PRIMA URL

LABOMED®
ideas for vision

PRIMA URL

At Labomed, harmony has always been our guiding principle for product design. In order to remain true to this philosophy, we proudly present a new dimension of performance, flexibility and economy of modern practices through the Prima URL.

Each microscope is designed to perform in the most demanding clinical environments. The Prima URL offers a range of ergonomic configurations and accessories to meet all the needs of the urology practice.

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50W LED

135.000 Lux

Responding to this call, LABOMED was the first to develop a unique LED-based illumination concept for urology microscopes. This design leadership has delivered an advanced illumination system that is highly efficient, cool and offers true white LED light with lux values approaching those of xenon, but with a nominal bulb life of 60,000 hours.

With most clinics facing space constraints, a microscope needs to be more compact than ever. By housing the LED light source and electronics within the entire arm, the Prima eliminates the need for bulky illumination housings, resulting in an overall space saving of approximately 20% compared to conventional halogen and xenon systems.

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The Prima URL is equipped with an apochromatic optical system that promises the finest images in its class. This is achieved through the proprietary Labomed Maxlite coatings, which provide greater efficiency in transmission and reflection across the entire visible spectrum. Maxlite renders the optics with excellent anti-fungal, anti-fog and scratch-resistant properties.

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NuVar protective lens with thread

The NuVar variable objective allows doctors to select the ideal working distance based on procedural requirements.

NuVar enables a smooth adjustment of the focal length from 300 mm to 400 mm. For constrained operating spaces or teaching environments, Labomed has developed a more compact option called the URL trainer model, featuring a lower center of gravity and a shorter pivot arm. Functional focal distance to choose between fixed or variable CMOS objectives.

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In urology, a microscope is an essential tool for various procedures, helping doctors ensure precision and enhance their ability to diagnose and treat conditions. Here are the main reasons why a urologist should use a microscope in their practice:

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1. Microsurgical Procedures

• Vasectomy Reversal (Vasovasostomy):
A microscope is critical for reconnecting the small, delicate tubes (vas deferens) after a vasectomy. The high magnification allows the surgeon to see the minute structures clearly, ensuring accurate suturing and improving success rates.

• Varicocele Repair: During microsurgical varicocelectomy, a microscope allows the surgeon to precisely isolate and treat dilated veins in the scrotum without damaging surrounding structures, such as the arteries and lymphatic vessels.

• Sperm Retrieval: Procedures like micro-TESE (microsurgical testicular sperm extraction) require the use of a microscope to find and extract sperm in men with non-obstructive azoospermia (absence of sperm in the ejaculate).

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2. Enhanced Precision in Tissue Dissection

• In urological cancer surgeries, particularly for prostate or bladder cancer, a microscope can help in the careful dissection of cancerous tissue, especially when working close to nerves or blood vessels. This minimizes damage to healthy structures, improving post-surgical outcomes such as nerve preservation.

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3. Improved Diagnosis and Biopsies

• For fine-needle biopsies or tissue sampling, a microscope allows a urologist to examine the tissue closely, ensuring an accurate diagnosis of conditions like prostate cancer, bladder cancer or kidney disease.

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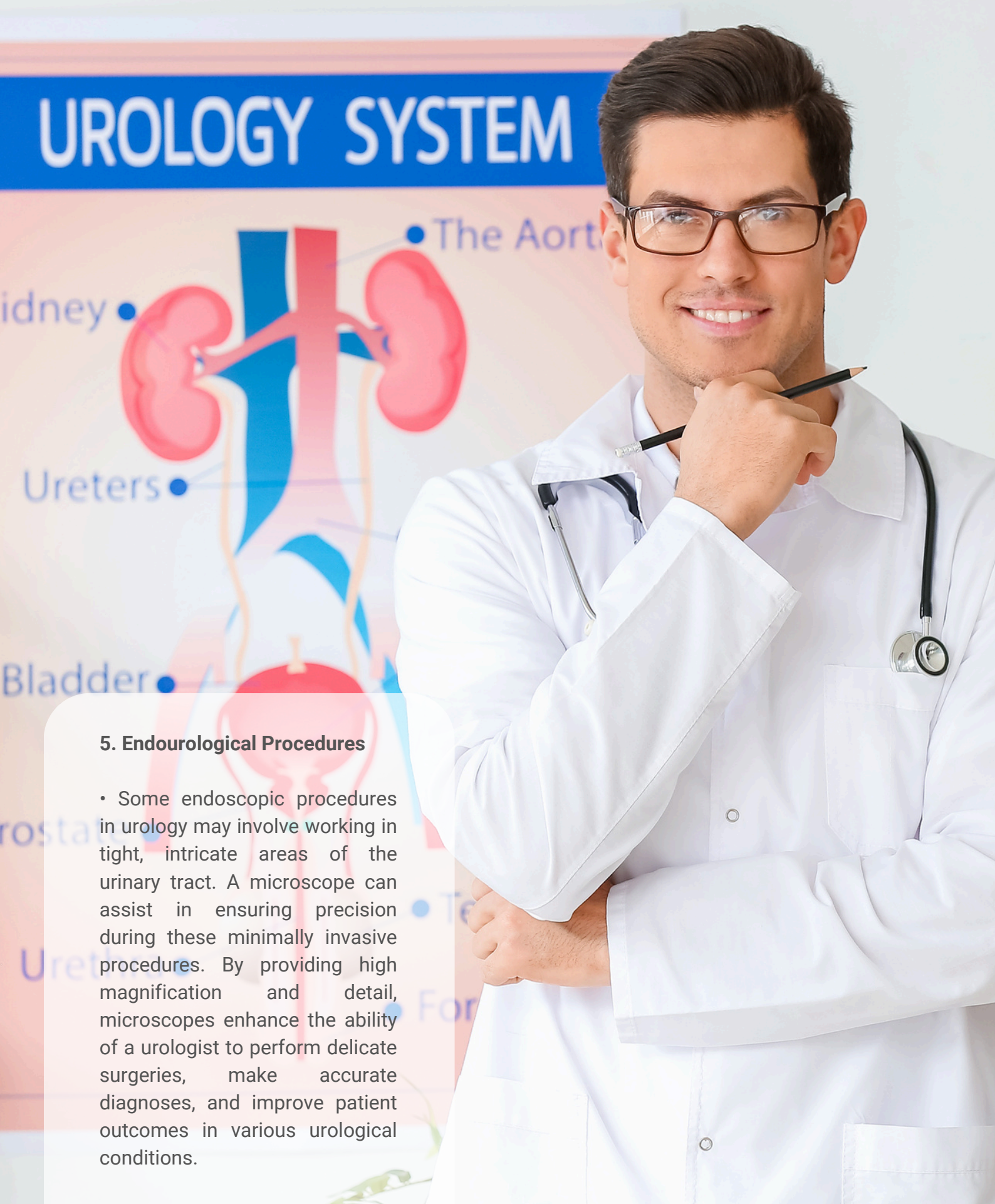
4. Treatment of Male Infertility

• Microsurgical techniques are often used in the treatment of male infertility. The microscope helps in procedures like epididymal sperm aspiration and testicular sperm extraction, allowing for greater success in retrieving viable sperm for in vitro fertilization (IVF) procedures.



5. Endourological Procedures

• Some endoscopic procedures in urology may involve working in tight, intricate areas of the urinary tract. A microscope can assist in ensuring precision during these minimally invasive procedures. By providing high magnification and detail, microscopes enhance the ability of a urologist to perform delicate surgeries, make accurate diagnoses, and improve patient outcomes in various urological conditions.

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Microscope datasheet

Prima URL microscope with an intelligent LED illumination system

- **Mounting system:** mobile stand with 2 locking wheels
- **Suspension arm:** 1125 mm
- **Magnichanger:** 5 step magnichanger with magnification 0.4x, 0.6x, 1.0x, 1.6x and 2.5x
- **Viewing bodies:** ergonomic binocular tubes 0º-210º tiltable, IPD range 55-75 mm, f=170 mm
- **Objective:** 250 mm. Or choose between fixed objectives 175, 200, 300 and variable NuVar: 7, 10 and 20.
- **Eyepieces:** WF 10X/18 mm with foldable eye guards, diopter adjustment ± 5 mm with diopter lock
- **Observation head:** ergonomic adjustable handgrips for observation head
- **Microscope carriers:** 120º carrier
- **Illumination:** fiber optic illumination 50W LED, up to 60,000 hours of LED lamp lifetime, 135,000 Lux
- **Input:** AC 115-240V, 50/60Hz
- **Filter:** Yellow and green filter with a filter holder
- **Vertical movement of arm:** 600 mm
- **Fuse:** quick-acting fuse 1.0 Amp
- **Standard accessories:** Dust cover for microscope observation head and illumination box

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The camera depends on what is available on the market. The brand may vary, but they are well-known brands like Panasonic, Canon and Sony.

To meet the needs, a range of digital reflex cameras, video cameras, and CCD adapters are available in the Proline range, in addition to the functional multi-imaging ivu property solution from Labomed.

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