

Goldmann Applanation Tonometer



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Measurement Principle

Applanation tonometry is based on the following principle: Measurement of the force necessary to flatten a corneal surface of constant ($\varnothing 3.06\text{mm}$) size.

Using the slitlamp microscope at 10x magnification provides an exact measurement.

Benefits:

- Measurement of a sitting patient.
- Through the slitlamp – not on a separate instrument.
- Accuracy of approx. ± 0.5 mm Hg.
- Direct reading of the IOP in mm Hg.
- Not effected by scleral rigidity.
- Repeated measurements do not artificially elevate IOP.
- Easy to calibrate.
- Consistency between different Goldmann tonometers.
- Adequate space is provided to allow access by the user to the patient i.e. to hold open the eyelid.

The principle of applanation tonometry is simple and the high precision manufacture guarantees continuous, reliable performance.



Model AT 900 C/M

For Slitlamps BM 900®, BM 900®V and BC 900®

This model remains on the slitlamp, swinging into position when required. A notch ensures exact centration of the prism with the left microscope objective. Applanation tonometry is performed through the left eye-piece.

Positioning the illumination so that it just touches the tonometer support ensures optimal illumination without any unwanted reflection.

The tonometer may be easily lifted off its pivot to allow other attachments to be mounted in its place.



Model AT 900

For Slitlamps BM 900® and BQ 900®

This model is for use when you do not want the tonometer to swing into position when the slitlamp is used.

It is mounted directly on the slitlamp which has two positions for Applanation Tonometry to be performed either the left or right eye.

Unlike the other models, the M/Q is used with a viewing angle of ca. 60°.



Model AT 870

For Zeiss and some Zeiss-type Slitlamps

Unlike the previously mentioned models the AT 870 is designed to swing down into position from above the slitlamp microscope. It may be removed from the slitlamp if required.

Once positioned, use of the AT 870 is the same as with the other models.

In its «parked» position it does not interfere with normal diagnostic use of the slitlamp.

Model M/Q
 BM 900®, BM 900® V

For those users who do not wish to remove the tonometer to remain on the microscope when not in use.

Directly to the guide plate – positions, allowing tonometry to be performed through the right eyepiece.

For tonometers, the AT 900 allows the illumination at an angle to the microscope.

Model AT 900 BQ

For Slitlamp BQ 900®

This model is permanently mounted to the BQ 900 Slitlamp and, consequently, leaves the pivot mount on the top of the microscope free for other attachments without the need to remove the tonometer.

Tonometry is performed through the right eyepiece only.

Positioning the illumination so that it just touches the tonometer support ensures optimal illumination without any unwanted reflection.



Haag-Streit Group:

HAAG-STREIT HOLDING AG

Gartenstadtstrasse 10
CH-3098 Köniz
Tel. ++ 41 31 978 01 00
Fax ++ 41 31 978 02 80
holding@haag-streit.ch
www.haag-streit-group.com

HAAG-STREIT AG

Gartenstadtstrasse 10
CH-3098 Köniz
Tel. ++ 41 31 978 01 11
Fax ++ 41 31 978 02 82
info@haag-streit.ch
www.haag-streit.com

HAAG-STREIT IMMOBILIEN AG

Gartenstadtstrasse 10
CH-3098 Köniz
Tel. ++ 41 31 978 01 00
Fax ++ 41 31 978 02 80
immobilien@haag-streit.ch

HAAG-STREIT HOLDING US INC HAAG-STREIT USA INC

5500 Courseview Drive
Mason/Ohio 45040/USA
Tel. ++ 1 513 336 7255
Fax ++ 1 513 336 7260
Toll Free 800 787 5426
info@haag-streit-usa.com
www.haag-streit.com

Möller Microsurgical

5500 Courseview Drive
Mason/Ohio 45040/USA
Tel. ++ 1 513 459 0770
Fax ++ 1 513 459 7964
Toll Free 800 440 9105
moeller@haag-streit-usa.com
www.moeller-wedel.com

RELIANCE MEDICAL PRODUCTS INC

3535 Kings Mills Road
Mason/Ohio 45040-2303/USA
Tel. ++ 1 513 398 3937
Fax ++ 1 513 398 0256
Toll Free 800 735 0357
info@reliance-medical.com
www.reliance-medical.com

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SPECTROS AG

Lohweg 25
CH-4107 Ettingen
Tel. ++ 41 61 721 12 12
Fax ++ 41 61 721 15 66
info@spectros.ch

HAAG-STREIT DEUTSCHLAND GmbH

Rosengarten 10
D-22880 Wedel
Tel. ++ 49 4103 709 02
Fax ++ 49 4103 709 370
info@haag-streit.de
www.haag-streit.de

MÖLLER-WEDEL GmbH

Rosengarten 10
D-22880 Wedel
Tel. ++ 49 4103 709 01
Fax ++ 49 4103 709 355
info@moeller-wedel.com
www.moeller-wedel.com

MÖLLER-WEDEL OPTICAL GmbH

Rosengarten 10
D-22880 Wedel
Tel. ++ 49 4103 937 76 10
Fax ++ 49 4103 937 76 60
info@moeller-wedel.com
www.moeller-wedel.com

IPRO GmbH

Steinbeisstrasse 6
D-71229 Leonberg
Tel. ++ 49 7152 933 30
Fax ++ 49 7152 933 330
info@ipro.de
www.ipro.de

HAAG-STREIT UK

Edinburgh Way
GB-Harlow, Essex CM20 2TT
Tel. ++ 44 1279 414 969
Fax ++ 44 1279 456 305
info@haag-streit-uk.com
www.haag-streit-uk.com

CLEMENT CLARKE INT. LTD

Edinburgh Way
GB-Harlow, Essex CM20 2TT
Tel. ++ 44 1279 414 969
Fax ++ 44 1279 635 232
info@clement-clarke.com
www.clement-clarke.com

JOHN WEISS & SON LTD

89, Aston Drive
Brandwell Abbey
GB-Milton Keynes MK13 9HF
Tel. ++ 44 1908 318 017
Fax ++ 44 1908 318 708
info@johnweiss.com

HAAG-STREIT AUSTRIA GmbH

Mariahilfer Strasse 182/5
A-1150 Wien
Tel. ++ 43 1 895 03 64
Fax ++ 43 1 895 03 68
info@haag-streit.at
www.haag-streit.at

HAAG-STREIT FRANCE

Z.I. des Grands Vris
F-74540 Alby sur Cheran
Tel. ++ 33 450 77 33 33
Fax ++ 33 450 77 33 34
info@haag-streit.fr
www.haag-streit.fr

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