

Model ESEARCH Series Advanced Life Science Microscopes - Motorized Type

Microscopes



- **Optical System**  
NIS60 Infinite optical system
- **Viewing Head**  
Siedentopf trinocular with 30° inclined tubes Interpupillary distance adjustable between 47 and 78mm, 3-Position beam splitter (100:0/80:20/0:100) diopter adjustment on both eyepieces
- **Eyepiece**  
Super wide field 5W10x/25 mm eyepiece, Ø30mm tube
- **Objective**  
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 10.2 mm  
Plan achromatic infinity corrected objective, NIS60 Plan 20x/0.40, working distance 12 mm  
Plan achromatic infinity corrected objective, NIS60 Plan 50x/0.65, working distance 0.7 mm  
Plan achromatic infinity corrected objective, NIS60 Plan 5100x/1.25 oil immersion, working distance 0.2 mm
- **Nosepiece**  
Revolving sextuple reversed nosepiece on ball-bearings
- **Nosepiece Rotating Button**  
This microscope has the function of automatically rotating nosepieces and adjusting the light intensity
- **Stage**  
Double layer mechanical stage 190x152mm, with moving range 78x54mm, with sapphire crystal glass insert
- **Focusing**  
Coaxial focusing system with low-position X-Y coaxial control knob, the ergonomic design provides operators comfortable experience, fine division lum, moving range 35mm
- **Condenser**  
Motorized Abbe condenser 0.9/0.25 with swing-out front lens, automatically selects the top-lens element according to the objective lens that is selected via a
- **Illumination**  
24V/100W halogen
- **ECO Function**  
The unique sensor is developed to avoid unnecessary loss of energy. The illumination of the microscope automatically switches off after users step away from their position for 30 minutes.
- **Light Management**  
No need to adjustable the light intensity by hand when switch the objectives. The long-life lamp can keep the light intensity and easy for maintenance
- **Remote Control Pad**  
Objective could be switched by simply pressing the rotating buttons. User could of the most commonly used objectives. User could swap between these two obj green button
- **C mount**  
0.5x Professional C mount for Hemera series microscopes fitted with digital camera
- **Digital C**  
Mlchrome 20 Digital Camera, 20MP, USB3.0, 1" CMOS, pixel size: 2.4x2.4(µm), resolution: 5472(H)x3648(V) with image software, C mount included

Optional Accessories

Cat. Number	Descriptions
ESM27001	Siedentopf trinocular head, inclined at 30°, interpupillary distance 47.8mm
ESM27002	Siedentopf binocular head, inclined at 30°, interpupillary distance 47.8mm
ESM27003	Ergo. titling trinocular head, adjustable from 0° to 35°, interpupillary distance 47.8mm
ESM27004	Hemera microscope's main body
ESM27005	Hemera-Auto microscope's main body
ESM27006	Super wide field 5W10x/25 mm eyepiece, Ø30mm tube
ESM27007	Super wide field 5W10x/25 mm eyepiece with cross-hair, Ø30mm tube
ESM27008	Extra wide field EW10x/22mm eyepiece, Ø30mm tube with diopter adjustment
ESM27009	Extra wide field EW10x/22mm eyepiece with cross-hair, Ø30mm tube
ESM27010	Wide field WF 12.5x/17.5mm eyepiece, Ø30mm tube
ESM27011	Wide field WF 20x/22mm eyepiece, Ø30mm tube
ESM27012	Wide field WF 20x/22mm eyepiece, Ø30mm tube
ESM27013	Super wide field 5W10x POL eyepiece, Ø30mm tube
ESM27014	Reticle plate
ESM27015	Short eyecup for eyepiece
ESM27016	Long eyecup for eyepiece
ESM27017	Manual sextuple reversed nosepiece
ESM27018	Manual septuple reversed nosepiece
ESM27019	Motor-driven sextuple reversed nosepiece
ESM27020	Plan achromatic infinity corrected objective, NIS60 Plan 2x/0.06, working distance 7.5 mm
ESM27021	Plan achromatic infinity corrected objective, NIS60 Plan 4x/0.10, working distance 30 mm
ESM27022	Plan achromatic infinity corrected objective, NIS60 Plan 10x/0.25, working distance 10.2 mm
ESM27023	Plan achromatic infinity corrected objective, NIS60 Plan 20x/0.40, working distance 12 mm
ESM27024	Plan achromatic infinity corrected objective, NIS60 Plan 50x/0.65, working distance 0.7 mm
ESM27025	Plan achromatic infinity corrected objective, NIS60 Plan 560x/0.80, working distance 0.3 mm
ESM27026	Plan achromatic infinity corrected objective, NIS60 Plan 5100x/1.25 oil immersion, working distance 0.2 mm
ESM27027	Plan achromatic infinity corrected objective 100x/1.25 oil immersion, with built-in iris diaphragm for darkfield applications, working distance 0.2 mm
ESM27028	Plan Semi-Apochromatic infinity corrected objective, PlanF 5-Apo 4x/0.10, working distance 9.5 mm
ESM27029	Plan Semi-Apochromatic infinity corrected objective, PlanF 5-Apo 10x/0.30, working distance 8.1 mm
ESM27030	Plan Semi-Apochromatic infinity corrected objective, PlanF 5-Apo 20x/0.50, working distance 2.1 mm
ESM27031	Plan Semi-Apochromatic infinity corrected objective, PlanF 5-Apo 40x/0.75, working distance 0.7 mm
ESM27032	Plan Semi-Apochromatic infinity corrected objective, PlanF 5-Apo 100x/1.30, oil immersion, W.D.: 0.15 mm
ESM27033	Plan Phase infinity corrected objective, Plan 10x/0.25 Ph, working distance 10.2 mm
ESM27034	Plan Phase infinity corrected objective, Plan 20x/0.40 Ph, working distance 12 mm
ESM27035	Plan Phase infinity corrected objective, Plan 40x/0.65 Ph, working distance 0.7 mm
ESM27036	Plan Phase infinity corrected objective, Plan 100x/1.25 Ph, oil immersion working distance 0.2 mm
ESM27037	Abbe condenser 0.9/0.25 with swing-out front lens
ESM27038	Abbe condenser 0.9/0.25 with swing-out front lens (for automatic mode)
ESM27039	Zernike phase contrast set, with Plan Phase 10/20/540/5100x objectives, phase contrast condenser, telescope and green filter
ESM27040	Zernike Phase contrast Abbe condenser with 4 phase annuli
ESM27041	Telescope for phase contrast alignment, Ø 30 mm tube
ESM27042	Dark field condenser (Dry)
ESM27043	Dark field condenser (Oil)
ESM27044	Turrent DIC condenser (rotating DIC and BF, without DIC prism)
ESM27045	DIC prism for turrent condenser (used with plan semi-apo 10x objective)
ESM27046	DIC prism for turrent condenser (used with plan semi-apo 20x objective)
ESM27047	DIC prism for turrent condenser (used with plan semi-apo 40x objective)
ESM27048	DIC prism for turrent condenser (used with plan semi-apo 100x objective)
ESM27049	Slider with DIC prism for nosepiece (used with plan semi-apo 10x and 20x objectives)
ESM27050	Slider with DIC prism for nosepiece (used with plan semi-apo 40x and 100x objectives)
ESM27051	Simple polarization kit, consisting of transmitted polarizer in slider and transmitted analyzer
ESM27052	Bertrand lens for conoscopy observation. Swing-out type, focussable and centrabile

Cat. Number	Descriptions
ESM27053	Compensator Slider
ESM27054	Optical compensator: 1° order red (1 lambda), (gypsum)
ESM27055	Optical compensator: 1/4λ quarter-wave plate (mica)
ESM27056	Optical compensator: Quartz wedge
ESM27057	Simple polarization kit, consisting of reflected polarizer in slider and reflected analyzer
ESM27058	Option for left-handed stage with Coriolis glass
ESM27059	Option for right-handed stage with Coriolis glass
ESM27060	Option for left-handed stage with Sapphire glass
ESM27061	Option for right-handed stage with Sapphire glass
ESM27062	Round stage for polarization microscope, diameter Ø190mm, center adjustable, 360° scale, minimum division 1°, minimum reading 6° by means of vernier scale, 45° click stop knob
ESM27063	Slide clips
ESM27064	Adapter to lower stage position
ESM27065	Sapphire glass inserted for stage
ESM27066	Blue filter, Ø 45 mm, fits on lamphouse
ESM27067	Green filter, Ø 45 mm, fits on lamphouse
ESM27068	Yellow filter, Ø 45 mm, fits on lamphouse
ESM27069	LED illuminator replacement unit
ESM27070	100W/24V halogen replacement bulb
ESM27071	100W HBO mercury vapor lamp for transmitted illumination
ESM27072	Fuses 500 mA 250 V, 10 pieces, (For Hemera models with LED)
ESM27073	Fuses 5 A 250 V, 10 pieces (For Hemera models with 100 W halogen)
ESM27074	Eg-Fluorescence Attachment: including filter block system (max. six blocks acceptable), fluorescent filter block B & C excitation filter block included, 100W HBO ultra hi-voltage spherical mercury lamp, power supplier NFP-1, 220V/100V interchangeable, digital display and timer, protection barrier to resist the ultraviolet light, fluorescent oil.
ESM27075	Empty filter cube for 6-position fluorescence attachment
ESM27076	Filter set for blue excitation, EX: 460-490 nm BP, DM: 500 nm, EM: 590 nm LP (needs empty filter cube)
ESM27077	Filter set for green excitation, EX: 510-550 nm BP, DM: 570 nm, EM: 590 nm LP (needs empty filter cube)
ESM27078	Filter set for violet excitation, EX: 405-480 nm BP, DM: 455 nm, EM: 460 nm LP (needs empty filter cube)
ESM27079	Filter set for ultra-violet excitation, EX: 330-385 nm BP, DM: 420 nm, EM: 420 nm LP (needs empty filter cube)
ESM27080	Filter set for red excitation: BP420-450, Dichroic Mirror: DM660, Barrier: BA670-750 (needs empty filter cube)
ESM27081	100W HBO mercury vapor lamp for reflected illumination
ESM27082	100W power supplier NFP-1
ESM27083	FL-NDS Filter
ESM27084	FL-NDS25 Filter
ESM27085	C-mount with 1x for C-mount camera
ESM27086	C-mount with high resolution relay 0.50x objective for 1/2" C-mount camera
ESM27087	C-mount with high resolution relay 0.35x objective for 1/3" C-mount camera
ESM27088	C-mount with high resolution relay 0.63x objective for 2/3" C-mount camera
ESM27089	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
ESM27090	T2 ring for Nikon D-SLR digital camera
ESM27091	T2 ring for Canon EOS SLR digital camera
ESM27092	Attachment kits of multi-viewing microscopes for 5 users
ESM27093	Attachment kits of multi-viewing microscopes for 2 users
ESM27094	Attachment kits of multi-viewing microscopes for 2 users (face to face)
ESM27095	Attachment kits of multi-viewing microscopes for 3 users
ESM27096	Attachment kits of multi-viewing microscopes for 10 users
ESM27097	Eyepoint regulator
ESM27098	Nosepiece deckboard
ESM27099	DIC polarization filter for transmitted light
***	Digital Camera (Please refer to our digital camera brochure)

