

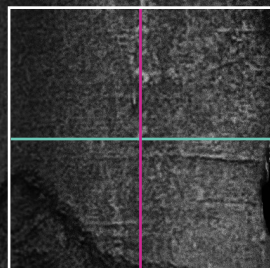


OPMI LUMERA 700 from ZEISS

A new dimension in visualization

Now with
integrated
intraoperative
OCT





There are times
we'd like to
see more

Even if a scene is very familiar, even if it is clearly visible in front of us; there are times when we wish we could see more: To visualize things from a different perspective, to gain additional insights.

Well, now you can.



**See more in
your eyepiece**
ZEISS RESCAN 700 gives
you real-time OCT views
directly in the eyepiece

Equipped with ZEISS RESCAN® 700, ZEISS OPMI LUMERA® 700 takes surgical microscopy to a whole new level with integrated intraoperative OCT. Visualize transparent structures of the anterior and posterior segment directly in the eyepiece. See exactly where you're scanning with the scan location marker. Move the scan independently of the surgical microscope.

ZEISS RESCAN 700 gives you more information during retina or cornea surgery in the eyepiece, allowing you to see structures in ways you never have; helping you back up your decisions and improve your surgical techniques – without compromising your surgical workflow.



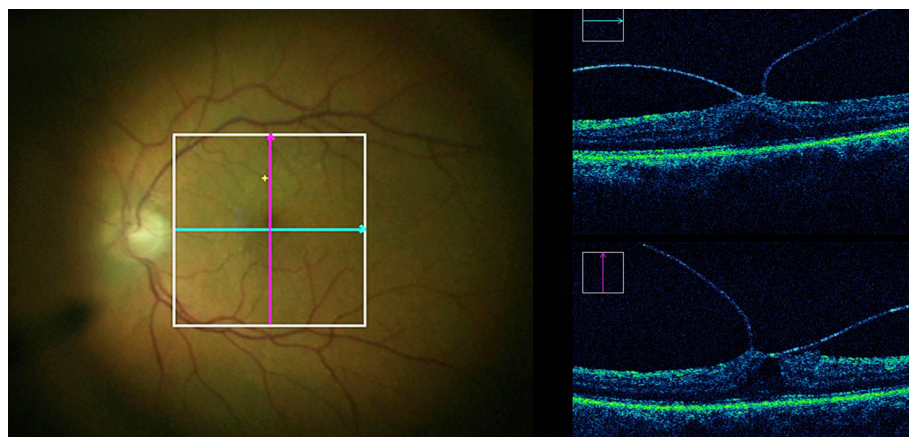
ZEISS RESCAN 700

See more for better
decision-making

ZEISS RESCAN 700

in retina surgery

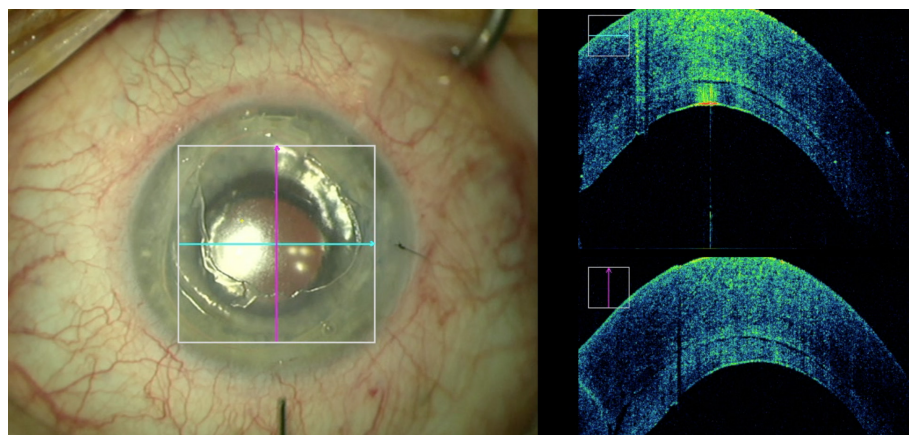
Monitor vitreous traction
during macula surgery.



ZEISS RESCAN 700

in cornea surgery

Check the position of
the craft and assess the
interface to the patient
cornea in DSEAK.



ZEISS OPMI LUMERA 700

Get transparency with real-time OCT
through ZEISS RESCAN 700

Innovation in eye care starts with the desire to see more. With the first surgical microscope and the first commercial OCT for ophthalmic applications, two gold standards have now been fused together into one system – introducing a new era in surgical microscopes.

Meet the new OPMI LUMERA 700 and RESCAN 700 from ZEISS – the first surgical microscope with integrated intraoperative OCT. Seamlessly integrating into your surgical workflow, the system adds a real-time 3rd dimension to your visualization capabilities. It allows you to view transparent structures of the eye during the surgery and instantly monitor your surgical decisions, progress and outcomes.



See more in retina surgery

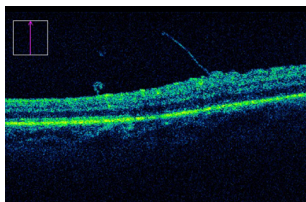
When performing a retina procedure, there are times when a little more information would be helpful for better management of procedures. That's where the ZEISS OPMI LUMERA 700 comes in.

Real-time reassurance during retina surgery

Coupled with innovative technologies like the integrated intraoperative OCT of ZEISS RESCAN 700 and the non-contact fundus viewing system ZEISS RESIGHT Family*, ZEISS OPMI LUMERA 700 redefines retinal surgery. The result is a detailed view of the surgical field.

Everything to support teaching and presentations

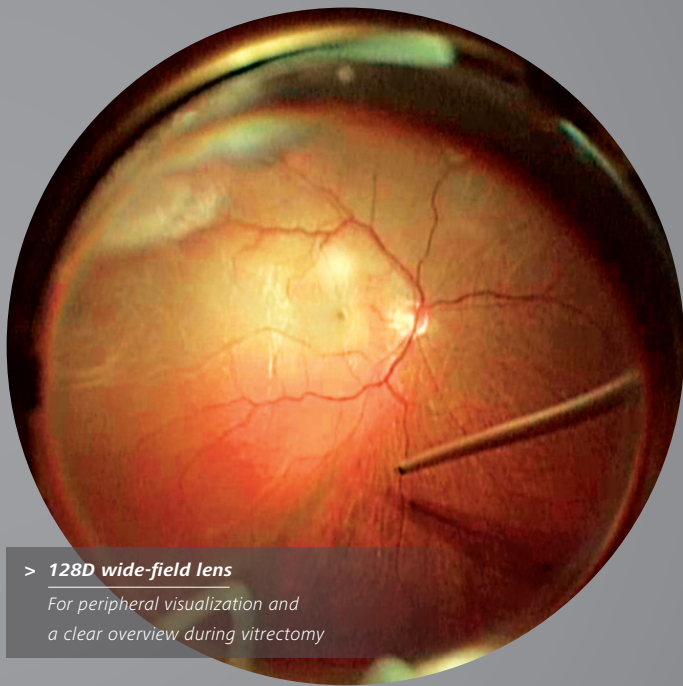
The assistant microscope offers a second set of eyes for complex procedures requiring two surgeons, as well as for teaching purposes. The fully integrated HD video chain delivers a high-resolution view of the surgical field that is well suited for co-observation, lectures and presentations.



Assess membrane removal
Intraoperative OCT visualization helps ensure that all membrane residues have been removed.



**2nd-generation optics with clearly better overall optical quality and clearly better sharpness, depth and detail recognition for use with the 60D lens – clinical customer survey with international key opinion leader surgeons*



> 128D wide-field lens

For peripheral visualization and a clear overview during vitrectomy



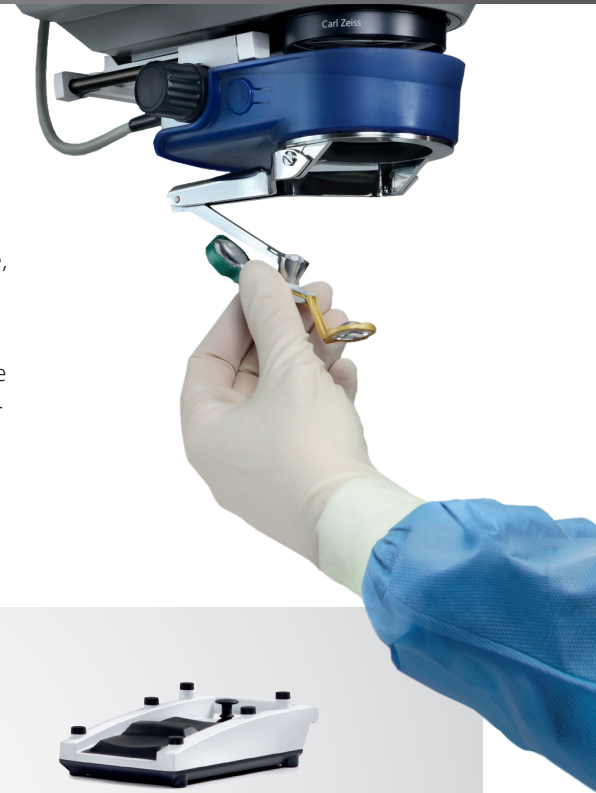
> 60D macular lens

For high magnification of the macula

ZEISS RESIGHT Family now with even better optical quality*

The non-contact fundus viewing systems provide a clear, detailed visualization of the retina. ZEISS RESIGHT® 700 and the manual ZEISS RESIGHT 500 incorporate varioscope optics from ZEISS to keep you focused on the retina, without moving the microscope. The innovative lens turret, equipped with two aspheric lenses 128D and 60D,

lets you quickly switch to a second lens and magnification. If contact is accidentally made with the patient eye, the system automatically folds up. Because only sterile parts need to be changed, the optics can remain on the surgical microscope in preparation for the next patient. It's that easy.



Full workflow efficiency

Automated workflow

When ZEISS RESIGHT 700 is used, the surgical microscope automatically adjusts the camera settings, Invertertube™ E settings, lighting and speed of motion to the correct values for retina surgery.



Turn the world upside down

The Invertertube E combines ZEISS optics and optical inverters into a single ergonomic design that supports a comfortable, upright working posture, without adding to stack height.



Foot control freedom

The wireless foot control panel offers freedom from wire clutter, positioning flexibility and the ability to configure functions based on preferences.

See more in cataract surgery

For cataract surgery, SCI and ZEISS CALLISTO® eye provide best anterior visualization and highly precise* assistance functions to accelerate procedural workflow.

Superior red reflex

With its revolutionary Stereo Coaxial Illumination (SCI) and renowned ZEISS optics, ZEISS OPMI LUMERA 700 brings even the most minute anatomical structures clearly into view. Its highly stable, high-contrast red reflex further enhances detail recognition.

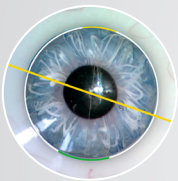
See assistance functions in the eyepiece

Combined with ZEISS CALLISTO eye, ZEISS OPMI LUMERA 700 provides a series of assistance functions for performing more precise* LRI incisions, capsulorhexis, IOL centration and toric IOL alignment. All assistance functions are injected directly into the eyepiece via IDIS (Integrated Data Injection System) as high-resolution, high-contrast

images and controllable with the wireless foot control panel. This allows you to work comfortably and with full concentration without needing to look up from the eyepiece.

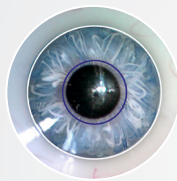
The high-quality HD images and videos can also be displayed on the ZEISS CALLISTO eye touch screen and recorded for documentation.

Assistance functions in the eyepiece



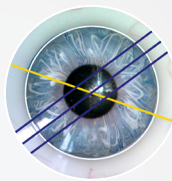
Incision/LRI assistant

Superimpose the exact position and size of the incisions to ensure precise surgery.*



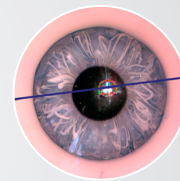
Rhexis assistant

Superimpose the exact shape and size of the capsulorhexis and align the IOL along the patient's optical axis.



Z ALIGN – toric assistant

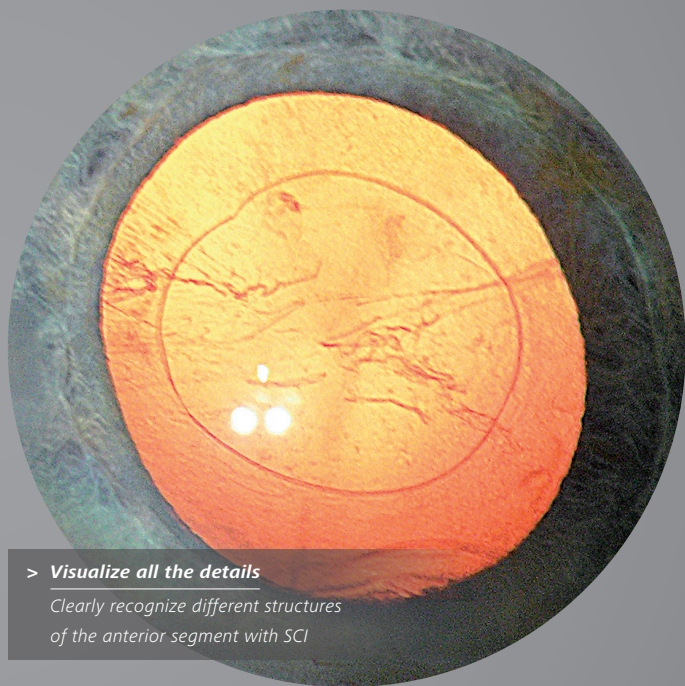
Use the reference axis from the ZEISS IOLMaster® 500 and target axis in your microscope eyepiece to ensure precise toric IOL alignment.*



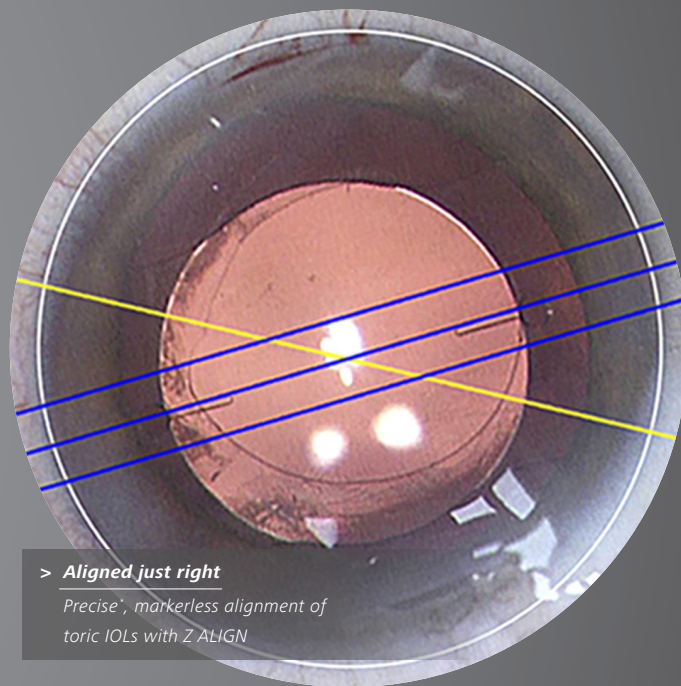
K TRACK®

Visualize corneal curvature in combination with a keratoscope.

*Clinical data of Prof. Findl/Dr. Hirsnschall presented at ESCRS 2013 – technically verified pre-/intraoperative matching precision $\pm 1.0^\circ$ in mean



> Visualize all the details
Clearly recognize different structures
of the anterior segment with SCI



> Aligned just right
Precise*, markerless alignment of
toric IOLs with Z ALIGN

Skip unnecessary workflow steps

The ZEISS OPMI LUMERA 700 is an integral part of the ZEISS Cataract Suite markerless – products designed to work together for precise and fast toric IOL alignment. You can skip manual pre- and intraoperative marking steps and manual data transfer; thereby providing a higher level of comfort for you and your patients.



ZEISS CALLISTO eye
Precise premium
IOL surgery made easy



A highly integrated workplace

The ceiling-mounted version of ZEISS OPMI LUMERA 700 combines highly integrated products into one workplace. By freeing up valuable OR floor space, it offers you great positioning flexibility. Its smooth, motorized lift function makes switching between system positions quick and easy.

Technical data

OPMI LUMERA 700 from ZEISS

ZEISS OPMI LUMERA 700

Surgical microscope	Motorized zoom system with apochromatic lens, zoom ratio 1:6
	Magnification factor = 0.4 x–2.4 x
	Focusing: electric/motorized, focus range: 70 mm
	Objective lens: f = 200 mm (optionally also f = 175 mm or f = 225 mm with support ring)
	Binocular tube: Invertertube E (optionally also Invertertube, 180° swivel tube, f = 170 mm, inclined tube, f = 170 mm)
	Wide-angle eyepiece 10 x (optionally also 12.5 x)
Light source	SCI: Coaxial and full-field illumination (patent pending)
	Fiber-optic illumination Superlux® Eye:
	■ Xenon short arc reflector lamp with HaMode filter
	■ Backup lamp in lamp housing, can be slid into position manually
	LED fiber-optic illumination:
	■ Near-daylight color temperature
	■ 50,000 hour lifetime at 50 % light intensity
	■ HaMode filter
	■ 25 % gray filter
	■ Class 2 LED device according to IEC 60825-1:2001
	For all light sources:
	■ Blue blocking filter
	■ Optional: Fluorescence filter
Slit lamp	Slit widths: 0.2 mm, 2 mm, 3 mm, 4 mm Slit height: 12 mm
XY coupling	Travel range: max. 61 mm x 61 mm Automatic centering at the touch of a button
Video monitor	22" LCD display Resolution: 1,680 x 1,050
Stand	Maximum permissible weight load of the spring arm: When the surgical microscope is attached to the arm (without tube, eyepiece or objective lens) and the XY coupling is also attached, a maximum of 9 kg of additional accessories can be attached to the spring arm

ZEISS RESCAN 700

OCT engine	SD OCT (spectral domain) Wavelength 840 nm Scanning speed 27.000 A-scans per second
Scan parameters	A-scan depth: 2.0 mm in tissue Axial resolution: 5.5 µm in tissue Scan length adjustable 3–16 mm Scan rotation adjustable 360° Scan modes for live and capture acquisition Live: ■ 1-line Capture: ■ 1-line ■ 5-lines ■ 5-lines ■ cross hair ■ cube



ZEISS RESIGHT Family

Mechanical data	Focus range with LH175 lens holder: 31 mm (position of intermediate image)
	Focus range with LH200 lens holder: 38 mm (position of intermediate image)
	Rotation angle of lens revolver and holder: 0°–360°
Lenses included	60D, 128D
Weight	ZEISS RESIGHT 500 (manual): 0.45 kg ZEISS RESIGHT 700 (motorized): 0.50 kg

ZEISS CALLISTO eye

Touch screen	Projected Capacitive Touch (PCT) with external transparency, scratch-proof
Processor	Intel® Core i7 620M 2.66 GHz
Hard drive	SATA, 500 GB
Display	Integrated 22" color flat screen with high luminosity and wide viewing angle
Video signals	PAL 576i50; NTSC 480i60; 1080i50; 1080i60 Full functionality and usability in conjunction with ZEISS CALLISTO eye is only possible with camera models from Carl Zeiss Meditec AG
Ports	1 × CAN-Bus, 1 × RS232, 2 × 1 Gigabit Ethernet, 5 × USB2.0, 1 × potential equalization
Video input	1 × Y/C, 1 × HD-SDI
Video output	1 × VGA, 2 × HDMI
Connectivity	Integrated RJ45 10/100Base-T Ethernet port for connection to ZEISS OPMI LUMERA 700 and hospital network
Weight	15 kg

The moment you can see beyond the imaginable.
This is the moment we work for.



// OPMI LUMERA 700 AND RESCAN 700
MADE BY ZEISS





OPMI LUMERA 700
RESIGHT 500
RESIGHT 700



0297
RESCAN 700
CALLISTO eye



Carl Zeiss Meditec AG

Goeschwitzer Strasse 51–52
07745 Jena
Germany
www.meditec.zeiss.com/contacts
www.meditec.zeiss.com/lumera



Carl Zeiss Meditec, Inc.

5160 Hacienda Drive
Dublin, CA 94568
USA
www.zeiss.com/med

SUR.6731 Rev B

The contents of the brochure may differ from the current status of approval of the product in your country. Please contact our regional representative for more information. Subject to change in design and scope of delivery and as a result of ongoing technical development.

OPMI LUMERA, RESIGHT, CALLISTO eye, RESCAN, Z ALIGN and K TRACK are either trademarks or registered trademarks of Carl Zeiss Meditec AG.

© Carl Zeiss Meditec AG, 2014. All copyrights reserved.