

# REMI980T Research Grade Trinocular Biological Microscope

## Product Details

Product Number

PRO4638



## Technical Specification:

The latest REMI980 series microscope is designed for professional laboratory microscopic observation. On the one hand it has upgraded optical system , NIS infinity optics system provides excellent extendibility for this microscope, high numerical aperture (NA) plan achromatic objective and various types of optical components which have adopted multilayer coating technology could ensure the image quality. On the other hand, improving comfort and operation convenience continuously, and the LCD screen in front of the microscope displays real-time status of microscope during working, universal condenser, stopper that can be used to set the upper limit of the stage height etc., these structures ensure that beginners can use it smoothly. Ergonomic design helps you to stay focused for longer by reducing the strain on your body, which is the best choice for scientific research experimenters and medical examiners for microscopic observation.

### 1) NIS series plan achromatic objectives

REMI980 employs NIS series plan achromatic objectives, which feature flat, sharp images up to the periphery of the field of view. High numerical aperture(NA) and long working distances, with high resolution, and a wide variety of usage are available.Restore the real colors and realize accurate observation of samples.

### 2) Observation with FOV of 22mm

REMI980 can enhance efficiency of sample observation when equipped with FOV22 tubes and lenses.

### 3) Kohler illumination, uniform brightness throughout the field of view

Adding a Kohler mirror in front of light source to provide bright and uniform field of view. Matching NIS infinity optical system and high-resolution objective, provides you perfect microscopic imaging.

### 1) Comfortable and worry free focus knob

Low position focus knob design, different areas on the specimen slide can be easily explored while resting your hands on the table, with adjustable torque could improve comfort. REMI980 is equipped with a stopper that can be used to set the upper limit of the stage height, the stage stops at the set height even when the focus knob is turned, thereby eliminating the risk of over-focusing and breaking the slides or damaging the objectives.

### 2) Put Slide by one hand

Slides can be quickly slid in and out with one hand. The universal sample holder is suitable for a variety of slide types, such as Hemocytometer.

### 3) Easy-to-rotate quintuple nosepiece

High-precision machining ensures smoothness and durability in use. The nosepiece features an easy grip for smooth rotation, and accommodates up to five objectives, users can also choose 2X objective with large field of view and phase contrast objectives.

### 4) Uniform and stable brightness

The LED light source produces daylight lighting conditions, so that the sample presents a natural color. LED design life span is 50,000 hours, which not only reduces maintenance costs, but also keeps the brightness stable during use.

### 5) Universal condenser is more convenient to use

Users can switch from 4X to 100X without moving the top lens. Contrast adjustment is performed by adjusting the iris diaphragm.

### Status display

Using status including magnification, brightness, color temperature, stand by status are shown on the LCD which is in front of microscope

### Smart design

Longtime microscope observation requires frequent magnification switching, brightness adjustment, color temperature adjustment, etc. REMI980 simplifies these repetitive mechanical operations and reflected status on the LCD to improve work efficiency and provide comfortable user experience.

### 1) Maintains comfortable brightness when switching magnifications

REMI980 features intelligent light intensity management which automatically remembers and sets the light intensity level for objective, with this function, users can increase comfort and save time when the routine requires frequent magnification changes.

### 2) Color temperature adjustable

The LED light source produces daylight lighting conditions, so that the sample presents a natural color. Since the color temperature can be changed according to observation demand, even if brightness is changed, the brightness and color temperature could keep users feel comfortable.

### 3) Realize various functions with one brightness control knob

- a). Single click: enter standby status
- b). Double click: light intensity lock or unlock
- c). Rotate: adjust brightness
- d). Press and rotate up direction: adjust brightness
- e). Press and rotate down direction: adjust color temperature
- f). Hold the press for 3s: setting ECO

### 4) Automatically power off after a period of inactivity

REMI980 is equipped with an ECO mode which automatically turns off the illumination after a certain period of inactivity, the length of the inactivity period is adjustable, with ECO mode, it helps you save power and extend microscope life

### 5) Multifunctional digital head (optional)

Built-in camera device, supporting Android, iOS, Windows OS, both wired and WIFI are available. images can be shared in real time remotely via network.

## 6) Easier transportation and storage

REMI980 equipped with special handle, which is light and good in stability and stable in structure. Its back board is designed with a hub device, which effectively accommodates excessive long power cords and improves cleanliness of the laboratory. At the same time, it also reduces trip accidents caused by excessive long power cords during transportation.

Model		REMI980BB	REMI980TT
Optical System	Infinity Optical System	•	•
Viewing head	Seidentopf Binocular Viewing Head, Inclined at 30°, Interpupillary 47-78mm	•	
	Seidentopf Trinocular Viewing Head, Inclined at 30°, Interpupillary 47-78mm, Splitting ratio of Eyepiece/Camera: 50: 50 (or you can choose 100:0/0:100 to instead of 50:50 before product leaving factory)		•
Nosepiece	Backward Quintuple Coding Nosepiece, which remembers the illumination brightness when using each objectives. When different objectives are switched between each other, the light intensity is automatically adjusted to reduce visual fatigue and improve work efficiency.	•	•
Eyepiece	Wide field eyepiece WF10x/22mm, diopter adjustment +/-5, tube diameter: Φ30mm	•	•
Objectives	Infinite Plan Achromatic Objective 4x, NA 0.10, WD: 28mm	•	•
	Infinite Plan Achromatic Objective 10x, NA 0.25, WD: 10mm	•	•
	Infinite Plan Achromatic Objective 40x, NA 0.65, spring loaded, WD: 0.7mm	•	•
	Infinite Plan Achromatic Objective 100x, NA 1.25, spring loaded, oil, WD: 0.18mm	•	•
Stage	Synchronous belt platform stage 235mmx150mm, XY Moving Range 78mmx54mm, Metal clips for glass slides, hard oxidized platform surface, table surface can be replaced	•	•
Focusing	Low-hand position coarse and fine coaxial focusing mechanism, Coarse Stroke 37.7mm per Rotation, Fine division 0.001mm, Fine Stroke 0.2mm per Rotation, Focal Distance 30mm, With adjusting elastic device and upper limit, with platform up and down adjustment mechanism, the height of the stage bracket group is adjustable	•	•
Condenser	Abbe 0.9/1.25 condenser with adjustable height, Full-Köhler type for bright field, dark field and Ph2 phase contrast	•	•
Illumination	3W LED module or 6W/30W halogen module lighting, color temperature and brightness adjustable. Matrix lens for uniform field illumination. The brightness of the entire field of view is uniform. The color temperature can be adjusted to the lighting effects as LED illumination or halogen illumination according to the user needs. Transmitted and fluorescent lighting button switch; identify and display the band on the LCD screen.	•	•
LCD Screen	The LCD screen on the front of the microscope displays the use status of the microscope, including magnification, light intensity, standby status, lock etc.	•	•
ECO function	The ECO function is able to avoid unnecessary loss of energy. The illumination of the microscope automatically switches off shortly after microscopists step away from their position for some time (the time can be pre-set as user need)	•	•
Supplied with	Dust cover, spare fuse, green filter, manual, immersion oil	•	•
Power	100-240V, 50/60Hz	•	•

## Optional Accessories

Cat. Number	Descriptions
M112758001	Seidentopf trinocular head, inclined at 30°, interpupillary distance 47-78mm
M112758002	Seidentopf binocular head, inclined at 30°, interpupillary distance 47-78mm, beam split ratio for eyepiece/trinocular port=50:50
M112758003	Seidentopf binocular head, inclined at 30°, interpupillary distance 47-78mm, beam split ratio for eyepiece/trinocular port=100:0/0:100
M112758004	Ergo. titling trinocular head, adjustable from 0° to 35°, interpupillary distance 47-78mm, beam split ratio for eyepiece/trinocular port=100:0/80:20/0:100
M112758005	Digital viewing head, inclined at 30°, interpupillary distance 47-78mm, 5MP
M112758006	Wireless digital viewing head, inclined at 30°, interpupillary distance 47-78mm, 5MP
M112758007	Super wide field WF10x/22mm eyepiece, with diopter adjustment -5~+5, Ø30mm tube
M112758008	Super wide field WF10x/22 mm eyepiece with cross-hair, Ø30mm tube
M112758009	Wide field WF 12.5x/17.5mm eyepiece, Ø30mm tube
M112758010	Wide field WF 15x/16mm eyepiece, Ø30mm tube
M112758011	Wide field WF 20x/12mm eyepiece, Ø30mm tube
M112758012	Reticle for eyepiece
M112758013	Eyecup for eyepiece
M112758014	Micrometer for stage
M112758015	Quintuple coding reversed nosepiece
M112758016	Sextuple coding reversed nosepiece
M112758017	Plan achromatic infinity corrected objective, NIS60 Plan 2x/0.06
M112758018	Plan achromatic infinity corrected objective, NIS60 Plan 4x/0.10
M112758019	Plan achromatic infinity corrected objective, NIS60 Plan 10x/0.25
M112758020	Plan achromatic infinity corrected objective, NIS60 Plan 20x/0.40
M112758021	Plan achromatic infinity corrected objective, NIS60 Plan S40x/0.65
M112758022	Plan achromatic infinity corrected objective, NIS60 Plan S60x/0.80
M112758023	Plan achromatic infinity corrected objective, NIS60 Plan S100x/1.25 oil immersion
M112758024	Plan achromatic infinity corrected objective 100x/1.25 oil immersion, with built-in iris diaphragm for darkfield applications, working distance 0.2 mm
M112758025	Plan Semi-APOCHROMATIC infinity corrected objective, PlanF S-Apo 4x/0.13, working distance 16.5 mm
M112758026	Plan Semi-APOCHROMATIC infinity corrected objective, PlanF S-Apo 10x/0.30, working distance 8.1 mm
M112758027	Plan Semi-APOCHROMATIC infinity corrected objective, PlanF S-Apo 20x/0.50, working distance 2.1 mm
M112758028	Plan Semi-APOCHROMATIC infinity corrected objective, PlanF S-Apo 40x/0.75, working distance 0.7 mm
M112758029	Plan Semi-APOCHROMATIC infinity corrected objective, PlanF S-Apo 100x/1.30, oil immersion, W.D.: 0.15 mm

M112758030	Plan Phase infinity corrected objective, Plan 10x/0.25 Ph, working distance 10.2 mm
M112758031	Plan Phase infinity corrected objective, Plan 20x/0.40 Ph, working distance 12 mm
M112758032	Plan Phase infinity corrected objective, Plan 40x/0.65 Ph, working distance 0.7 mm
M112758033	Plan Phase infinity corrected objective, Plan 100x/1.25 Ph, oil immersion working distance 0.2 mm
M112758034	Abbe condenser 0.9, with iris diaphragm
M112758035	Abbe condenser 0.9/0.25 with swing-out front lens
M112758036	Zernike phase contrast set, with Plan Phase 10/20/S40/S100x objectives, phase contrast condenser, telescope and green filter
M112758037	Zernike Phase contrast Abbe condenser with 4 phase annuli
M112758038	Telescope for phase contrast alignment, Ø 30 mm tube
M112758039	NA0.7-0.9 Dark field condenser (Dry)
M112758040	NA1.3-1.26 Dark field condenser (Oil)
M112758041	Simple polarization kit, consisting of reflected polarizer in slider and reflected analyzer
M112758042	Rackless stage 235X150mm,moving range 78mmX54mm, with insert hard oxidized stage
M112758043	Rackless stage 235X150mm,moving range 78mmX54mm, with insert bytempered glass stage
M112758044	Rackless stage 235X150mm,moving range 78mmX54mm, with insert sapphire stage
M112758045	Hard oxidized inserted for stage
M112758046	Bytempered glass inserted for stage
M112758047	Sapphire glass inserted for stage
M112758048	LED illuminator replacement unit
M112758049	LED Epi-Fluorescent Attachment: including 3 wave-4-position fluorescent turret with iris diaphragm; fluorescent filter block B & G excitation filter block included; LED illuminator light source; protection barrier to resist the ultraviolet light; fluorescent oil.
M112758050	Epi-Fluorescent Attachment "FL-800", equipped with a rotating block which contain max. 6 filter cubes. Supplied with 100 W HBO mercury vapor light source for spectrum broad powerful light NFP-1, 220V/110V interchangeable, with digital display and timer; Protection barrier to resist the ultraviolet light Standard supplied with standard fluorescence filters sets for Blue excitation and Green excitation, Fluorescence Free Oil
M112758051	Empty filter cube for fluorescence attachment
M112758052	Filter set for blue excitation, EX: 460-490 nm BP, DM: 500 nm, EM: 520 nm LP (needs empty filter cube)
M112758053	Filter set for green excitation, EX: 510-550 nm BP, DM: 570 nm, EM: 590 nm LP (needs empty filter cube)
M112758054	Filter set for violet excitation, EX: 400-410 nm BP, DM: 455 nm, EM: 460 nm LP (needs empty filter cube)
M112758055	Filter set for ultra-violet excitation, EX: 330-385 nm BP, DM: 400 nm, EM: 420 nm LP (needs empty filter cube)
M112758056	Fitler set for red excitation: BP620-650, Dichroic Mirror: DM660, Barrier: BA670-750 (needs empty filter cube)
M112758057	LED illuminator lamp (replacement) for fluorescent illumination
M112758058	FL-ND6 filter
M112758059	FL-ND25 filter
M112758060	C-mount with 1x for C-mount camera

M112758061	C-mount with high resolution relay 0.50x objective for 1/2" C-mount camera
M112758062	C-mount with high resolution relay 0.35x objective for 1/3" C-mount camera
M112758063	C-mount with high resolution relay 0.63x objective for 2/3" C-mount camera
M112758064	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
M112758065	T2 ring for Nikon D SLR digital camera
M112758066	T2 ring for Canon EOS SLR digital camera
***	Digital Camera (Please refer to our digital camera brochure)

### 3.

M112758036	Zernike phase contrast set, with Plan Phase 10/20/S40/S100x objectives, phase contrast condenser, telescope and green filter
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M112758022	Plan achromatic infinity corrected objective, NIS60 Plan 560x/0.80
M112758023	Plan achromatic infinity corrected objective, NIS60 Plan 5100x/1.25 oil immersion
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1.

• Optical System:	Infinity Optical System	What does this page say about "BE580"?
• Viewing head:	Seidentopf Trinocular Viewing Head, Inclined at 30°, Interpupillary 47-78mm, Splitting ratio of Eyepiece/Camera: 50: 50 (or you can choose 100:0/0:100 to instead of 50:50 before product leaving factory)	
• Nosepiece:	Backward Quintuple Coding Nosepiece, which remembers the illumination brightness when using each objectives. When different objectives are switched between each other, the light intensity is automatically adjusted to reduce visual fatigue and improve work efficiency.	
• Eyepiece:	Wide field eyepiece WF10x/22mm, diopter adjustment +/-5, tube diameter: Ø30mm	
• Objectives:	NIS60 Infinite Plan Achromatic Objective 4x, NA 0.10, WD: 28mm NIS60 Infinite Plan Achromatic Objective 10x, NA 0.25, WD: 10mm NIS60 Infinite Plan Achromatic Objective 40x, NA 0.65, spring loaded, WD: 0.7mm NIS60 Infinite Plan Achromatic Objective 100x, NA 1.25, spring loaded, oil, WD: 0.18mm	
• Stage:	Synchronous belt platform stage 235mmx150mm, XY Moving Range 78mmx54mm, Metal clips for glass slides, hard oxidized platform surface, table surface can be replaced	
• Focusing:	Low-hand position coarse and fine coaxial focusing mechanism, Coarse Stroke 37.7mm per Rotation, Fine division 0.001mm, Fine Stroke 0.2mm per Rotation, Focal Disatnce 28mm, With adjusting elastic device and upper limit, with platform up and down adjustment mechanism, the height of the stage bracket group is adjustable	
• Condenser:	Abbe 0.9/1.25 condenser with adjustable height "Full-Köhler" type for bright field, dark field and Ph2 phase contrast	
• Illumination:	3W LED module or 6W/30W halogen module lighting, color tempearture and brightnss adjustable. Matrix lens for uniform field illumination. The brightness of the entire field of view is uniform. The color temperature can be adjusted to the lighting effects as LED illumination or halogen illumination according to the user needs. Transmitted and fluorescent lighting button switch; identify and display the band on the LCD screen.	
• LCD Screen:	The LCD screen on the front of the microscope displays the use status of the microscope, including magnification, light intensity, standby status, lock etc.	
• ECO function:	The ECO function is able to avoid unnecessary loss of energy. The illumination of the microscope automatically switches off shortly after microscopists step away from their position for some time (the time can be pre-set as user need)	
• Fluorescent Kit:	LED Epi-Fluorescent Attachment: including 3 wave-4-position fluorescent turret with iris diaphragm; fluorescent filter block B & G excitation filter block included; LED illuminator light source; protection barrier to resist the ultraviolet light; fluorescent oil. Supplied with standard fluorescence filters sets for Blue excitation and Green excitation BLUE Filter Block: Excitation BP460~490 - Dichroic Mirror DM500 - Barrier Filter BA520 GREEN Filter Block: Excitation BP510~550 - Dichroic Mirror DM570 - Barrier Filter BA590	
• Supplied with:	Dust cover, spare fuse, green filter, manual, immersion oil	
• Power:	100-240V 50/60Hz	

## Accessories: