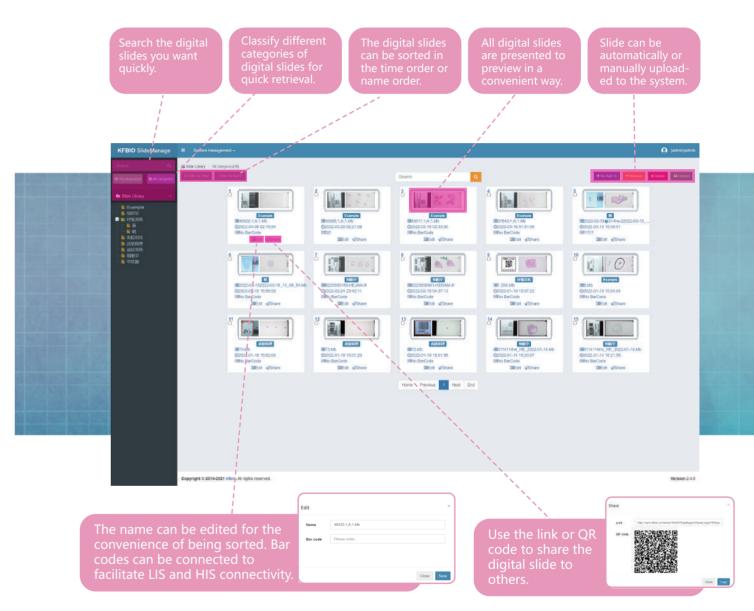
>> Security

Privileged access management is properly applied in the system to secure the sensitive data.





Manage your digital slides in the most convenient way



• Application Scenarios •



The indispensable software for digital pathology slide scanners



Large-throughput digital slides management in labs or hospitals



Whole digitization of pathology labs or departments



TelepathologyPathology Remote Consultation Platform

Innovated and perfected multiple times by KFBIO, the KFBIO Pathology Remote Consultation Platform has succeeded in greatly simplifying pathologists' workflow and facilitating pathologists in diagnosing remotely and viewing slides without the limitation of time and place. It covers the function of diagnosis management, frozen section management, case collection, data statistics and real-time connection from different sites.

Diagnose and view slides anytime, anywhere. Get right answers efficiently with this telepathology platform to share and discuss the digital slides.



Real Time

Rapid frozen consultation, real-time audio and video for diagnosis, seamless reports delivery



High Stability

Stable communication and data transmission, quality control, data management



Share

Remote education, discussion and consultation, pathology training and assessment support



High Security

Data transmission encryption, safe user login, sensitive data protection



Convenient

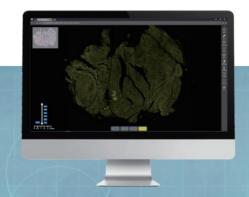
One-click view slides with link or QR code, online zoom and annotate slides, HIS integration



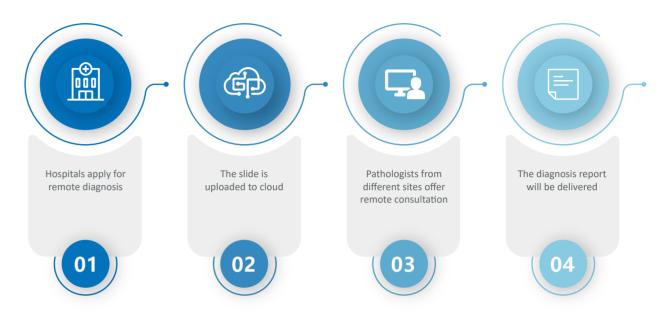
Service

Fast customization, free upgrade, in-time technical support and after-sales service





Pathology Remote Diagnosis Workflow



Security Guarantee



Application Scenarios

Routine and difficult cases consultation

Pathologists discuss and diagnose routine difficult cases remotely via online platform to help analyze the medical history, the current situation and the future treatment plan for patients.

Cytology, TCT IHC consultation

Pathologists analyze and diagnose the cytology, TCT and IHC slides together remotely. It improves the sample quality and cell detection sensitivity.

Intraoperative rapid frozen section consultation

Pathologists diagnose the frozen sections sampled from the surgery in a short time to provide reference diagnosis opinions to the surgeon for the next step of surgery.

MDT multidisciplinary consultation

The group seminar composed of experts from multiple departments is held regularly to discuss the best treatment plan for different diseases and different patients.