

**Karl Kaps** 

**SOM® ENT Examination** 

Microscope

**Simply Good** 

Adaptable to the Last Detail



# **ENT Examination Microscope** from Karl Kaps

# Small, Compact and Flexible

# ENT examination microscopes from Kaps' SOM® series will more than satisfy every requirement in your ENT practice wish list.

The combination of proven and practically indestructible mechanical parts and outstanding optics, coupled with powerful illumination and easy handling, provides support with day-to-day routines and minor operations alike.

These small, compact and flexible Kaps SOM® examination microscopes offer image definition you can see, user friendliness you appreciate, and quality you can rely on.

We attached particular importance to achieving smooth and precise positioning, to enable you to remain sitting ergonomically in a comfortable upright position and result in far more relaxed working.

The combination of various additional components makes Kaps SOM® examination microscopes into all-rounders which are flexible in use and adapt perfectly to your particular requirements. It goes without saying that most components can be retrofitted without any problem.

Images with kind permission of Dr. med. Peter Brandau.



## No compromise on quality

### **Brilliant Optics**

The outstanding optics provide crystal-clear images in natural colors (apochromatic optics) with high resolution details down to the smallest structures.

### **Powerful Illumination**

You have a choice of different light systems. Whether coaxial cold light illumination or LED lighting - both versions offer consistent true color illumination and ensure that anatomical structures and blood vessels are clearly visible.

### **Ergonomic Design**

Working with Kaps SOM® series examination microscopes lets you adopt an ergonomic and comfortable upright posture throughout your work. This prevents neck or back pain from arising in the first place.

### **Comfortable Stands**

Whether you opt for a mobile stand or a fixed attachment to an exam unit, or whether you favor wall mounting or ceiling mounting - all Karl Kaps stands are distinguished by their easy handling, small footprint and stability. You can be sure to find the best solution for your consulting room or treatment room.

## Easy to Use

SOM® examination microscopes are easy to work with and stand out with their exceptional ease of positioning.

### **Extensive Range of Accessories**

The extensive range of accessories lets the SOM® examination microscope adapt to every customer's needs. The extra photo and video adapters allow Kaps examination microscopes to be retrofitted to create photo or video microscopes - for extensive documentation of findings.

## **Additional Upgrades**

Kaps SOM® examination microscopes can be retrofitted at any time. Many upgrades can be done independently, without the use of a service engineer.

### Durability

Karl Kaps examination microscopes are equipped with a high quality metal housing and are characterized by a long service life.









# See more

# Means Added Safety during Treatment

# Kaps SOM® examination microscopes provide high-contrast true color visualization solutions.

Brilliant apochromatic optics and ultra-bright coaxial illumination go hand in hand.

SOM® microscopes provide crystal-clear threedimensional imaging with great depth of focus and extraordinary color brilliance. Even the finest structures and the smallest details are clearly visible. This gives you maximum control over your work - the ideal prerequisite for a reliable diagnosis. The optional 40 mm manual fine focus lets you conveniently focus on the desired area and find the correct working distance without having to change your preferred position.

The examination microsopes are available with a 3-step magnification changer, a 5-step magnification changer or a manual zoom 1:6.

## Powerful Illumination



Proper illumination is the basic prerequisite for precise work.

Kaps ENT examination microscopes can be supplied with a variety of illumination systems.

## **Cold Light Illumination**

The high light output as well as the precise and constant object illumination of the cold light source guarantees a perfect view of eben the smallest detail.

### **LED Illumination**

The color temperature of the LED illumination strongly resembles daylight, possesses a high illuminance and provides excellent color reproduction, thus garanteeing a fatigue-free working. Despite its high light intensity, the system only generates little heat.

Other advantages are the high lifetime and the low

Other advantages are the high lifetime and the low power consumption.

# **Comfortable Stands**

Tailored to your Requirements



SOM<sup>©</sup> 62 on a Mobile Stand

Our mobile stands provide a stable footing and can be flexibly positioned. Move the microscope around your examination area as you need and adopt a comfortable posture, or move it away completely when it is no longer required.



# **User-Friendly Down to the Last Detail**

Kaps examination microscopes are distinguished by their ease of positioning and their user-friendly design.



The Kaps SOM® is an extremely mobile manual examination microscope that is easy to operate and move into a particularly comfortable position. When it is no longer needed, it can be swiveled to one side to make more room.

Its operation is both intuitive and effective. Other lenses can be exchanged quickly and easily. This lets you stay beside the patient throughout and leaves you free to concentrate on the examination in hand.

# **Kaps Accessories for SOM® Series**

# **Extensive Range of Solutions**



Kaps-Variflex-100 in compact height

Objective lens with a focal length of 220 - 320 mm and ovjective lens protection is quick and easy interchanged and ready for use.



Kaps observer tube binocular or monocular
 For viewing the examination field of a second person in the same magnification - particularly suitable for sterile assistance or training.



Kaps Handles

Various handles are available for SOM® examination microscopes:

- Ergonomic handle on one or both sides
- T-handle Pistol grip



Kaps Beam Splitter with Endoscope Adapter

For direct adaptation of an endoscope camera.

- very quick and easy to install
- low hight, leight weight



Kaps HD Video and Documentation Accessories

Extensive range of video and documentation accessories available on request. Ask for our latest information. (similar image)



Kaps LED upgrade

Durable LED retrofit set for fatigue-free working with daylight color temperature.

# **Technical Data**

## Kaps SOM® ENT examination microscope

| Illumination                                       | Coaxial cold light illumination (15 V / 150 W) with spare bulb LED illumination (optional)  |  |  |  |  |
|--|---|--|--|--|--|
| Lenses   | Changeable lenses from 200 mm to 400 mm in steps of 50 mm<br>Lens f = 200 mm and f = 250 mm with integrated focusing (14 mm)<br>Kaps Variflex-100 objective lens with a focal length of 220 - 320 mm (optional) |  |  |  |  |
| Binocular tubes                                    | Straight tube $f=125$ mm or $f=159$ mm, inclined tube $f=182$ mm $o-210^{\circ}$ on request   |  |  |  |  |
| Eyepieces  | Eyepieces WF 12.5 x V or WF 10 x V (with diopter adjustment)  |  |  |  |  |
| Magnification                                      | 3-step magnification changer, 5-step magnification changer or manual zoom 1-6   |  |  |  |  |
| Fine focusing                                      | Manual fine focusing 40 mm (optional)   |  |  |  |  |
| Secondary viewer                                   | Binocular or monocular  |  |  |  |  |
| Video camera                                       | Adaptation of C-mount video cameras via beam splitter and TV tube   |  |  |  |  |
| Integrated endoscopic adapter                      | For direct adaption for existing endoscopic cameras   |  |  |  |  |
| Iris diaphragm, green filter,<br>spot illumination | Optional  |  |  |  |  |
|  |   |  |  |  |  |

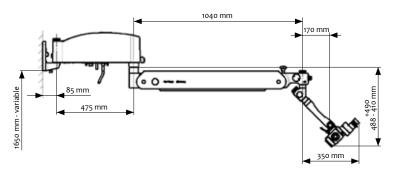
## **Magnification Range**

3-step and 5-step magnification unit with tube  $f=125\,\text{mm}$ 

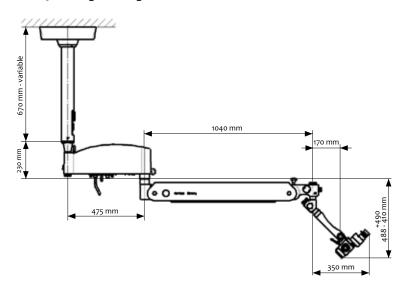
| Magnification Range   | 0.4 | 0.63 | 1.0  | 1.6  | 2.5  |  |
|-----------------------|-----|------|------|------|------|--|
| Magnification         | 3.2 | 5    | 8    | 12.8 | 20   | Lens f = 200 mm Eyepiece magnification 12.5 x V    |
| Field of view Ø in mm | 52  | 34   | 22   | 14   | 8.5  |  |
|                       |     |      |      |      |      |  |
| Magnification Range   | 0.4 | 0.63 | 1.0  | 1.6  | 2.5  |  |
| Magnification         | 2.6 | 4.0  | 6.4  | 10.2 | 16   | Lens f = 250 mm<br>Eyepiece magnification 12.5 x V |
| Field of view Ø in mm | 61  | 40.4 | 26.3 | 16.8 | 10.7 | -  |

# **Technical Data**

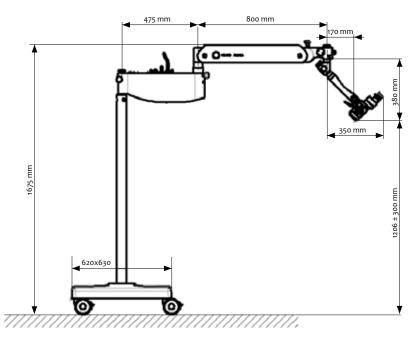
SOM<sup>©</sup> 22 - Wall Mounting



SOM<sup>®</sup> 32 - Ceiling Mounting



SOM<sup>©</sup> 62 - Mobile Stand





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Karl Kaps is a global medical technology company, offering diagnosis and treatment microscopes in the medical disciplines of otorhinolaryngology, ophthalmology, microsurgery, endodontics, neurosurgery, spinal surgery, gynecology and in all similar areas.

Modern, innovative surgical and diagnostic microscopes are developed and manufactured at the Asslar and Wetzlar production sites.

We aim to provide our customers with the best possible equipment for the medical care of their patients. This is our contribution to ensuring that correct diagnosis and successful therapy can be initiated.

More information can be found at www.kaps-optik.de

## **OUR FOCUS IS ON YOUR VISION**