

#### Seeing more in one view means less refocusing

Refocusing interrupts your procedure. So we've equipped the PROvido with our innovative FusionOptics technology, 300 W xenon light and Small Angle Illumination (SAI). FusionOptics unites high resolution with an increased depth of field for a greatly expanded area in full focus. When coupled with a concentrated xenon light beam, you benefit from a deeper view into cavities with more detail and less shadow.





Magnification multiplier



Rear fine focus



SpeedSpot laser focus

The view you need, fast

Meet the visualization needs of your procedure and your team at every moment with optics that are fast to set up and adjust.

- Start fast with the SpeedSpot system that uses two laser beams as a focusing reference to quickly provide a defined focus point for all three viewing positions (surgeon, assistant, camera)
- > Quickly achieve maximum magnification with the optional Magnification Multiplier that boosts magnification by 40% in an instant
- > Give your opposite assistant viewing flexibility with an independent fine focus





Without SAI

With SAI

#### **Deeper insights**

Small Angle Illumination (SAI) technology and bright 300-Watt xenon light provides a concentrated light beam. You benefit from a bright view with less shadow right down to the bottom of deep, narrow cavities.

# GET INTO POSITION & GET GOING

Quickly and effortlessly get into your ideal operating position and start working.



Compact and fully integrated

#### Take control

Intuitive touch-screen control panel for fast set up of all microscope functions and storage of customized profiles.

- > Flexible intra-operative control of key functions via handgrip or optional wireless foot switch
- > Full integration of HD video camera means that recording and image capture is also just a tap away





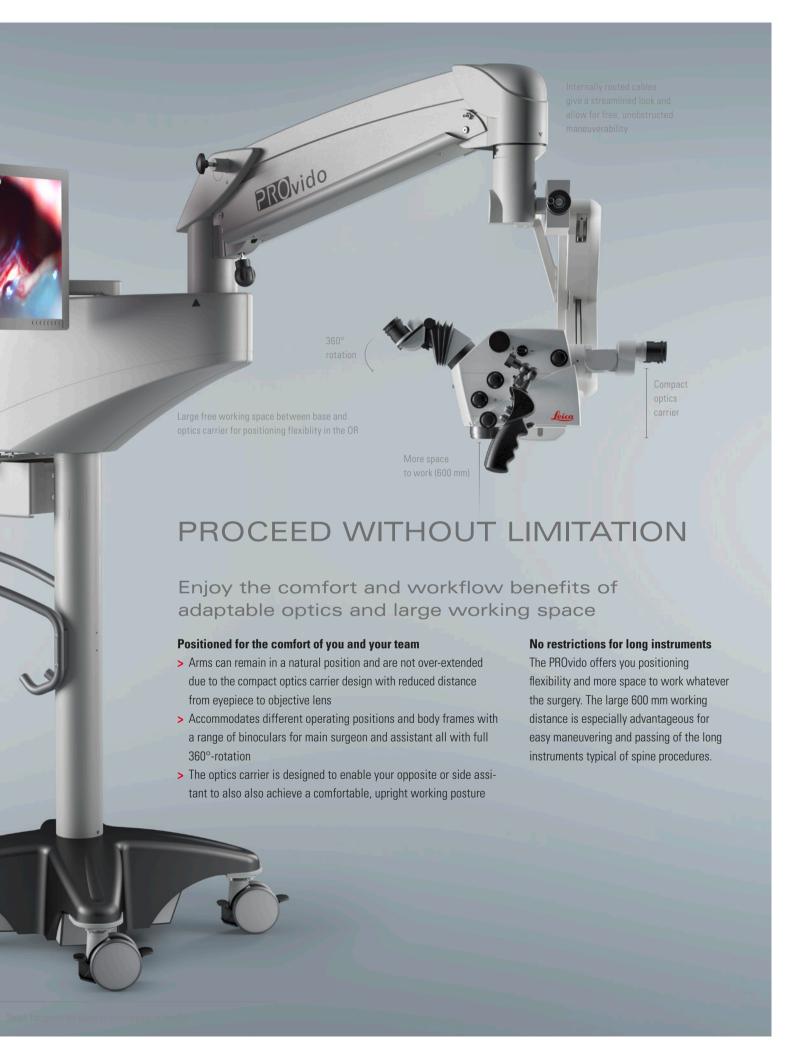
Full range of movement and tilt of the optics carrier

#### Positioning was never so easy

Positioning the optics carrier is fast and almost effortless. This not only limits strain from harsh movements, but also makes set-up highly efficient.

- > Electromagnetic brakes and AC/BC balancing for effortless, balanced positioning, whatever the required angle
- > Robust, full-metal stand ensures fast stabilization and remains exactly where needed
- > Achieve highly precise micro adjustment with just a touch of the XY joystick control







#### A clear view in the OR

Share your view with your team to enhance workflow efficiency and teaching.

- > Stand-mounted monitor arm for flexible positioning
- > 24" HD monitor and 27" HD touch-screen monitor available

#### Record at the touch of a button

The HD C100 imaging and recording system is fully integrated inside the microscope.

Seamless integration allows you to start recording at the touch of a button to capture high definitition surgical footage or still images

#### Share and teach

Easily save surgical images and footage to patient files and share with students to support your teaching program.

> Simply save to USB or directly to the hospital network via cable for storage in patient files or ready to share with your students

### A LEADING LIGHT IN PATIENT SAFETY

Smart illumination minimizes interruption and supports patient safety



#### Optimal field of illumination

- Autolris automatically adjusts the diaphragm in line with the zoom, so as the field of view decreases so does the field of illumination, ensuring that only the visible area is illuminated
- This prevents the possibility of drying or burning exposed tissue outside the field of view



#### **Optimal light intensity**

- > BrightCare Plus automatically adapts light intensity to the working distance for safer illumination (up to 60 % light reduction)
- An internal luxmeter provides real-time data so light intensity can be measured from actual bulb output
- Extremely efficient light transmission means that even with less intensity you still have all the light you need

#### Reliability built in

The PROvido features a bright 300-Watt xenon arc-lamp and back-up 75-Watt LED or 300-Watt xenon arc-lamp with independent lamps and boards.

## **SPECIFICATIONS**

#### OPTICS AND ILLUMINATION

OF FIGS AND ILLUMINATION		
FusionOptics	For increased depth of field and high resolution for main surgeon	
Fully apochromatic optics	For high contrast and natural colors without chromatic aberrations	
Magnification	6:1 zoom, motorized Optional 1.4× magnification multiplier	
Focus	Motorized via multifocal lens, with manual adjustment	
Objective / working distance	225–600 mm, motorized multifocal lens, continuously adjustable and manual adjustment option	
Eyepieces	Wide-field eyepieces for persons wearing glasses 8.3×, 10× dioptric adjustment, ±5 diopter settings and adjustable eyecup	
Integrated 360° rotatable adapter	For main surgeon binocular (IVA, ULT) and opposite assistant (ULT)	
Illumination	<ul> <li>Single Xenon 300-Watt arc-lamp as main illumination with LED lamp as back up or optional dual Xenon arclamp illumination system</li> <li>Continuously variable illumination field diameter</li> <li>Continuously adjustable brightness at constant color temperature</li> </ul>	
SpeedSpot	Laser focusing aid for fast and exact positioning of the microscope	
Autolris	Built-in automatic zoom-synchronized illumination field diameter, with manual override and reset feature	
BrightCare Plus	Safety function through working distance- dependent limitation of the brightness, controlled by built-in luxmeter	

#### CONTROL

Control unit	<ul> <li>Programmable touch-screen with user-friendly Graphical User Interface for control of the microscope and stand</li> <li>Built-in electronic auto-diagnosis and user support</li> <li>Software independent hard keys for illumination</li> <li>Indicator for main/backup illumination and fluorescence modes</li> </ul>
Control elements	<ul><li>Pistol handle with 10 programmable functions</li><li>Optional 12-function wireless footswitch</li></ul>
IR sensor	For remote control of the external Leica HD C100 camera

#### OPTIONS

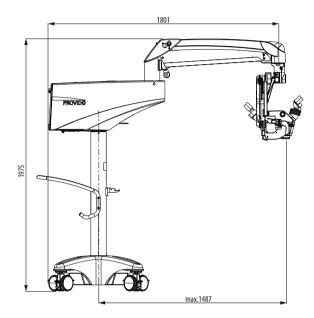
UPTIONS	
ULT530	<ul> <li>Full stereo view for main surgeon and opposite assistant, semi stereo view for 2 side assistants</li> <li>Optional integrated HD Camera (HD C100)</li> </ul>
FL800 ULT	ULT with the Leica FL800 vascular fluorescence observation filter module
FL560	Leica FL560 fluorescence observation filter module
IVA530	- Full stereo view for main surgeon, semi stereo view for 2 side assistants and C-mount interface for camera (HD or SD)
Integrated documentation	Prepared for integration of video camera system and digital recording. Open architecture
Digital Recording	Record still pictures and videos in standard definition (SD) and high definition (HD) using a digital recording device (documentation system)
Laser compatibility	compatible with Lumenis AcuSpot 712L Laser Manipulator and Digital AcuBlade

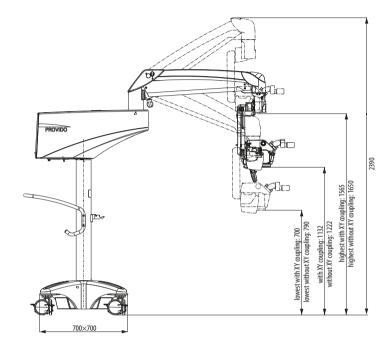
#### CONSTRUCTION

Base	700 × 700 mm with four 360° rotating castors with a diameter of 126 mm each and integrated brakes
Materials	All solid metal construction coated with antimicrobial paint
Load	Max. 8.5 kg from microscope dovetail ring interface
Weight	Approx. 350 kg without load

#### MANEUVERABILITY

XY speed	Zoom linked XY speed
XY range	62 x 62 mm
Balancing	Manual balancing at microscope carrier and at swing arm
Brakes	Floor stand with 6 electromagnetic brakes
Carrier for monitor	610 mm long and flexible arm with 180° rotation and inclination to carry optional video monitor





The application images used in this brochure were captured with a similar Leica surgical microscope. For all fluorescence modules, please check the status of regulatory classification & approval in your country with a local Leica Microsystems representative.



Leica Microsystems (Schweiz) AG Max Schmidheiny-Strasse 201 9435 Heerbrugg, Switzerland C €
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 ${\it Class I surgical microscope PROvido incl. accessories}.$ 

Class IIa Leica FL800 ULT.

Not all products or services are approved or offered in every market and approved labeling and instructions may vary between countries. Please contact your local Leica representative for details.

Leica Microsystems (Schweiz) AG  $\cdot$  Max Schmidheiny Strasse 201  $\cdot$  CH-9435 Heerbrugg T +41 71 726 3333  $\cdot$  F +41 71 726 3399

www.leica-microsystems.com

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