



We make it visible.

Dental Microscope OPMI® pico



OPMI pico for Microdentistry



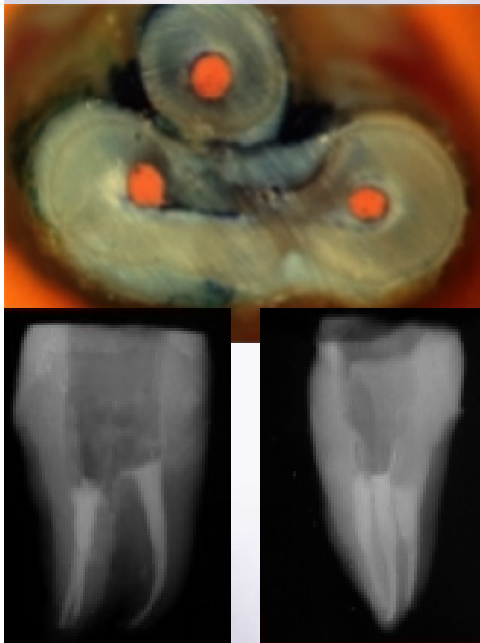
Integration of Microscopic Examination Methods and Microsurgical Techniques in Dentistry



OPMI pico for Microdentistry



“You can only treat what you can see.” Prof. Dr. S. Kim



OPMI pico for Microdentistry



Carl Zeiss – Your Premium Partner for the Development of Innovative Dental Microscopes

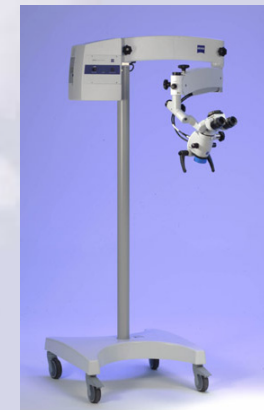
This presentation shows you all about:

Applications

Features of the OPMI pico

Integration/
Suspension Systems

Accessories



OPMI pico for Microdentistry Applications



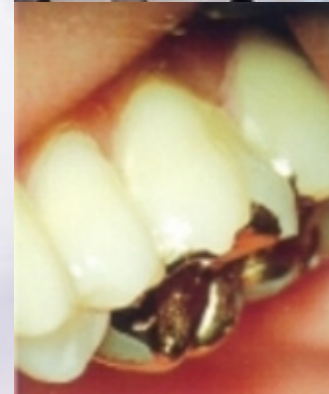
New Perspectives for Endodontics



New Approaches in Periodontics



Best Cosmetic Outcome in Restorative Dentistry



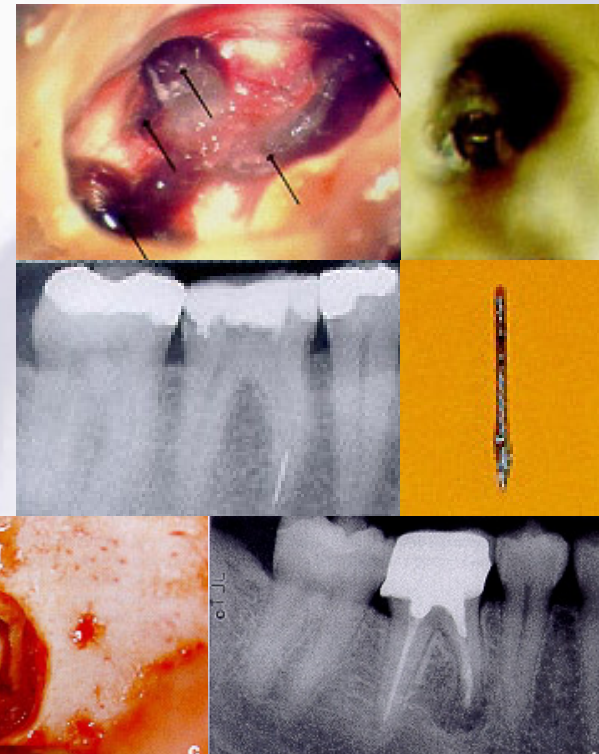
**Standard of Care for General Dentistry:
No Limits to the Clinical Applications in Diagnosis**

OPMI pico for Microdentistry Endodontics



Magnification of up to 25x makes it possible for you

- to recognize all root canals, isthmuses, perforations
- to locate microfractures, leakages in existing fillings
- to see down to the apex
- to recognize fractured instruments
- to perform microsurgical root resection and achieve optimum patient care



OPMI pico for Microdentistry Periodontics



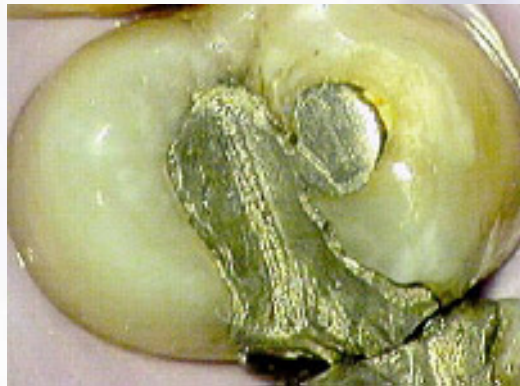
- Use of micro-instruments
- Use of extremely fine suture material
- Very precise instrument guidance, resulting in
 - fast healing
 - reduced scar formation
 - improved cosmetic outcome



OPMI pico for Microdentistry Restorative Dentistry



- Extremely precise recognition of enamel and dentin fractures
- Selective caries diagnosis
- Unparalleled precision of diagnosis
- Optimum cosmetic outcome for maximum patient satisfaction



OPMI pico for Microdentistry

The Features of OPMI pico



Integrated Video Camera for Optimum Communication

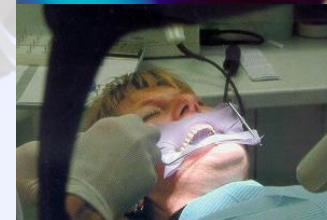
Excellent Viewing System ensures High Visual Comfort

State-of-the-Art Illumination System provides Unparalleled Quality

Optimum Ergonomics – Optimum Handling

**Outstanding Design Quality –
“Innovation 2000” Design Award**

Specifications



OPMI pico for Microdentistry Integrated Video Camera



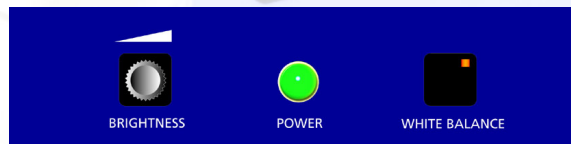
- For perfect communication with you patient
- Helps you to explain the therapy required
- You can demonstrate and sell your skills to your patients
- Visualization of cosmetic outcome
- Your team can participate live in therapy
- Documentation for presentations



OPMI pico for Microdentistry Outstanding Viewing System



- 1/4" video chip, integrated in microscope body
Maximum image quality, Y/C output for S-VHS video
- White balance ensures true-color rendition
- Power supply and controls integrated in S100 suspension system
- Only 1 knob for easy operation

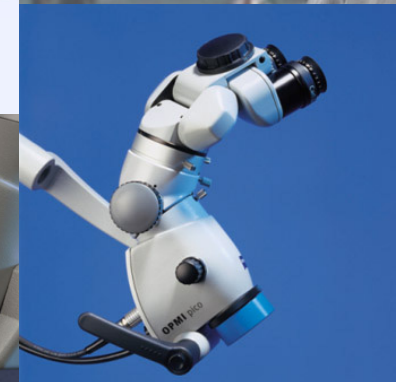
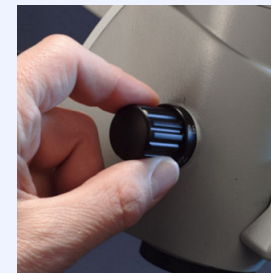


OPMI pico for Microdentistry

Outstanding Viewing System



- Visual comfort one would otherwise only associate with surgical microscopes
- Widefield optics for a panorama view and relaxed viewing
- 180° tiltable tube for comfortable sitting posture
- Apochromatic 5-step magnification changer, ideally graded magnification steps
- Angled optics and rotatable tube mount for viewing areas which are difficult to access
- Green filter enhances the contrast of tissue with a strong blood flow
- Orange filter prevents premature hardening of composite fillings

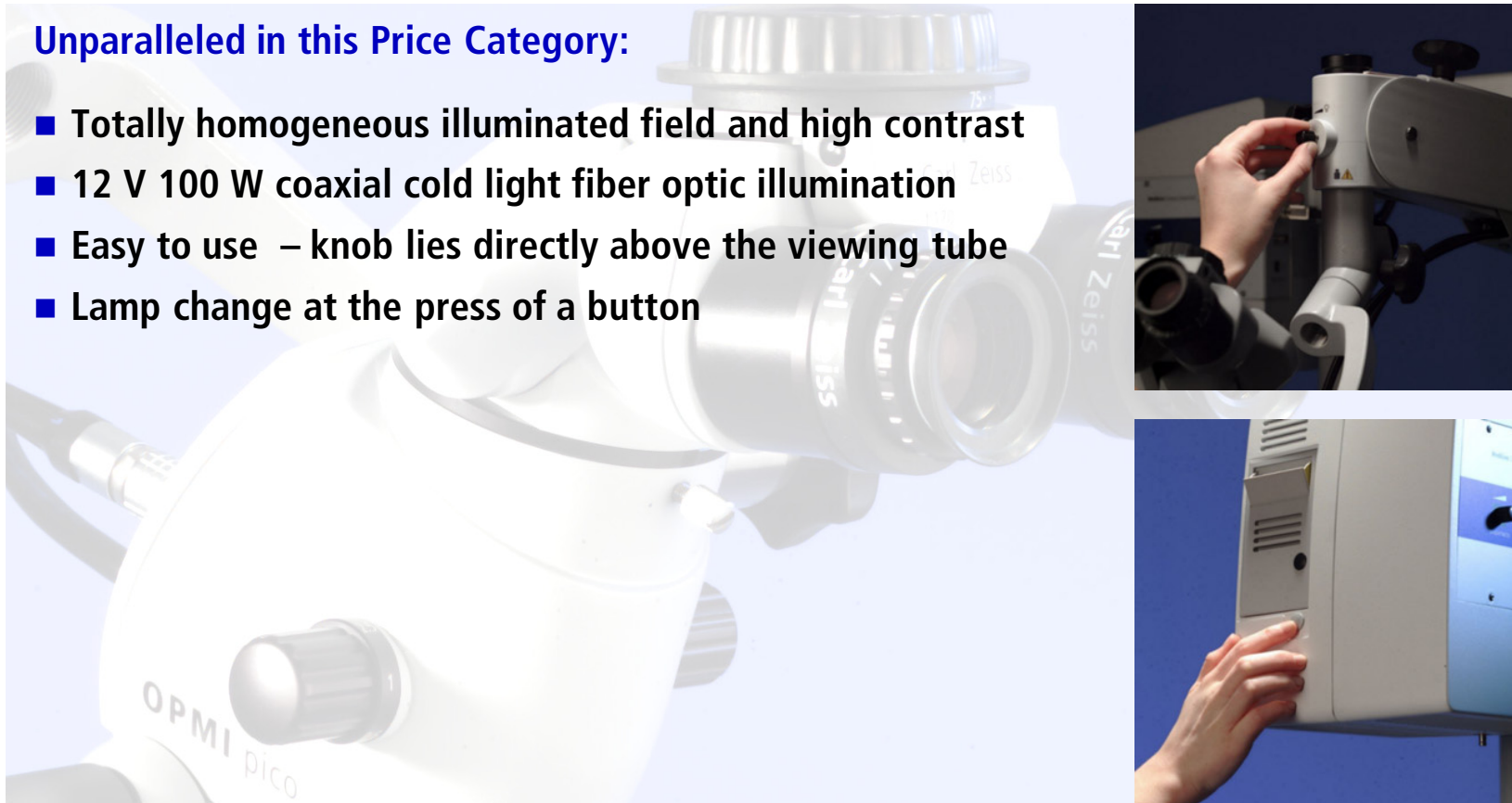


OPMI pico for Microdentistry Leading-Edge Illumination System



Unparalleled in this Price Category:

- Totally homogeneous illuminated field and high contrast
- 12 V 100 W coaxial cold light fiber optic illumination
- Easy to use – knob lies directly above the viewing tube
- Lamp change at the press of a button

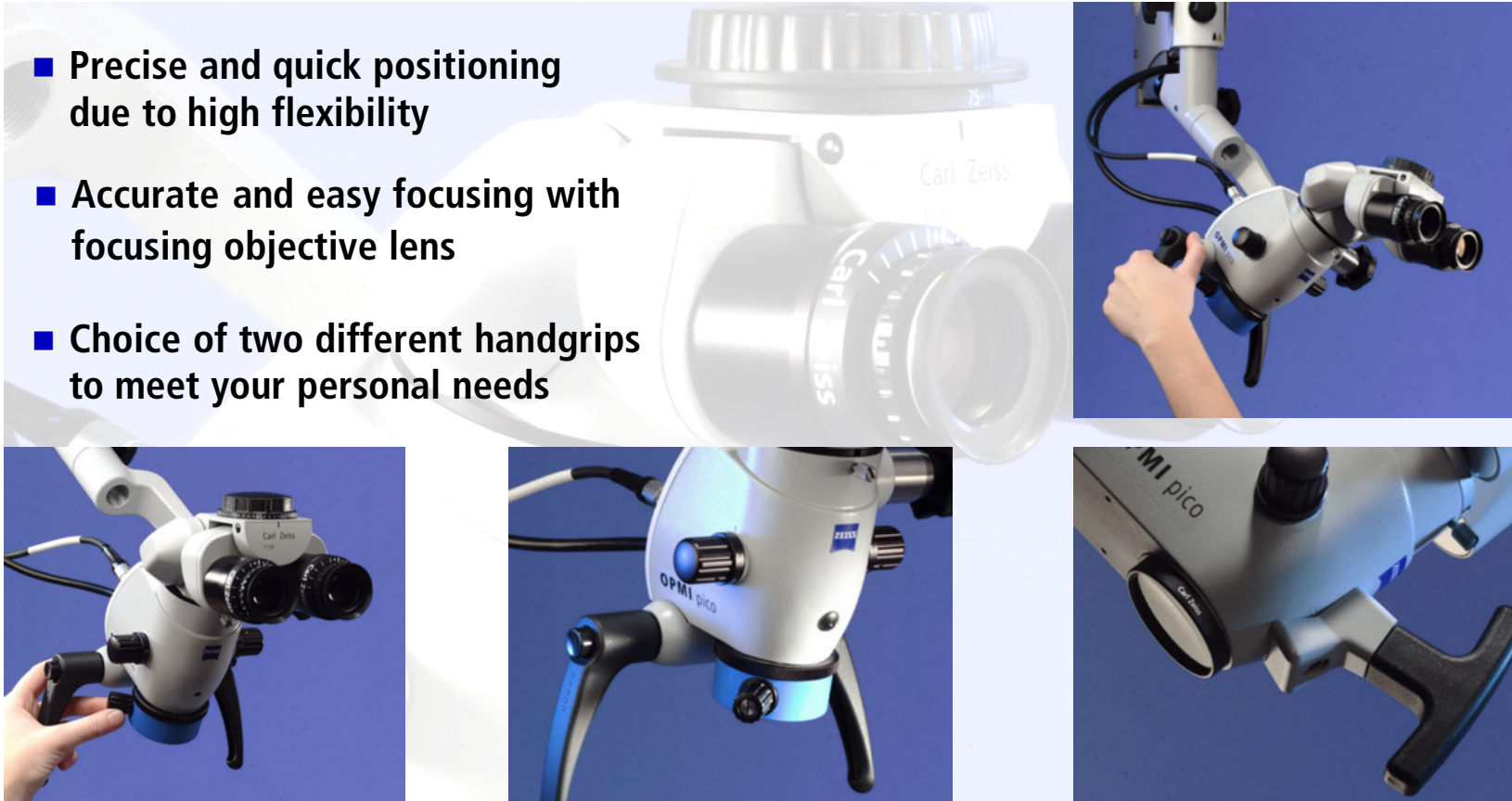


OPMI pico for Microdentistry

Optimum Ergonomics – Optimum Handling



- Precise and quick positioning due to high flexibility
- Accurate and easy focusing with focusing objective lens
- Choice of two different handgrips to meet your personal needs



OPMI pico for Microdentistry

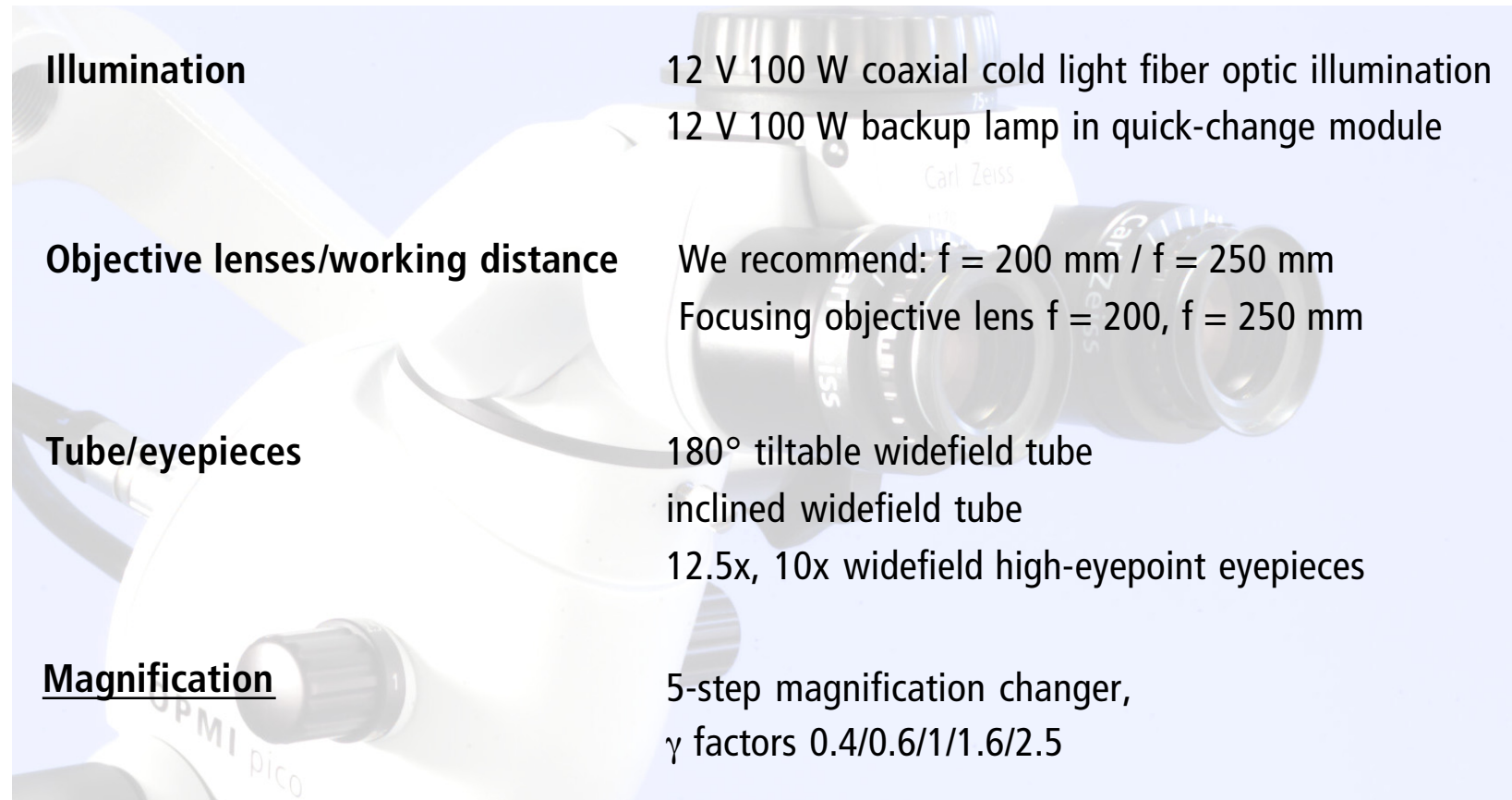
Excellent Design



- The perfect fit for your office
- Use of the latest design and production technologies
- "Red Dot Award 2000" for highest design quality
- Awarded by a jury of international experts



OPMI pico for Microdentistry Specifications



Illumination	12 V 100 W coaxial cold light fiber optic illumination 12 V 100 W backup lamp in quick-change module
Objective lenses/working distance	We recommend: $f = 200$ mm / $f = 250$ mm Focusing objective lens $f = 200$, $f = 250$ mm
Tube/eyepieces	180° tiltable widefield tube inclined widefield tube 12.5x, 10x widefield high-eyepoint eyepieces
<u>Magnification</u>	5-step magnification changer, γ factors 0.4/0.6/1/1.6/2.5

OPMI pico for Microdentistry

Perfect Integration – the Suspension Systems



For Optimum Integration in your Office:

S100 Floor Stand



S100 Ceiling Mount



S100 Wall Mount



OPMI pico for Microdentistry S100 Floor Stand



- High mobility and easy positioning
- Easily transported from one examination room to another
- Max. arm extension 110 cm
- Lifting range 60 cm
- Footprint 60 cm x 60 cm x 20 cm

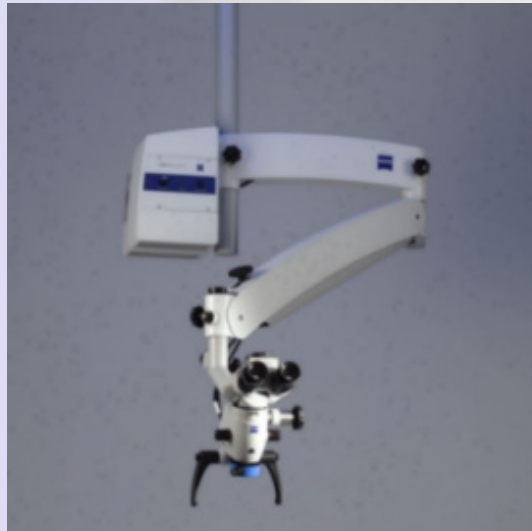


OPMI pico for Microdentistry S100 Ceiling Mount



- Ideal for combination with existing ceiling installations

- Max. arm extension 145 cm
- Lifting range 80 cm



OPMI pico for Microdentistry S100 Wall Mount



- Minimum space requirement
- Space-saving when in rest position
- Max. arm extension 170 cm
- Lifting range 80 cm



OPMI pico for Microdentistry S100 Suspension Systems



- Power supply for 12 V 100 W coaxial cold light illumination integrated in suspension system
- Inclination switch for illumination on/off
- Backup lamp activated by the press of a button
- Integrated in suspension system:
 - power supply for integrated video camera
 - white balance and brightness adjustment



OPMI pico for Microdentistry Accessories



■ Focusing objective lenses



■ Handgrips



■ Angled optics and rotatable tube mount



■ Asepsis components

OPMI pico for Microdentistry Successful Dentistry





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OPMI pico for Microdentistry

Magnifications and field-of-view diameters



				0,4	0,6	1	1,6	2,5
Binokular tubus	f=200 mm	10x	V	3,4x	5,1x	8,5x	13,6x	21,3x
			SF Ø	61 mm	40 mm	24 mm	15 mm	10 mm
		12,5x	V	4,5x	6,4x	10,6x	17x	26,6x
			SF Ø	51 mm	34 mm	21 mm	13 mm	8 mm
	f=250 mm	10x	V	2,7x	4,1x	6,8x	10,9x	17,0x
			SF Ø	76 mm	50 mm	30 mm	19 mm	12 mm
		12,5x	V	3,4x	5,1x	8,5x	13,6x	21,3x
			SF Ø	65 mm	43 mm	26 mm	16 mm	10 mm