

## IX51 IX2 SERIES

# Practical Convenience and Quality Performance





# Excellent optical performance and versatility with uncompromised quality

The IX51 continues the Olympus inverted microscope tradition by providing a very stable, compact platform ready to accept a wide range of accessories and applications. Practical convenience and quality performance are matched by excellent cost efficiency. The slim frame design enables easy attachment of multiple accessories for live cell, culture and imaging applications.

Suitable for use with a wide variety of sample vessels

Long working distance condenser accommodates roller bottles

Improved throughput for high contrast fluorescence observation

Pre-centered phase-contrast slider for 10X-40X needs no adjustment (IX2-SLP)

# The slim and compact design saves bench space

Ergonomic design Easy operation

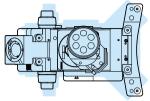
Side camera port accepts a wide range of CCD cameras

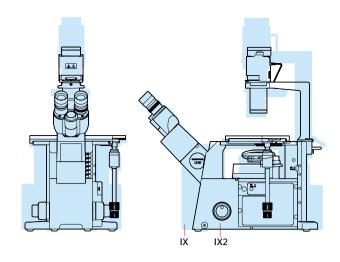


# Slim & compact

### Plenty of workspace

• The slim, stable, compact design with reduced footprint provides ample bench space for accessories. Shortened height of 30W halogen illumination pillar provides easy installation in a clean bench environment.

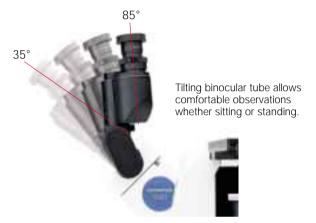




# Ergonomics

### Easy, convenient operation

- Features to promote fatigue-free operation include a low stage, front mounted controls, and optional glass stage insert plate and objective color-band labels.
- Various observation tubes are provided to suit a wide range of users including a tilting binocular tube for use while sitting or standing.



# Live cell observation

### Suitable for use with a wide range of containers

 Optical system includes objectives and condensers to accommodate different vessel types and thicknesses.
 Stage adapters accommodate a variety of vessels from microscope slides to well plates.





# Cell viability

### Stable environment for long-term observations

- Computer aided design of the microscope frame for improved rigidity.
- External power supply reduces thermal expansion and electrical noise.
- All detents and click stops are designed to minimize vibration.
- For cell viability observations a stage warming plate, CO<sub>2</sub> chamber and incubator are available.





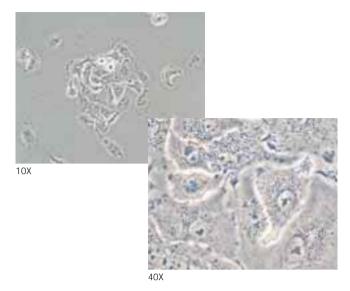
# Superb optics

### Easy to use phase-contrast system

- The 30W illumination pillar includes a condenser (N.A. 0.3, W.D. 72mm) with a detachable front lens for an ultra long working distance of 182mm to accommodate standing laboratory flasks or roller bottles.
- The IX2-SLP phase contrast slider includes annuli for 4X-40X objectives, pre-centered for ease of use. 10X-40X objectives all use a common annulus, simplifying magnification changes.
- The ultra-long working distance condenser (N.A. 0.3, W.D. 73mm) with four position turret can be combined with the 100W illumination pillar for 4X to 40X phase-contrast and brightfield observations.







# Fluorescence

### **Excellent fluorescence performance**

- High throughput illuminator is 20% brighter than previous models.
- A new L-shaped illuminator includes aperture and field stops and convenient access to burner centration.
- Fluorescence mirror units are designed to reduce stray light and resulting image flare.
- Sextuple turret unit can accept a variety of mirror units.
- Improved filter performance with high efficiency coatings designed for low background and minimal crossover.









# Accessory

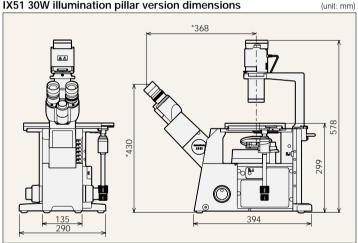
• A rubber cap is provided with immersion objectives to prevent fluid leaking into the lens



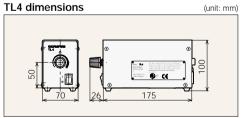
### IX51 specifications

Microscope body	Revolving nosepiece		Sextuple, simple waterproof mechanism incorporated
	Focus		9mm stroke (from stage surface, 7mm upward and 2mm downward), coaxial coarse and fine focusing knobs (minimum fine focus graduation: 1μm, full rotation of fine focusing knobs: 100μm), upper limit stopper, torque adjustment for coarse focusing
	Left side port		2-step light path selection
Transmitted light illuminator	30WHAL illumination	IX2-ILL30 + U-LS30-3-2	Detouchable condenser lens system (N.A. 0.3 W.D. 72mm), single filter holder (45mm, t=11mm or less), aperture iris diaphragm adjustable
	External power supply unit	TL-4	Auto voltage selector (100V / 200V)
	100WHAL illumination	IX2-ILL100 + U-LH100L-3	Pillar tilt mechanism (30° inclination angle, with shock decreasing mechanism), Condenser holder (with 50mm stroke, swing-in/out mechanism), Field iris diaphragm adjustable, 4 filter holders (45mm, 1–6mm or less)
	External power supply unit	TH4-100/200	Two versions available (100V and 200V)
Observation tube	Tilting binocular tube	U-TBI90	35-85° continuous angle adjustable (eyepoint height range : 406mm-471mm), interpupillary distance adjustable between 50-76mm, diopter adjustment function, erect image, F.N. 22
	Binocular tube	U-BI90CT	Built-in focusing telescope, interpupillary distance adjustable 50-76mm, diopter adjustment function, F.N. 22
		U-BI90	Interpupillary distance adjustable 50-76mm, diopter adjustment function, F.N. 22
	Trinocular tube	TR30H + IX-ATU	3 step optical path selectable (observation : straight port = 100:0, 20:80, 0:100), interpupillary distance adjustable 50-76mm, diopter adjustment function, F.N. 22
Stage	Cross stage with flexible right handle	IX2-SFR	50mm(X) x 50mm(Y) stroke, stage insert plate exchangeable (ø110mm)
	Cross stage with short left handle	IX-SVL-2	50mm(X) x 43mm(Y) stroke, stage insert plate exchangeable (ø110mm)
	Plain stage	IX2-SP	232mm(X) x 240mm(Y) stage size, stage insert plate exchangeable (ø110mm)
		IX-MVR	Mechanical stage to be used with IX2-SP, 130mm(X) x 85mm(Y) stroke
	Narrow plain stage	IX2-KSP	160mm(X) x 240mm(Y) stage size, stage insert plate exchangeable (ø110mm)
		CK40-MVR	Mechanical stage to be used with IX2-KSP, 120mm(X) x 78mm(Y) stroke
	Gliding stage	IX2-GS	Upper circular stage 360° rotatable, 20mm(X/Y) travel
Condenser	Ultra long working distance	IX-ULWCD	4 positions for optical devices (for ø29mm), aperture iris diaphragm adjustable, N.A. 0.3 / W.D. 73mm
	Long working distance universal	IX2-LWUCD	5 positions for optical devices (3 positions for ø30mm and 2 position for ø38mm), aperture iris diaphragm adjustable, N.A. 0.55 / W.D. 27mm
	Long working distance Relief Contrast	IX2-MLWCD	4 positions for optical devices (for ø50mm, optical Relief Contrast optical devices rotatable), aperture iris diaphragm adjustable, N.A. 0.5 / W.D. 45mm
Eyepiece         WH10x           WH10x-H         WH10x-H		WH10x	High eyepoint, F.N. 22
		WH10x-H	High eyepoint, diopter adjustment function, F.N. 22
Reflected light fluorescence unit	Fluorescence illuminator	IX2-RFAL	L-shaped design with exchangeable F.S. and A.S. modules, two filter holder sliders (2 positions, ø32mm, t=6mm or less)
		IX2-RFA	Straight design with field iris diaphragm, filter holder slider (2 positions, ø32mm, t=6mm or less)
	Fluorescence cube turret	IX2-RFAC	6 positions for in a rotating turret, built-in shutter 100W HBO lamp housing and HBO transformer, or 75WXBO lamp housing and XBO transformer

### IX51 30W illumination pillar version dimensions



Weight: 20.5kg Length marked with an asterisk (\*) may vary according to interpupillary distance.

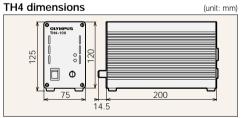


Weight: 0.8kg Rated voltage: 55VA

### IX51 100W illumination pillar version dimensions

(unit: mm) \*243~391 199

Weight: 24.4kg Length marked with an asterisk (\*) may vary according to interpupillary distance.



Weight:2.2 kg Rated voltage: 200VA





Specifications are subject to change without any obligation on the part of the manufacturer.



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