

PA53 digital slide scanning system

Quality digital solution able to meet requirement of all laboratories

PA53 Scanning series is the a new digital slide scanning system solely developed by Motic based on our high quality microscope PA53. By stitching together high resolution images captured with high NA objective, complete information of any traditional samples slide are digitized and presented as a "Whole slide image WSI". No matter it is traditional paraffin sectioned pathology slides; frozen section slide; or liquid biopsy cell suspension slides or microbiology smear, PA53 scanning system can scan and stitch the image with standard mode, high definition mode, with extended focus or z-stack stitched mode. It got no limitation on whether the sample are botany sample, zoology sample, or from human tissue sample.



PA53 BIO SCAN

AP53 Bio Scan mainly meant for transmitted light scan. Various contrasting method can be used for scan and stitch, from Phase contrast to polarizing contrast..... Scanning of transparent sample is not a problem now.



PA53 FS6 SCAN

PA53 FS6 Scan, this scanning platform provides full flexibility on scan and stitch of different fluorescent sample. We can select the use of HBO illuminator or high quality LED illuminator, using combination of different fluorochromes; with or without extended focus (excellent solution for FISH), or z-stacked



"Benefit of using microscope base digital slide scanning system like PA53 Scan"

- Better quality as it is completed optical path with full Kohler illumination setting
- High precision stage allow physical relocation of Region of Interest and rescan with high resolution high N.A. objective.
- No limitation on the use of objective, super high resolution scan with oil immersion objective becoming possible
- No limitation on the use of contrasting methods, phase contrast, Polarizing contrast, etc... can be used. To scan sample without staining becoming possible."



PA53 Scan series using a specially designed tube with built-in 1.2 Mpixel camera for focusing and a 5 Mpixel high resolution sCMOS camera for imaging.

Lumos LED is recommended for the scan which allow stable and homogenous illumination with very low consumable cost. HBO mercury burner can also be used if preferred.

100mm x 100mm high precision motorized stage with smallest step size of 10nm (repeatability better than 200nm) is used, relocation even with 100x objective is not a problem.

Motorized 5x position nosepiece to allow smooth switching of objectives.

PA53 Scanning series		PA53 BIO SCAN	PA53 FS6 SCAN
Trinocular tube	special scanning trinocular tube with 2x built-in camera	●	●
Eyepieces	Adjustable Wide-Field(FN25) Eyepiece 10X/FN25	●	-
	Adjustable wide-field (FN 22) Eyepiece	○	●
Intermediate piece	PA53 series intermediate piece	●	-
Main body (upper)	Main upper mot body PA53 FS6 Scan	-	●
	Main upper mot body PA53 Bio Scan	●	-
3D Profiler controller	3D-Profiler control box/pad	●	●
Objective Nosepiece (Mot)	Motorized Quintuple Nosepiece completed	●	●
Fluorescent attachment	PA53 FS6 Scan Epi-fluorescent attachment with 6x position filter turret	-	●
Transmitted light Halogen illuminator	100W Halogen lamp housing	●	●
Halogen bulb	100W Halogen bulb	●	●
High quality fluorescent LED illuminator with control panel	Lumos LED illuminator with 3x colour LED, external control for controlling intensity of each of the LED is included	-	●
Motorized stage	Motorized Stage 100mm x 10mm (with Light shutter) completed	○	●
	Controller box (with light shutter)	○	●
	Motorized Stage 100mm x 10mm (without Light shutter) completed	●	-
	Controller box (without light shutter)	●	-
	Specimen holder (for scanning application)	●	●
	XY controller joystick and controller box for stage	○	○
Objectives (Sapo, good for FL too)	Plan UC 2X/0.05, W.D=7.2mm	●	●
	HPlan SAPO 4X/0.13,W.D=17.3mm,CG=0.17	○	○
	HPlan SAPO 10X/0.3,W.D=11.7mm,CG=0.17	●	●
	HPlan SAPO 20X/0.5,W.D=2.2mm,CG=0.17	●	●
	HPlan SAPO 40X/0.75,W.D=0.7mm,CG=0.17	●	●
	HPlan SAPO 100X/1.3 oil,W.D=0.1mm,CG=0.17	●	○
Long Working distance condenser	LWD N.A. 0.63 WD 10.7mm Condenser	○	○
Condenser	Push slider condenser 0.9/1.25	○	○
	Phase contrast turret condenser	○	○
	N.A. 0.9/1.30 swing-out condenser	●	●
	N.A. 1.25 Abbe Condenser	○	○
Fluorescent filter set with cube	Fluorescent filter set (AT-DAPI/Hoechst/AlexaFluor 350)	-	●
	Fluorescent filter set (AT-EGFP/FITC/Cy2/AlexaFluor 48)	-	●
	Fluorescent filter set (AT-TRITC/Cy3/TagRFP/AlexaFluor 546)	-	●
	Fluorescent filter set (AT - Cy5/AlexaFluor 647/Draq5/CY5)	-	○
	Fluorescent filter CUBE	-	●
Diffuser		-	●
PA-25ND25 ND filter		○	○
Transmitted light filter	Yellow filter	○	○
	Green filter	○	○
	藍玻璃濾色片	○	○
	Neodymium (contrast enhancement) filter	○	○
	Blue conversion filter	○	○
LBD filter (White balanced filter)		●	○
ND25 Neutral Density filter		●	○
ND6 neutral Density filter		●	○
Analyzer slider	360° Rotation analyzer Filter	○	○
Polarizer	Polarizer Filter	○	○

“ ● ” standard item , “ ○ ” Optional item, “ - ” Not Available