



technology for health.

www.kfbiopathology.com

Digital & Telepathology



20 years research and development

Application Scenarios : Telepathology, AI analysis, Pathology department



HE



TCT



ISH/FISH



IHC

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 & labs, and scanned more than 50 million slides.

Five Functions

6 Different Capacity

KF-PRO series digital pathology scanners of 1~1200 slides meet different needs of deifferent workload. They support different scanning modes of different kinds of slides. software are self-developed & equipped for digital slides storage and management, telepathology & scientific research.

20nm Precise Control

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

3 Colors independent Process

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

25s High-Spped 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.

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.








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Choose a product that meets the needs of your lab

Digital Pathology Slide Scanner Parameter

Model					
Capacity	5	20	40	120	400
Scanning Mode	Line Scanning				
Scanning Speed	25s (20X, 15mm x 15mm) 60s (40X, 15mm x 15mm)				
Objectives Lens	Plan achromatic objective 20X, NA 0.8; 40X, NA 0.95				
Resolution	$\leq 0.5\mu\text{m}/\text{pixel}$ (20X) $\leq 0.25\mu\text{m}/\text{pixel}$ (40X)				
Position Accuracy	20nm				
Z-Stack	✓	✓	✓	✓	✓
AI Recognition	✓	✓	✓	✓	✓
Fluorescence Upgrade	✓	✓	✓	✓	✓
Image Format	KFB/TIFF/SVS				
Movement Mechanism	Magnetic suspension drive, no noise, no abrasion				

Fluorescence Model Parameter

Acceptable Slides	Digital 5 Slides Scanner: 1*3inch, 2*3inch, 6*8inch, standard bright-field and fluorescence slides; Other models: 1*3inch, standard bright-field and fluorescence slides			
	6 channels to choose, CHROMA filter			
Fluorescence Channel	Channel Name	EX	BS	EM
	KF-DAPI	350/50	400	460/50
	KF-GREEN	495/25	515	537/29
	KF-ORANGE	546/10	556	572/23
	KF-RED	580/25	600	625/30
	KF-CY5	630/20	647	667/30
	KF-CY7	710/75	760	810/90
Fluorescence Scanning Speed	3 channels exposure time: 50ms; 15mm*15mm scanning time: 8min 6 channels exposure time: 50ms; 15mm*15mm scanning time: 16min			
Fluorescence Area	Select an area manually, recognize marked area automatically			
Fluorescence Camera Parameter	active cooling 1.2 inch target surface sCMOS fluorescence camera			
Z-Stack	Support Z-Stack and image fusion function			

Whole-Slide Imaging Analysis System (for scientific research)

Acceptable Slides	H&E, IHC, ISH, FISH, IF slide, etc; Oncology, neurosciences, metabolism, transplantation, toxicological pathology
Analysis Speed	1.5cm * 1.5cm WSI analysis, $\leq 1\text{min}$
Module	Choose module according needs

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