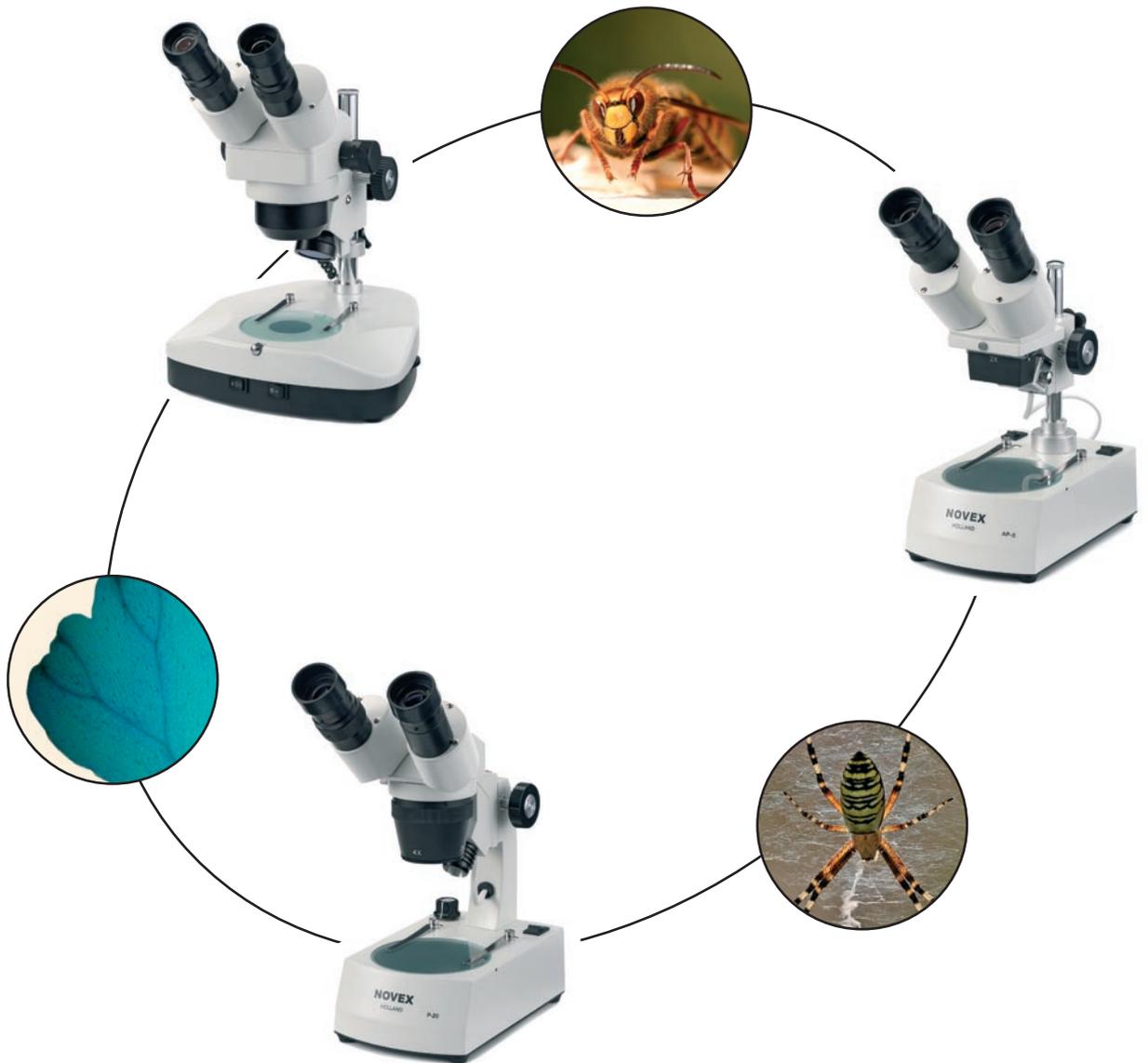


# NOVEX<sup>®</sup>



EDUCATION

AP/P-series

AR-series

Stereo microscopes

# AP and P-series Stereo microscopes

These Novex stereo microscopes are perfectly suited for educational purposes as well as for nature observation and amateur usage. With a stereo microscope both transparent and non-transparent objects can be observed e.g. insects, plants, minerals, gems, stamps and coins as well as small mechanical or electronic parts. The choice of a stereo microscope is determined by the size and structure of the object. A lower magnification provides a larger field of view, a larger working distance and a larger depth detail.



**AP-1**  
50.890

**AP-2**  
50.900



The AP-1 and AP-2 stereo microscopes have a vertical binocular head with dioptré adjustment and adjustable eye separation of 55 to 75 mm. Focussing movement is adjusted by two knobs via a transmission clutch. The stand is made of light metal and is supplied with black-white stage plate.

**AP-4**  
50.915



The AP-2 is equipped with a built-in 12 Volt 10 Watt incident illuminator.

With the optional WF 5x, WF 15x and WF 20x eyepieces and interchangeable objectives 1x, 3x, 4x and 6x magnifications of 5x to 120x can be reached.

The AP-1, AP-2 and AP-4 are supplied as standard with WF 10x/20 eyepieces and a 2x objective.

Model	Binocular	Eyepiece <sup>(1)</sup>	Objective	Magnification	Illumination <sup>(2)</sup>	Field of view
AP-1 50.890	Vertical, fixed	WF 10x	2x dovetailed	20x	none	10 mm
AP-2 50.900	Vertical, fixed	WF 10x	2x dovetailed	20x	12 V 10 W incident	10 mm
AP-4 50.915	45° inclined	WF 10x	2x dovetailed	20x	12 V 10 W incident	10 mm
AP-5 50.920	45° inclined	WF 10x	2x dovetailed	20x	12 V 10 W incident and transmitted <sup>(3)</sup>	10 mm

(1) The eyepieces are firmly secured with a screw

(2) With built-in transformer and cable

(3) Illuminators cannot be operated simultaneously, except models P-10 and P-20



The AP-4 and AP-5 models have a 45° mounted binocular head with dovetailed objectives and are supplied as standard with a 2x objective and secured WF 10x/20 eyepieces. With the optional interchangeable objectives 1x, 3x, 4x and 6x and optional eyepieces WF 5x, WF 15x and WF 20x, magnifications of 5 to 120 times can be reached. The AP-4 and AP-5 types have a 12 Volt, 10 Watt incident illuminator. The AP-5 also has transmitted illumination.



**AP-5**  
50.920

The AP-7 is equipped with a revolving 1x/3x objective. The AP-8 has a revolving 2x/4x objective. Both models are supplied as standard with secured WF 10x/20 eyepieces.

The AP-7 and AP-8 are supplied with 12 Volt, 10 Watt incident and transmitted illumination (50.925 and 50.930). The AP-7 LED and AP-8 LED have LED illumination (50.926 and 50.931).



**AP-7**  
50.925  
50.926

**AP-8**  
50.930  
50.931

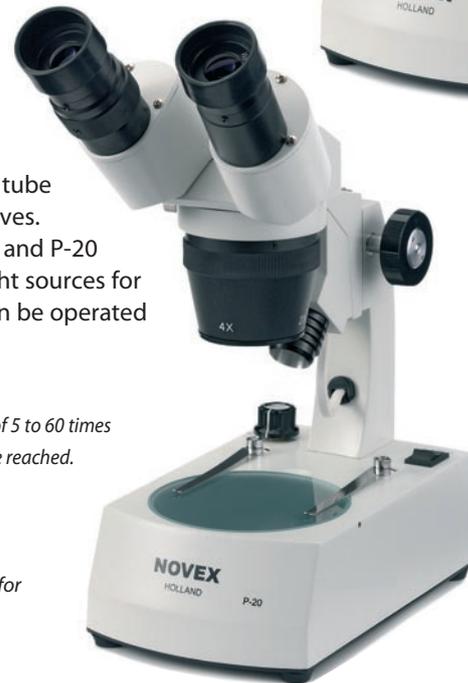
\* The incident LED illumination can be used continuously for 35 hours  
\* The LED models come with three rechargeable 2000 Ma NiMH AA-batteries with 200 mA battery charger

The P-10 and P-20 are equipped with a 360° revolving binocular tube and have a revolving objective turret with 1x/3x or 2x/4x objectives. Secured WF10x/20 eyepieces are supplied as standard. The P-10 and P-20 microscopes have powerful 12 Volts, 10 Watt halogen or LED light sources for both incident and transmitted illumination. Both illuminators can be operated independently or simultaneously.

With the optional eyepieces WF 5x, WF 15x and WF 20x you can reach magnifications of 5 to 60 times with the AP-7 and P-10. With the AP-8 and P-20 magnifications of 10 to 80 times can be reached.

All AP and P models are supplied with a black-white stage plate.

The AP-5, AP-7, AP-8, P-10 and P-20 models also have a transparent stage plate for transmitted illumination.



**P-10**  
60.100 / 60.110  
**P-20**  
60.200 / 60.210

Model	Binocular	Objective	Magnification	Illumination <sup>(2) (3)</sup>	Field of view
<b>AP-7 and AP-7 LED</b>					
50.925	45° inclined	1 x / 3x rotating	10x / 30x	12 Volt 10 Watt incident and transmitted	20 / 6.7 mm
50.926	45° inclined	1 x / 3x rotating	10x / 30x	LED, incident and transmitted	20 / 6.7 mm
<b>AP-8 and AP-8 LED</b>					
50.930	45° inclined	2 x / 4x rotating	20x / 40x	12 Volt 10 Watt incident and transmitted	10 / 5 mm
50.931	45° inclined	2 x / 4x rotating	20x / 40x	LED, incident and transmitted	10 / 5 mm
<b>P-10 and P-20</b>					
60.100	45° inclined, 360°	1x / 3x rotating	10x / 30x	12 Volt 10 Watt incident and transmitted	20 / 6.7 mm
60.200	45° inclined, 360°	2x / 4x rotating	20x / 40x	12 Volt 10 Watt incident and transmitted	10 / 5 mm
60.110	45° inclined, 360°	1x / 3x rotating	10x / 30x	LED, incident and transmitted	10 / 5 mm
60.210	45° inclined, 360°	2x / 4x rotating	20x / 40x	LED, incident and transmitted	10 / 5 mm

(2) With built-in transformer and cable

(3) Illuminators cannot be operated simultaneously, except models P-10 and P-20



# AR-series

*The AR-Zoom and AR-Stereo microscopes are characterised by their attractive shape and affordable prices. Specially designed to meet the most common demands of education as well as those of the amateur biologist, entomologist, geologist, mechanical or electronic engineer.*

## AR-Zoom

Binocular  
64.200

Trinocular  
64.210



The microscopes of the Novex AR-series are equipped with an ergonomic base which provides a very good stability.

Supplied with both transparent and black/white stage plates and two object clamps.

The stand has a 260 mm chrome plated vertical post with a diameter of 20 mm.

Equipped with both incident and transmitted 12 Volt 10 Watt adjustable halogen illuminations with daylight filter (64.200 / 64.210) or both incident and transmitted adjustable LED illuminations (64.400 / 64.410)

## AR-Stereo

64.220

The AR-Stereo and AR-Zoom are equipped with two secured WF 10x/22 eyepieces and a 45° binocular viewing head which can rotate 360°.

The AR-Zoom also comes as a trinocular version onto which a camera can be mounted by means of optional adaptors.

Optional supplementary objectives, 0.5x, 1.5x and 2x, can be supplied to achieve other magnifications and working distances. Eyepieces WF 5x, WF 15x, WF 20x and WF 10x with micrometer are available.

The AR-Stereo microscope has identical specification to the AR-zoom but is equipped with fixed 2x / 4x objectives in a revolving objective turret.

## AR-Zoom LED

64.400 / 64.410



Model	Tube	Magnification <sup>(4)</sup>	Working distance	Illumination	Field of view
<b>AR-Zoom</b>					
64.200	Binocular, zoom ratio 1:4	10x - 40x	85 mm	Halogen 12 V 10 W <sup>(2)</sup>	22 - 5.5 mm
64.210	Trinocular, zoom ratio 1:4	10x - 40x	85 mm	Halogen 12 V 10 W <sup>(2)</sup>	22 - 5.5 mm
64.400	Binocular, zoom ratio 1:4	10x - 40x	85 mm	LED illuminations	22 - 5.5 mm
64.410	Trinocular, zoom ratio 1:4	10x - 40x	85 mm	LED illuminations	22 - 5.5 mm
<b>AR-Stereo</b>					
64.220	Binocular, rotating objective	20x / 40x	80 mm	Halogen 12 V 10 W <sup>(2)</sup>	11 / 5,5 mm

<sup>(2)</sup> With built-in transformer and cable

<sup>(4)</sup> With standard WF10x/22 eyepieces

# Accessories

## Wide field eyepieces

50.805	Paired eyepieces WF 5x / 22
50.810	Paired eyepieces WF 10x / 20
50.811	Eyepiece WF 10x with micrometer graticule 10 mm / 100 parts
50.815	Paired eyepieces WF 15x / 16
50.820	Paired eyepieces WF 20x / 10

## Interchangeable achromatic objectives

for AP-1, AP-2, AP-4 and AP-5

50.831	Objective 1x, working distance 50 mm
50.832	Objective 2x, working distance 75 mm
50.833	Objective 3x, working distance 60 mm
50.834	Objective 4x, working distance 55 mm
50.836	Objective 6x, working distance 35 mm

## Supplementary lenses for AR-Zoom and AR-Stereo

64.305	Supplementary lens 0,5x, working distance 172 mm
64.315	Supplementary lens 1.5x, working distance 42 mm
64.320	Supplementary lens 2x, working distance 28 mm

## Miscellaneous

50.840	Pair of eyecups, fits all eyepieces
50.871	Stage plate black/white, $\varnothing$ 94 mm
50.873	Stage plate opaque, $\varnothing$ 94 mm
50.875	Adjustable object clamp for gems etc.
50.876	Dark field attachment for transmitted illumination Suitable for observation of colourless or transparent objects e.g. gems, contact lenses
50.882	Spare halogen bulb 12 volt, 10 watt for P and AR series (for transmitted illumination)
50.884	Spare bulb 12 volt 10 watt for AP series
64.884	Spare halogen bulb for AR series, 12 Volt 10 Watt with reflector (for incident illumination)
50.960	Wooden cabinet with handle and lock for AP and P series
50.961	Plastic cabinet with lock for AP and P series

*Camera adapters and T2 rings for SLR available on request*



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