



OPTIC70 – Standard Upright Biological Microscope

Max. Magnification up to 1000X

Download
Catalogue



OPTIC70 is compact, maintenance free, economical microscope, excellent solution for Educational life science, Clinical Laboratory.

- Built-in transmitted illumination
- Integrated Carry Handle
- Coaxial X-Y axis right hand mechanical stage, 0,1mm division Vernier scale on the two axes, accuracy: 0.1 mm.
- Stage with graduated millimeter scale
- High quality optical system infinity corrected Standard DIN 160mm
- Microscope full metal body, provide stability of instruments.
- Fine and Coarse Coaxial Focusing Block, Microscope Stage is full made from metal parts to provide accurate and durable exploitation
- Antimicrobial body Coating
- Antifungal Coating full optical path
- Binocular/Trinocular Head
- Integrated carry handle
- Eyepiece: Wide field WF10X/18mm for inner tube diameter 23mm
- Light split- 70% : 30%
- Condenser: Abbe Condenser NA1.25 with Iris Diaphragm 32mm with filter holder, high levelling, centering. Height and centering are adjustable.
- Viewing Head: 30° Inclined and 360° rotating
- Simple dioptric difference adjustment ± 5 mm
- Chemical resistance coating

FOCUSING

- Macrometric and micrometric coaxial knobs on both sides (0,002mm).
- Upper limit excursion adjustment.
- Torque adjustment on coarse focus knob
- Supplied with an adjustable rack stop to prevent damage to sample and objectives.
- The coarse adjustments are equipped with friction control

ILLUMINATION

- 6V 20W Tungsten-Halogen Lamps (6V 30W optional)
- 3W LED Lamp, (1W adjustable X-LED1 illumination white color 6.500K optional)
- Adjustable Intensity with Left hand-controlled knob
- The innovative design offer larger apertures, allowing the optical system of the microscope to produce images at higher resolutions very close to the theoretical diffraction limit of the optics.
- Other benefit is the low energy consumption, no heating and a long operating lifetime



Upright Light Microscope

Light weight, Economical, adopted to the educational needs



Head 30° Inclined and 360° rotating

Binocular or Trinocular head



Chemical resistance coating

Antimicrobial/Antifungal Coating



Innovative illumination system

External power supply 100-240V/AC/50-60Hz, wide colour temperature 6.500K, X-LED1 portable energy saving light source provide lifetime more than 68.000 hours of operation. with LI-ion Battery provide autonomy with full light intensity of 17 hour with charging time less than 6 hour (optional)

CONFIGURATION OPTIC70	BH	TH	BL	TL
Binocular, Interpupillary distance 55 -75mm	●	○	●	○
Trinocular, Interpupillary distance 55 -75mm	○	●	○	●
Dioptric difference adjustment ± 5mm	●	●	●	●
Light split- 70% : 30%	○	●	○	●
Eyepiece WF10X/18 mm	●	●	●	●
Eyepiece HWF10X/18 mm	○	○	○	○
High eye -point plan eyepiece WF10X/18 mm	○	○	○	○
High eye -point plan eyepiece WF10X/20 mm	○	○	○	○
High eye -point plan eyepiece WF16X/10 mm (pointer)	○	○	○	○
N-plan Objective 4X N.A.0.10 WD 15.2mm (anti-fungus treatment)	●	●	●	●
N-Plan Objective 10X N.A.0.25 WD 5.5mm (anti-fungus treatment)	●	●	●	●
N-Plan Objective 40X N.A.0.65 WD 0.45mm (anti-fungus treatment)	●	●	●	●
N-Plan Objective 100X N.A.1.25 WD 0.13mm (anti-fungus treatment)	●	●	●	●
Achromatic Objective 4X N.A.0.10 (anti-fungus treatment)	○	○	○	○
Achromatic Objective 10X N.A.0.25 (anti-fungus treatment)	○	○	○	○
Achromatic Objective 40X N.A.0.65 (anti-fungus treatment)	○	○	○	○
Achromatic Objective 100X N.A.1.25 (oil immersion) (anti-fungus treatment)	○	○	○	○
Plan Achromatic Objective 4X N.A.0.10 (anti-fungus treatment)	○	○	○	○
Plan Achromatic Objective 10X N.A.0.25 (anti-fungus treatment)	○	○	○	○
Plan Achromatic Objective 40X N.A.0.65 (anti-fungus treatment)	○	○	○	○
Plan Achromatic Objective 100X N.A.1.25 (oil immersion) (anti-fungus treatment)	○	○	○	○
Mechanical Stage, XY moving, right-handed, 125X116mm, movement range 70X30mm (div 0,1mm), with slide holder up to 2 pcs	○	○	○	○
Mechanical Stage, XY moving, right-handed, 135X125mm, movement range 68X28mm (div 0,1mm), with slide holder up to 2 pcs	●	●	●	●
Mechanical Stage, ceramic, 134X130mm, movement range 77X48mm	○	○	○	○
Quadruple Nosepiece, inward facing rotating and locking at every objective	●	●	●	●
Condenser: Abbe N.A. 1.25, high levelling, centering, focusable, with iris diaphragm.	●	●	●	●
Kohler Illuminator (No field diaphragm)	●	●	●	●
Kohler Illuminator (With field diaphragm)	○	○	○	○
6V 20W Tungsten-Halogen Lamps, Adjustable Intensity	●	●	○	○
6V 30W Tungsten-Halogen Lamps, Adjustable Intensity	○	○	○	○
1W X-LED1 Lamp 6.500K white, Adjustable Intensity	○	○	○	○
3W LED Lamp, Adjustable Intensity	○	○	●	●
Standard accessories: Power cord, transformer, 10ml immersion oil, Dust cover, User manual, φ2mm Allen screwdriver. Trinocular Microscope set: Microscope camera 5.1MP, a pair of eye adapters, USB cable, software calibration micrometer	●	●	●	●
Dimension mm D*W*H	320*170*350	360×150×390	320*170*350	360×150×390
NW	4kg	8kg	4kg	8kg

OPTIC70BH – Binocular Head, Halogen light source
 OPTIC70BL – Binocular Head, LED light source
 OPTIC70TH – Trinocular Head, Halogen light source
 OPTIC70TL – Trinocular Head, LED Light source

Specifications: ● - Standard Configuration ○ - Optional configuration

Standard camera technical specification:

Camera software support:

Win XP, Win Vista, Win 7, Win 8, Win 10

C-mount adapter is included

Sensor: Micron

Sensor type: CMOS

Sensor size: 1/2.5"

Pixel size: $2.2\mu\text{m} \times 2.2\mu\text{m}$

Exposure time: 0.1ms~2000ms

Sensitivity (V/lux-sec @550nm): 1.76 V/Lux-sec

Pixel: 5.1 Mpix

Max Resolution (Hardware): 2560*1922

Full Res. Frame Rate (Depend on the PC): max to 14 FPS @ 2560*1922

High/low speed Preview: YES

Video Mode: 2560*1922 , 280*960, 1024*768, 640*480

Wavelength(nm): 400-650nm (IR-Cut added)

Exposure: ERS (Electronic Rolling Shutter)

White Balance: Automatic / Advanced Manual

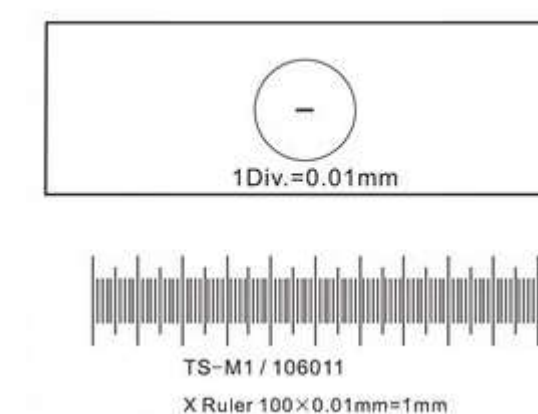
Sensor format: Progressive

Camera body: aluminum alloy

USB Cable: 2m

Accessories Included: 2 adaptors ($\Phi 23.2$ to $\Phi 30$, $\Phi 23.2$ to $\Phi 30.50$, one each) TS-M1 stage micrometer

Software: Driver support Direct Show and Twain Application software, for record and measuring tools



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Please note

If this Microscope does not match the specific needs of your application, or some options are not listed for sale, please feel free to contact us. Our manufacturing engineers will come up with technical solutions to meet your needs. We reserve the right to change technical specifications at any time.

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