



High Power
LED ring
illumination

 **euromex**[®]

High Power LED Ring Light Illuminators

LEDs are the newest technology for illumination in microscopy that have gained acceptance in both quality control applications and in production. These illumination solutions can be diffuse or optimized with dedicated Fresnel lenses for shorter or longer working distances. Light emitting diodes have the advantage of being a cold light source with a constant spectral output over very long life times.

| LED Ring Light | LE.1980 | LE.1981 | LE.1990 | LE.1991 |
|-----------------------|-----------------------|------------------------|-----------------------|------------------------|
| Number of LEDs | 48 LED | 48 LED | 72 LED | 72 LED |
| Min mounting diameter | 45 mm | 45 mm | 60 mm | 60 mm |
| Max mounting diameter | 66 mm | 66 mm | 66 mm | 66 mm |
| Outer diameter | 90 mm | 90 mm | 110 mm | 110 mm |
| Color temperature | 6000 K | 6000 K | 6000 K | 6000 K |
| Illuminance | 13.000 Lux | 13.000 Lux | 16.000 Lux | 16.000 Lux |
| Nominal current | 340 mA | 340 mA | 520 mA | 520 mA |
| Output connector | for analog controller | for digital controller | for analog controller | for digital controller |

Power supplies / Controllers

LE.1992 100-230 V power supply
Analog controller
Intensity adjustable from 0-100 %



LE.1993 100-230 V power supply
Digital 9 segment controller
Intensity adjustable from 0-100 %



Options

| | LE.1980/1981 | LE.1990/1991 |
|--------------------------------|--------------|---------------|
| Diffusor glass plate | LE.1984 | LE.1994 |
| Fresnel lens (WD 45-80 mm) | LE.1984-050 | LE.1994-050 |
| Fresnel lens (WD 80-150 mm) | LE.1984-100 | LE.1994-100 |
| Fresnel lens (WD 150-230 mm) | LE.1984-200 | LE.1994-200 |
| Protection glass plate | LE.1985 | LE.1995 |
| Darkfield equipment | LE.1986 | not available |
| Polarizer filter | LE.1987 | LE.1997 |
| Polarizer / Analyzer kit | LE.1988 | not available |
| Indirect illumination dome | LE.1989 | not available |

(WD = working distance)

Remarks for LE.1990 and LE.1991 LED Ring Lights:

- Compatible with all objectifs and stands of the Euromex D serie stereo microscope
- Compatible with Euromex ST.1710, ST.1715, ST.1717 stands when used with stereo heads ZE.1624, ZE.1654, ZE.1670, ZE.1671
- Can be used with Euromex ST.1740 stand, only when the incident illumination is removed from ST.1740 stand (We recommend to use the LE.1980 or LE.1981 instead)
- Use AE.5247 mounting adapter when used with EE.1522, EE.1552, EE.1523, EE.1553 when used **without** additional lenses
- Use AE.5248 mounting adapter when used with EE.1524, EE.1554 when used **without** additional lenses
- Use 68.868 mouting adapter when Novex 65.500 or 65.510 stereo microscopes are used **without** additional lenses
- Use 68.869 mouting adapter when Novex 65.500 or 65.510 stereo microscopes are used **with** additional lenses
- Can be used with with Novex 65.550 and 65.560 stereo microscopes, only when the incident illumination is removed from SF stand (We recommend to use the LE.1980 or LE.1981 instead)

Remarks for LE.1990 and LE.1981 LED Ring Lights:

- Not compatible for the Euromex D serie stereo microscope
- Compatible with Euromex ST.1710, ST.1715, ST.1717, ST.1740 stands when used with stereo heads ZE.1624, ZE.1654, ZE.1670, ZE.1671
- Use AE.5247 mounting adapter when used with EE.1522, EE.1552, EE.1523, EE.1553 when used **without** additional lenses
- Use AE.5248 mounting adapter when used with EE.1524, EE.1554 when used **without** additional lenses
- Use 68.868 mouting adapter when Novex 65.500 or 65.510 stereo microscopes are used **without** additional lenses
- Use 68.869 mouting adapter when Novex 65.500 or 65.510 stereo microscopes are used **with** additional lenses