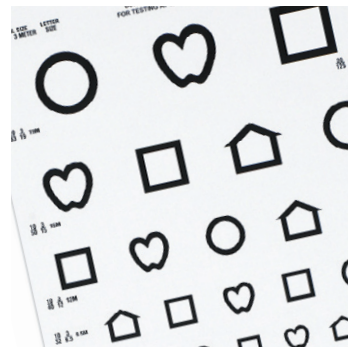
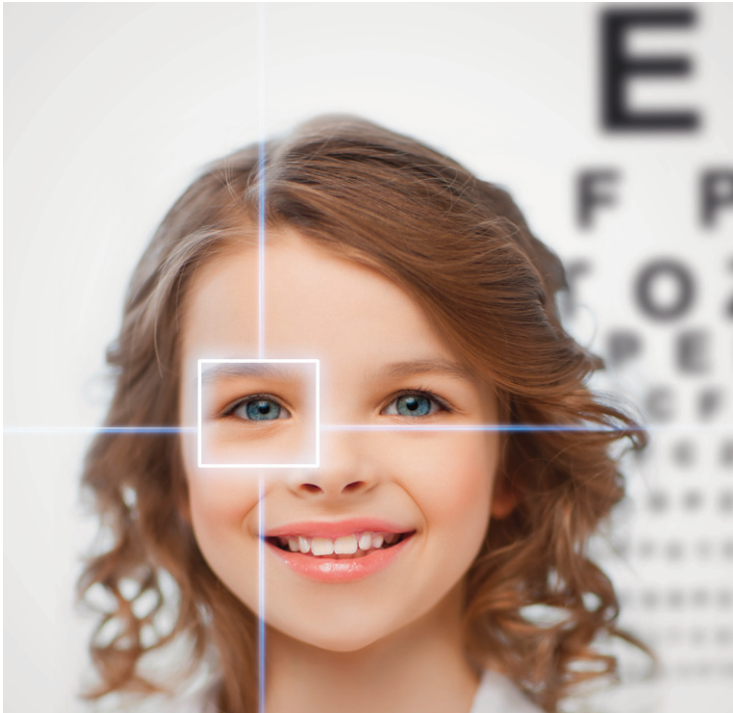
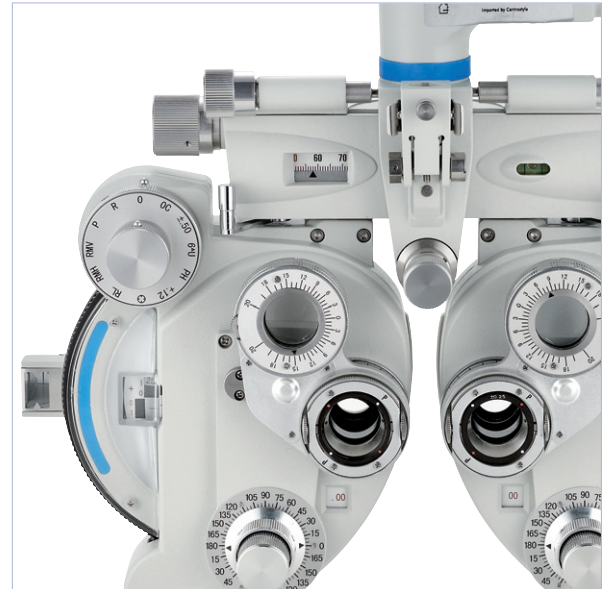


# TestRoom

PROFESSIONAL ARTICLES  
FOR EYESIGHT TESTING



# 6.0 TEST ROOM



## 6.1 Press-On - Occluders

- Press-On Prism ..... 4
- Press-On Lenses ..... 6
- Vinyl Eye Patch ..... 7
- Hypoallergenic occluders for frames ..... 8
- Hypoallergenic occluders with elastic ..... 9
- Adhesive Eye Patches ..... 10
- Bangerter Occlusion Foils ..... 12

## 6.2 Test Room Accessories

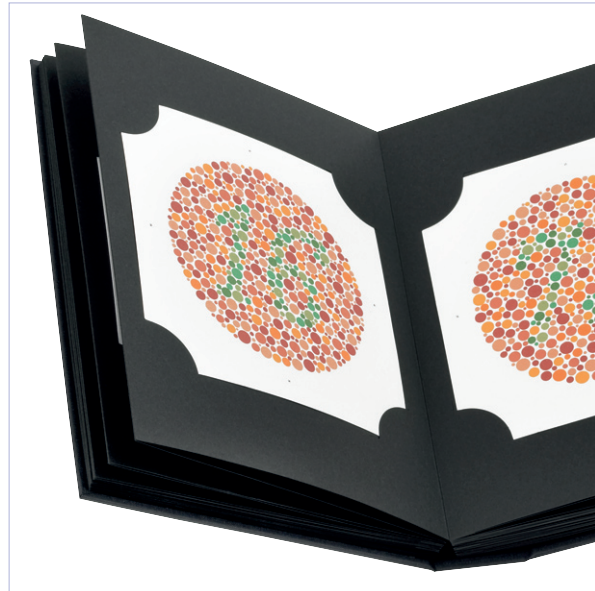
- Berens Prism Bar ..... 14
- Double Sphere Target (Wolff method) ..... 15
- Retinoscopy Racks ..... 15
- Cover Test Occluders ..... 16
- Marsden Training Ball - Brock String ..... 17
- Lang Fixation Cubes - Lang Fixation Sticks ..... 18
- Lang Stereo Test ..... 19

## 6.3 Stereo Test and Test Room Accessories

- Fly Stereopsis Test ..... 20
- Butterfly Stereopsis Test ..... 20
- Random Dot Stereopsis Test ..... 21
- Ishihara Colour Test ..... 22
- PD Scales ..... 23
- Pen Light ..... 23
- Chin Rest Tissue ..... 23

## 6.4 Digital PD Meters - Trial Frames - Trial Lens Set

- Digital PD Meter with PD Adjustment Slides ... 24
- Children Trial Frame Kit ..... 26
- Trial Frames ..... 28
- Trial Clips and Trial Lens Holder ..... 29
- Meniscus Trial Lens Set ..... 32
- Regular Trial Lens Set ..... 33
- Progressive Trial Lens Set ..... 34
- Prism Trial Lens Set ..... 35



**6.5 Flippers: cross cylinders and confirmation test**

- Metal flipper cross cylinders ..... 36
- Metal flipper binocular confirmation test ..... 36
- Plastic flippers binocular confirmation test ..... 37
- Plastic flippers polarized and red-green test ... 37

**6.6 Refractor/Phoropter - Optotype Projector**

- Refractor/Phoropter - Vision Tester ..... 38
- Self-balancing Arm for Refractor/Phoropter and Optotype Projector ..... 39
- Optotype Projector ..... 40
- Reading Charts for 3 m distance ..... 42

**6.7 Contact Lens Accessories - Poster**

- Schirmer Test ..... 44
- Fluorescein Sodium ..... 44
- Lens Catch Mat ..... 44
- Laminated poster "THE EYE" ..... 45

# 6.1 PRESS-ON

## Prism



Prisma 1<sup>Δ</sup>



Prisma 10<sup>Δ</sup>



Prisma 40<sup>Δ</sup>

CE EEC dir.93/42

**PRESS-ON™ PRISM:** Used to treat several ocular motility disorders including strabismus.

**Advantage of Press-On:** practical, lightweight, wide power range. Thin and flexible and easy to fix to existing lenses - held by static adhesion, easily removed. Low cost and low risk treatment during power changes and vision therapy.

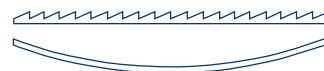
PRISM POWERS IN DIOPTRES - Prism Ø 67 mm - 1 pc.

Ref.	Power	Ref.	Power	Ref.	Power
08101	1 <sup>Δ</sup>	08107	7 <sup>Δ</sup>	08116	20 <sup>Δ</sup>
08102	2 <sup>Δ</sup>	08108	8 <sup>Δ</sup>	08117	25 <sup>Δ</sup>
08103	3 <sup>Δ</sup>	08109	9 <sup>Δ</sup>	08118	30 <sup>Δ</sup>
08104	4 <sup>Δ</sup>	08110	10 <sup>Δ</sup>	08119	35 <sup>Δ</sup>
08105	5 <sup>Δ</sup>	08112	12 <sup>Δ</sup>	08120	40 <sup>Δ</sup>
08106	6 <sup>Δ</sup>	08115	15 <sup>Δ</sup>		

The pictures show how the image is moved by the prism to accommodate the different direction of the patient's line of sight. The image is moved in the opposite direction to the base.

### HOW TO APPLY PRESS-ON PRISMS

- There is no need to determine the optical centre of the lens.
- The glossy side of the Press-On is applied to the inside of the lens.



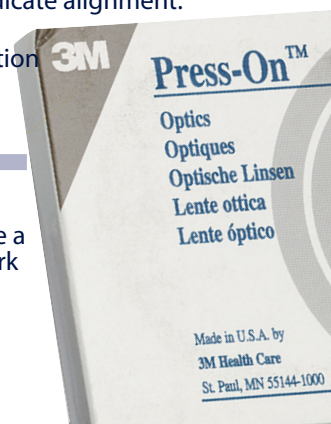
1. Place the lens onto the Press-On with the inner side of the lens facing the smooth surface of the prism, according to the prescription.
2. Trace the shape of the lens onto the Press-On.
3. Cut the Press-On (1 mm less than the traced shape).
4. Moisten the inside of the lens and apply the Press-On prism with the glossy side facing the inside surface of the lens. Do not use any adhesives.



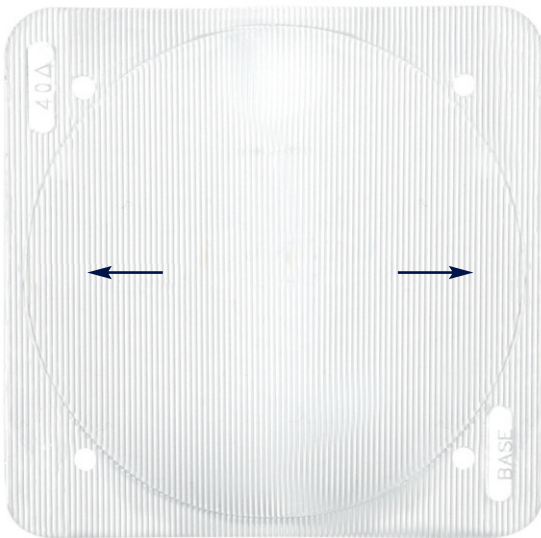
### CORRECT POSITIONING OF PRESS-ON PRISM ON LENS

The base orientation of the prism is indicated with the word "base" on the prism edge. Mark lens and prism at the same position on their edges to indicate alignment. The Press-On must be positioned onto the lens according to the BASE description indicated in the prescription: NASAL, TEMPORAL, TOP, BOTTOM, DIAGONAL.

Press-On and 3M are a registered trade mark of 3M



## Prism



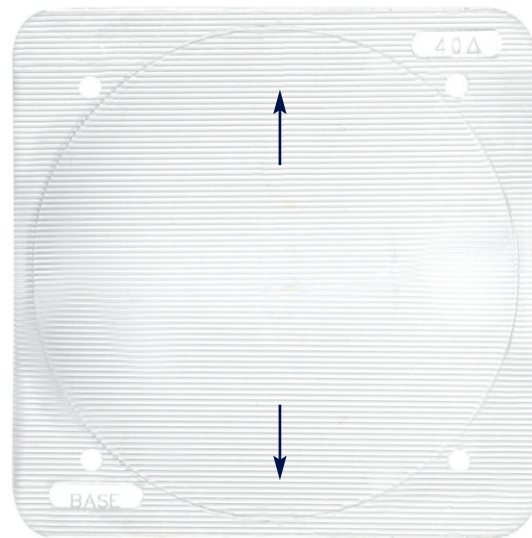
Vertical Correction

### NASAL BASE

The prism's lines are vertical.  
 Real position of the word 'BASE' on the Press-On:  
 Right eye: nasal, at the bottom, text vertical.  
 Left eye: nasal, at the top, text vertical.

### TEMPORAL BASE

The prism's lines are vertical.  
 Real position of the word 'BASE' on the Press-On:  
 Right eye: temporal, at the top, text vertical.  
 Left eye: temporal, at the bottom, text vertical.



Horizontal Correction

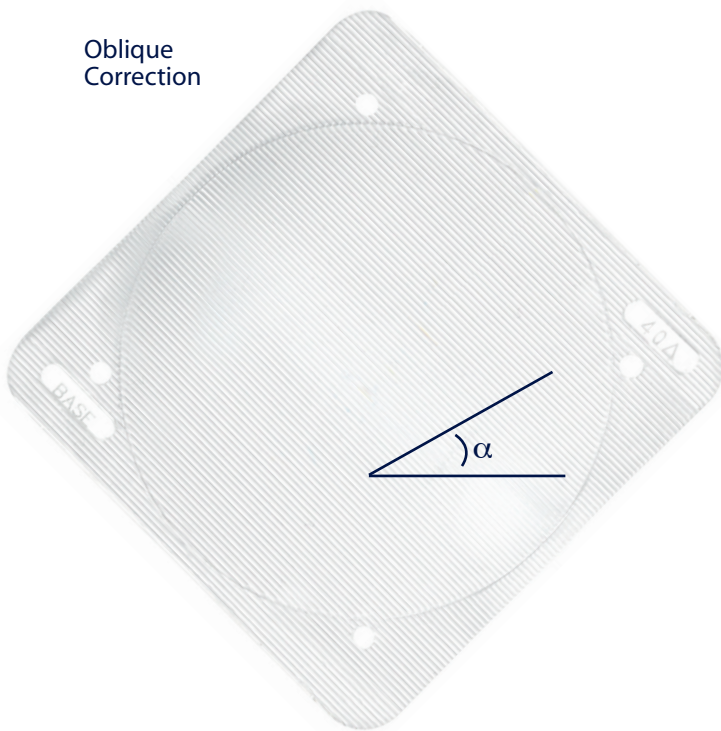
### TOP BASE

The prism's lines are horizontal.  
 Real position of the word 'BASE' on the Press-On:  
 Right eye: nasal, at the top, text horizontal.  
 Left eye: temporal, at the top, text horizontal.

### BOTTOM BASE

The prism's lines are horizontal.  
 Real position of the word 'BASE' on the Press-On:  
 Right eye: temporal, at the bottom, text horizontal.  
 Left eye: nasal, at the bottom, text horizontal.

Oblique Correction



### DIAGONAL BASE

The prism's lines are diagonal.  
 Such a prescription is achieved by locating the axis of the prism diagonally determining the angle with a Rotation Nomograph.



### Ref.11314

Display for Press-on Prism and Lenses  
 12 positions showing reference and dioptrical power  
 QR code for video  
 Dimensions 24x24x1 cm.  
 1 pc.

# 6.1 PRESS-ON

## Lenses



Press-On and 3M are a registered trade mark of 3M



CE dir.93/42 cee

### PRESS-ON™ LENS :

**Advantage of Press-On:** practical, lightweight, wide range of powers. Thin and flexible and easy to fix to existing lenses - held by static adhesion, easily removed. Low cost and low risk treatment during power changes and vision therapy.

POSITIVE LENSES - Lens Ø 67 mm - 1 pc.

Ref.	Power	Ref.	Power
<b>08121</b>	+1	<b>08124</b>	+3
<b>08122</b>	+2	<b>08126</b>	+4
<b>08123</b>	+2,5	<b>08127</b>	+5

NEGATIVE LENSES - Lens Ø 67 mm - 1 pc.

Ref.	Power
<b>08141</b>	-1
<b>08142</b>	-2

### HOW TO APPLY PRESS-ON LENSES

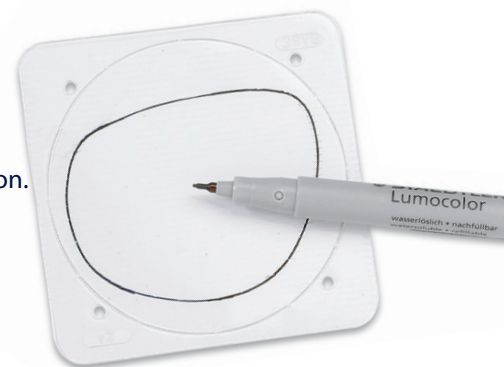
1. Determine the optical centre of the lens and "dot" it on the front surface.
2. Place the lens onto the Press-On with the inner side of the lens facing the smooth surface of the Press-On.
3. Make sure that the optical centre of the lens coincides with the optical centre of the Press-On, which is the smallest concentric ring.
4. Trace the shape of the lens onto the Press-On.
5. Cut the Press-On, but slightly smaller than the lens.
6. Moisten the inside of the lens and apply the Press-On with the glossy side facing the inside surface of the lens.



### NON-PERMANENT WATER SOLUBLE MARKER PEN

**Ref. 06970**

Ideal for marking press-on.  
Extra-fine black 0.4 mm.  
5 pcs.



## Bifocal Segments



Ref.	Power	Ref.	Power	Ref.	Power
<b>08163</b>	+2	<b>08164</b>	+2,5	<b>08165</b>	+3

2 pcs. - Dimensions 25x16 mm

Vinyl Eye Patch with elastic cord



**Ref. 08315**

- Permits eyelid movement
- Can be sanitized with alcohol swab
- Adjustable elastic cord
- Medium size (76,5x52,5 mm)

Pack 3 pcs.

# 6.1 HYPOALLERGENIC OCCLUDERS FOR FRAMES

For orthoptic therapies of amblyopia and strabismus - In fabric

Occluders for children and adults frames made of high quality ecological fabric, reusable and washable.

They are made with certified materials, hypoallergenic and breathable, and eco-friendly. The fabric is printed using inks and water based dyes.

They are designed to comfortably fit on any type of frame and provide a total occlusion, effective for the treatment of amblyopia (lazy eye).

These occluders offer the perfect combination of comfort, style and fit to make treatment time fun and effective for children, and elegant for adults. Most occluders have graphics suitable for both the right and left eyes; for those with "Fluorescent skull" and "Glitter heart" graphics you can choose for right or left eye.

**new**

**ADULT**

Dimensions: 110x55 mm

**Ref. 08171**  
Regular Beige

**Ref. 08172**  
Regular Black



**new**

**CHILDREN**

Dimensions: 100x50 mm

**Ref. 08180**  
Soccer Blues

**Ref. 08181**  
Pirate Skulls

**Ref. 08182**  
Jurassic

**Ref. 08183**  
Fairies

**Ref. 08184**  
Hearts&Flowers

**Ref. 08185**  
Hoots



**Ref. 08191R**  
Right eye  
**Ref. 08191L**  
Left eye  
Glow  
in the Dark



**Ref. 08192R**  
Right eye  
**Ref. 08192L**  
Left eye  
Glitter Hearts  
on pink



# HYPOALLERGENIC OCCLUDERS WITH ELASTIC 6.1

For orthoptic therapies of amblyopia and strabismus - In fabric

Occluders for children and adults with elastic to place directly on the eye, usable even without frames.

Entirely made of breathable certified fabric, safe in contact with the skin to ensure a soft and enveloping fit around the eye. Reusable and washable.

Ideal for occluding one eye: they are kept in position with a quality elastic, latex-free, which makes them comfortable to wear for long periods.

The occluders have a black lining to exclude most of the light and a reinforced fabric core that keeps its shape even after the washing.

These occluders have colorful and fun drawings graphics suitable for both the right and left eye.

**new**

**CHILDREN**  
Dimensions: 70x50 mm



**Ref. 08196**  
Football Crazy

**Ref. 08197**  
Hearts

**Ref. 08198**  
Skulls

**Ref. 08199**  
Magic Unicorn

**new**

**ADULT**  
Dimensions: 75x65 mm

**Ref. 08170**  
Beige



# 6.1 ADHESIVE EYE PATCHES

Hypo-allergenic fun patches for children's vision problems - **Latex Free**

Reserved for the Italian Market



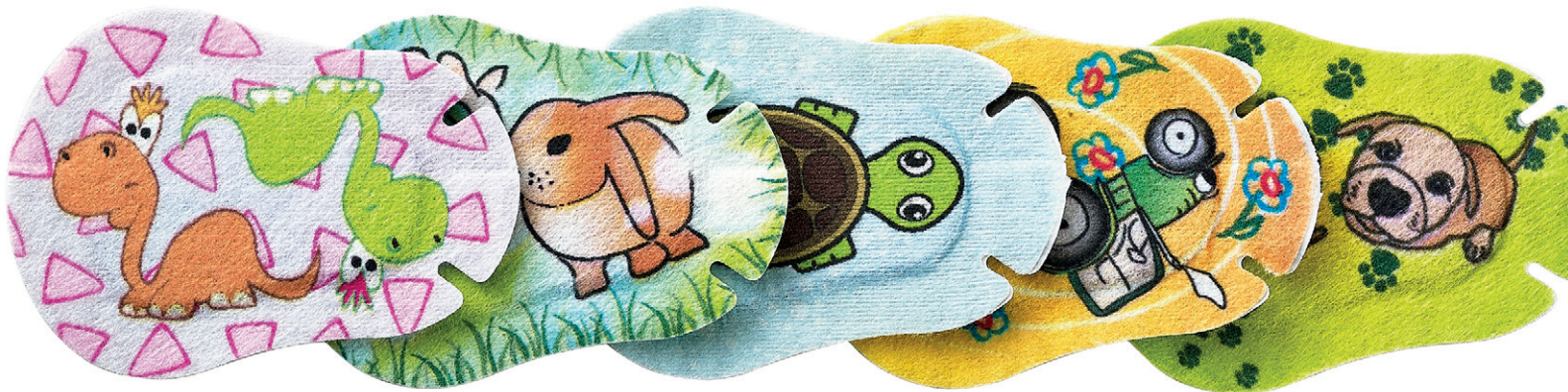
Each pack contains funny patch stickers.

Each pack contains 20 patches.

**JUNIOR WHITE**  
67x50 mm  
**Ref. 08076**  
6 Packs  
**Ref. 08074**  
12 Packs

**MEDIUM WHITE**  
76x54 mm  
**Ref. 08079**  
6 Packs  
**Ref. 08078**  
12 Packs

**REGULAR WHITE**  
85x59 mm  
**Ref. 08077**  
6 Packs  
**Ref. 08075**  
12 Packs



Each pack contains 20 patches.

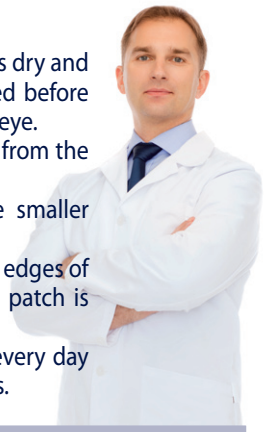
**JUNIOR SYMPATHY**  
67x50 mm  
**Ref. 08071**  
1 Pack

**MEDIUM SYMPATHY**  
76x54 mm  
**Ref. 08072**  
1 Pack



- Made of a perforated monostretch non-woven material for extreme comfort.
- A special black screen in the central pad prevents the passage of light. For this reason, they are suitable to treat strabismus and amblyopia.
- Totally hypo-allergenic, latex free, for sensitive skin around the eye. Well ventilated to avoid sweating.
- Can be used for prolonged treatment.
- Close eye when applying.

- Make sure that the skin around the eye is dry and clean and that the child's face is relaxed before applying the eye patch over the closed eye.
- Open the wrapper and peel off the film from the adhesive side of the patch.
- Apply the patch to the skin with the smaller corner nearest the nose.
- Use fingers to apply pressure to all outer edges of the eye patch to ensure that all of the patch is sticking to the skin.
- We recommend to replace ORTOPAD® every day or according to the doctor's instructions.



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# 3M HYPO-ALLERGENIC EYE PATCHES

6.1

For orthoptic therapies of amblyopia and strabismus - **Latex Free**



Each pack contains 30 patches.

**OPTICLUDE  
BOY&GIRLS MINI**  
50x62 mm

**Ref. 08069**  
1 Pack

**OPTICLUDE  
BOY&GIRLS MAXI**  
57x82 mm

**Ref. 08073**  
1 Pack



- Made of perforated non-woven material and a pad placed on a transpirable and conformable support, covered by a hypoallergenic adhesive.
- Well ventilated to respect the physiological functions of the skin.
- Totally safe for the skin of the periocular area and can be used for prolonged treatments.

- Make sure that the skin around the eye is dry and clean and that the child's face is relaxed before applying the eye patch over the closed eye.
- Open the wrapper and peel off the film from the adhesive side of the patch.
- Apply the patch to the skin with the smaller corner nearest the nose.
- Use fingers to apply pressure to all outer edges of the eye patch to ensure that all of the patch is sticking to the skin.
- We recommend to replace OPTICLUDE® every day or according to the doctor's instructions.



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# 6.1 BANGERTER - OCCLUSION FOILS

## Graded foils - Occlusion foils

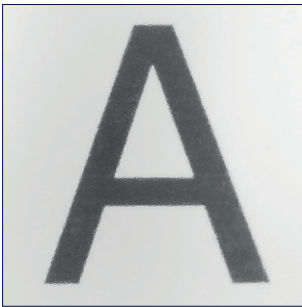
### BANGERTER OCCLUSION FOILS

Are a system of graded thin flexible foils of varying degrees of transparency that equalize the spatial contrast of the dominant eye to that of the amplyopic eye. They cling to the spectacle lens of the healthy eye to improve the function of the weaker eye. There are 10 levels of occlusion - see table below. These are used to treat amblyopia, exclusion and the anomalous retinal correspondence found in amblyopia; problems relating to correlation, monolateral aphakia and temporary diplopia.

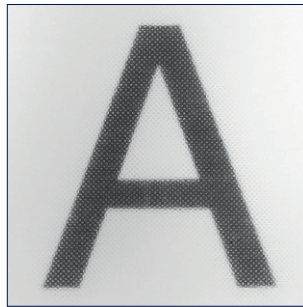


### Examples of vision with different occlusion levels

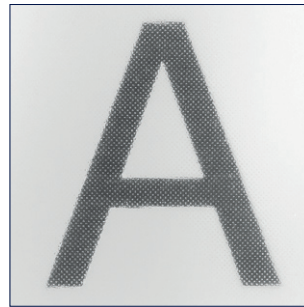
Dimensions: 65x65 mm. - 1 pc. / Ref.



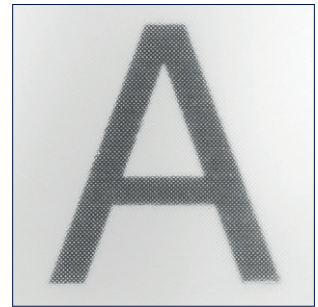
**Ref. 08001** Visus ~1.0 - N 1  
Visual Acuity ~20/20



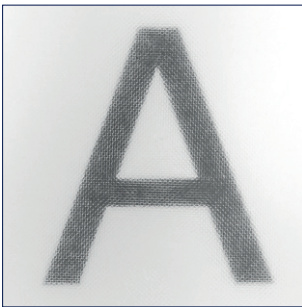
**Ref. 08002** Visus ~0.8 - N 2  
Visual Acuity ~20/265



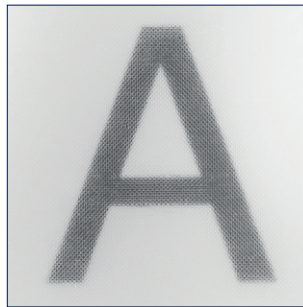
**Ref. 08003** Visus ~0.6 - N 3  
Visual Acuity ~20/30



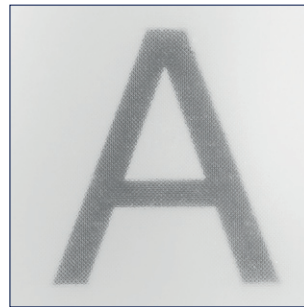
**Ref. 08004** Visus ~0.4 - N 4  
Visual Acuity ~20/50



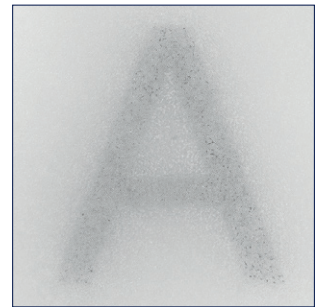
**Ref. 08005** Visus ~0.3 - N 5  
Visual Acuity ~20/70



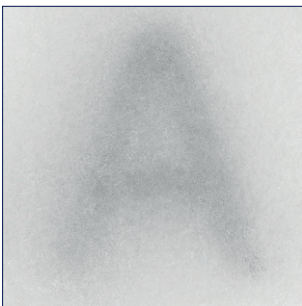
**Ref. 08009** Visus ~0.2 - N -  
Visual Acuity ~20/100



**Ref. 08006** Visus ~0.1 - N 6  
Visual Acuity ~20/200



**Ref. 08007** Visus <math><0.1</math> - N 7  
Visual Acuity ~20/300

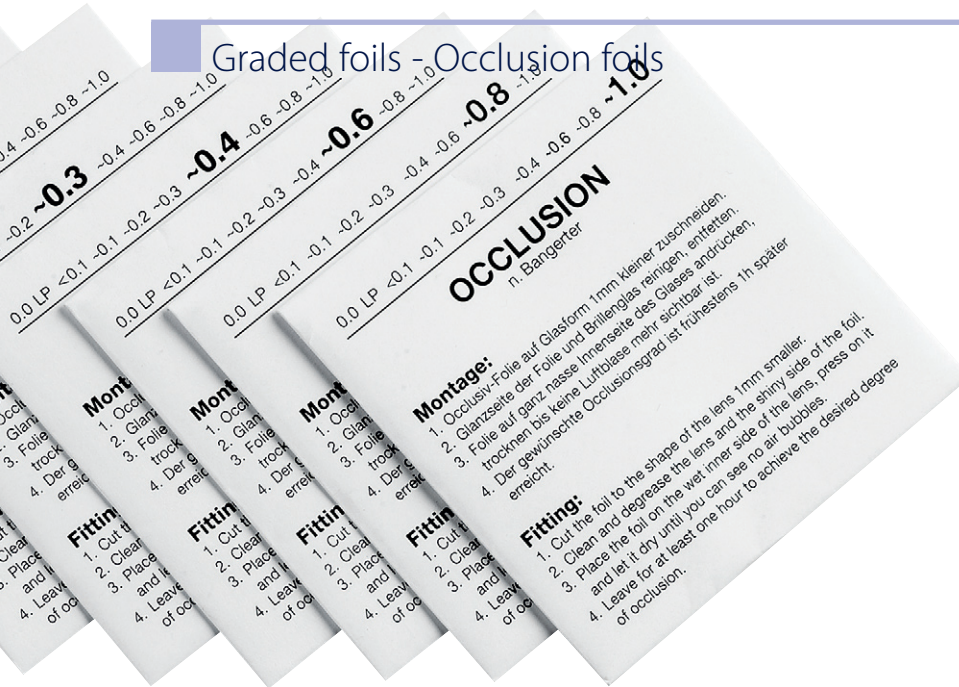


**Ref. 08000** Visus LP - N 0  
Visual Acuity none



**Ref. 08008** Visus 0.0  
Visual Acuity none

## Graded foils - Occlusion foils



Ref.	08008	08000	08007	08006	08009	08005	08004	08003	08002	08001
Vision	0.0	Light perception	<0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0
Corr. No.	8	0	7	6	-	3	4	5	2	1
Approx Visual Acuity	none	none	~20/300	~20/200	~20/100	~20/70	~20/50	~20/30	~20/25	~20/20

### Ref. 08017

Kit of assorted Bangerter occlusion foils with display showing reference and 10 levels of occlusion. QR code for video.

### Ref. 11315

Display only  
Dimensions: 24x24x1 cm



## HOW TO APPLY BANGERTER OCCLUSION FOILS

The shiny side of the foil is applied to the inside of the lens.

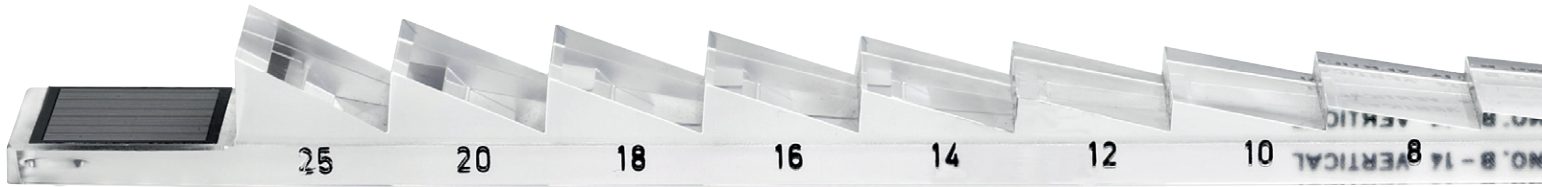
- Cut the foil to a shape slightly smaller than that of the lens
- Clean the lens thoroughly
- Damp the shiny side of the foil with warm water and apply to the inner side of the lens.
- Press with a dry cloth to remove any air bubbles and traces of damp.
- Allow to dry for 1 hour.



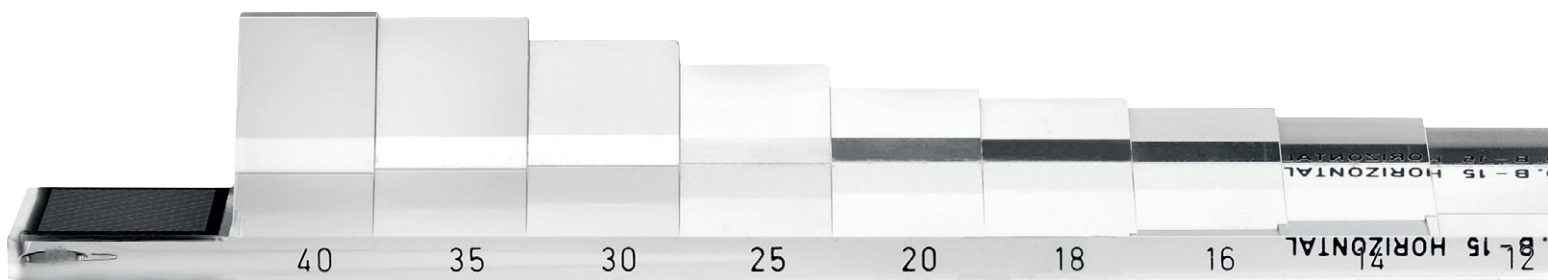
## 6.2 BERENS PRISM BAR

Vertical and horizontal bar

VERTICAL BAR



HORIZONTAL BAR



### BERENS PRISMS BARS

**Ref. 08300**

In a rigid protective case, complete with:

- 1 vertical bar with the following prism diopters:  
1<sup>Δ</sup>, 2<sup>Δ</sup>, 3<sup>Δ</sup>, 4<sup>Δ</sup>, 5<sup>Δ</sup>, 6<sup>Δ</sup>, 8<sup>Δ</sup>, 10<sup>Δ</sup>, 12<sup>Δ</sup>, 14<sup>Δ</sup>, 16<sup>Δ</sup>, 18<sup>Δ</sup>, 20<sup>Δ</sup>, 25<sup>Δ</sup>.
- 1 horizontal bar with the following prism diopters:  
1<sup>Δ</sup>, 2<sup>Δ</sup>, 4<sup>Δ</sup>, 6<sup>Δ</sup>, 8<sup>Δ</sup>, 10<sup>Δ</sup>, 12<sup>Δ</sup>, 14<sup>Δ</sup>, 16<sup>Δ</sup>, 18<sup>Δ</sup>, 20<sup>Δ</sup>, 25<sup>Δ</sup>, 30<sup>Δ</sup>, 35<sup>Δ</sup>, 40<sup>Δ</sup>.



For orthoptic examinations

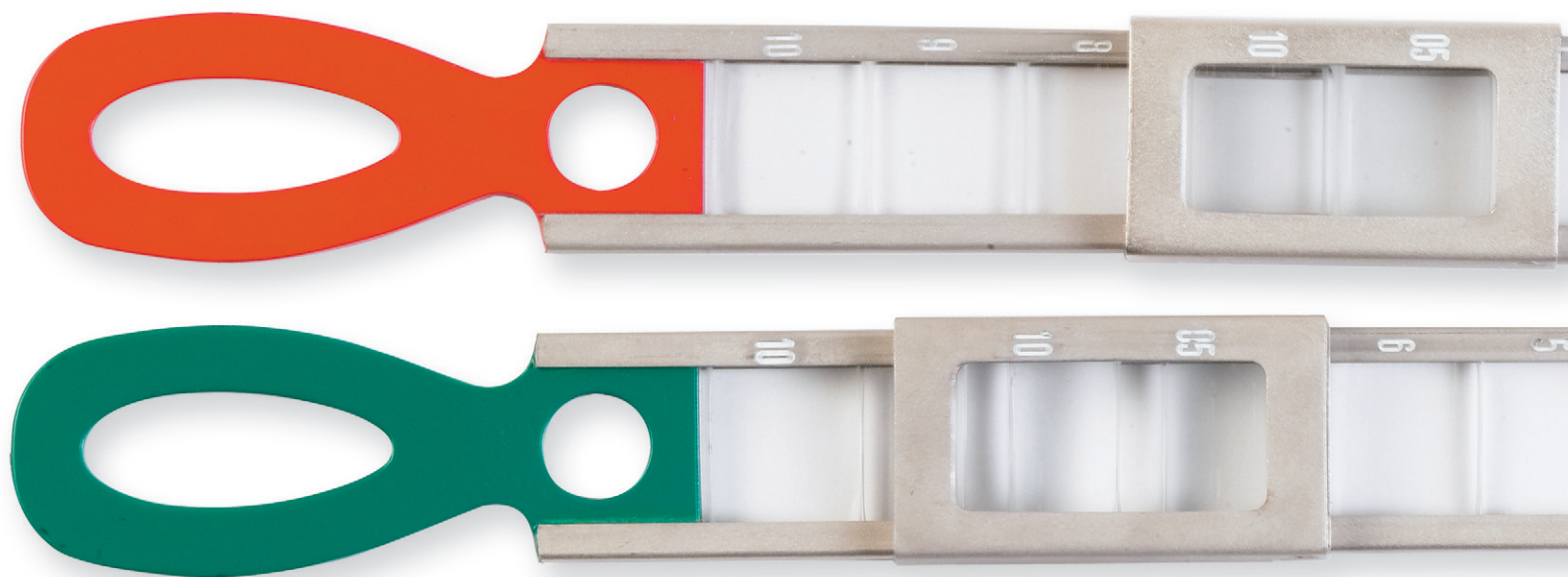


## DOUBLE SPHERE TARGET (Wolff method)

**Ref. 08350**

For a quick evaluation of pursuits and saccades, cover test and dynamic retinoscopy.

Sphere:  $\varnothing$  6 & 13 mm - stick: 36 cm - 2 pcs.



## RETINOSCOPY RACKS

**Ref. 08304**

In a rigid protective case, complete with:

- 1 red rack from -1.0D to -10.0D with additional sliding lens -0.5D and -10.0D
- 1 green rack from +1.0D to +10.0D with additional sliding lens +0.5D and +10.0D



## 6.2 COVER TEST OCCLUDERS

### Red Maddox Rod



**Ref. 08316**

Red Maddox Rod with grooves at 45° from the centre of the lens.  
Used in combination with prisms to measure horizontal and vertical phorias from near and from far.  
Length: 22 cm  
Lens diameter: 5 cm

### Hand held occluders



Frosted occluder



Red occluder



Multi pinhole occluder



Black occluder

**Ref. 08310**

Set of 4 occluders in a protective case.  
• 1 red occluder  
• 1 frosted occluder  
• 1 black paddle occluder  
• 1 multi pinhole occluder (holes Ø 1.4 mm).

Dimensions: Ø 60 x 240 mm



## Marsden Training Ball

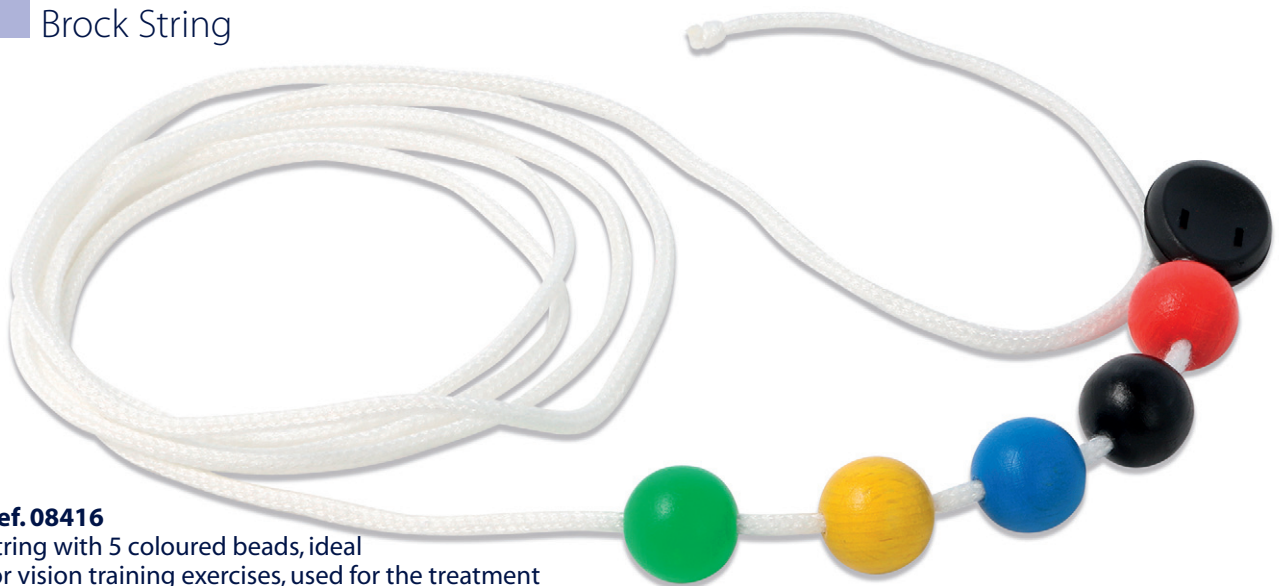


**Ref. 08415**

Ball with random letters and numbers, ideal for vision training, used to improve visual perception and ocular motor skills. With string to hang the ball from the ceiling.

Dimensions:  
Ball Ø 76 mm  
String 3 m  
1 pc.

## Brock String



**Ref. 08416**

String with 5 coloured beads, ideal for vision training exercises, used for the treatment of convergence insufficiency and other anomalies of binocular vision.

Dimensions: Beads Ø 15 mm - String 4 m  
6 pcs.

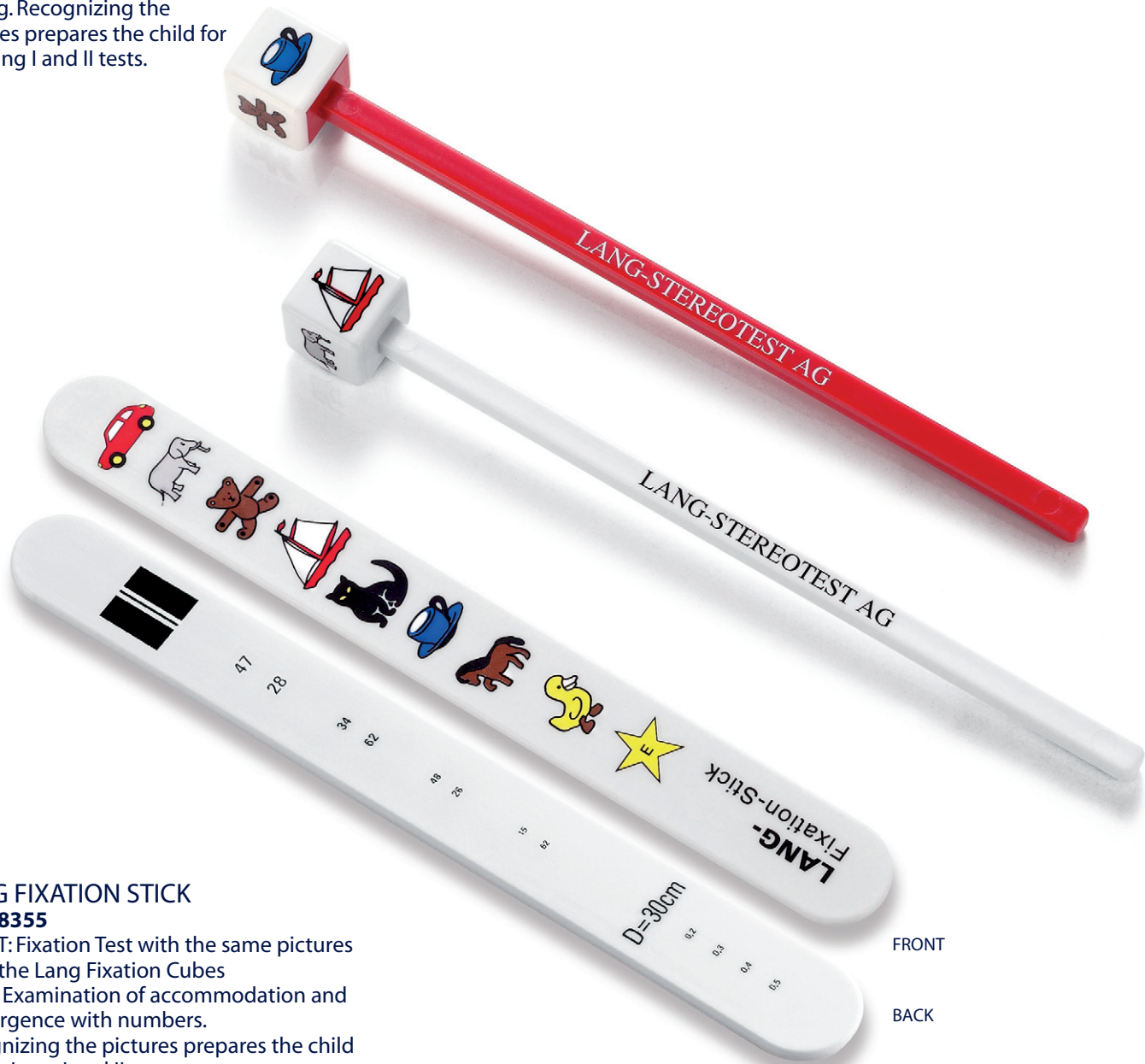
## 6.2 TEST ROOM ACCESSORIES

### Lang Fixation Cubes – Lang Fixation Stick

#### LANG FIXATION CUBES

**Ref. 08352**

2 cubes, one red and one white, with pictures that attract and hold children's attention during testing. Recognizing the pictures prepares the child for the Lang I and II tests.



#### LANG FIXATION STICK

**Ref. 08355**

FRONT: Fixation Test with the same pictures as on the Lang Fixation Cubes

BACK: Examination of accommodation and convergence with numbers.

Recognizing the pictures prepares the child for the Lang I and II tests.

Visus: Distance of 30 cm 0.2-0.5.

For children - No polarizing glasses necessary

The Lang Stereotest is an easy-to-use screening-test designed for early detection of problems with stereoscopic vision in children. The 3D test objects appear each on a different level.

Seen with only one eye (monocular vision), these stereograms do not show any shapes, while, upon binocular inspection, the figures, typically in different depths, can be seen.

Using distance: 30-40 cm



## LANG STEREO TEST I

**Ref. 08395**

The Lang Stereotest I shows a car (550"), a star (600") and a cat (1200").



## LANG STEREO TEST II

**Ref. 08396**

The Lang Stereotest II shows a moon (200"), a truck (400") and an elephant (600").

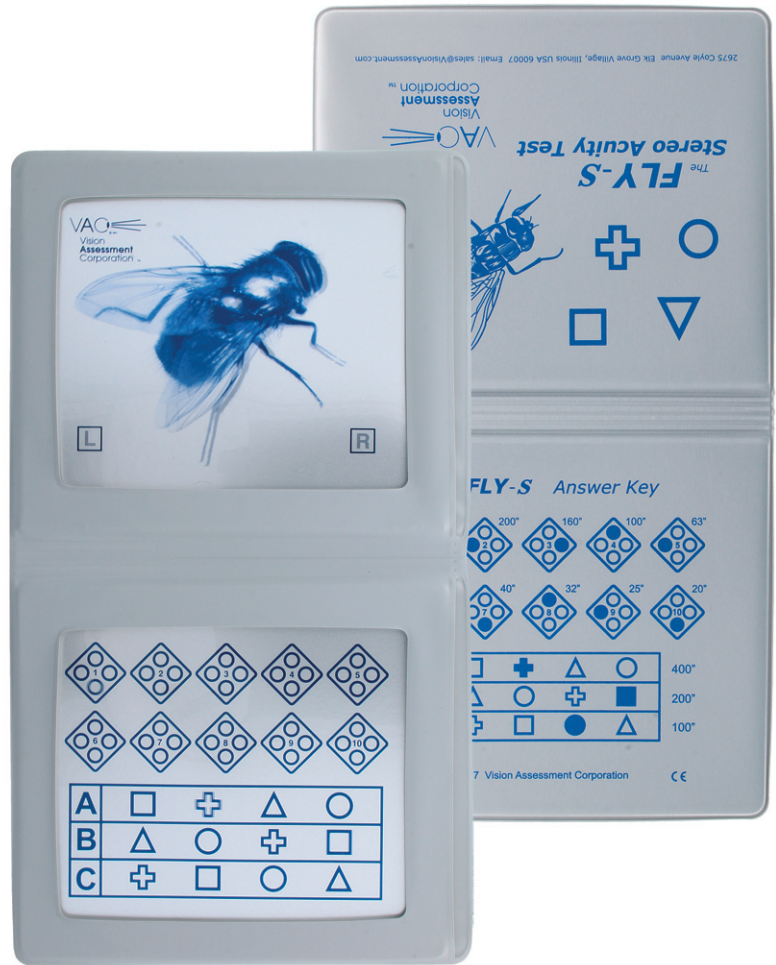
In addition, the Lang Stereotest II contains a star that can also be seen with one eye only (monocular vision).

# 6.3 FLY STEREOPSIS TEST - BUTTERFLY STEREOPSIS TEST

With Symbols

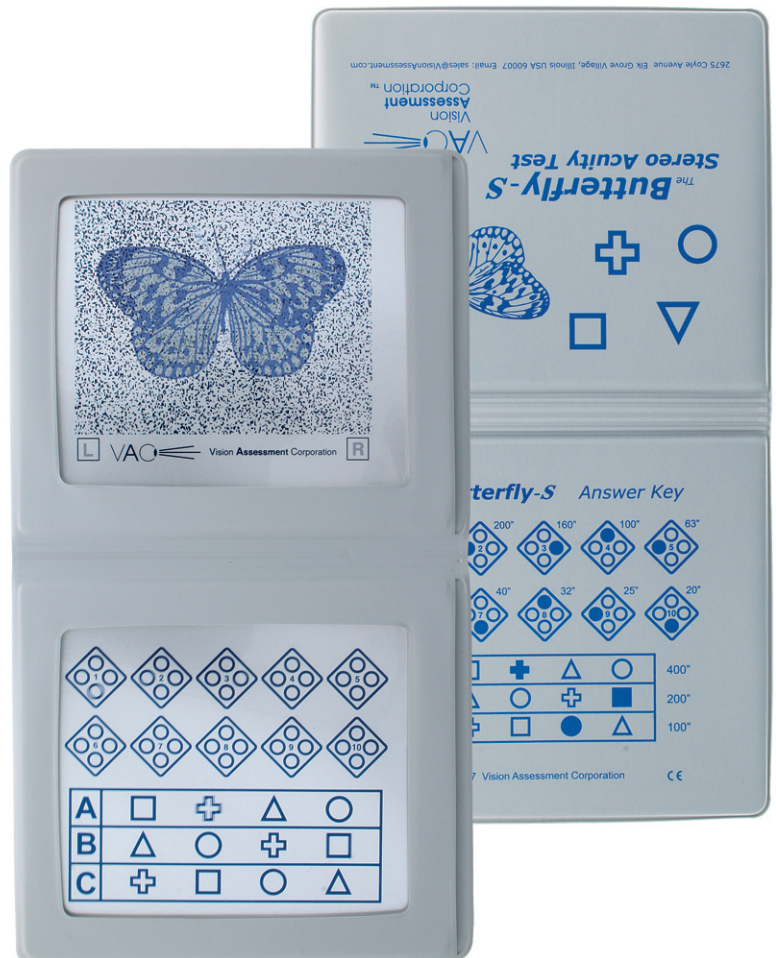
## FLY STEREOPSIS TEST Ref. 08412

- Rapid test for amblyopia and strabismus
- Traditional Fly picture testing Gross Stereopsis
- 10 levels of 4 circle disparity for critical testing
- Graded circle test from 400 seconds down to 20 seconds (with no monocular clues)
- Fine stereopsis (400 to 100 seconds of arc) measuring 3 Gross levels of disparity using the internationally recognised Symbols - Square, Circle, Plus and Triangle
- Ideal for both children and adults including non-reading and non-verbal
- New easy-to-hold booklet
- Answer key on back cover
- Instructions included.



## BUTTERFLY STEREOPSIS TEST Ref. 08413

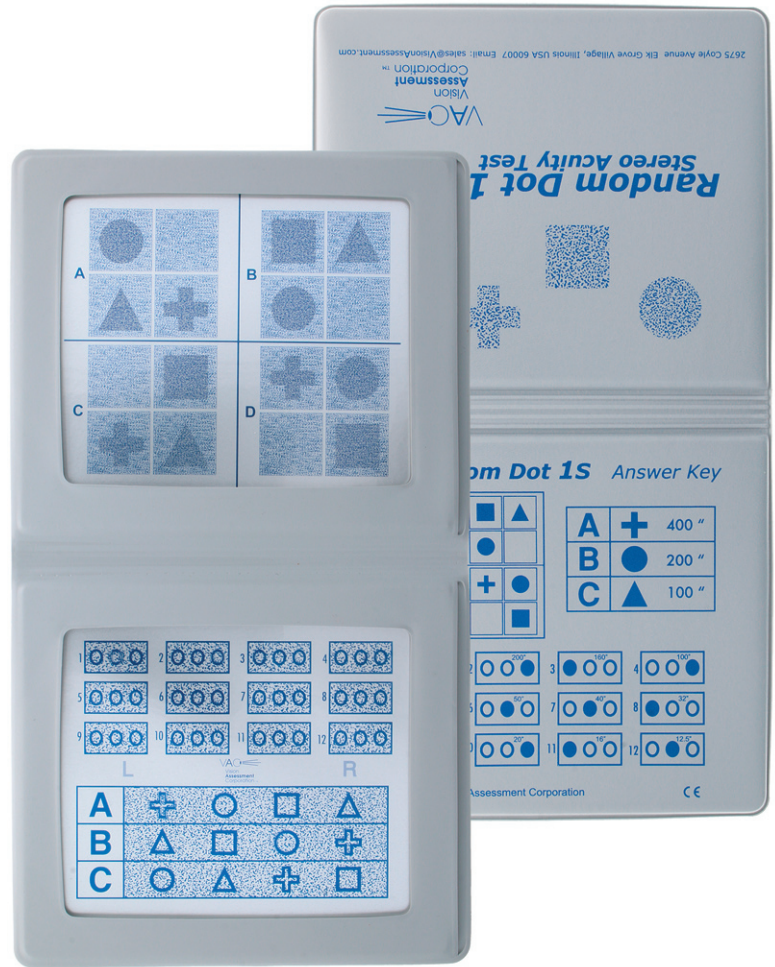
- Rapid test for amblyopia and strabismus
- Traditional Butterfly picture testing Gross Stereopsis
- 10 levels of 4 circle disparity for critical testing
- Graded circle test from 400 seconds down to 20 seconds (with no monocular clues)
- Fine stereopsis (400 to 100 seconds of arc) measuring 3 Gross levels of disparity using the internationally recognised Symbols - Square, Circle, Plus and Triangle
- Ideal for both children and adults including non-reading and non-verbal
- New easy-to-hold booklet
- Answer key on back cover
- Instructions included.



## Random Dot

### RANDOM DOT STEREOPSIS TEST Ref. 08414

- Rapid test for amblyopia and strabismus
- Ideal for children and adults who are non-readers and non-verbal
- Expanded Random Dot Symbols Test - Square, Circle, Plus and Triangle (400, 200, 100 seconds of arc).
- Graded circle test to 12.5 seconds of arc with no monocular clues
- New improved booklet
- Answer key on back cover
- Instructions included.

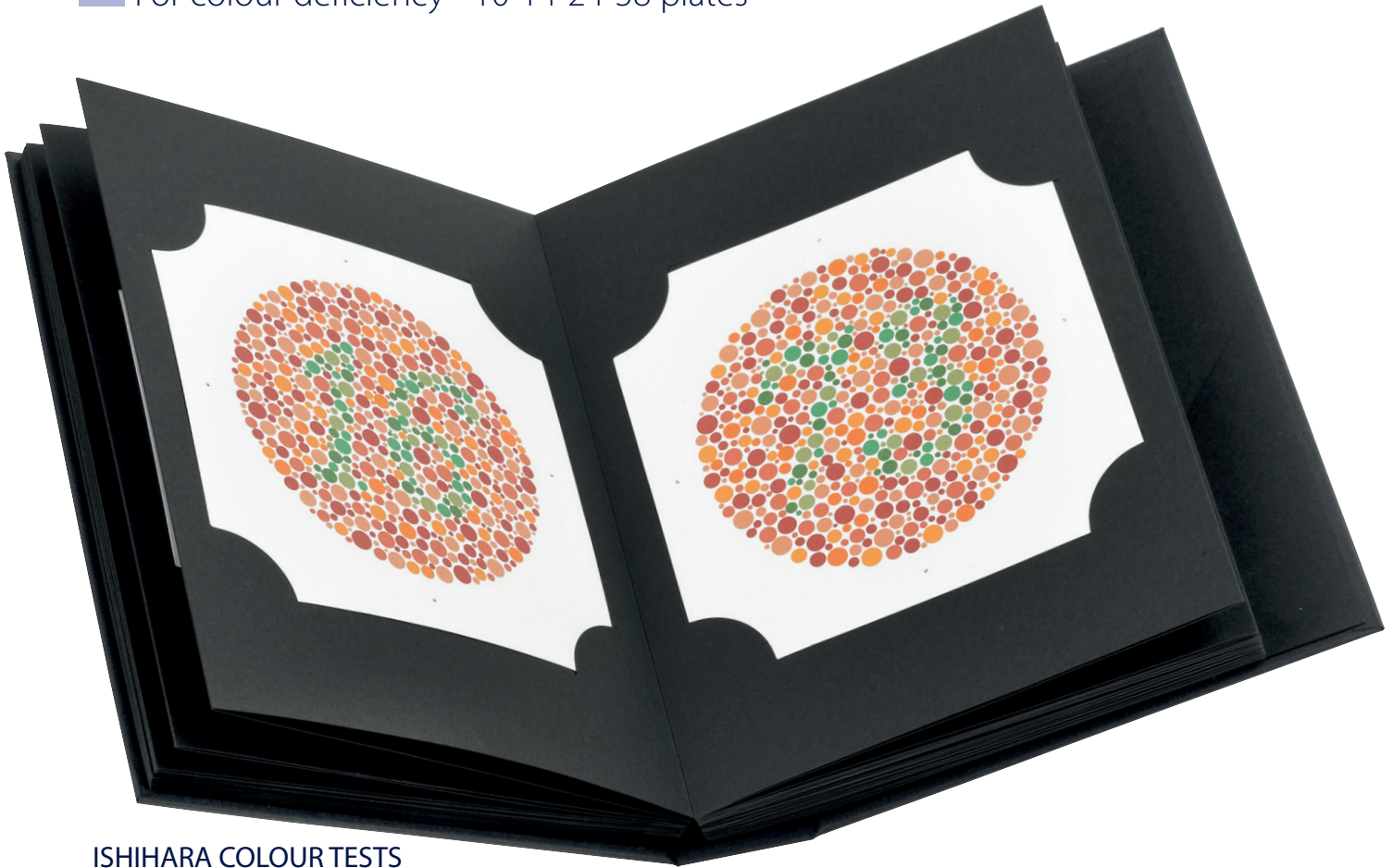


**Includes 1 adult and 1 child's polarized goggles**



## 6.3 ISHIHARA COLOUR TESTS

For colour deficiency - 10-14-24-38 plates



### ISHIHARA COLOUR TESTS

38 PLATES

**Ref. 08400**

Used principally by ophthalmologist.

24 PLATES

**Ref. 08401**

Used principally for occupational screening.

14 PLATES

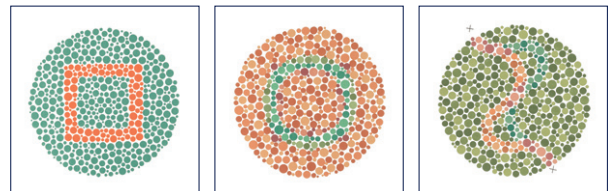
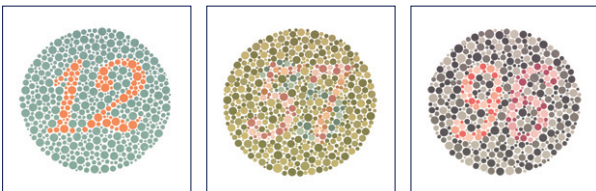
**Ref. 08399**

Used mainly for driving licence renewals.

10 PLATES

**Ref. 08402**

Used principally for children and illiterates.



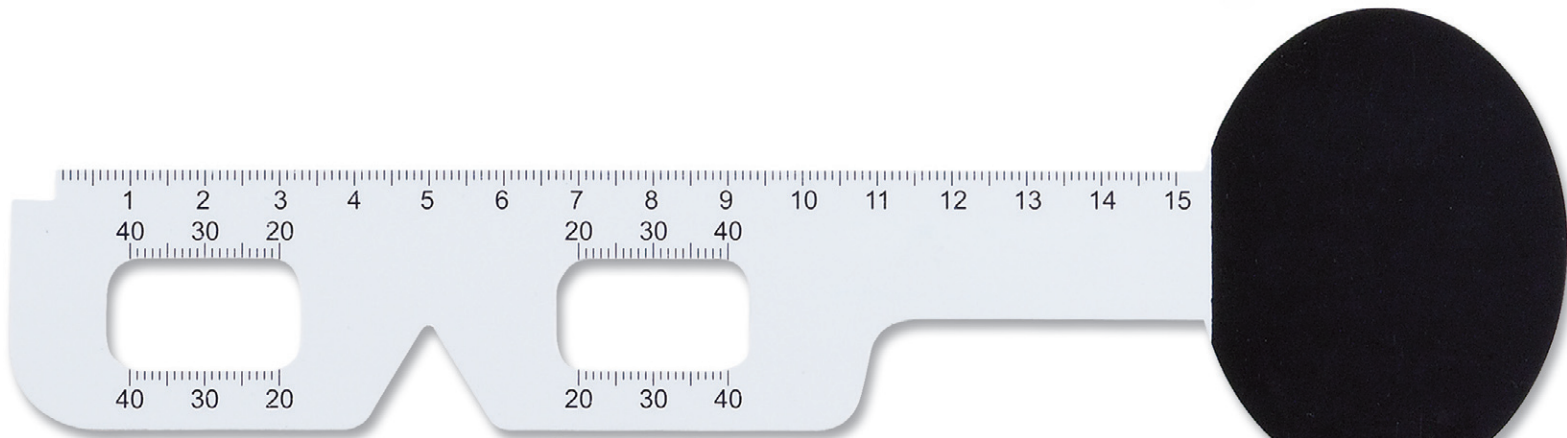
The Ishihara colour tests are:

- Internationally recognised
- Pseudoisochromatic plates
- Simple to use
- Speedy to use
- Efficient in detecting red/green colour vision deficiency
- Includes instruction booklet

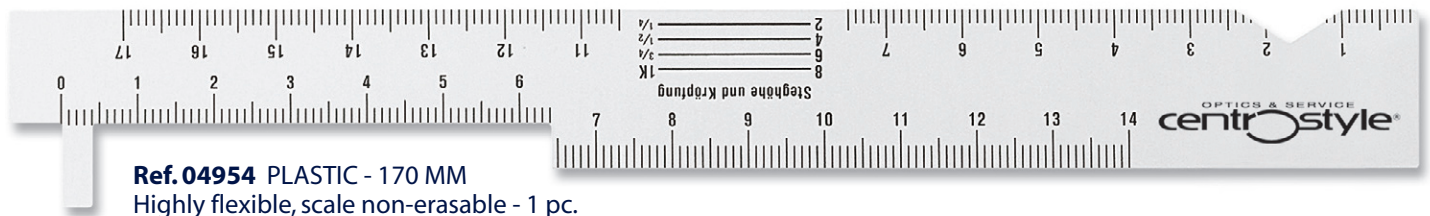
To prevent colour fading and to keep hues sharp never expose plates to bright sunlight or leave pages open for any length of time. Test should be conducted with light levels at 500-600 lux.



## PD Scales



**Ref. 04959** PLASTIC PD SCALE WITH EYE OCCLUDER  
Measuring range: 150 mm - 1 pc.



**Ref. 04954** PLASTIC - 170 MM  
Highly flexible, scale non-erasable - 1 pc.

## White Light Pen

**Ref. 08317**  
135 mm - 1 pc.  
2 batteries  
AAA 1,5V included.

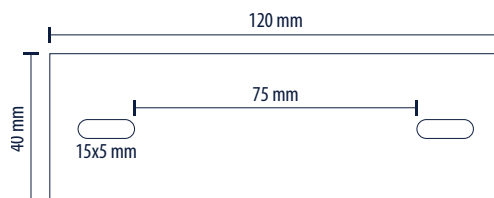


## Chin Rest Tissues



**Ref. 06980**  
Disposable paper tissues  
for chin rests and other  
optical equipment.

Box of 500 pcs.



## 6.3 DIGITAL PD METER

With PD adjustment slides



- 1 - PD/LD switch
- 2 - PD adjustment slide (left)
- 3 - Focusing distance selection lever
- 4 - Practitioner's viewpiece
- 5 - Viewpiece +2.00D add-power switch
- 6 - PD adjustment slide (right)
- 7 - ON/OFF switch
- 8 - Right eye measurement display
- 9 - PD distance
- 10 - Left eye measurement display
- 11 - Eye shield lever (mono/binocular switch).
- 12 - Forehead distance bar.

### DIGITAL PD METER

**Ref. 04966**

With PD adjustment slides.

Additional lens +2.00D switchable on the PD measurement ocular.

Internal light with high brilliancy LED

Measurement range: 45-82 mm (0,5 mm increments)

Measurement: monocular and binocular

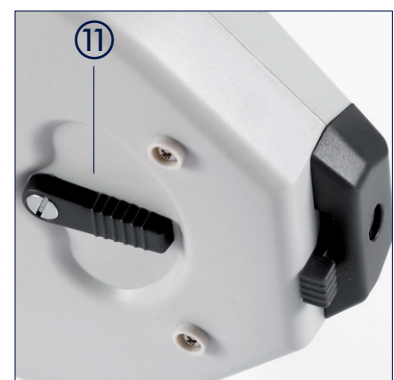
Viewing distance: from 30 cm to infinity

Power off: automatically after 1 minute without use

Power supply: 2 batteries (1.5V AA) included

Dimensions: 221x166x63 mm

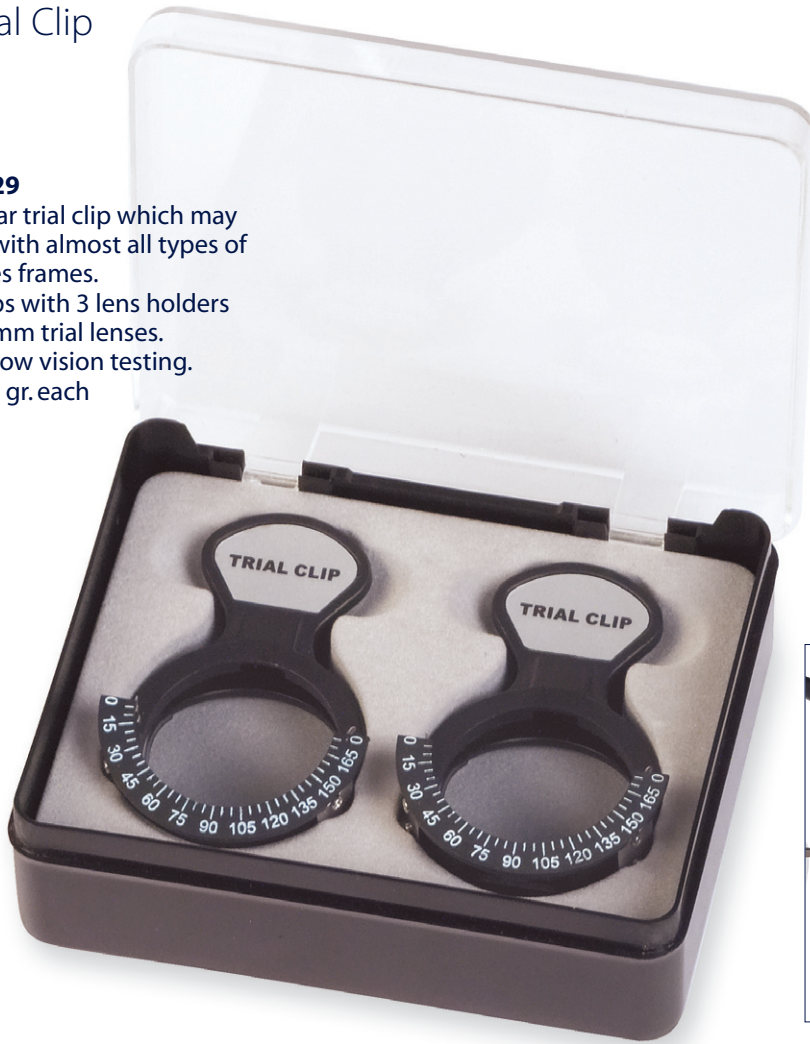
Weight: 0,66 kg (with batteries)



## Trial Clip

**Ref. 08229**

Monocular trial clip which may be used with almost all types of spectacles frames.  
 2 trial clips with 3 lens holders for Ø 38 mm trial lenses.  
 Ideal for low vision testing.  
 Weight: 9 gr. each

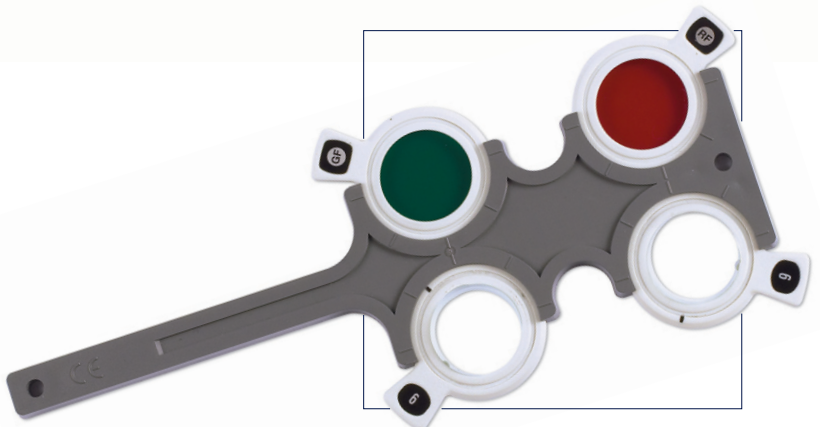
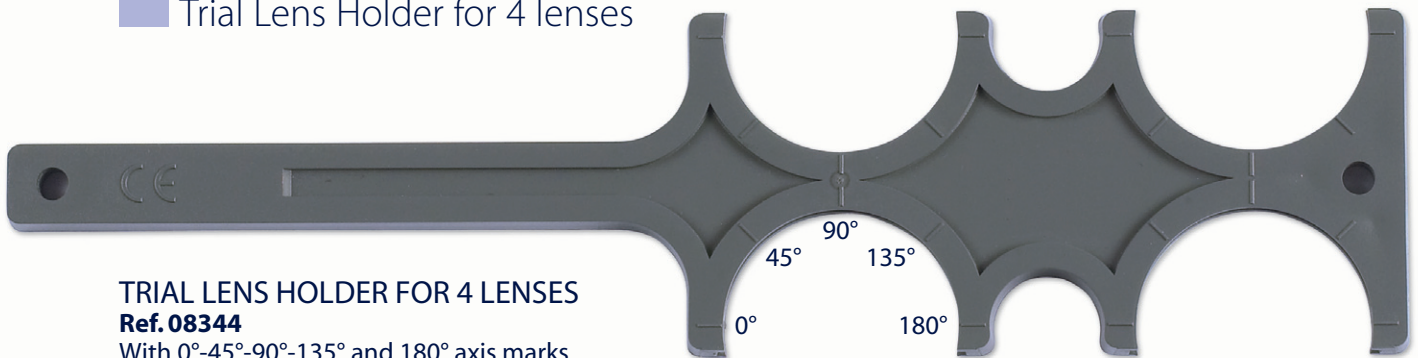


## Trial Lens Holder for 4 lenses

**TRIAL LENS HOLDER FOR 4 LENSES**

**Ref. 08344**

With 0°-45°-90°-135° and 180° axis marks  
 For Ø 38 mm trial lenses.



# 6.4 CHILDREN'S TRIAL FRAME

0-3 years - For optometrical refractions - Tabo System

□ 34    ) 15    — 110

- PD: 50 mm
- Weight: 16 gr.

Adjustable Silicone Tube



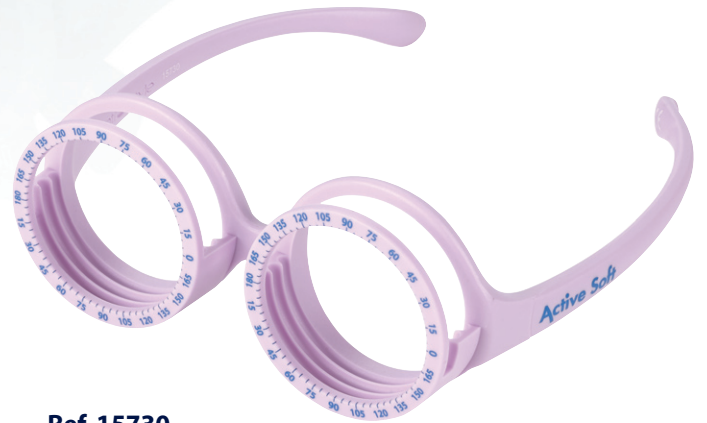
Wrap-around temples

Three lens holders suitable for standard  $\varnothing$  38 mm trial set lenses.

Frame without any metal parts



Ref. 15731  
Light Blue



Ref. 15730  
Pink

• **COMFORTABLE AND LIGHTWEIGHT**

The design of the frame and its hypoallergenic material have been manufactured to offer the best possible visual comfort during eye examination.

The wrap-around temples give a good fit to the child's face.

• **OPTICAL QUALITY**

The bridge is centred and splayed, thereby helping to maintain the optical centres.

The frame has three external lens holders suitable for all  $\varnothing$  38 mm trial set lenses.

Determination of the astigmatism axis is according to the **TABO system**.



Ultra-light - For optometrical refractions - Tabo System



## CHILDREN'S TRIAL FRAME KIT

**Ref. 08215**

Display box with 4 children's trial frames.

PD range 50-52-54-56 mm

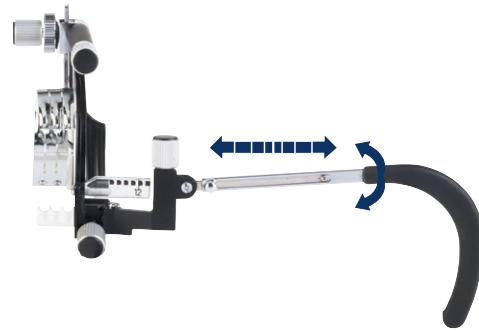
- Lightweight, non-allergic structure, suitable for all standard Ø 38 mm trial lenses.
- Standard axis rotation.
- Comfort bridge.
- Flex temples, length adjustable from 90 to 130 mm.
- 4 lens holders each eye: 3 external rotating and 1 fixed internal.
- Manual lens axis rotation, scale in 5° increments.

Weight: 30 gr.

## 6.4 TRIAL FRAME

Universal - European Style - Tabo System

- 1- PD adjustment, right eye
- 2 - Bridge height adjustment
- 3 - PD adjustment, left eye
- 4 - Left temple inclination adjustment
- 5 - Left lens axis adjustment
- 6 - Vertical height adjustment
- 7 - Right lens axis adjustment
- 8 - Right temple inclination adjustment
- 9 - Back Vertex distance gauge (both sides)
- 10 - Temple length slide adjustment



### LIGHTWEIGHT TRIAL FRAME

**Ref. 08225**

Lightweight, non-allergic structure, suitable for all standard Ø 38 mm trial lenses.

Standard axis rotation.

Back vertex distance measurement gauge.

Independent monocular adjustments for optical centres.

Vertical and projection bridge adjustments.

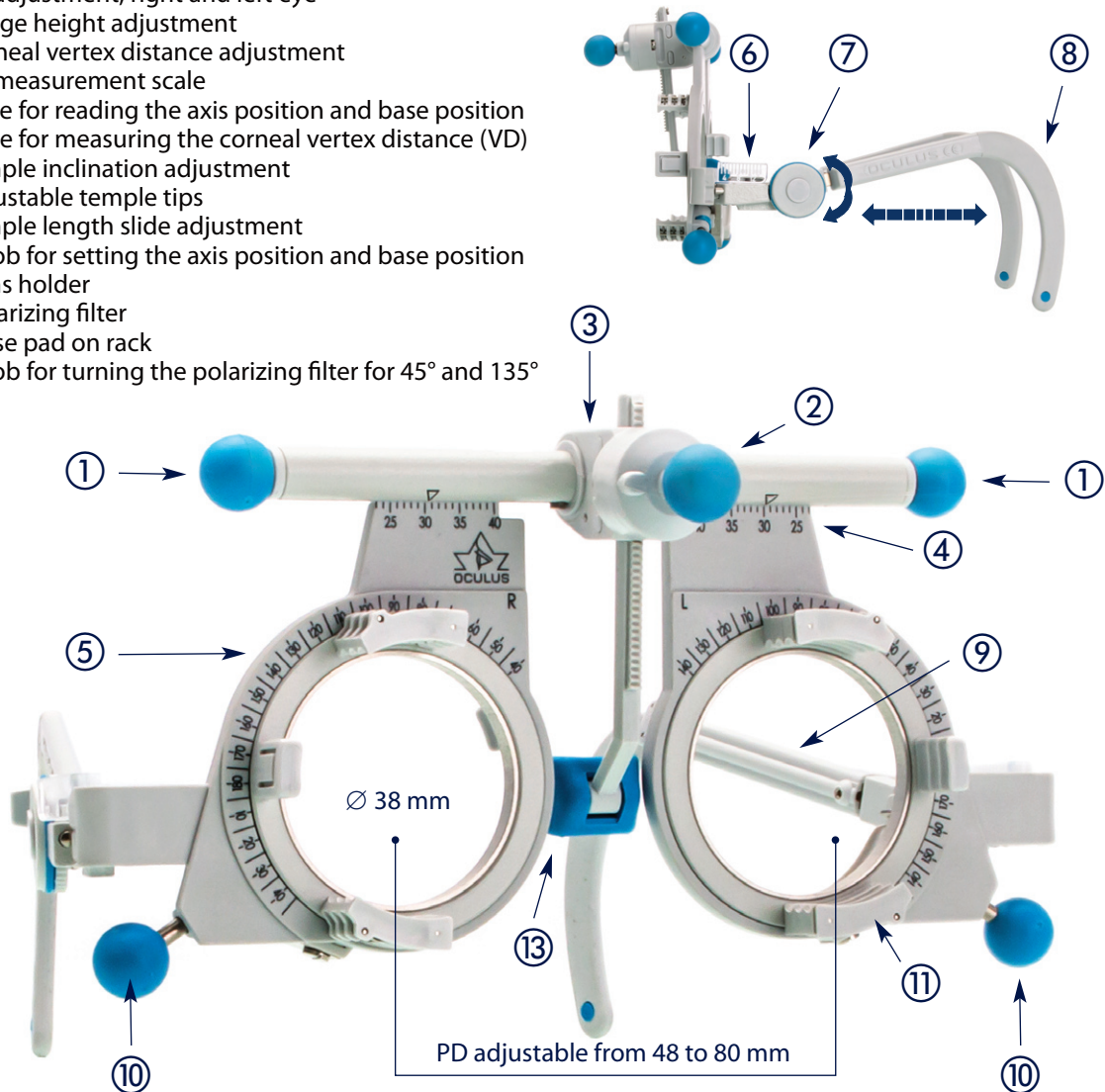
Temple length and inclination adjustable.

Weight: 58 gr.

- PD adjustable range 48 to 80 mm.
- Right and left PD adjustable independently from 25 to 40 mm.
- Bridge height adjustable by up to 15 mm.
- Temples adjustable in length from 98 to 135 mm.
- Temple inclination adjustable from +6° to -15°.
- 5 lens holders each eye: 3 external rotating by 360° and 2 fixed internal.
- Axis rotation is continuously adjustable, in increments of 5°.

For optometrical refractions - Tabo System

- 1 - PD adjustment, right and left eye
- 2 - Bridge height adjustment
- 3 - Corneal vertex distance adjustment
- 4 - PD measurement scale
- 5 - Scale for reading the axis position and base position
- 6 - Scale for measuring the corneal vertex distance (VD)
- 7 - Temple inclination adjustment
- 8 - Adjustable temple tips
- 9 - Temple length slide adjustment
- 10 - Knob for setting the axis position and base position
- 11 - Lens holder
- 12 - Polarizing filter
- 13 - Nose pad on rack
- 14 - Knob for turning the polarizing filter for 45° and 135°



## NEW

### Ref. 08234

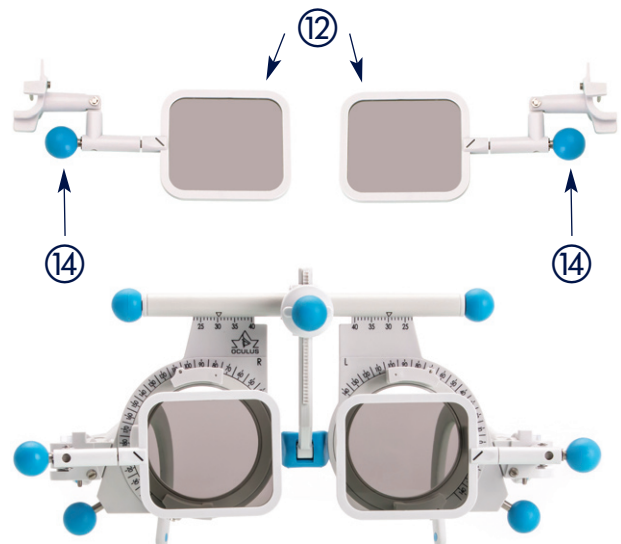
Lightweight, non-allergic structure, suitable for all standard  $\varnothing$  38 mm trial lenses.

- Standard axis rotation
- Back vertex distance measurement gauge
- Independent monocular adjustments for optical centres
- Vertical and projection bridge adjustments
- Temple length and inclination adjustable
- PD adjustable range 48 to 80 mm
- Right and left PD adjustable independently from 24 to 40 mm
- Bridge height adjustable by up to 15 mm
- Temple adjustable in length from 98 to 135 mm and in inclination from +6° to -15°
- 5 lens holders each eye: 3 external rotating by 360° and 2 fixed internal
- Axis rotation is continuously adjustable, in increments of 5°.

Weight: 63 gr. (without polarizing filters)

### Ref. 08235 Linear polarizing filter (1 pair)

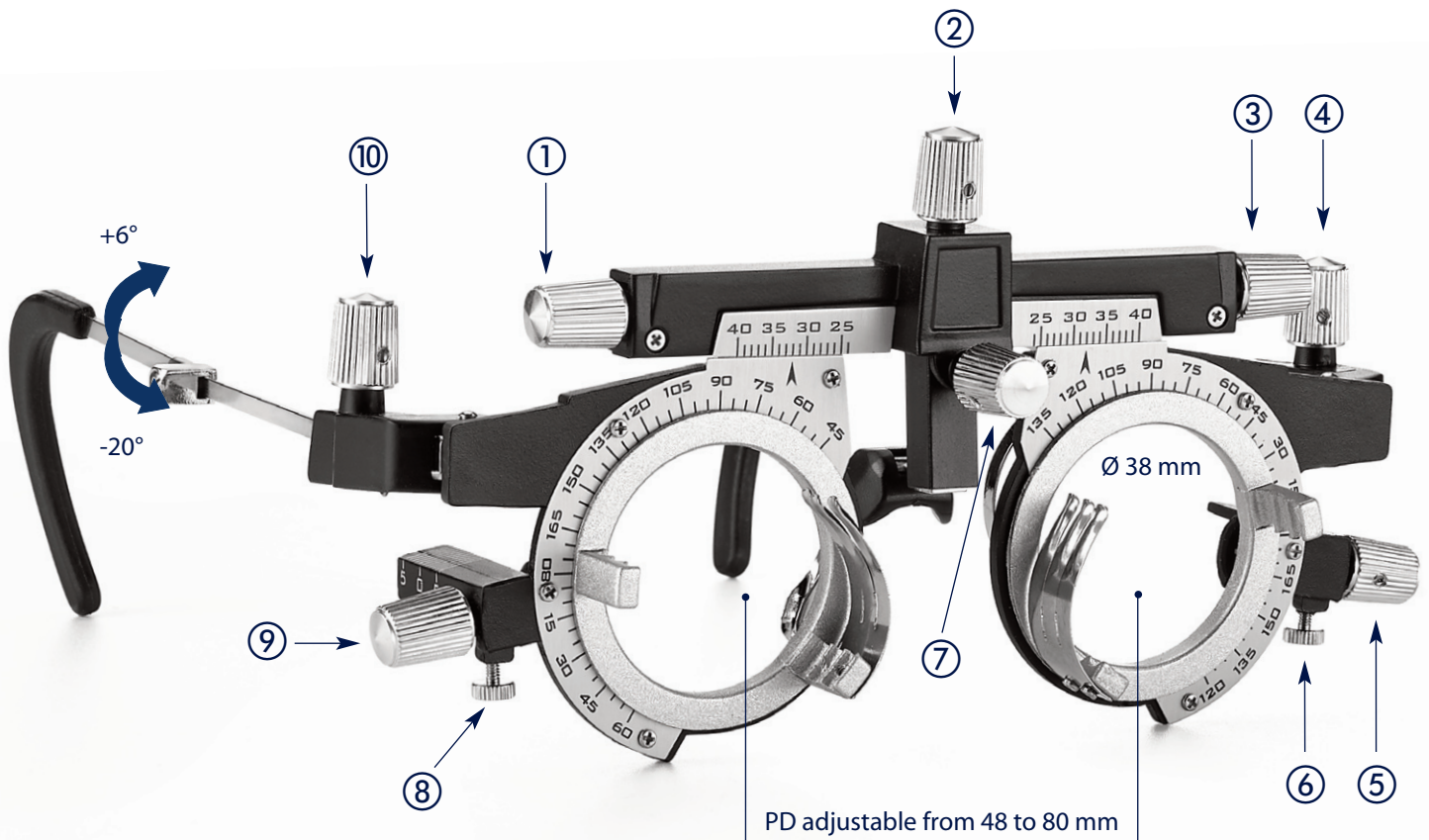
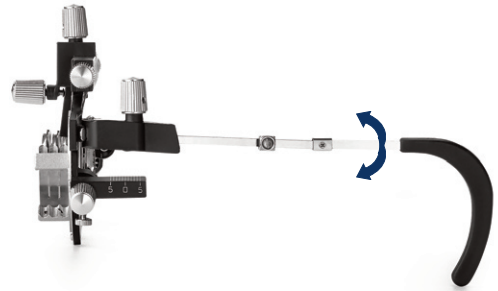
### Ref. 08236 Circular polarizing filter (1 pair)



## 6.4 TRIAL FRAME

### Universal - American Style - Tabo System

- 1 - PD adjustment, right eye
- 2 - Bridge height adjustment
- 3 - PD adjustment, left eye
- 4 - Left temple inclination adjustment
- 5 - Left lens axis adjustment
- 6 - Locking screw - left axis adjustment
- 7 - Bridge projection adjustment
- 8 - Locking screw - right axis adjustment
- 9 - Right lens axis rotation
- 10 - Right temple inclination adjustment
- 11 - Back Vertex distance gauge (both sides)



#### TRIAL FRAME

##### Ref. 08224

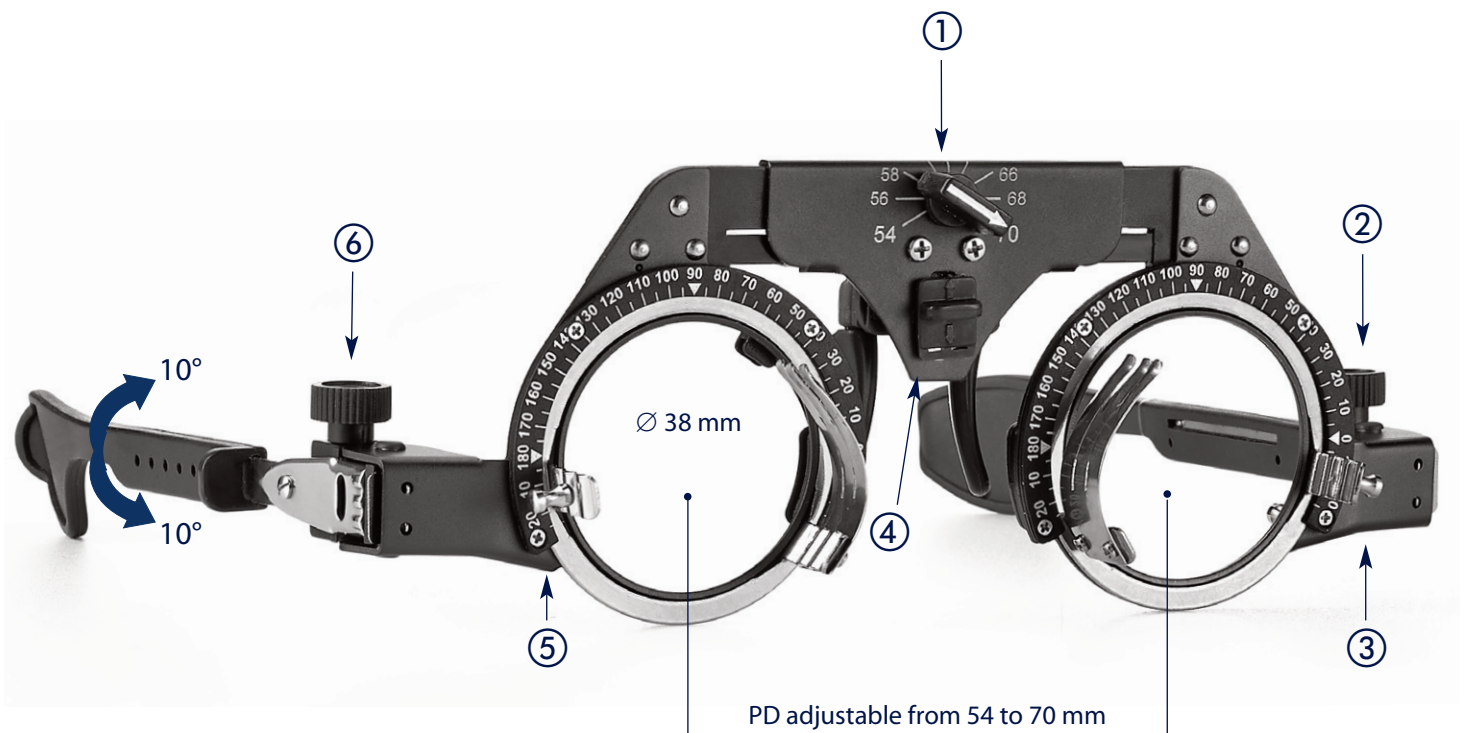
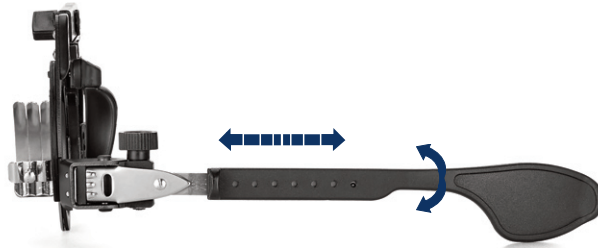
Lightweight, non-allergic structure, suitable for all standard Ø 38 mm trial lenses. Standard axis rotation. Independent monocular adjustments for optical centres. Vertical and projection bridge adjustments for corrected vertex distances. Temple length and inclination adjustable.

Weight: 72 gr.

- PD adjustable from 48 to 80 mm
- Right and left PD adjustable independently from 24 to 40 mm.
- Bridge height adjustable by up to 13 mm.
- Bridge projection distance adjustable by up to 16 mm.
- Temples adjustable in length from 98 to 135 mm
- Temple inclination adjustment from +6° to -20°.
- 4 lens holders: 3 external and 1 internal.
- External axis rotation is continuously adjustable, scale at 5° increments.

Universal - Ultra-light titanium alloy - Tabo System

- 1 - Pupillary distance adjustment
- 2 - Left temple pantoscopic adjustment
- 3 - Left lens axis adjustment
- 4 - Bridge height adjustment
- 5 - Right lens axis adjustment
- 6 - Right temple pantoscopic adjustment



## ULTRA-LIGHT TRIAL FRAME

**Ref. 08220**

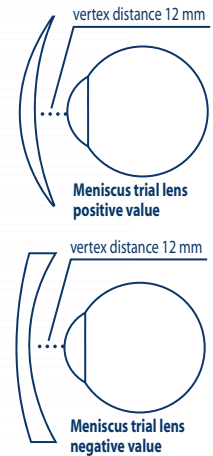
Non-allergic, light weight and strong, for optometrical refractions. Suitable for all standard  $\varnothing 38$  mm trial lenses. Standard axis rotation.

Weight: 49 gr.

- PD adjustment from 54 to 70 mm with selector in 2 mm increments.
- Adjustable pads.
- Bridge height adjustable (+4 mm).
- 4 lens holders each eye: 3 external rotating and 1 fixed internal.
- Temple length adjustable from 95 to 135 mm.
- Temple pantoscopic  $\pm 10^\circ$  from the horizontal by means of a screw.
- Manual lens axis rotation, scale in  $5^\circ$  increments.

## 6.4 MENISCUS TRIAL LENS SET

236 meniscus  $\varnothing$  38 mm trial lenses in carrying case



### MENISCUS TRIAL LENS CASE

**Ref. 08251**

236 meniscus lenses in carrying case.

Lenses in optical glass with refraction index of 1.523.

- 35 pairs of positive sphere lenses from +0.12D to +20.00D
- 35 pairs of negative sphere lenses from -0.12D to -20.00D
- 19 pairs of positive cylinder lenses from +0.12D to +6.00D
- 19 pairs of negative cylinder lenses from -0.12D to -6.00D
- 10 prisms from 1 $\Delta$  to 10 $\Delta$
- 10 supplementary lenses:  
Maddox Rod white (2 pieces) - Grid - Pinhole - Occluder -  
Stenopeic slot - Red filter - Green filter - Clear glass -  
Opaque glass.

All the inside lens curves are the same to guarantee a consistent vertex distance.

The rims are made from polycarbonate and are coloured red for minus powers and black for plus powers and grey for prisms and supplementary lenses.

Case dimensions: 530 x 400 x 100 mm

Weight: 3.9 kg

Red: Minus power lenses

Black: Plus power lenses

Grey: Prism and supplementary lenses

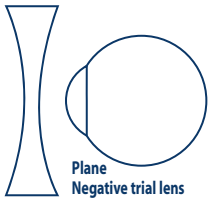
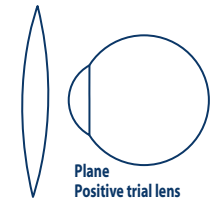
External lens diameter:  $\varnothing$  38 mm



# REGULAR TRIAL LENS SET

6.4

Trial lenses  $\varnothing$  38 mm in carrying case



## 232 TRIAL LENSES

### Ref. 08260

232 plain lenses in carrying case with removable wooden tray. Lenses in optical glass with refraction index of 1.523.

Thin lenses with traditional flat bi-concave and bi-convex curves.

- 34 pairs of positive sphere lenses from +0.12D to +20.00D
- 34 pairs of negative sphere lenses from -0.12D to -20.00D
- 19 pairs of positive cylinder lenses from +0.12D to +6.00D
- 19 pairs of negative cylinder lenses from -0.12D to -6.00D
- 10 prisms from 1 $\Delta$  to 10 $\Delta$
- 10 supplementary lenses:  
Maddox Rod white - Pinhole (2 pcs.) - Occluder (2 pcs.) -  
Stenopeic slot - Red filter - Green filter - Clear glass -  
Opaque glass.

The rims are made from ABS plastic and are coloured red for minus powers and black for plus powers and grey for prisms and supplementary lenses.

Dimensions case: 555 x 370 x 95 mm

Wooden tray: 520 x 340 x 35 mm

Weight: 4.6 kg

## 290 A/R COATED TRIAL LENSES

### Ref. 08258

290 plain anti-reflection coated trial lenses in carrying case with removable wooden tray.

Lenses in optical glass with refraction index of 1.523.

Thin lenses with traditional flat bi-concave and bi-convex curves.

- 45 pairs of positive sphere lenses from +0.12D to +20.00D
- 45 pairs of negative sphere lenses from -0.12D to -20.00D
- 21 pairs of negative cylinder lenses from -0.12D to -6.00D  
– axis inclination 45°
- 21 pairs of negative cylinder lenses from -0.12D to -6.00D  
– axis inclination 90°
- 12 prisms from 1 $\Delta$  to 10 $\Delta$
- 14 supplementary lenses:  
Occluder (2 pcs.) – Clear glass – Pinhole  $\varnothing$  0.8 mm –  
Pinhole  $\varnothing$  2.5 mm – Stenopeic slot – Opaque glass –  
Polarized axis 45° and 135° - Red filter – Green filter –  
Maddox Rod white – Grid (2 pcs.)

The rims are made from ABS plastic and are coloured red for minus powers, black for plus powers and grey for prisms and supplementary lenses.

Dimensions case: 555 x 370 x 95 mm

Wooden tray: 520 x 340 x 35 mm

Weight: 5.6 kg

## 6.4 PROGRESSIVE TRIAL LENS SET

Progressive AR coated lenses Ø 38 mm in carrying case



### NEW

#### 14 PROGRESSIVE LENSES

##### Ref. 08266

Trial lens set with 14 progressive lenses Ø 38 mm in metal rims.

Used by the optician to let the customer experience progressive lenses before purchasing ophthalmic lenses.

AR coated lenses in organic material with refraction index of 1.56.

Short progressive corridor length of 12 mm

Addition power ranges included:

+1.00D, +1.25D, +1.50D, +1.75D, +2.00D, +2.50D, +3.00D.

For each addition power range there is one right lens and one left lens.

Laser engravings identify:

- Nasal position "N"
- Horizontal axis "-"
- Near fitting circle "O"

Removable wooden tray.

Dimensions:

Case: 175 x 155 x 95 mm

Wooden tray: 150 x 130 x 40 mm

Weight: 0.9 kg



# PRISM TRIAL LENS SET

6.4

Prism Ø 38 mm trial lenses with AR coating in carrying case



## 76 PRISM LENSES

### Ref. 08264

76 prism lenses in carrying case with removable wooden tray. Suitable for the measuring and correction methodology after H.-J. Haase (MKH).

AR coated lenses in optical glass with refraction index of 1.523.

Prism diopter range:

0.25<sup>Δ</sup>-0.50<sup>Δ</sup>-0.75<sup>Δ</sup>-1.00<sup>Δ</sup>-1.25<sup>Δ</sup>-1.50<sup>Δ</sup>-1.75<sup>Δ</sup>-2.00<sup>Δ</sup>-2.50<sup>Δ</sup>-3.00<sup>Δ</sup>-3.50<sup>Δ</sup>-4.00<sup>Δ</sup>-4.50<sup>Δ</sup>-5.00<sup>Δ</sup>-6.00<sup>Δ</sup>-7.00<sup>Δ</sup>-8.00<sup>Δ</sup>-9.00<sup>Δ</sup>-10.00<sup>Δ</sup>.

This set contains 4 lenses for each prism diopter, with 4 different prism inclinations.

A reference mark indicates the base (notch) and the vertex (dot) of the prism.

Thin lenses with high prism powers.

The rims are made from grey coloured ABS plastic.

Dimensions:

Case: 300x190x93 mm

Wooden tray: 270x155x35 mm

Weight: 1.8 kg

## 12 PRISM LENSES

### Ref. 08263

12 prism lenses in carrying case, suitable for fixation disparity test. AR coated lenses in optical glass with refraction index of 1.523.

Prism diopter range:

0.25 - 0.50 - 0.75 - 1.00 - 1.50 - 2.00.

This set contains 2 lenses for each prism diopter, with different prism inclinations.

A reference mark indicates the base (notch) and the vertex (dot) of the prism.

Dimensions:

Case: 175 x 125 x 95 mm

Weight: 0.8 kg

## 6.5 FLIPPERS

### Binocular confirmation vision test - Cross cylinders



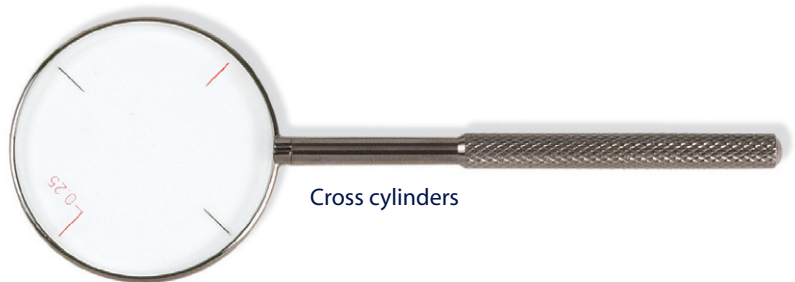
Binocular confirmation test

#### BINOCULAR CONFIRMATION TEST

**Ref. 08325**

With two sliding lenses for optical centring, in protective case.

Powers:  $\pm 0.25\text{D}$  and  $\pm 0.50\text{D}$



Cross cylinders

#### CROSS CYLINDERS

**Ref. 08330**

With knurled handles in protective case.

Powers:  $\pm 0.25\text{D}$  and  $\pm 0.50\text{D}$

Set of 6 flippers

**Ref. 08332**

Confirmation Test  $\pm 0.25D$

**Ref. 08333**

Confirmation Test  $\pm 0.50D$

**Ref. 08335**

Confirmation Test  $\pm 1.00D$

**Ref. 08336**

Confirmation Test  $\pm 1.50D$

**Ref. 08337**

Confirmation Test  $\pm 2.00D$

**Ref. 08338**

Flipper with polarized lenses and Red-Green filters

**Ref. 08339**

Set of 6 flippers with display

- 5 flippers with sphere lenses in optical glass.  
Powers:  $\pm 0.25D, \pm 0.50D, \pm 1.00D, \pm 1.50D, \pm 2.00D$
- 1 flipper with polarized lenses and Red-Green filters.



## 6.6 REFRACTOR/PHOROPTER - VISION TESTER

Ophthalmic instrument used to investigate sight problems and binocular function



### REFRACTOR/PHOROPTER - VISION TESTER Ref. 08244

The vision tester is an instrument that is used to examine refractive problems. It contains most of the lenses used in the trial lens set including the Resley prisms.

Pupillary distance adjustment: from 48 to 75 mm in increments of 1 mm.

- Antireflection lenses
- Sphere lenses: from +16.75D to -19.00D (in increments of 0.25D)
- Cylindrical lenses: from -0.25D to -6.00D in increments of 0.25D (extendible to -8.00D with additional -2.00D auxiliary lens)
- Cylindrical axis: from 0 to 180° (in increments of 5°)
- Cross cylinders:  $\pm 0.25$  D

- Rotating prisms: from 0 $\Delta$  to 20 $\Delta$  in increments of 1 $\Delta$
- Supplementary lenses:
  - Open lenses
  - Retinoscopy lenses +1.50D
  - Polarized lenses: 45° left eye; 135° right eye
  - Maddox, vertical: left eye - white; right eye - red
  - Maddox, horizontal: left eye - white; right eye - red
  - Green lens
  - Red lens
  - Sphere lens + 0.12D
  - Pinhole
  - Dissociated prisms: left eye 10 $\Delta$ ; right eye 6 $\Delta$
  - Fixed cross cylinders  $\pm 0.50$
  - Occluder

Dimensions: 345x350x155mm

Weight: approx. 4.5 Kg

# SELF-BALANCING ARM

6.6

For Lens Meter and Projector



## ACCESSORIES

INCLUDED WITH REF. 08244:

- 4 auxiliary lenses in box: 2 cylinder lenses -0.12D and 2 cylinder lenses -2.00D
- Near vision test card with rod
- Protective cover
- Face shield with protective lens.



## Ref. 08241

With wall-mounted support for vision tester, complete with chart projector mounting.



## 6.6 LED OPTOTYPE PROJECTOR

With infrared remote control



### Ref. 08248

LED optotype projector including 50 of the most commonly used tests during vision testing (see next page for chart details). Tests can be selected quickly and easily using the infrared remote control. Single vertical and horizontal lines of characters can be masked. Supplied with polarized metal screen (400x330 mm).

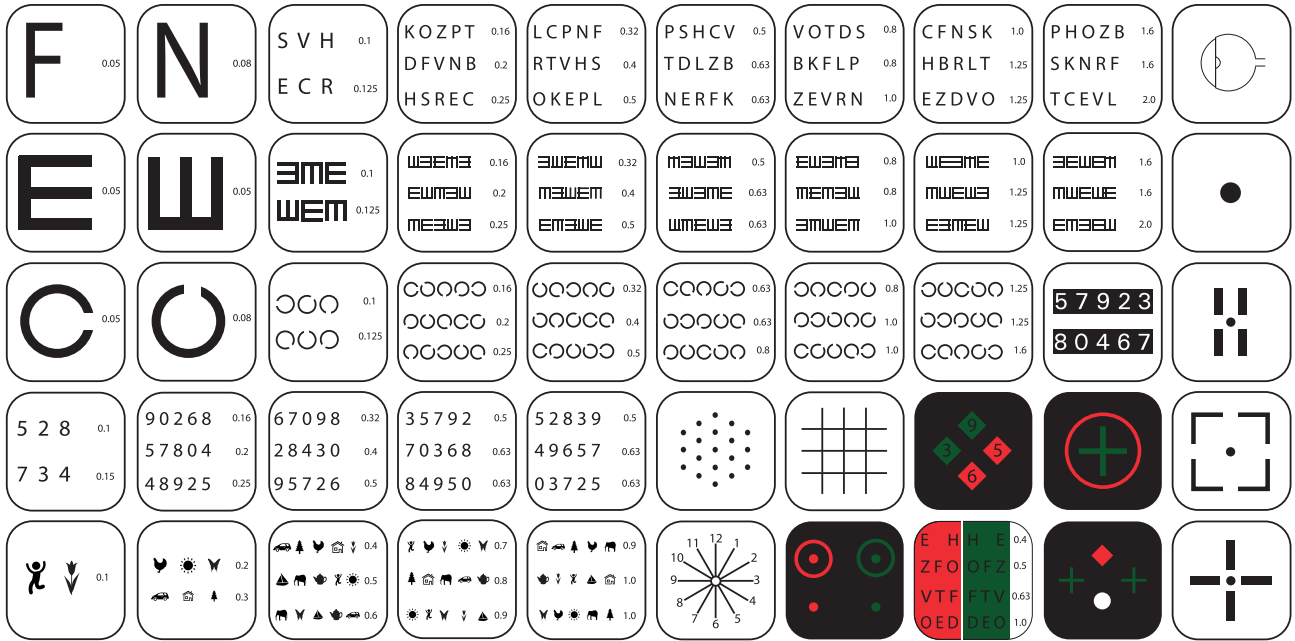
- 50 different tests projected.
- 2 program settings (50 tests or 38 masks).
- Red - Green Filter.
- Projection distance 2.0 to 7.0 m.
- Enlargement 30X (at 5 m).
- Angle of inclination  $\pm 10^\circ$ .
- Test selection speed approx. 0.3 sec.
- Automatic switch-off after 5 min.
- Infrared remote control.
- Can be assembled on self-balancing arm Ref. 08241.

Power supply: 230V AC - 50/60 Hz  
Consumption: 90W  
Dimensions: 248x336x234 mm  
Weight: 4,5 kg



Ref. 08241 Self-balancing arm

## 50 tests



### TEST CHARTS

#### 50 tests:

- 9 letter tests (from 0.05 to 2.0)
- 5 number tests (from 0.1-0.15 to 1.0)
- 9 illiterate or tumbling E tests (from 0.1 to 2.0)
- 5 tests for children (from 0.05 to 1.0)
- 8 Landolt ring tests
- 2 cross cylinder tests
- 1 duochrome test
- 1 fixation point test
- 1 astigmatism test

#### Stereoscopic tests:

- 1 Schober test
- 1 Worth test

#### Polarization tests:

- 1 binocular test
- 1 duochrome test
- 1 phoria test
- 1 phoria with fixation test
- 1 vertical coincidence test
- 1 stereoscopic test
- 1 eye anatomy chart



# 6.6 READING CHARTS FOR 3 METRES DISTANCE TESTS

Flexible plastic material



## Ref. 08425

Reading Chart made of washable flexible plastic material.

- Testing distance approx. 3 metres
- Can be fixed to the wall or used with a light box for rear illumination
- SLOAN letters
- LogMAR notation
- Line progression in LogMAR, decimal, metres, foot.

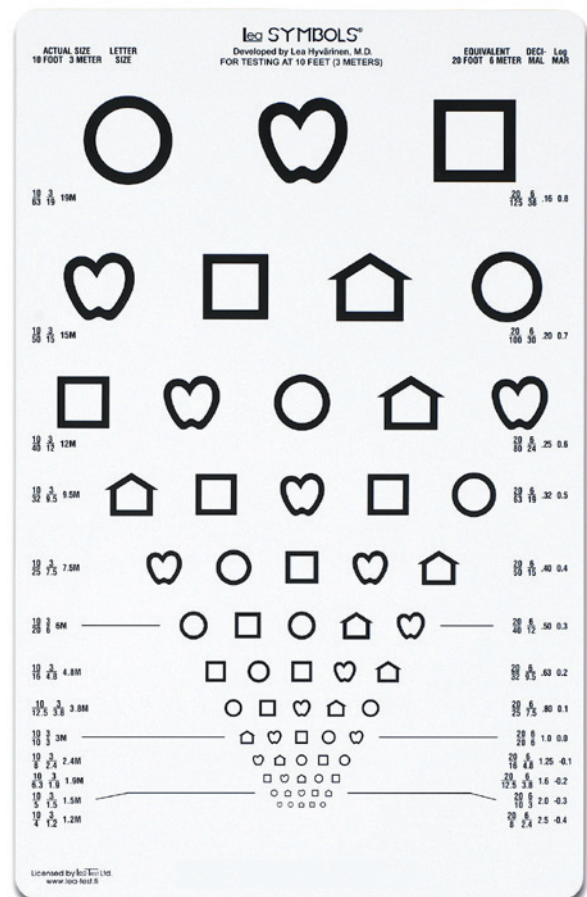
Dimensions: 23 x 36 cm  
Weight: 65 g

## Ref. 08426

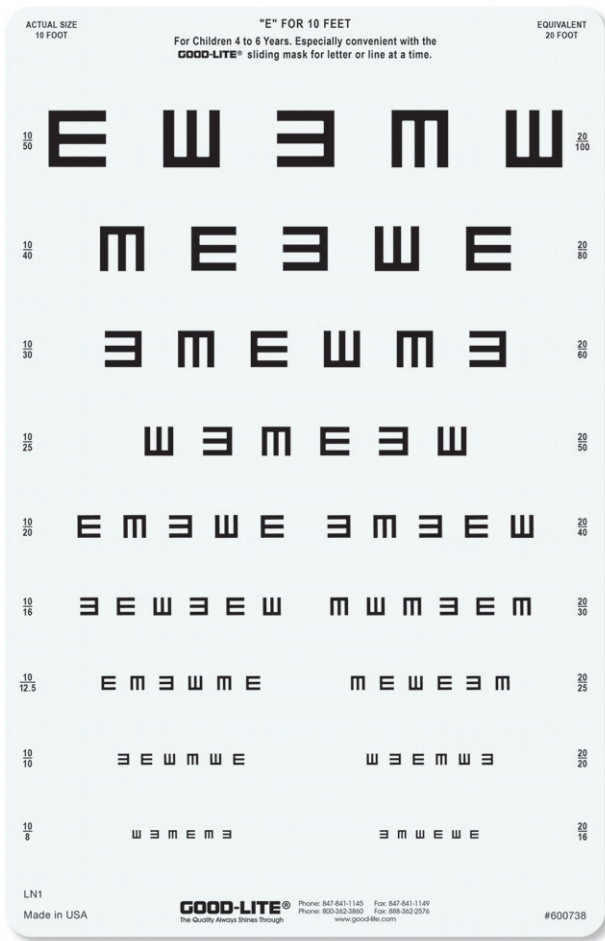
Reading Chart made of washable flexible plastic material.

- Testing distance approx. 3 metres
- Can be fixed to the wall or used with a light box for rear illumination
- LEA symbols, ideal for children from the age of 3 years
- LogMAR notation
- Line progression in LogMAR, decimal, metres, foot.

Dimensions: 23 x 36 cm  
Weight: 65 g



Flexible plastic material



**Ref. 08427**

Reading Chart made of washable flexible plastic material.

- Testing distance approx. 3 metres
- Can be fixed to the wall or used with a light box for rear illumination.
- "E" letters specific for examinations on children from 4 to 6 years old.
- Lines progression: 10 ft. and 20 ft.

Dimensions : 23x36 cm

Weight : 65 gr.

**Ref. 08428**

"E" letter.

- Ideal for visual examinations on children under 6 years old and illiterate people.
- The "E" letter is held by the patient who has to position it as he/she sees it on the chart.
- To be presented to children as a game before the examination, so that they become familiar with the test and are more collaborative during the examination.

Dimensions: 10x12,5 cm

Weight: 27 gr.



## 6.7 CONTACT LENS ACCESSORIES

### Schirmer Test - Fluorescein Sodium



#### SCHIRMER TEST

**Ref. 08781**

Graduated strips for dry eye test. Measurement of tear volume and production.

100 strips in single sterile pack



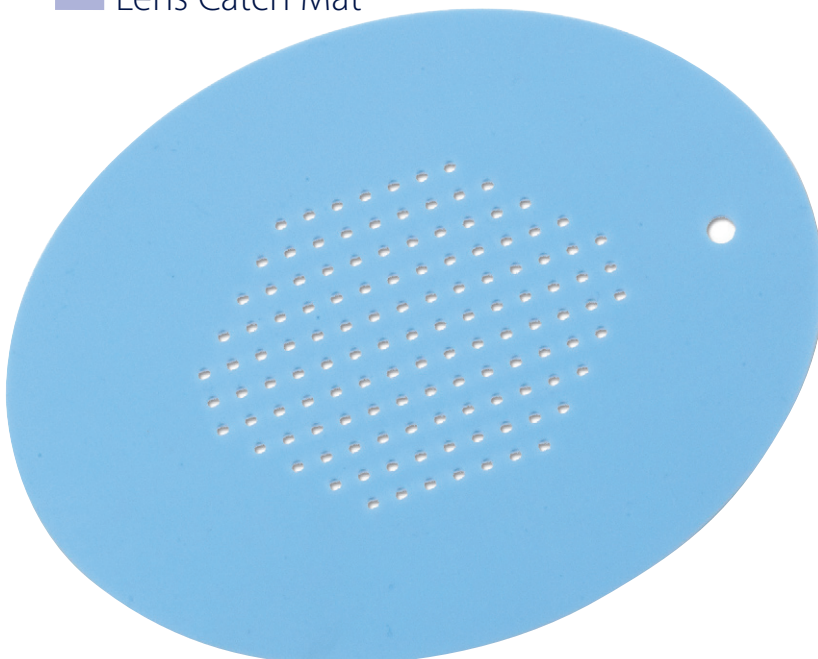
#### FLUORESCEIN SODIUM

**Ref. 08783**

Evaluation of integrity of the ocular surface, G.P. hard contact lens fitting and applanation tonometry. Each strip is impregnated with 1.0 mg of fluorescein sodium.

100 strips in single sterile pack

### Lens Catch Mat



#### LENS CATCH MAT FOR THE SINK

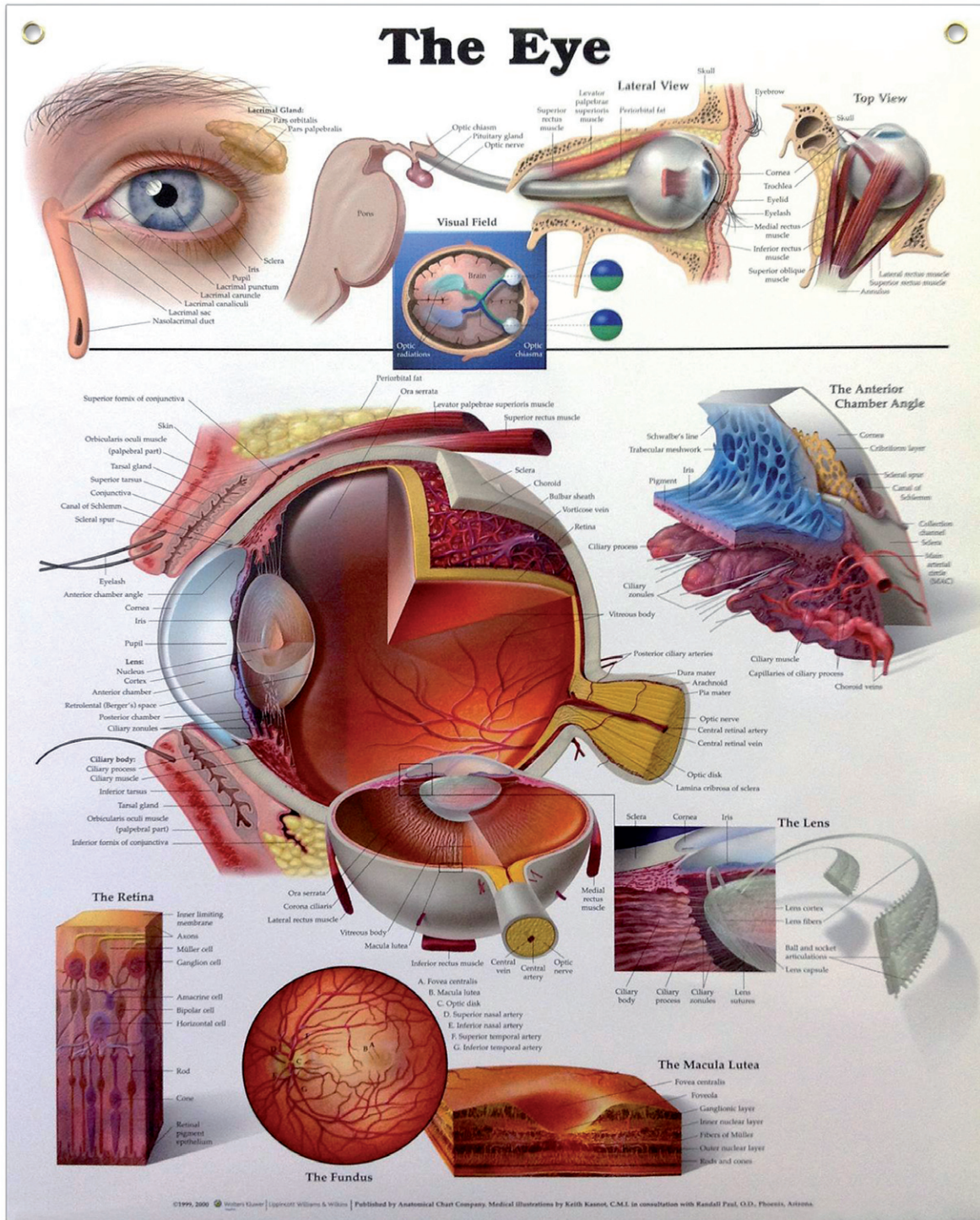
**Ref. 08795**

To prevent the loss of contact lenses down the drain.

Dimensions: 139x107 mm

3 pcs.

## Anatomical Image of the eye



**Ref. 11103**

Poster illustrates the different parts of the eye i.e muscle, crystalline, optical nerve, lacrimal gland, net, cornea, eyelashes corps.

Dimensions: 50 x 66 cm

1 pc.