

# NexiusZoom(EVO)

for gemology

## HIGHLIGHTS

- Designed for gemstone research
- Binocular and trinocular heads
- Standard HWF 10x eyepieces with 22 mm or 23 mm field of view
- Zoom objectives with 0.7 to 4.5x or 0.65 to 5.5x magnification
- Ergonomically designed backwards tilting stand
- 30 Watt halogen transmitted illumination
- 1W LED or 7W fluorescent incident illumination
- Configurations up to 220x magnification



● NZ.1703-GEML



● NZ.1902-GEML



● NZ.1903-GEMF



● NZ.1702-GEMF

## TECHNICAL SPECIFICATIONS

### EYEPIECES

The standard NexiusZoom is supplied with a pair of HWF 10x/22 mm eyepieces. The NexiusZoom Evo is supplied with a pair of HWF 10x/23 mm eyepieces

### HEAD

Binocular or trinocular heads with 45° inclined tubes. Both eyepieces with ± 5 diopter adjustments. Interpupillary distance adjustable between 54 mm and 75 mm

### OBJECTIVES

The standard NexiusZoom is supplied with a 1:6.7 zoom objective with 0.67x to 4.5x magnifications, a field of view from 33 mm to 4.9 mm. Working distance 110 mm. Standard magnification is 6.7 to 45x

The NexiusZoom Evo is supplied with a 1:8.4 zoom objective with 0.65x to 5.5x magnifications, a field of view from 35.4 mm to 4.2 mm. Working distance approx. 110 mm. Standard magnification is 6.5 to 55x

Auxiliary lenses 0.75x, 1.5x and 2.0x are available.

*All optics are anti-fungus treated and anti-reflection coated for maximum light throughput*

### STAND

Ergonomically designed stand with backwards 0 to 45° tilting arm with 76 mm head holder, suitable for darkfield and brightfield. Built-in 100-240 V power supply

### STAGE

Flat darkfield stage with clamp object holder, iris diaphragm and incident illumination. Clamp object holder can be placed on left or right side

### ILLUMINATION

30 Watt halogen transmitted illumination. 1 Watt LED with adjustable intensity, or 7 Watt fluorescent incident illumination, intensity not adjustable. Both illuminators can be used simultaneously

### PACKAGE CONTENT

Supplied with power cord, clamp object holder, dust cover, a spare fuse and user manual. All packed in a polystyrene box

| MODELS       | Binocular | Trinocular | Objective 0.67-4.5 | Objective 0.65-5.5 | 1 W LED incident illumination | 7 W fluorescent incident illumination | 30 W halogen transmitted illumination | Working distance (mm) |
|--------------|-----------|------------|--------------------|--------------------|-------------------------------|---------------------------------------|---------------------------------------|-----------------------|
| NZ.1902-GEML | •         |            | •                  |                    | •                             |                                       | •                                     | 110                   |
| NZ.1902-GEMF | •         |            | •                  |                    |                               | •                                     | •                                     | 110                   |
| NZ.1702-GEML | •         |            |                    | •                  | •                             |                                       | •                                     | 110                   |
| NZ.1702-GEMF | •         |            |                    | •                  |                               | •                                     | •                                     | 110                   |
| NZ.1903-GEML |           | •          | •                  |                    | •                             |                                       | •                                     | 110                   |
| NZ.1903-GEMF |           | •          | •                  |                    |                               | •                                     | •                                     | 110                   |
| NZ.1703-GEML |           | •          |                    | •                  | •                             |                                       | •                                     | 110                   |
| NZ.1703-GEMF |           | •          |                    | •                  |                               | •                                     | •                                     | 110                   |

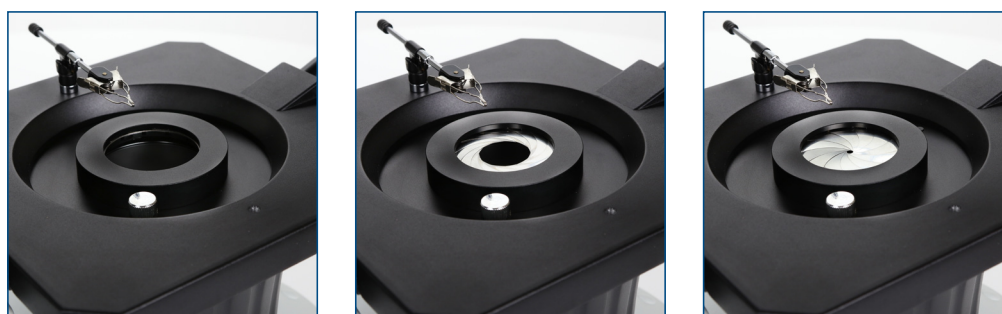
### MAGNIFICATIONS

**NexusZoom** Working distance and field of view with standard HWF 10x / 22 High Wide Field eyepieces

| Zoom indication | Objective 1x (standard)<br>Working distance 110 mm |                     | Auxiliary lens 0.75x<br>Working distance 120 mm |                     | Auxiliary lens 1.5x<br>Working distance 53 mm |                     | Auxiliary lens 2x<br>Working distance 30 mm |                     |
|-----------------|--|---------------------|---|---------------------|---|---------------------|---|---------------------|
|                 | Total Magnifications                               | Field of view in mm | Total Magnifications                            | Field of view in mm | Total Magnifications                          | Field of view in mm | Total Magnifications                        | Field of view in mm |
| 0.67            | 6.7  | 32.8                | 5.0   | 43.8                | 10.1  | 21.9                | 13.4  | 16.4                |
| 0.7             | 7.0  | 31.4                | 5.3   | 41.9                | 10.5  | 21.0                | 14.0  | 15.7                |
| 0.8             | 8.0  | 27.5                | 6.0   | 36.7                | 12.0  | 18.3                | 16.0  | 13.8                |
| 1.0             | 10.0   | 22.0                | 7.5   | 29.3                | 15.0  | 14.7                | 20.0  | 11.0                |
| 1.5             | 15.0   | 14.7                | 11.3  | 19.6                | 22.5  | 9.8                 | 30.0  | 7.3                 |
| 2.0             | 20.0   | 11.0                | 15.0  | 14.7                | 30.0  | 7.3                 | 40.0  | 5.5                 |
| 3.0             | 30.0   | 7.3                 | 22.5  | 9.8                 | 45.0  | 4.9                 | 60.0  | 3.7                 |
| 4.0             | 40.0   | 5.5                 | 30.0  | 7.3                 | 60.0  | 3.7                 | 80.0  | 2.8                 |
| 4.5             | 45.0   | 4.9                 | 33.8  | 6.5                 | 67.5  | 3.3                 | 90.0  | 2.4                 |

**NexusZoom Evo** Working distance and field of view with standard HWF 10x / 23 High Wide Field eyepieces

| Zoom indication | Objective 1x (standard)<br>Working distance 110 mm |                     | Auxiliary lens 0.75x<br>Working distance 120 mm |                     | Auxiliary lens 1.5x<br>Working distance 53 mm |                     | Auxiliary lens 2x<br>Working distance 30 mm |                     |
|-----------------|--|---------------------|---|---------------------|---|---------------------|---|---------------------|
|                 | Total Magnifications                               | Field of view in mm | Total Magnifications                            | Field of view in mm | Total Magnifications                          | Field of view in mm | Total Magnifications                        | Field of view in mm |
| 0.65            | 6.5  | 35.4                | 4.9   | 47.2                | 9.8   | 23.6                | 13.0  | 17.7                |
| 0.7             | 7.0  | 32.9                | 5.3   | 43.4                | 10.5  | 21.9                | 14.0  | 16.4                |
| 0.8             | 8.0  | 28.8                | 6.0   | 38.3                | 12.0  | 19.2                | 16.0  | 14.4                |
| 1.0             | 10.0   | 23.0                | 7.5   | 30.7                | 15.0  | 15.3                | 20.0  | 11.5                |
| 1.5             | 15.0   | 15.3                | 11.3  | 20.4                | 22.5  | 10.2                | 30.0  | 7.7                 |
| 2.0             | 20.0   | 11.5                | 15.0  | 15.3                | 30.0  | 7.7                 | 40.0  | 5.8                 |
| 3.0             | 30.0   | 7.7                 | 22.5  | 10.2                | 45.0  | 5.1                 | 60.0  | 3.8                 |
| 4.0             | 40.0   | 5.8                 | 30.0  | 7.7                 | 60.0  | 3.8                 | 80.0  | 2.9                 |
| 4.5             | 45.0   | 5.1                 | 33.8  | 6.8                 | 67.5  | 3.4                 | 90.0  | 2.6                 |
| 5.5             | 55.0   | 4.2                 | 41.3  | 5.6                 | 82.5  | 2.8                 | 110   | 2.1                 |



## ACCESSORIES AND SPARE PARTS

- NZ.5302** NexiusZoom binocular head with eyepieces
- NZ.5303** NexiusZoom trinocular head with eyepieces
- NZ.5312** NexiusZoom EVO binocular head with eyepieces
- NZ.5313** NexiusZoom EVO trinocular head with eyepieces
  
- NZ.6010** Pair of HWF 10x / 22 mm eyepieces
- NZ.6210** Pair of HWF 10x / 23 mm eyepieces  
(only suitable for NexiusZoom EVO)
- NZ.6015** Pair of HWF 15x / 16 mm eyepieces
- NZ.6020** Pair of HWF 20x / 12 mm eyepieces
- NZ.6110** HWF 10x / 22 mm eyepiece with micrometer
- NZ.6099** Pair of eyecups
  
- NZ.8907** Auxiliary lens 0.75x. Working distance 120 mm
- NZ.8915** Auxiliary lens 1.5x. Working distance 53 mm
- NZ.8920** Auxiliary lens 2.0x. Working distance 30 mm.  
Not suitable for NZ.1902-S and NZ.1903-S
- NZ.8950** Protection glass for NexiusZoom head.  
Not suitable with auxiliary lenses
  
- NZ.9525** 360° rotatable analyzer in mount  
to be screwed under head of NexiusZoom
- NZ.9527** Polarization filter for GEM stands of NexiusZoom
- NZ.9572-G** Adjustable GEM object clamp for  
NexiusZoom with tilting stand for gemology
- NZ.9850** C-mount adapter with 0.5x lens for 1/2" cameras.  
Suitable for trinocular models
  
- AE.5130** Universal SLR camera adapter with 2x projection lens for 23.2  
mm tubes. Needs T2 adapter
- AE.5025** T2 adapter for Nikon D digital SLR cameras
- AE.5040** T2 adapter for Canon EOS digital SLR cameras  
*Other T2 adapters on request*
  
- AE.1112** Object micrometer 50 mm (divided in 500 parts on glass slide  
76 x 26 mm)
- SL.3678** Halogen spare bulb 6V, 30 W for NexiusZoom gemology



● NZ.1902-GEML