



SLIT LAMP

SL9800 | SL9900 | SL9900 ELITE

The new slit lamps CSO include innovative LED illumination source.

High quality convergent optical biomicroscope.

High quality and smooth mechanical movements.

New digital vision high resolution camera (optional).

The most popular and appreciated slit lamp by Laser manufacturer, worldwide.

SL9900 ELITE





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CSO slit lamps are engineered to the highest European quality standards and come equipped with LED illumination.

Ergonomic design, high quality optics and precision mechanical parts provides the user with an unparalleled experience while conducting a slit lamp examination

SL9900





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LED Light source provide stable color temperature without infrared light emission, comfortable for the patient and very useful for high quality view and pictures of camera.

Single hand operate, base joystick and light intensity adjustment potentiometer.

Blue cobalt and yellow barrier filter for flouresceine.

SL9800





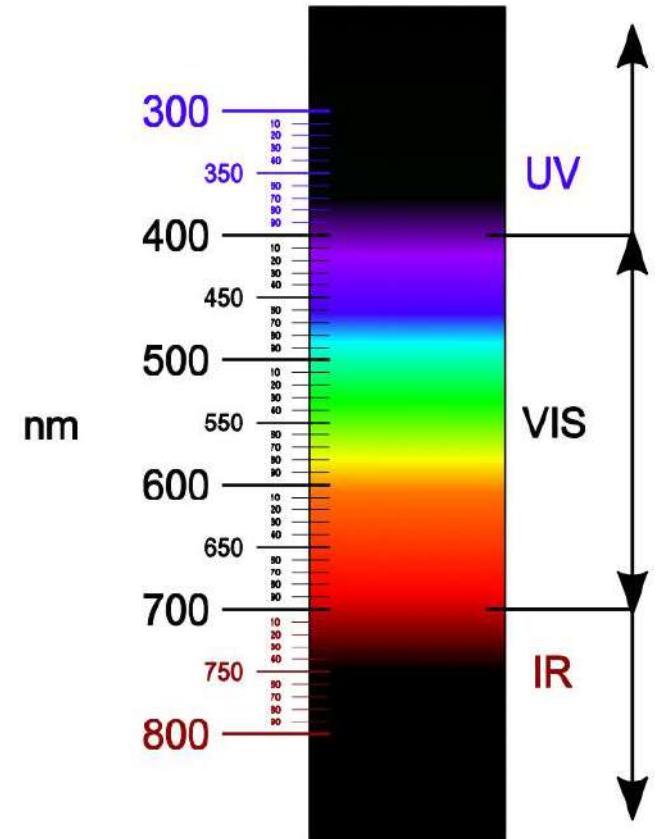
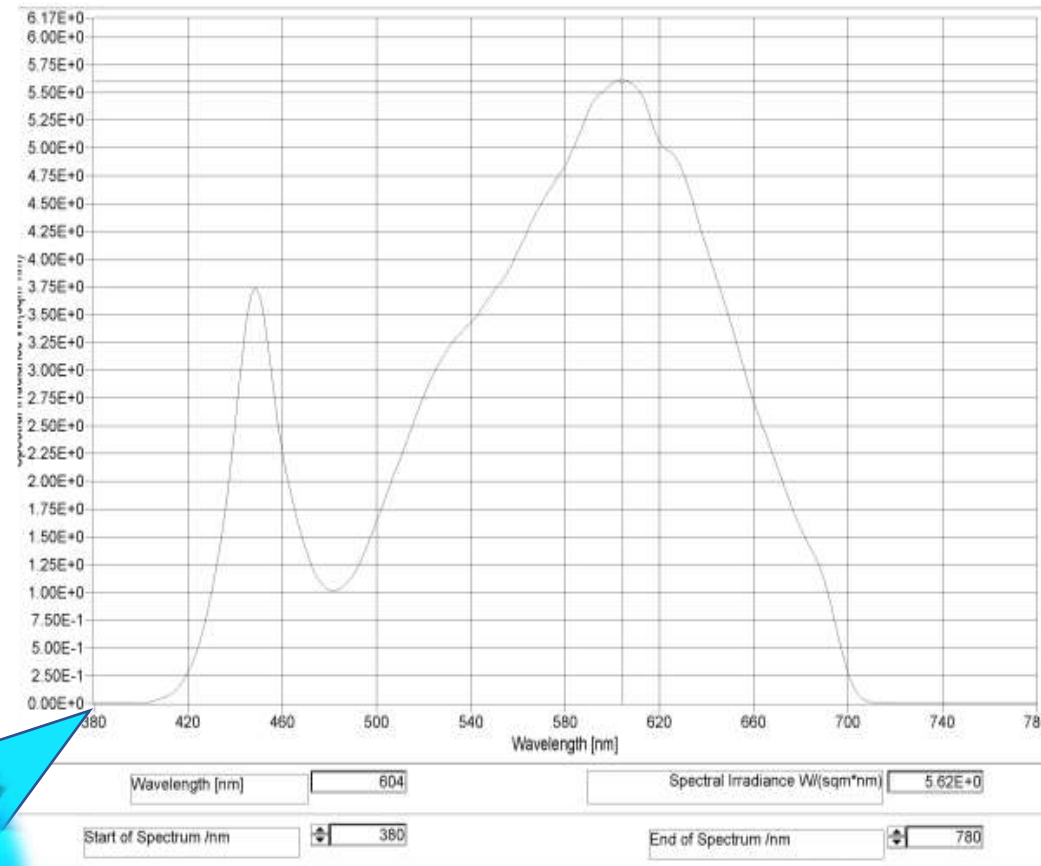
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LED Source light spectrum IR and UV free.-

Long life operation 50000 hours continuous.

Conform to ISO EN 15400 Light hazard protection.





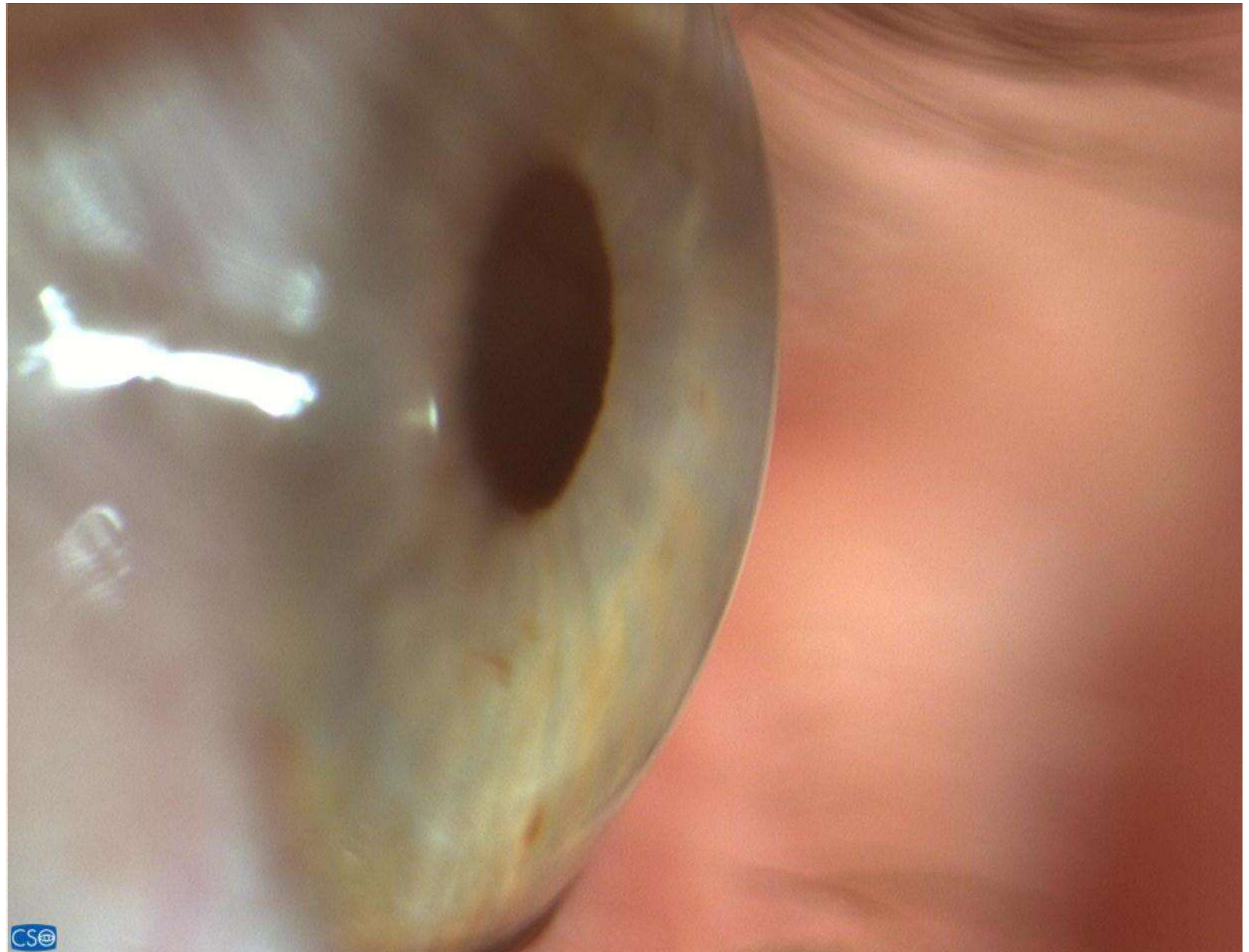
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ACQUISITION TECHNIQUES

EXAMPLE OF PICTURE QUALITY

By means of many acquisition strategies, combined with the high quality of slit lamp microscope and digital camera, It allows the acquisition of high quality pictures for the detection of fine details





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ACQUISITION TECHNIQUES

- Direct Illumination
- Optical Sectioning
- Proximal Illumination
- CORNEA Back-lighting
- Scleral Scattering
- Specular Reflection





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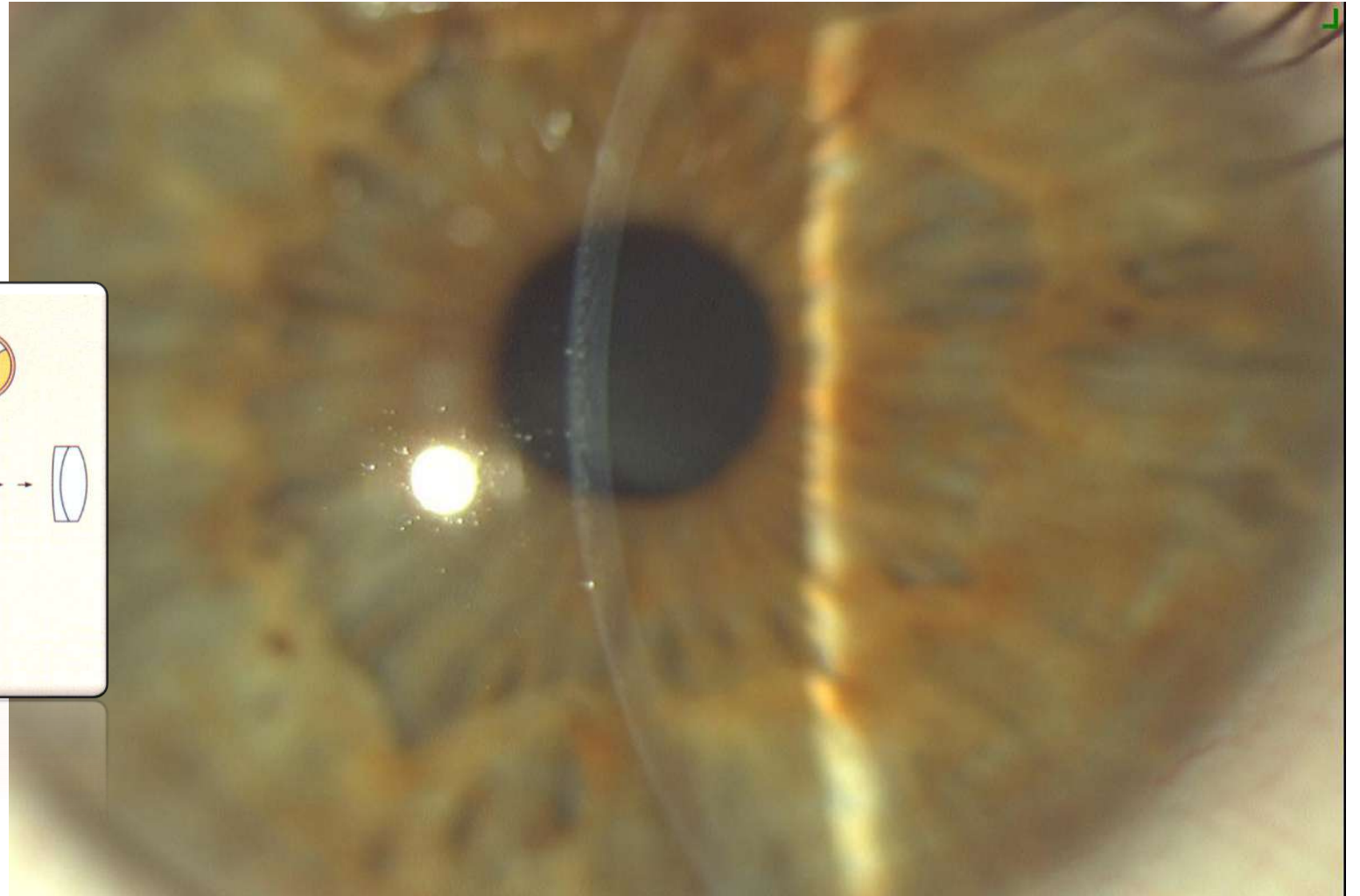
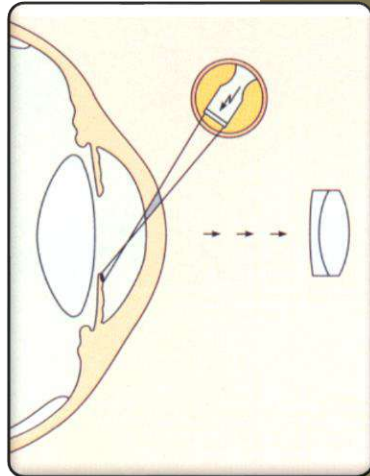
ACQUISITION TECHNIQUES

EXAMPLE OF PICTURE QUALITY

OPTICAL SECTION

Slit beam optical section
illumination

With background
illumination





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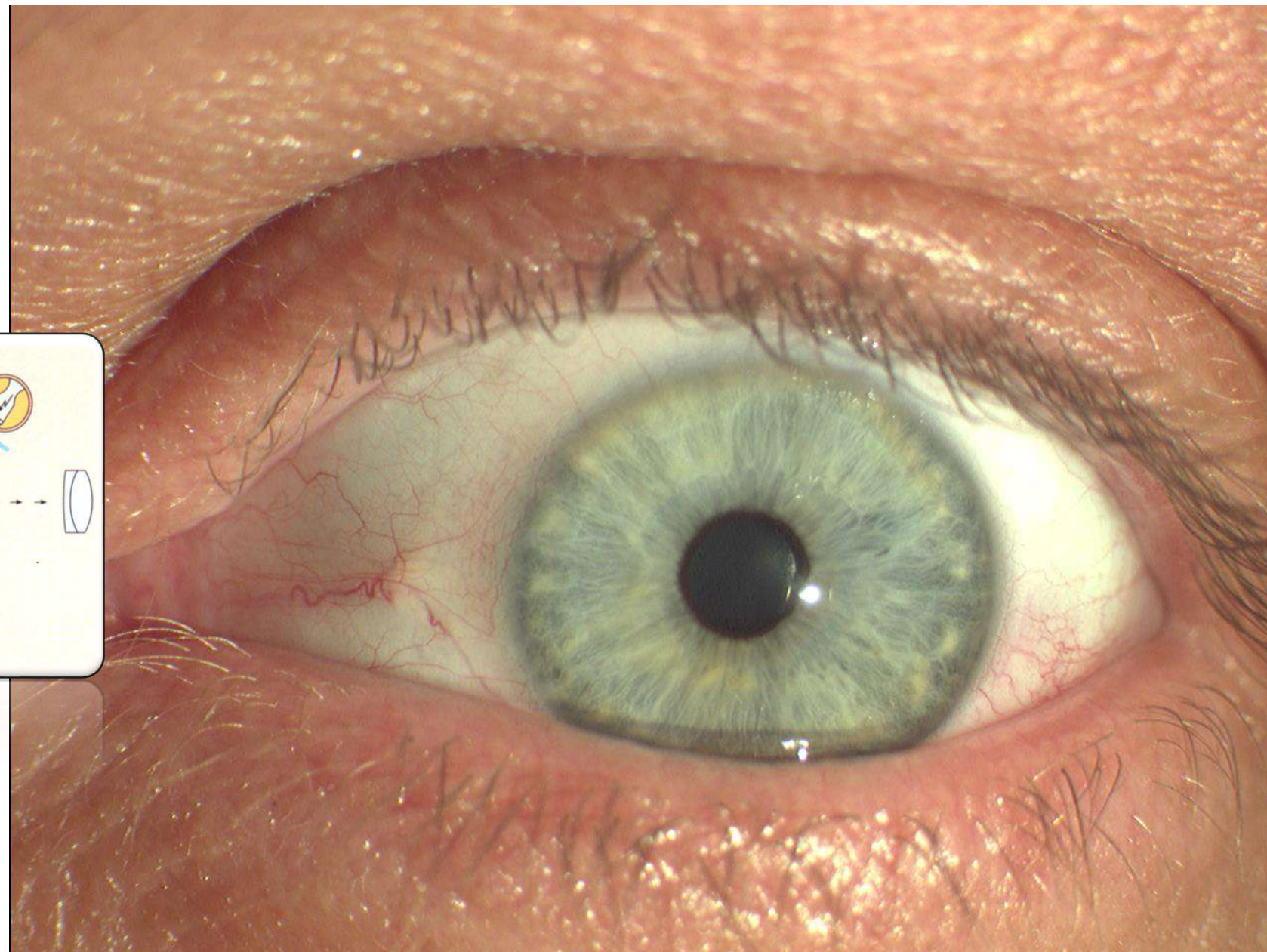
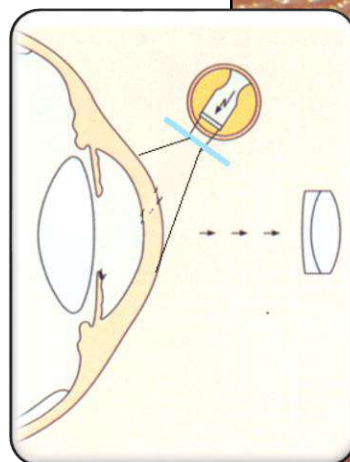
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ACQUISITION TECHNIQUES

EXAMPLE OF PICTURE QUALITY

DIFFUSED ILLUMINATION

Anterior segment





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ACQUISITION TECHNIQUES

EXAMPLE OF PICTURE QUALITY

DIFFUSED ILLUMINATION

Tear drain





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ACQUISITION TECHNIQUES

EXAMPLE OF PICTURE QUALITY

DIFFUSED ILLUMINATION

Scleral vascularization





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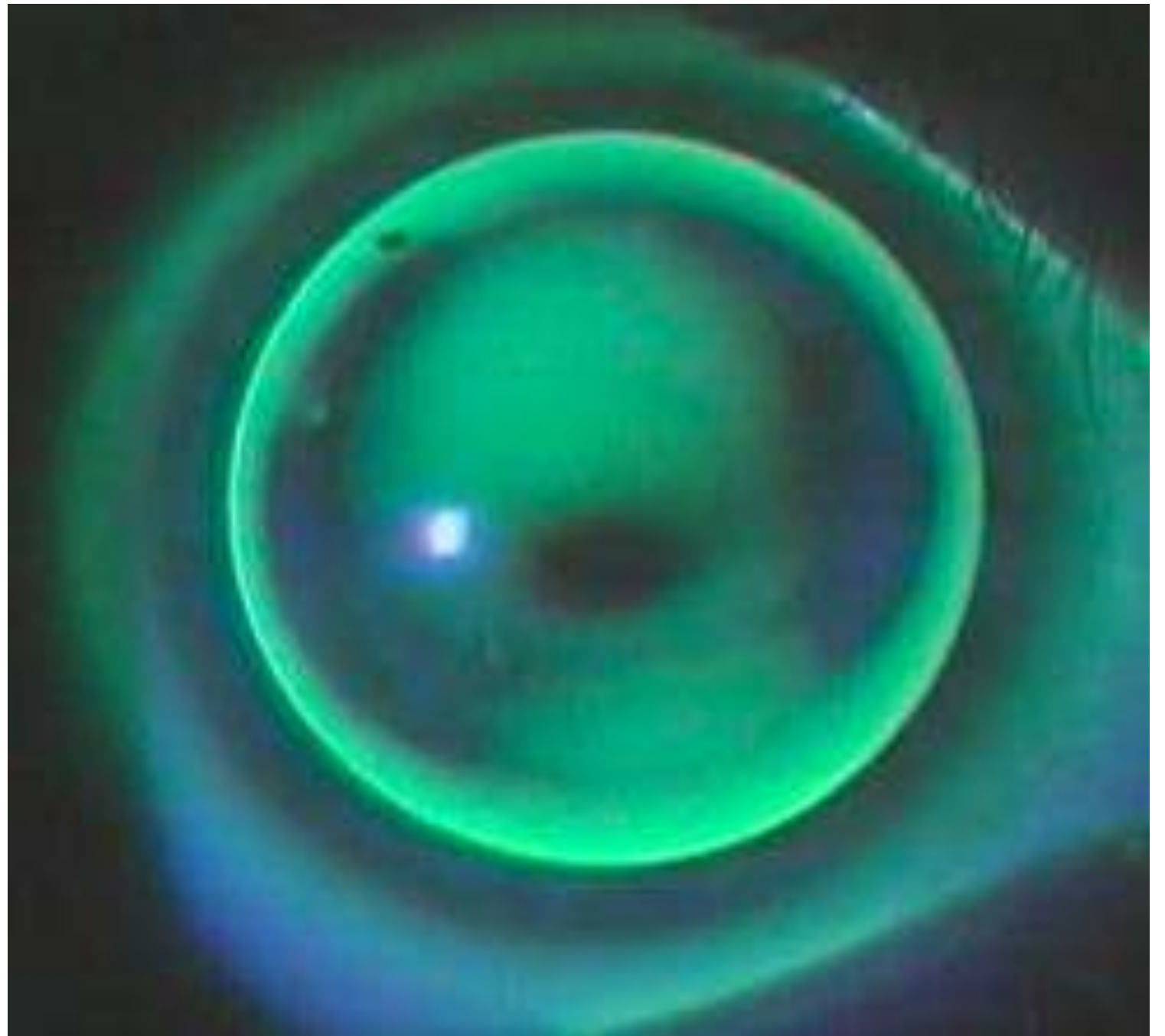
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ACQUISITION TECHNIQUES

EXAMPLE OF PICTURE QUALITY

DIRECT
COBALT BLUE FILTER ILLUMINATION

Wide Beam with diffuse overall
blue Flouroscein Contact Lens





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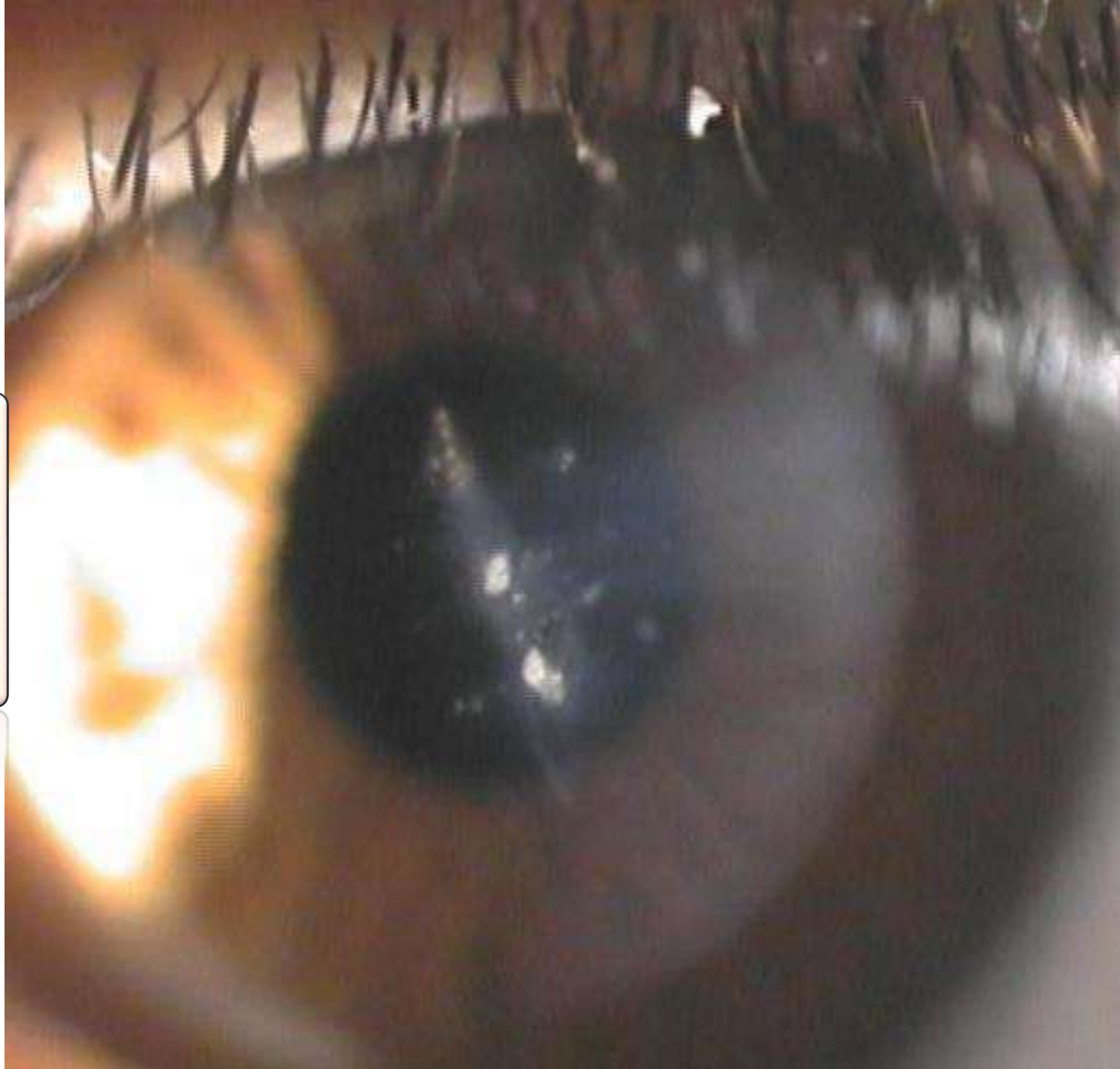
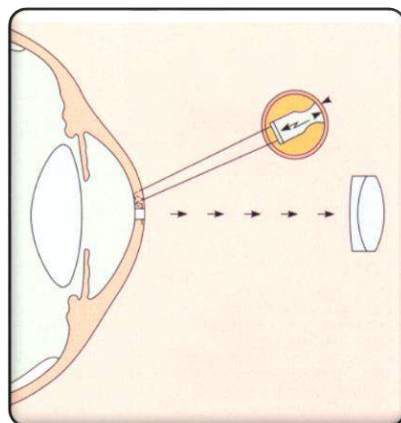
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ACQUISITION TECHNIQUES

EXAMPLE OF PICTURE QUALITY

CORNEA BACKLIGHTING

Endothelia depots.





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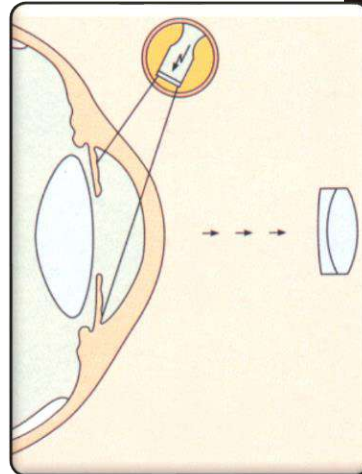
ACQUISITION TECHNIQUES

EXAMPLE OF PICTURE QUALITY

SL 9800 SL 9900 Elite
examples of picture quality.

CORNEA BACKLIGHTING

Jelly bump.





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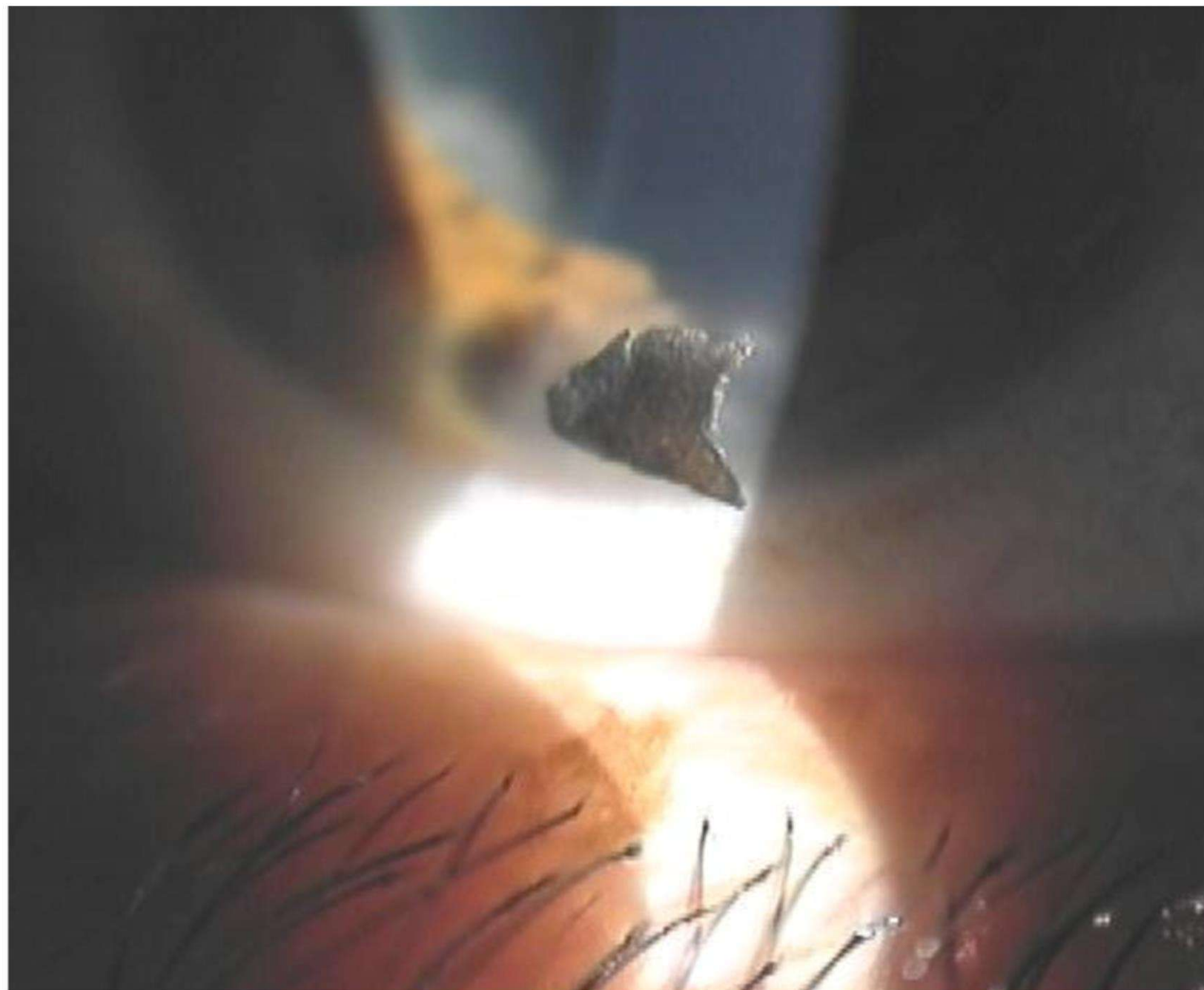
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ACQUISITION TECHNIQUES

EXAMPLE OF PICTURE QUALITY

DIRECT
RETROILLUMINATION OF THE IRIS

Residue in cornea





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ACQUISITION TECHNIQUES

EXAMPLE OF PICTURE QUALITY

DIRECT
RETROILLUMINATION OF THE IRIS

Residue in cornea





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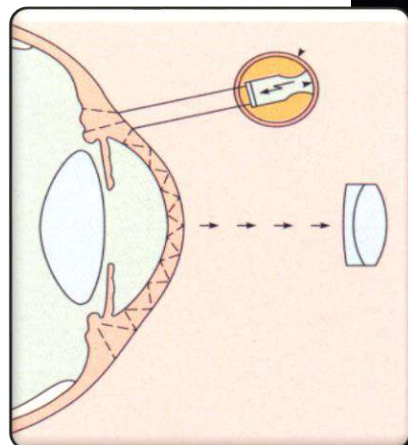
ACQUISITION TECHNIQUES

EXAMPLE OF PICTURE QUALITY

SCLEROTIC SCATTER

Broad Beam Grazing Light

Vogt's striae





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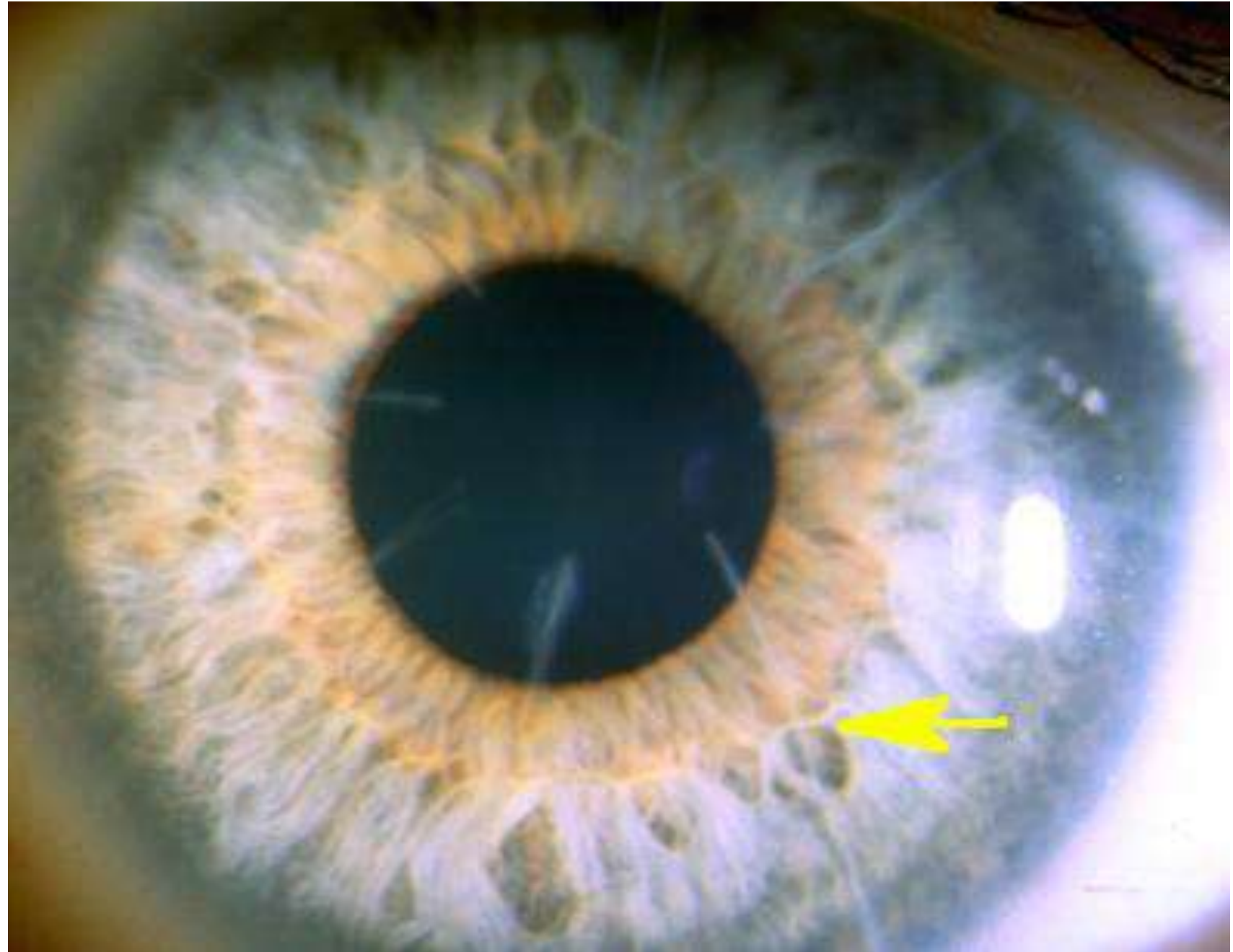
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ACQUISITION TECHNIQUES

EXAMPLE OF PICTURE QUALITY

SCLEROTIC SCATTER

Sclerotic scatter light bright beam
Corneal scars





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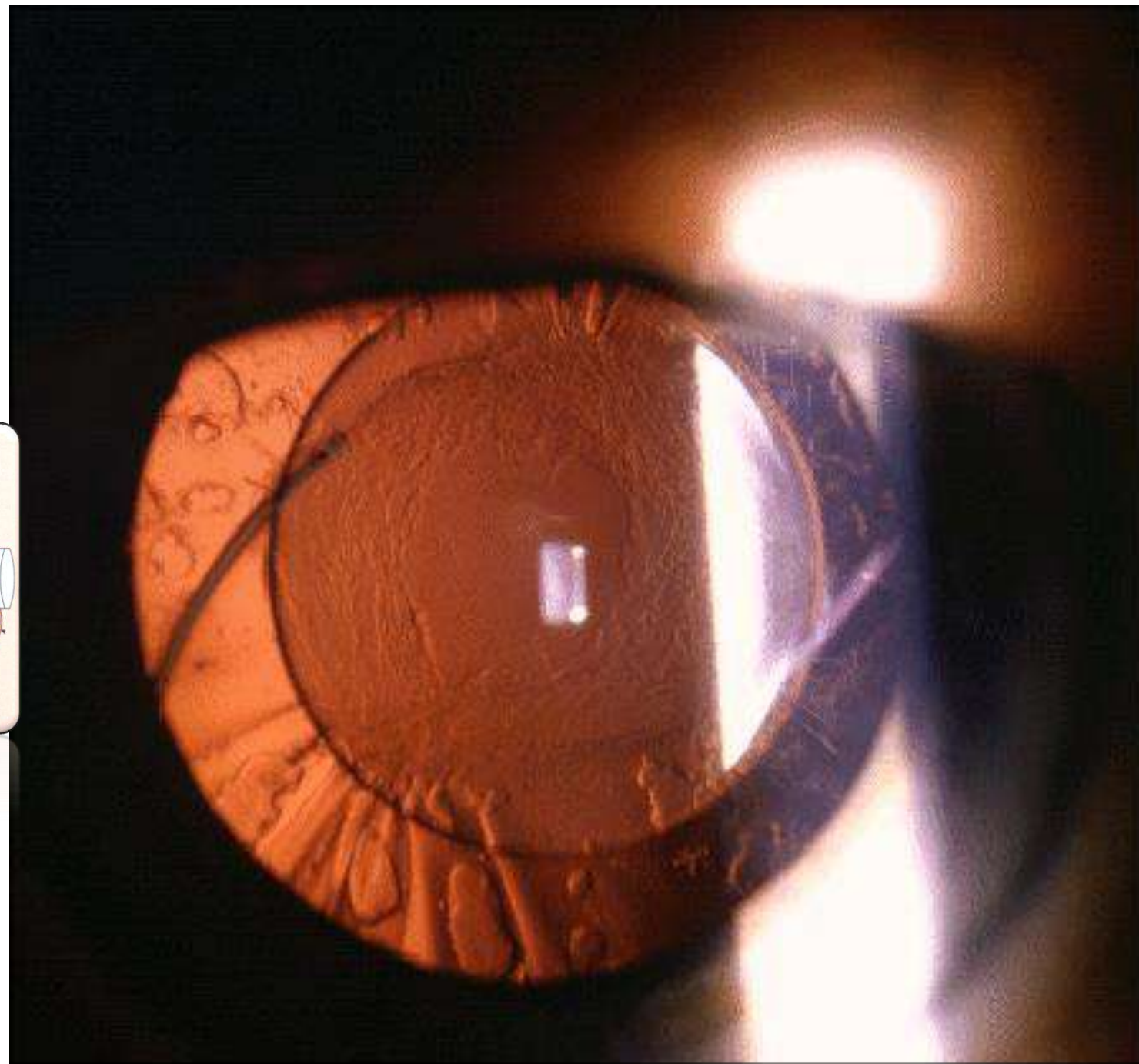
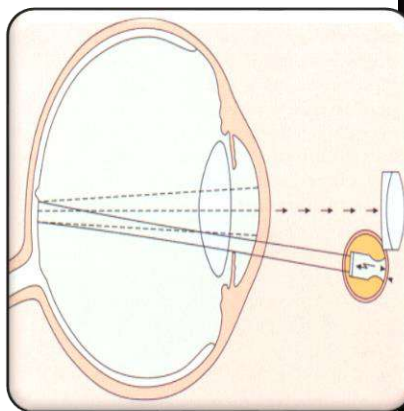
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ACQUISITION TECHNIQUES

EXAMPLE OF PICTURE QUALITY

RETROILLUMINATION

Lens – with IOL





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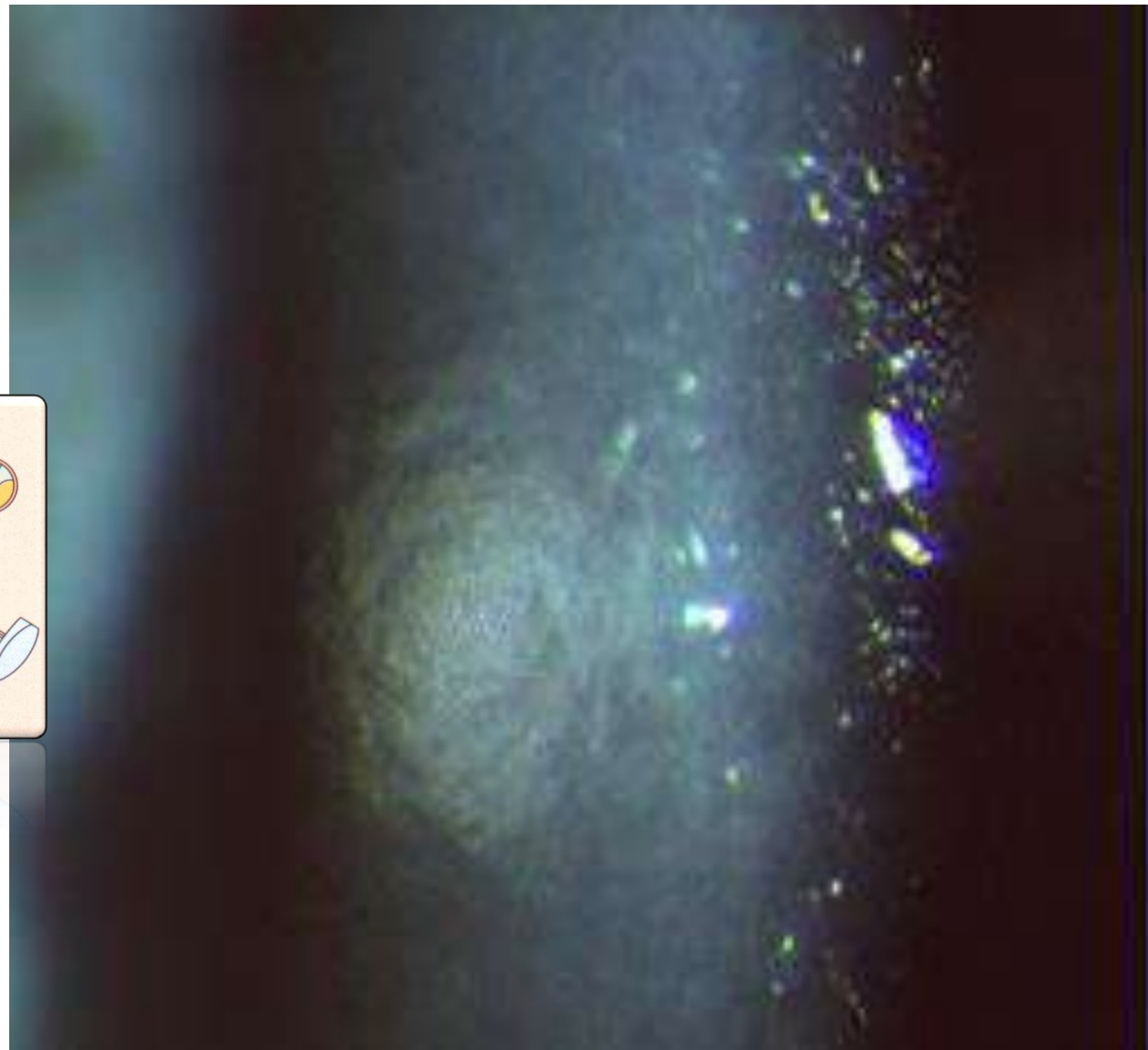
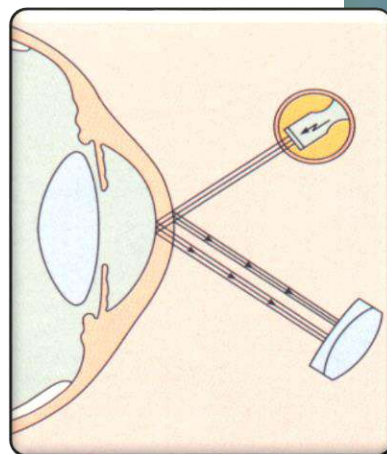
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ACQUISITION TECHNIQUES

EXAMPLE OF PICTURE QUALITY

SPECULAR REFLECTION LIGHT

Endothelial cells





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ACQUISITION TECHNIQUES

EXAMPLE OF PICTURE QUALITY

FUNDUS

Central retina with a 90-diopter Lens

OR

Fundus – Central retina with a three-Mirror contact lens





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ACQUISITION TECHNIQUES

POLARIS (OPTIONAL)

Advanced analysis of the tear film Polaris enables the user to evaluate the stability and quality of the tear film through the measurement of the non invasive break up time.





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ACQUISITION TECHNIQUES

EXAMPLE OF PICTURE QUALITY

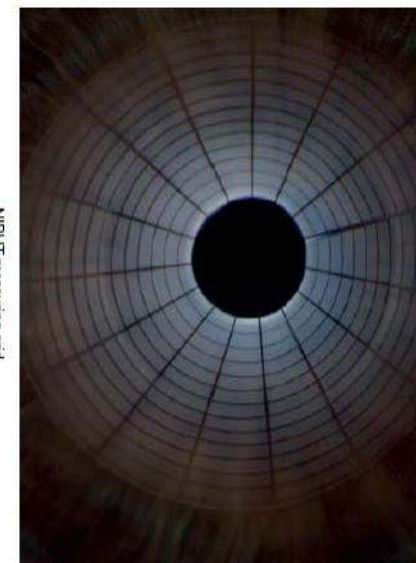
Polaris integrates with the Phoenix software system so the patient data can be recorded for later review



Image irregularities indicate an irregular and discontinuous tear film.



NIBUT measuring grid





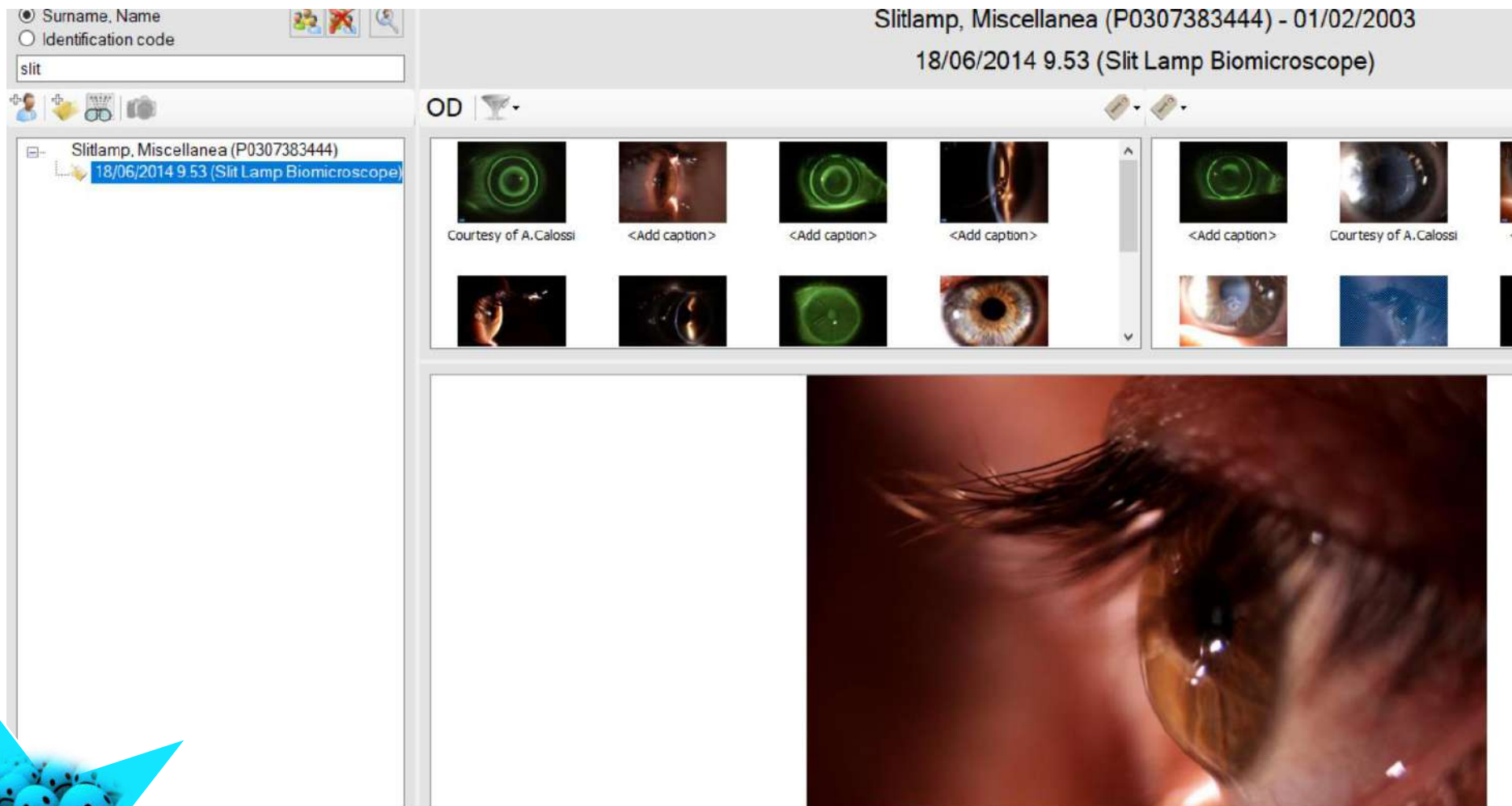
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PHOENIX

PHOENIX SOFTWARE

Slit Lamp uses the Phoenix software application allowing patient data to be saved for future review and analysis, shared by all CSO devices.





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PHOENIX

PHOENIX Ver. 3.7

Based on the Ocular Surface Disease Index questionnaire (OSDI)*, limbal and conjunctival hyperaemia, Meibomian glands analysis, tear meniscus analysis, NIBUT, and tear osmolarity, calculated merging together all partial scores, provides an overall evaluation of the clinical condition of the patient for a comprehensive diagnosis of the dry eye disease.

* SL WITH OTHER CSO DEVICES

Meriotti, Andrea
Birthdate: 21/12/1985

OD

Ocular Surface Disease Index (OSDI)

Click al paziente le seguenti 12 domande e segna la casella che rappresenta al meglio la risposta.

	Tutto il tempo	La maggior parte del tempo	Metà del tempo	Qualche volta	Nessuna volta
1. Sensibilità alla luce?	0.4	0.3	0.2	0.1	0.0
2. Sensazione di coriandoli?	0.4	0.3	0.2	0.1	0.0
3. Occhi doloranti e infiammati?	0.4	0.3	0.2	0.1	0.0
4. Visione assottigliata?	0.4	0.3	0.2	0.1	0.0
5. Visione nebulosa?	0.4	0.3	0.2	0.1	0.0

Subtotale risposte da 1 a 5: 10

	Tutto il tempo	La maggior parte del tempo	Metà del tempo	Qualche volta	Nessuna volta	N/A
6. Larmeggi?	0.4	0.3	0.2	0.1	0.0	0.0
7. Glande secche?	0.4	0.3	0.2	0.1	0.0	0.0
8. Lavoro al PC o ufficio di lavoro?	0.4	0.3	0.2	0.1	0.0	0.0
9. Visione TV?	0.4	0.3	0.2	0.1	0.0	0.0

Subtotale risposte da 6 a 9: 10

	Tutto il tempo	La maggior parte del tempo	Metà del tempo	Qualche volta	Nessuna volta	N/A
10. Condizioni visive pessime?	0.4	0.3	0.2	0.1	0.0	0.0
11. Zone con lacrima visibile? (ultima volta)	0.4	0.3	0.2	0.1	0.0	0.0
12. Zone con aria condizionata?	0.4	0.3	0.2	0.1	0.0	0.0

Subtotale risposte da 10 a 12: 0

OS

OSDI Mild

Conjunctival Grade 2

Glands loss 1%

TM height 35mm

NiBuT 0,0sec

275 normal

Trace

OSDI Mild

Conjunctival Grade 1

Glands loss 7,8%

TM height 0,40mm

NiBuT 10,4sec

275 Normal

Trace

Questionnaire

Ocular redness

Meibomian glands

Tear meniscus

NiBuT

Osmolarity

Overall evaluation:

Trace





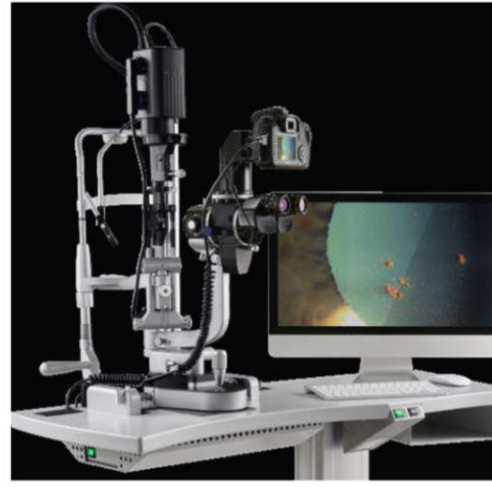
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COMPETITOR

Many competitors in this field

CSO is always looking to increase the quality while maintaining right balance between performance and price.



SL HAAG STREIT



SL TOPCON



SL SHIN NIPPON



SL TAKAGI



SL HUVITZ





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LASER SLIT LAMP CSO

Manufacturers of laser
Have choose CSO slit lamp
to mount their own laser .
This is a proof of quality and
affability .





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SL 9900 ELITE

Thank many features and special tools integrated on the camera
It is the top slit lamp of the range CSO manufacture .





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CHOOSE YOUR SLIT LAMP

Converging microscope optics provides comfort to the user when using the slit lamp. All the microscopes include a yellow filter* to improve the quality of images in fluorescein.

*(not available on 2X)



SL 9800



SL 9900





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CHOOSE YOUR SLIT LAMP

SL 9800

LIGHTING HEAD

A different lighting head available for SL 9800 which could match with different laser.

Prisma



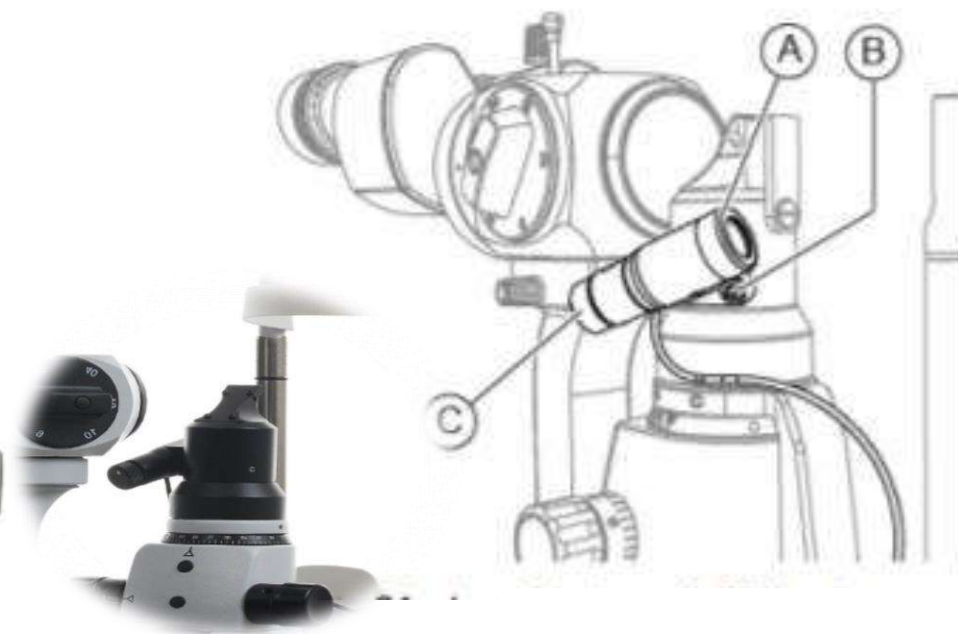
Split



100272Y50 DEVICE SL9800

with:

- Microscope 5x with Zeiss attachment
- Split head
- Arrangement for laser Systems installation





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BASES AND VIDEO

All CSO slit lamps can be equipped with the CSO Digital Vision HR camera.

This high performance camera can capture and record the smallest details, while conducting a slit lamp examination.

When connected to the Phoenix patient management software, it is possible to store high quality images or video for further review.

* (not compatible with 2X microscope)



Standard



Digital Redy



Camera Digitale





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GALILEAN MICROSCOPE
ACCESSORIES

For all CSO Galilean microscope
are available different beam splitter to
connect some specific adaptors useful
for a specific clinical application.

- Ocular convergence angle 6°
- Eyepieces 12,5x
- Ametropia compensation +/- 8 D
- Visual field from 26 mm to 8,5 mm
- Interpupillary distance from 50 mm
to 80 mm

SINGLE OR DOUBLE exit separator
(To be ordered with the joint)



Joint for camera pitch 52



Joint for the second operator



Separator 20° inclined eyepieces





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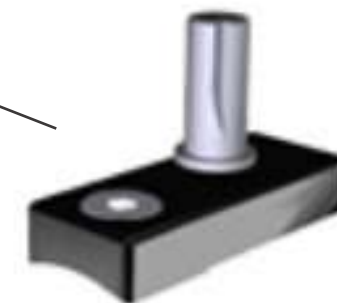
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SL 9800
TONOMETER Z800
AND SUPPORT



COD.100250302

Z800



COD.100203101



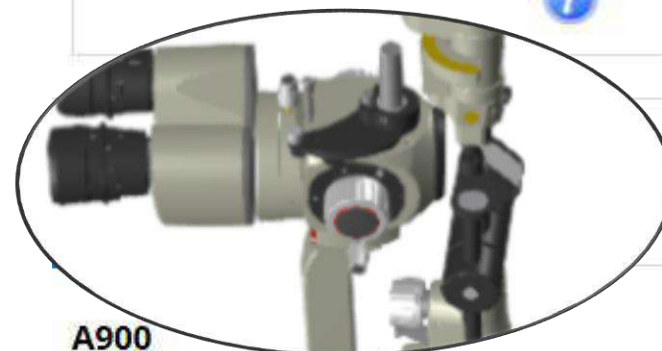
SLIT LAMP

SL9800 | SL9900 | SL9900 ELITE

SL 9900
TONOMETER AND SUPPORT



A900



A900



COD. 100250303

F900



F900



COD.100203112





SLIT LAMP

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A 900 TONOMETER AND SUPPORT
AVAILABLE SL 9900 2X

Measuring prism compatible for
all tonometers



COD.100203100



	102001110	Sterilizable transparent measuring prism for tonometer
	102003200	Disposable measuring prism for tonometer (100 pieces)



SLIT LAMP

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PROTECTIVE SHIELD AGAINST
TRANSMISSION OF VIRUS

NEWS



COD.100270630

