Colposcope
MIKRO EZ5 LED
MIKRO M50 LED
MIKRO M60 LED
Latest technology for routine?  
– Why not!

MIKRO EZ5 LED

Leica optics is synonymous with superior optical quality in surgical microscopes, classical microscopes and stereomicroscopes the world over. Now you can appreciate it even in routine work in gynaecological ambulance.

The colposcope MIKRO is characterized not only by outstanding optical performance of Leica optics, but also by state-of-the-art technology. Zoom magnification stepless changer with range 5:1 enable parfocal observations from overview to detail by turning the zoom knob.

High magnification requires high light intensity. Efficient new PowerLED direct lightsources gives the user brilliant illumination with virtually endless lifetime. Long-lasting LED technology reduces costs and spare-parts worries.

Even in routine clinical examinations patient comfort demands easy maneuverability and quick positioning of colposcope into focus position. The colposcope double-arm construction and fast vertical and horizontal adjustment completely fulfills these requirements.

For more confident diagnosis

MIKRO M50 LED
MIKRO M60 LED

with discussion and documentation in full HD

The MIKRO colposcope is characterised not only by outstanding optical properties, but also by perfect functioning throughout the long life of the product and by the extent to which it accommodates to the requirements of the gynaecologists. Leica offers a comprehensive range of accessories for all imaginable tasks in investigation, training and documentation. The MIKRO colposcope also represents a good long term investment with regards to these aspects. Viewed objectively, no colposcope on the market today offers a better price-performance ratio.

The performance features

Excellent Leica zoom optics with zoom ratio 5:1 and 4,2x – 21x total range of magnification with 250mm working distance. Leica high eyepoint eyepieces feature dioptry correction to enable examination with or without spectacles.

8 pcs Power LEDs with brillinat intensity of illumination with automatic switch on/off function. LED lifetime is approximately 20,000 hours with very low electricity consumtion.

Very easy horizontal and vertical manueuverability. In preadjusted working position, optical head swings in and out for immediate use in less then one second with quick and easy focusing by moving horizontal arm.
Choice of step- or zoom magnification changer

MIKRO colposcope is equipped either with Leica M50LED five-step magnification changer or with Leica M60LED 6:1 zoom optics carrier. Leica objectives and eyepieces give not only crisp image, but even great depth of field known by Leica users.

LED it be ...

Because the site of the examination is generally recessed and is accessed via narrow passage, the MIKRO colposcope is equipped with strong PowerLED diodes. This state-of-the-art technology gives not only bright, uniform, adjustable and automatically switched on/off illumination, but the LED lifetime is almost endless. No concern about lamps replacement and blinding of lightguides.

A built-in green filter can be swung into position to increase the contrast and so that structures can be better differentiated.

Versatile and easily manoeuvrable stand

The stable rollable stand is designed for easy placing of the colposcope by the chair from any side. MIKRO colposcope can be fitted to the left or right of the patient’s chair directly, whatever the design. Smooth-running vertical and horizontal movements enable millimetre accurate and fast positioning. Easy and exact focusing either by moving arm or especially by videocolposcope by fine focusing on the objective.

Go HD!

Modular design of MIKRO M50LED/M60LED line enable videocolposcope upgrade any time. Integrated colour digital high-end class Leica IC80HD camera can be attached to the MIKRO colposcope without needing any adapter. The camera and the colposcope together form a compact unit which does not interfere with work procedures. The image can be inspected on the full HD monitor or stored on the SD memory card by pressing footpedal. Colposcope is not necessary to connect to computer and gynaecologist stays with his own ambulance software. Images can be transmitted to the computer manually by downloading from SD card or wireless using WiFi SD card.

Better depth perception, less refocusing

Points of interest are often situated at different levels. The great depth of field enables these various points to be seen at a glance and without frequent refocusing; interrelationships becomes evident. The pronounced three-dimensionality of the image also imparts an excellent impression of depth, making examination easier.
The MIKRO colposcope: Leica performance, MIKRO price

### Technical data MIKRO M50LED, MIKRO M60LED

#### Optical data

<table>
<thead>
<tr>
<th>Eyepiece</th>
<th>Magnification changer position</th>
<th>Total magnification</th>
<th>Field of view in mm</th>
<th>Total Magnification</th>
<th>Field of view in mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>250 mm</td>
<td></td>
<td></td>
<td>300 mm</td>
<td></td>
</tr>
<tr>
<td>10 x / 23</td>
<td>0.63</td>
<td>2.5 x</td>
<td>90</td>
<td>2.1 x</td>
<td>109</td>
</tr>
<tr>
<td></td>
<td>1.0</td>
<td>4 x</td>
<td>57</td>
<td>3.3 x</td>
<td>69</td>
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<td>1.6</td>
<td>6.4 x</td>
<td>35</td>
<td>5.3 x</td>
<td>43</td>
</tr>
<tr>
<td></td>
<td>2.5</td>
<td>10 x</td>
<td>23</td>
<td>8.3 x</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>4.0</td>
<td>16 x</td>
<td>14</td>
<td>13.3 x</td>
<td>17</td>
</tr>
<tr>
<td>16 x / 14</td>
<td>0.63</td>
<td>4 x</td>
<td>55.6</td>
<td>3.4 x</td>
<td>66.7</td>
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<td>5.3 x</td>
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<td>1.6</td>
<td>10 x</td>
<td>21.9</td>
<td>8.5 x</td>
<td>26.3</td>
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<tr>
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<td>2.5</td>
<td>16 x</td>
<td>14.0</td>
<td>13.3 x</td>
<td>16.8</td>
</tr>
<tr>
<td></td>
<td>4.0</td>
<td>25.5 x</td>
<td>8.8</td>
<td>21.3 x</td>
<td>10.5</td>
</tr>
</tbody>
</table>

#### Cytology microscope
- **microscope Leica DM750**: planachromatic optics, manual operation for screening
- **microscope Leica DM3000**: wide-field planachromatic optics, motorised functions for expert diagnostics

### Stereo microsocope

<table>
<thead>
<tr>
<th>Magnification changer</th>
<th>MIKRO M50LED: 6:1 in five-step</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MIKRO M60LED: 6:1 zoom stepless</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Interchangeable achromatic objectives</th>
<th>f = 250 mm fix</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>f = 300 mm fix</td>
</tr>
<tr>
<td>Wide-field eyepieces for spectacle wearers</td>
<td>10 x / 23 adjustable +5 to -5 dioptres, distort, free</td>
</tr>
<tr>
<td></td>
<td>16 x / 14 adjustable +5 to -5 dioptres, distort, free</td>
</tr>
<tr>
<td>Total magnification</td>
<td>2.5 x to 16 x (with f=250 mm objective and 10 x eyepieces)</td>
</tr>
<tr>
<td>Field of view</td>
<td>90 mm – 14 mm (with f=250 mm objective and 10 x eyepieces)</td>
</tr>
<tr>
<td>Working distance</td>
<td>250 mm, 300 mm</td>
</tr>
<tr>
<td>Eyecups</td>
<td>Degree of eye contact adjustable</td>
</tr>
<tr>
<td>Binocular tubes</td>
<td>45 degrees inclined tube (standard)</td>
</tr>
<tr>
<td>Interpupillary distance</td>
<td>Adjustable from 52 mm to 76 mm</td>
</tr>
</tbody>
</table>

### Accessorie for digital documentation
- **digital color HD camera**: Leica IC80HD, stand alone kit, foot pedal, HDMI cable, 2 GB SD memory card
- **WiFi images transmission to PC**: WiFi 4 GB SD card, PC WiFi driver by IT specialist of gynaecologist
- **Software**: Delivered with camera, PC own software of gynaecologist
- **Monitor**: Full HD 22" with VESA interface (recommended), HDMI input
- **Monitor holder**: Swing arm holder, 340 degrees rotatable, tilting
- **Isolation transformer**: Integrated in the floor stand base
- **Stand alone for chair stand**: Stand alone for chair stand

### Stand, illuminators
- **Rollable floor stand**: Movable to different locations
- **Chair stand**: Mountable on the chair form left or right side, chair clamp by chair producer
- **Swing arm**: For easy positioning
- **Focusing**: Manual by moving optics carrier
- **Illumination**: Two PowerLED diods, intensity adjustable, automatic switch on/off, integrated flip-in green filter
- **Voltage**: 100 V – 240 V

### Technical data MIKRO EZ5LED

#### Optical data

- **objective working distance**: 250 mm
- **eyepiece**: 10 x / 23, fix and adjustable
- **zoom factor**: 1:5
- **total magnification**: 4.2 x – 21 x
- **illumination**: 8 pcs LED direct illumination with automatic switch on/off
- **base**: - chair clamp
- **stand**: horizontal double-arm with vertical drive
- **voltage**: 100 V – 240 V

### Stereomicroscope

#### Magnification changer
- MIKRO M50LED: 6:1 in five-step
- MIKRO M60LED: 6:1 zoom stepless

#### Interchangeable achromatic objectives
- f = 250 mm fix
- f = 300 mm fix

#### Wide-field eyepieces for spectacle wearers
- 10 x / 23 adjustable +5 to -5 dioptres, distort, free
- 16 x / 14 adjustable +5 to -5 dioptres, distort, free

#### Total magnification
- 2.5 x to 16 x (with f=250 mm objective and 10 x eyepieces)

#### Field of view
- 90 mm – 14 mm (with f=250 mm objective and 10 x eyepieces)

#### Working distance
- 250 mm, 300 mm

#### Eyecups
- Degree of eye contact adjustable

#### Binocular tubes
- 45 degrees inclined tube (standard)

#### Interpupillary distance
- Adjustable from 52 mm to 76 mm

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**Your local Leica dealer**

**MIKRO, spol. s r.o.**
Dolnokrcska 54
140 00 Praha 4 – Krc
Czech republic
tel.fax: +420 241441547
www.mikro.cz