ROMI900 – Research Grade Professional Biological Microscope

Binocular / Trinocular

Download Catalogue

ROMI900 Biological Microscope is kind of cost-effective, advanced, laboratory microscope, most applied in the field of medicine, clinical and biology research. This type of microscope can be supplied with refocus stage. Equipped with universal infinity independent plan achromatic optical system, chromatic aberrations and curvature of field are both ideally corrected over the field of view. And the COLO objectives own higher NA's producing crisp, clear images with minimal flare.

High eye point, Wide field of view eyepiece, and its diopter is adjustable. Standard 10X eyepieces view-field can be chosen between 20mm/22mm/25mm can bring you wider vision and more comfortable feeling.

Optics System: Infinity Independent Plan Achromatic Optical System F=200mm Viewing Head : Siedentopf binocular tube, Interpupillary distance 50~75mm, 25°/45° inclined, 360° rotatable, diopter adjustable.
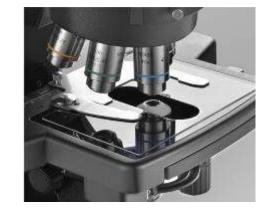Option:
Trinocular tube, COLO Microscope cameras
Phase contrast with positive or negative objective
Multi-purpose contrast condenser
Dark field condenser

Built in control panel Light Manager
Handle for easy one-handed portability

Koehler Illumination
with adjustable Koehler field diaphragm

Nosepiece
Revolving and reversed nosepiece for 4-7 objectives (customer choice)

Objectives
Infinity Plan Achromatic Objectives

Light source
3 W LED or 20/30W tungsten-halogen* lamp with adjustable constant intensity light control. Energy saving – programing switch off up to 2 hour inactivity. Switch off button (front side)

Mechanical table with rounded edges (quartz glass is optional)

Adjustable inclination and height adjustment

ROMI900 Is compact, maintenance free, economical microscope, excellent solution for Educational life science, Clinical Laboratory.

- Bright field/Dark field, transmitted light
- Integrated Carry Handle
- Coaxial X-Y axis right hand mechanical stage, 0,1mm division
- 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/Antifungal Coating
- The optical system is treated with anti-fugal paint
- Control knob with Tension
- Two sided fine and coarse focusing
- Fine focus: 0,2mm
- Coarse focus: 37,7mm
- Binocular/Trinocular Trinocular head with one or two adapters for height adjustment (optional)
- Integrated carry handle with power cord wrap
- Eyepiece: WF10X20
- Condenser: Abbe Condenser NA1.25 with Iris Diaphragm 45mm with filter holder for contrast sliders (phase contrast, darkfield, compensator, fly-eye lens) for all magnification and light intensity, high levelling, centering
- Viewing Head: 30° Inclined and 360° rotating (Adjustable head 10° to 45° is optional)
- Dioptres Adjustment (for both eyepiece)
- QR code scanning linked to the user manuals,
- Chemical resistance coating
- beam splitter 50:50

Mechanical stage with micrometre on X and Y

FOCUSING
- Supplied with an adjustable rack stop to prevent damage to sample and objectives.
- The coarse adjustments are equipped with friction control

ILLUMINATION
- 3 W adjustable LED illumination 6000K temp 28.000 h life a full intensity or 20/30W tungsten-halogen* lamp, with 100-240 V power supply (USB-Power Bank is optional)
- 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
- Colour temperature of Tungsten-Halogen lamp is 3.200K   Adjustable Microscope Binocular head 10 ° to 45 °

Specifications: ● - Standard Configuration   ○ - Optional configuration

ROMI900	900	910	920	930
Seidentopf trinoculear head, inclined at 30°, interpupilary distance 47-78mm	○	●	●	●
Seidentopf binocular head, inclined at 30°, interpupilary distance 47-78mm	○	○	●	●
Ergo. titling trinocular head, adjustable from 0° to 35°, interpupilary distance 47-78mm	●			
ROMI microscope's main body	●	●		
Quintuple Nosepiece, inward facing with Click Stop	●			
Illumination LED lamp				
ROMI full motorized microscope's main body			●	●
Extra wide field EW10x/22mm eyepiece, Ø30mm tube with diopter adjustement	●	●	●	●
Super wide field SW10x/25 mm eyepiece, Ø30mm tube				
Super wide field SW10x/25 mm eyepiece with cross-hair, Ø30mm tube	○	○	○	○
Rubber eyecup for eyepiece	●	●	●	●
Manual quadruple reversed nosepiece				
Manual quintuple reversed nosepiece	●	●	●	●
Manual sextuple reversed nosepiece				
Manual septuple reversed nosepiece				
Motor-driven sextuple reversed nosepiece			●	●
Plan achromatic infinity corrected objective, NIS60 Plan 2x/0.06, working distance 7.5 mm				
Plan achromatic infinity corrected objective, NIS60 Plan 4x/0.10, working distance 30 mm				
Plan achromatic infinity corrected objective, NIS60 Plan 10x/0.25, working distance 6,7 mm				
Plan achromatic infinity corrected objective, NIS60 Plan 20x/0.40, working distance 12 mm				
Plan achromatic infinity corrected objective, NIS60 Plan 40x/0.65, working distance 0.6 mm				
Plan achromatic infinity corrected objective, NIS60 Plan 60x/0.80, working distance 0.3 mm				
Plan achromatic infinity corrected objective, NIS60 Plan 100x/1.25 oil immersion, working distance 0.14 mm				
Plan achromatic infinity corrected objective 100x/1.25 oil immersion, with built-in iris diaphragm for darkfield , working distance 0.2 mm				
Plan Semi-Apochromatic infinity corrected objective, PlanF S-Apo 4x/0.13, working distance 16.5 mm				
Plan Semi-Apochromatic infinity corrected objective, PlanF S-Apo 10x/0.30, working distance 8.1 mm				
Plan Semi-Apochromatic infinity corrected objective, PlanF S-Apo 20x/0.50, working distance 2.1 mm				
Plan Semi-Apochromatic infinity corrected objective, PlanF S-Apo 40x/0.75, working distance 0.7 mm				
Plan Semi-Apochromatic infinity corrected objective, PlanF S-Apo 100x/1.30, oil immersion, W.D.: 0.15 mm				
Plan Phase infinity corrected objective, Plan 10x/0.25 Ph, working distance 10.2 mm				
Plan Phase infinity corrected objective, Plan 20x/0.40 Ph, working distance 12 mm				
Plan Phase infinity corrected objective, Plan 40x/0.65 Ph, working distance 0.7 mm				
Plan Phase infinity corrected objective, Plan 100x/1.25 Ph, oil immersion working distance 0.2 mm				

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Abbe Condenser 0,1-1,25, with slot for contrast slides (dark field, phase contrast, compensator...)	○	○	○	○
Zernike phase contrast set, with Plan Phase 10/20/S40/S100x objectives, phase contrast condenser, telescope and green filter	○	○	○	○
Zernike Phase contrast Abbe condenser with 4 phase annuli	○	○	○	○
Telescope for phase contrast alignment, Ø 30 mm tube	○	○	○	○
Dark field condenser (Dry)	○	○	○	○
Dark field condenser (Oil)	○	○	○	○
Turrent DIC condenser (rotating DIC and BF, without DIC prisms)	○	○	○	○
DIC prism for turrent condenser (used with plan semi-apo 10x objective)	○	○	○	○
DIC prism for turrent condenser (used with plan semi-apo 20x objective)	○	○	○	○
DIC prism for turrent condenser (used with plan semi-apo 40x objective)	○	○	○	○
DIC prism for turrent condenser (used with plan semi-apo 100x objective	○	○	○	○
Slider with DIC prism for nosepiece (used with plan semi-apo 10x and 20x objectives)	○	○	○	○
Slider with DIC prism for nosepiece (used with plan semi-apo 40x and 100x objectives)	○	○	○	○
Simple polarization kit, consisting of transmitted polarizer in slider and transmitted analyzer	○	○	○	○
Bertrand lens for conoscopy observation. Swing-out type, focusable and centrable	○	○	○	○
Compensator Slider	○	○	○	○
Optical compensator: 1° order red (1 lambda), (gypsum)	○	○	○	○
Optical compensator: 1/4λ guarter-wave plate (mica)	○	○	○	○
Optical compensator: Quartz wedge	○	○	○	○
Simple polarization kit, consisting of reflected polarizer in slider and reflected analyzer	○	○	○	○
Option for left-handed stage with Gorilla glass	○	○	○	○
Option for right-handed stage with Gorilla glass	○	○	○	○
Option for left-handed stage with Sapphire glass	○	○	○	○
Option for right-handed stage with Sapphire glass	○	○	○	○
Round stage for polarization microscope, diameter Φ190mm, center adjustable, 360° scale, minimumdivison 1°, minimum reading 6' by means of vernier scale, 45° click stop knob	○	○	○	○
Slide clips	○	○	○	○
Adapter to lower stage position	○	○	○	○
Sapphire glass inserted for stage	○	○	○	○
Blue filter, Ø 45 mm, fits on lamphouse	○	○	○	○
Green filter, Ø 45 mm, fits on lamphouse	○	○	○	○
Yellow filter, Ø 45 mm, fits on lamphouse	○	○	○	○
Mechanical Stage, right handed, 142X135mm, movement range 76X30mm with slide holder up to 2 pcs	○	○	○	○

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LED illuminator replacement unit	○	○	○	○
100W/24V halogen replacement bulb	○	○	○	○
100W HBO mercury vapor lamp for transmitted illumination	○	○	○	○
Fuses 500 mA 250 V, 10 pieces, (For Hemera models with LED)	○	○	○	○
Fuses 5 A 250 V, 10 pieces (For Hemera models with 100 W halogen)	○	○	○	○
Epi-Fluorescent Attachment: including filter block system (max. six blocks acceptable); fluorescent filterblock B & G excitation filter block included; 100W GCQ ultra hi-voltage spherical mercury lamp; power supplier NFP-1, 220V/110V interchangeable, digital display and timer; protection barrier to resist the ultraviolet light; fluorescent oil	○	○	○	○
Empty filter cube for 6-position fluorescence attachment	○	○	○	○
Filter set for blue excitation, EX: 460-490 nm BP, DM: 500 nm, EM: 520 nm LP (needs empty filter cube)	○	○	○	○
Filter set for green excitation, EX: 510-550 nm BP, DM: 570 nm, EM: 590 nm LP (needs empty filter cube)	○	○	○	○
Filter set for violet excitation, EX: 400-410 nm BP, DM: 455 nm, EM: 460 nm LP (needs empty filter cube)	○	○	○	○
Filter set for ultra-violet excitation, EX: 330-385 nm BP, DM: 400 nm, EM: 420 nm LP (needs empty filter cube)	○	○	○	○
Fitler set for red excitation: BP620-650, Dichroic Mirror: DM660, Barrier: BA670-750 (needs empty filter cube	○	○	○	○
100W HBO mercury vapor lamp for reflected illumination	○	○	○	○
100W power suplier	○	○	○	
C-mount with 1x for C-mount camera	●	●	●	●
C-mount with high resolution relay 0.50x objective for 1/2″ C-mount camera	○	○	○	○
C-mount with high resolution relay 0.35x objective for 1/3″ C-mount camera	○	○	○	○
C-mount with high resolution relay 0.63x objective for 2/3″ C-mount camera	○	○	○	○
Universal Ø 23.2 mm tube adapter with built-in 2x lens for SLR photo camera with APS-C sensor. T2 ring adapter is needed	○	○	○	
T2 ring for Nikon D SLR digital camera	○	○	○	○
T2 ring for Canon EOS SLR digital camera	○	○	○	○
Attachment kits of multi-viewing microscopes for 5 users	○	○	○	○
Eyepoint regulator	○	○	○	○
DIC polarization filter for transmitted light	○	○	○	○
Digital Camera (Please refer to our digital camera brochure)	○	○	○	○
Energy consumption 3W	●	●	●	●
Weight (kg) 5,5	●	●	●	●
Dimension (W*D*H) 200 x 240 x 380mm	●	●	●	●
COLO Microscope camera with software according customer demand	○	○	○	○
Dust cover	●	●	●	●