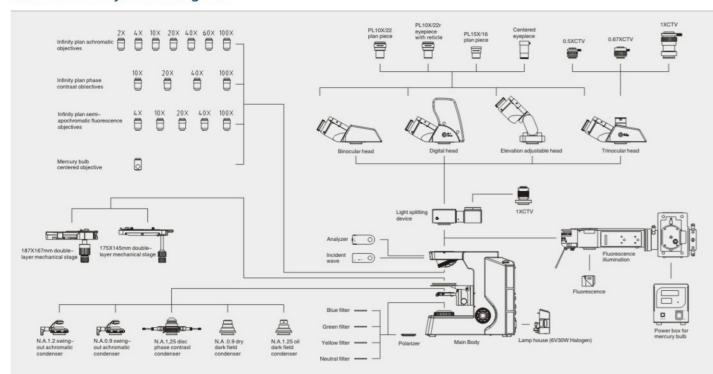
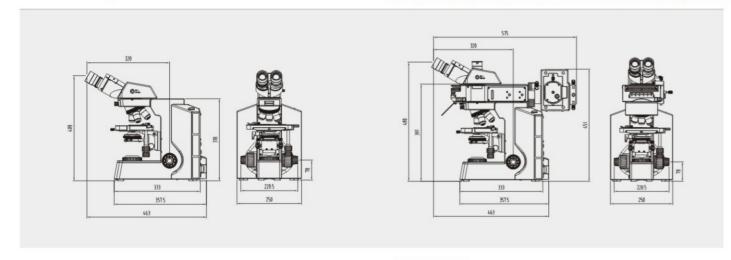
ICX40 LABORATORY BIOLOGICAL MICROSCOPE

ICX40 series system diagram



ICX40 biological model dimensions: mm

ICX40 fluorescence model dimensions: mm



i7

9001









ICX40 LABORATORY BIOLOGICAL MICROSCOPE

With excellent optical performance and stable system structure, CX40 is professional for biomedicine, pathological diagnosis and other science research.





RAYSCOPE

ICX40 Series Characteristics:

- Infinity color corrected optical system, new upgraded Koehler illumination system, presents a clear & bright micro-image under each magnification.
- Fire-new ergonomic design, steady system structure, easy operation, is suitable for various working environments.
- "Building blocks" design for combining multiple functions, fluorescence, phase contrast, polarizing, dark field attachments can be assembled on the basis of bright field observation.

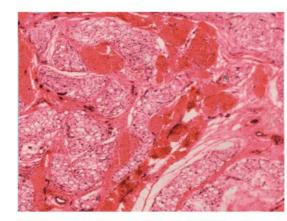


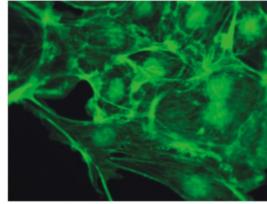
New structure design, optimized optical system

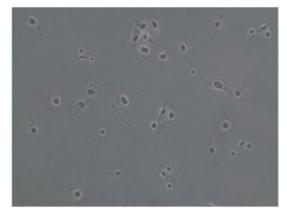


High rigidity body structure

Fire-new designed integrative Y-shaped body, all-metal diecasted under high pressure. High stability, no image dithering under high magnification observation, ensures the test precision of multi-channel fluorescence diagnosis.







Focus adjustment

Goaxial coarse and fine adjustment, according with ergonomics design, create the best comfort to operator.

Screwdriver placement

To make the best of the available space, placing a screwdriver within touch, improves your working efficiency.





RAYSCOPE

Koehler illumination system

6V 30W transmitted system, presents a bright and uniform field under every magnification.

Fire-new designed telecentric Koehler illumination system, working with N.A. 1.2/0.22 swing-out achromatic condenser, applies to 2X~100X observation.



Safe carrying design

The hole on the back of the body make it safe and easy when carry the whole microscope.



Movable working stage

175x145mm double-layer mechanical stage with operating handle in the right hand. Damped specimen retainer design, two slices can be put together for testing and analyzing comparatively.

187x167mm large double-layer mechanical stage, is made by oxidized metal. Moving range: 80x55mm, precision: 0.1mm, operating handle in the right hand or left hand, linear driving.



RAYSC OPE

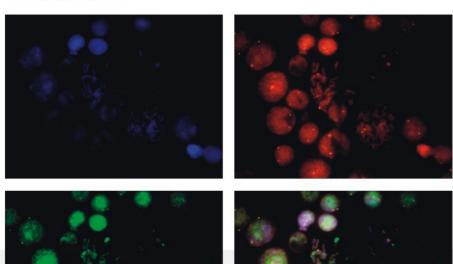
Disc switching mechanism for filters

Efficient illumination system

Semi-apochromatic fluorescence objectives

New professional infinity plan semi-apochromatic fluorescence objectives, the best choice for fluorescence observation. Aberration correction and large numerical aperture which is 25% bigger then ordinary objectives, present brighter and clearer image.

Adopting high quality environmental protection optical materials, show a excellent effect in fluorescence observation. With advanced multicoating wide-band technology, takes the obvious advantages in bandwidth and UV transmittance.



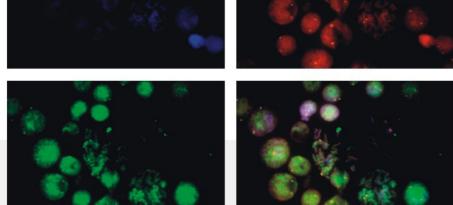
Newly designed high-precision disc switching mechanism, is easy to change filters. It guarantees the exact position of the switched filter, can be equipped with six fluorescence filters at most. Selecting driftless high-performance fluorescence filter system, ensures an accurate experiment result of FISH. High transmittance of spectrum without a cross color but a high S/N ratio, promotes dramatically fluorescence imaging contrast.

The filter with stray light elimination technology, presents high contrast between image and its background, achieves the best effect of observation.

IEX-40

High-graded SiO2 quartz, with the characteristics of refractory, corrosion-resistant and high UV through rate, makes the illumination more uniform and brighter. High temperature resistant composite plastic, with heat insulation, effectively prevent the heat of illuminatorfrom transferring to the body.

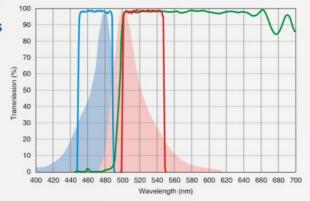
Alterable field diaphragm with adjustable center, effectively reduce the stray light to obtain the best observation effect.





Imported high performance fluorescence filters, high spectral transmission, good depth and gradient of spectral lines.

No cross color, high S/N ratio, high image contrast. Adopting stray light eliminating technology, high contrast between image and background, creates a perfect observation effect.



Power supply for mercury lamp

New digital power control system, displaying operating time and current value, clearly show you the working state of mercury lamp.



4 ICX-40 Biological Research Microscope

Professional fluorescence image acquisition system

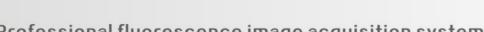


Imported research-grade cold CCD soft, with 1.4 mega pixels, 2/3" sensor size (diagonal), 12V DC high-efficiency semi-conductor-cooling system, perfectly restrain heat signal noise, eliminate dark current effect, greatly increase S/N ratio, and present a professional fluorescence image with high-resolution and high-definition. Adopting USB2.0 high speed transmission interface is convenient to connect with PC.



			Smart cool takes full advantages of V comprehensively supports for WinXF	,			
Camera	Model	Single-chip color CCD	interface with the characteristics of si and fast, offers a variety of powerful to				
	Cooling Mode	Semiconductor Refrigeration	can process and analyze any shaped				
	Sensor Size	2/3"	many professional image processing a	and analysis, including color			
mage Pickup Device	Effective Pixels	1.4 mega pixels	adjustment, image warping, mathematical morphology pr				
	Pixel Size	6.45m X6.45m	image enhancement, image overlay,				
	Scan Mode	Progressive Scan	recognition and so on. It supports for and processing and analysis about R	0 ,			
Microscope Adapter		Standard C-mount	And the function of geometric parameter measurement can make				
mage Resolutio	on	1360×1024	quantitative analysis to slender body,	nassive body, granular body,			
Data	Transmission Interface	USB2.0	threadlike body etc.				
ransmission	Transmission Speed	480m/s	STATE STREET	0000			
Picture Format		Bmp/jpg	回打开 第 1978	※ 文件			

直打用 第 808	※ 文件 ※ 強者 ※ 開彩
	・被問 ・ 八河交換 ・ 基本调整 ・ 競魚環境
C 400 P 👁	※ 粉卷分析 ※ 粉卷 存施/融点/白盛 ※ 閃光企成 ※ 大型评性/多可验点
	8





With digital head and professional image measuring/processing software, DMICX-40 is an effective tool for theory teaching, experiment analysis and basic research



Professional image analysis software Mvlmage

MvImage software with image process and analysis function, used for automatic analysis and measurement in statistics or morphology. All kinds of detections and analysis related to image morphology can be achieved by MvImage. Such as cell morphology analysis, microstructure analysis, pollutant concentration analysis, seed morphology analysis, chemical industry particle morphology analysis and so on.

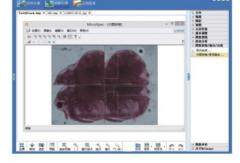
- Latest program design, Chinese image-text interface, is the powerful assistant for theory teaching, experiment and basic research.
- Include more than 100 functions, such as chromaticity adjustment, image transforming, texture analysis, feature recognition, etc.
- Support for 24 bit true color image collection, support for processing and analyzing color models like RGB、CMY、HSY、YUV, etc.
- Advanced particle automatic identification, automatic segmentation of blocking particles
- Geometric parameter measurement and auto quantitative analysis, contain common analytic functions







Graphics processing



Algebraic operation

Full Pixel Preview

0-159.13s, delta0.03s

12.5fr/s Auto/ Manual

40-180

<20°C

12V

Auto/ Manual

-10°C-60°C

Preview Mode

Preview Speed

Exposure Time

Auto Exposure

Preview

Control

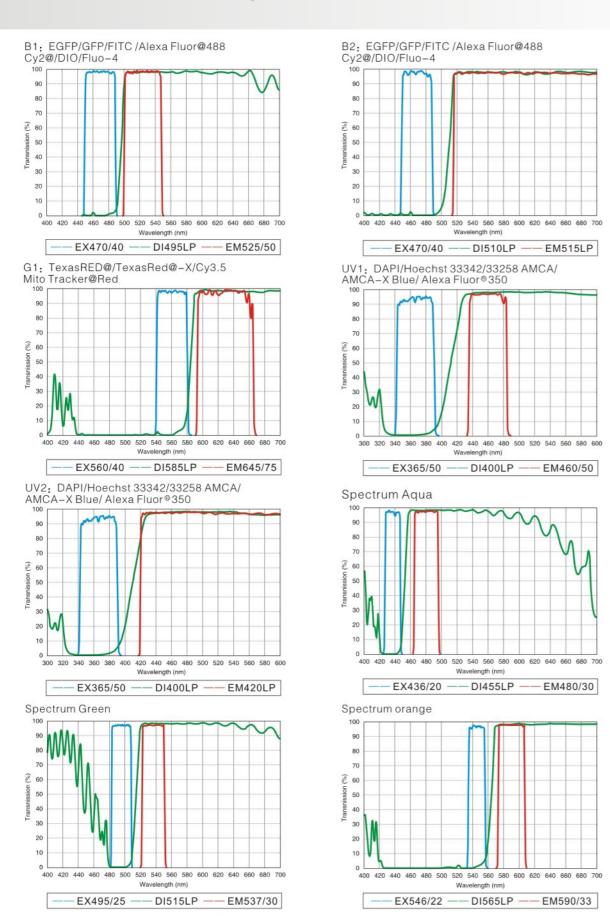
White Balance

Operating Temperature

Cooling Temperature

Operating Voltage

Common fluorescence filter parameter



⁸ ICX-40 Biological Research Microscope

RAYSCOPE



LPLAN series infinity plan achromatic objectives, designed for observing lab pathology and biological cell slices, present sharp and contrast image, work well even in fluorescence observation.



PLAN-PH series infinity phase contrast objectives, improve clarity and contrast, especially suitable to observe colorless or light-colored cells.

PLAN-FLUOR series infinity plan semi-apochromatic objectives, is the best choice for fluorescence observation. Adopting crystal optics materials, perfectly corrects all kinds of chromatic aberrations. Large numerical aperture design presents high resolution, high contrast micro-images. In fluorescence observation, the image is clear and bright while the background is pure black, prominent in ultraviolet fluorescence.

ICX40 Objectives

Series	Magnification	N.A.	W.D.	F.N.	Cover glass thickness	Immersion	Spring
Plan	Plan2X	0.06	5.0	22	-	1	
	Plan4X	0.10	11.9	22	0.17	1	1
	Plan10X	0.25	12.1	22	0.17	1	1
	Plan20X	0.45	1.5	22	0.17	1	/
	Plan40X	0.65	0.36	22	0.17	/	Yes
	Plan60X	0.85	0.3	22	0.17	1	Yes
	Plan100X	1.25	0.18	22	0.17	Oil	Yes
Plan PH series	Plan PH10X	0.25	12.1	22	0.17	1	/
	Plan PH20X	0.45	1.5	22	0.17	/	1
	Plan PH40X	0.65	0.36	22	0.17	1	Yes
	Plan PH100X	1.25	0.18	22	0.17	Oil	Yes
Plan Fluor	Plan Fluor4X	0.13	16.43	25	0.17	1	1
	Plan Fluor10X	0.30	8.13	25	0.17	1	
	Plan Fluor20X	0.50	2.03	25	0.17	1	1
series	Plan Fluor40X	0.75	0.73	25	0.17	/	1
	Plan Fluor100X	1.28	0.18	25	0.17	Oil	1



ICVAN Comico Con

Optical system	Infinity color corrected optical system				
Viewing head	Efficient infinity gemel binocular head,30° -60° elevation adjustable;360° rotatable; interpupillary adjustable distance: 54-75mm; diopter +/-5 adjustable				
	30° inclined gemel binocular head;360° rotatable; interpupillary adjustable distance: 54–75mm; diopter +/-5 adjustable				
	30° inclined gemel trinocular head, splitting ratio R:T=50:50 or R:T=0:100; 360° rotatable; interpupillary adjustable distance: $54-75$ mm; diopter $+/-5$ adjustable				
	30° inclined digital binocular head; 360° rotatable; interpupillary adjustable distance: 54–75mm; diopter +/-5 adjustable				
Eyepiece	High eye-point wide field plan eyepiece PL10x22mm, PL 15x16mm				
Objective	Infinity plan achromatic / phase contrast /semi-apochromatic fluorescence objectives				
Nosepiece	Revolving quadruple nosepiece/quintuple nosepiece				
Body	Coaxial focus system with upper limited and tension adjustment; coarse range: 30mm; fine precision: 0.002mm; focus height adjustable				
Stage	175x145mm double layer mechanical stage, rotatable; with special fabrication processing, anti–corrosive and anti–friction; moving range: 76x50mm, precision: 0.1mm				
	187x167mm double layer mechanical stage, moving range: 80x55mm, precision: 0.1 mm				
Condenser	N.A.0.9 swing—out type achromatic condenser; N.A.1.2/0.22 swing—out type achromatic condenser; N.A. 1.25 quintuple phase contrast condenser; N.A.0.9 dry dark field condenser; N.A.1.25 oil dark field condenser				
	XYRFLP reflected fluorescence Koehler illumination with alterable field diaphragm and aperture diaphragm (center adjustable)				
Reflected fluorescence	XYLH100HG mercury lamp house with viewfinder; the center and focal length of viewfinder &filament are adjustable				
illumination system	U2-RFLT100 digital power control box of mercury lamp, wide voltage:100-240VAC				
system	Imported OSRAM 100W DC mercury bulb; disc fluorescence filers:UV/VB/G;30ND25-RFLP/30ND50-RFLP attenuation plate				
Transmitted illumination system	Wide voltage: 100–240V, built-in transmitted Koehler illumination; 6V/30W halogen, pre-centered, intensity adjustable				
Polarizing kit	Analyzer 360° rotatable; polarizer and analyzer can be out of light path				
Filter	Yellow, green, blue, neutral filter				
Light splitting device	R:T=70:30 or 100:0, special 1x CTV				
Camera adapter	0.5xCTV, 0.67xCTV, 1xCTV				