Sight testing & refraction equipment

Ophthalmoscopes & retinoscopes

Perimetry accessories

Portable slit lamps, tonometers & lenses

Orthoptic equipment

General equipment

HAAG-STREIT UK
2021-2022 Catalogue

Issue 8 | May 2021
MAINTENANCE CONTRACTS

Established for more than 30 years, our Service Division is committed to the critical area of maintenance and support. Constantly improving upon the levels of service and repair, our Service Division always strives to give you peace of mind.

HS-UK is a name you can trust, from the quality equipment that you purchase from us, through to the postsales support you receive with one of our service contracts.

Why do I need a service contract?
At Haag-Streit UK we understand how important it is for your clinic or practice to run seamlessly, with no interruption to your service.

Whilst we are proud to say that our products are the gold-standard, service issues can still arise, which may lead to your equipment needing to be repaired by an expert. With the demands on NHS and private hospital eye clinics and Opticians in the UK ever-increasing, and the need to limit equipment down-time, it is vital that you have a trusted service provider that you can call the minute you identify any performance issues. We understand that, as well as causing inconvenience to patients, equipment down-time can cost you both time and money.

Our HS-UK Service Team has the ability to respond rapidly to any diagnostic contract call-out and, no matter which contract you take, you will receive an annual service visit to ensure that your equipment is maintained at its optimum performance level.

Why HS-UK?
The Haag-Streit brand is synonymous with excellence. We aim to deliver this in all aspects of our organisation, from the gold-standard products we deliver, to the post-sales service and support we provide. The majority of NHS hospitals with eye departments in the UK benefit from an HS-UK service contract.

Our proven maintenance programme and strong engineering experience, ensure that Haag-Streit UK can guarantee dependable technical support and the highest levels of customer service.

We offer three levels of service; Gold, Silver and Bronze. For further information or a written quotation, please telephone 01279 456314, email service@haag-streit-uk.com or visit www.haagstreituk.com/service.
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1. SIGHT TESTING & REFRACTION EQUIPMENT

TEST TYPES & ACCESSORIES

**Single Sided Test Types**
A simple test type with an illuminated upper panel, which is interchangeable, with a spotlight in the lower panel. Available in direct or indirect format, with or without wall bracket. H:60cm W:21cm D:12cm

- **4107200** Free standing, direct
- **4107250** With wall bracket, indirect/reverse

**Distance & Near Vision (DNV) Domiciliary Test Type**
The distance test is designed for 3 metre testing. On the reverse of the unit is the near vision tests (35cm). Controlled by an infrared hand piece and light to carry, the DNV test type will fit into a standard briefcase.

- Distance tests: duochrome, concentric circles, Snellen 3/60 to 3/5.
- Near vision tests: Near fixation disparity, stereopsis test, suppression test, oblique tangent scale, bichromatic test, cross cyl and balance chart.

A comprehensive manual is provided.

**4107201**

**Ophthalmic Mirror**
Mirrors with optical glass qualities and distortion free.

- **4201001** Wall mirror — screws to wall. 54cm x 36cm
- **4202001** Wall bracket mirror — suitable for awkward shaped rooms. 54cm x 36cm
- **4203001** Floor standing mirror — Mounted on a strong, four legged floorstand. Column is adjustable for both height and angle. 54cm x 36cm

**Test Types & Panels**
Upper panels are available for use in the rotating drum test types and single-sided test types. The charts with dual purpose letters are for use at both 6 metres and 3 metres with a mirror.

A wide selection of test types is available, in either plastic or cardboard.

The cardboard charts are available, flat or folding. The 3 metre test types will fit easily into a briefcase for domiciliary use.

*For a full list of Test Types & Panels, please visit [https://hsuk.co/testtypes](https://hsuk.co/testtypes)*

**Cardiff Acuity Test**
The test is available in two versions. The standard version covers a range of visual acuity levels from 6/48 and 6/96 to 6/3.75 and 6/7.5 (at working distances of 1m and 50 cm). The Low Vision version, aimed at practitioners working in the field of visual impairment, covers 6/96 and 6/192 to 6/7.5 and 6/15, at the same working distances. Designed specially to test ages twelve months to three years.

**1549006**
VISION TESTS

Sonksen LogMAR Test (SLT)
The SLT is a new visual acuity test. A unique feature of the test is that it is published with centile charts of acuity (similar to those used for growth) from 2 years 9 months, to 7 years 9 months - a period of very rapid changes in acuity.

Cambridge Crowding Cards
For pre-school visual acuity testing. Developed at Cambridge University, this test is sensitive to the crowding effect which may impair vision when acuity for single letters is normal. It is simple to understand as all they have to identify is the central letter by pointing to a matching card. The letters used are the same as the Sheridan Gardiner test. The test consists of a nylon loop board, 6/60 crowded letter key card, single test, two spectacle frames, one with left eye occluded and one with right eye occluded. Carrying case included.

Ffooks Symbols Test Type
In a book format using a circle, square and triangle, often more convenient than cubes. There are eight pages of symbols ranging in size of 6/60 to 6/5. A near vision page is included. The test comes complete with three cut out symbols for use by the patient.

Kay Three Metre Crowded Book
A high-quality printed and bound visual acuity picture book with matt-laminated pages. Contains 12 acuity sizes, 1.00 to -1.00 LogMAR (3/30 to 3/2.4 Snellen equivalent) with four pictures per page for quick accurate assessment of children’s vision. Designed for 3M testing, but can be used at alternative distances with a simple adjustment to the notation. (Near test and matching card included.)

Kay School Screening Chart
The chart makes vision screening at school entry quick, easy and reliable, without the child needing to know capital letters. Ask the child to read all the pictures in one vertical row and confirm their linear acuity at the smallest size with crowded pictures in the centre. The chart is double-sided to test each eye with different pictures and measures vision in nine LogMAR and Snellen sizes. 52 x 32 cm.

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LogMAR Charts
For 4 metre viewing. The arrangement of the letters on these revised charts is balanced so that the Sloan letters are represented at least once in every position. Can be used in an illuminated cabinet or as a wall hanging chart.

4302007 COHZV chart, for testing the right eye
4302008 ZRKDC chart, for testing the left eye
4302009 RNOVS chart, for refractions

Sheridan Gardiner Test
Designed for use with young children, testing depends upon matching shapes rather than letter identification. Suitable for the visual assessment of the deaf-mute, educationally sub-normal children and patients who do not share the same language as the tester. A series of orthoptic booklets in washable plastic form is available, which supplements the basic set.

1549011 Sheridan Gardiner test, comprehensive set (standard test, flip over booklets red, green, yellow and blue, 6m wall hanging test type)
4116001 Sheridan Gardiner test, standard (key card and flip over book, one letter per page) to be used at 6 metres
4116002 Sheridan Gardiner flip over booklet green (6/6 - 6/3)
4116003 Sheridan Gardiner flip over booklet red (6/60 - 6/18)
4116004 Sheridan Gardiner flip over booklet yellow (6/18 - 6/6)
4116005 Sheridan Gardiner flip over booklet blue (near vision)

Stand for Cabinet
For use with an illuminated cabinet. Includes castors, 2 locking. Allows for height adjustments from 114-125cm or 145-155cms for standing patients.

4302006

Slimline Illuminated Cabinet
For use with LogMAR charts listed above. Available wall hanging or with a separate stand. Convenient storage for 5 charts at the back of cabinet. Dimensions: 70 x 66 x 6.5cm (27.5 x 26 x 2.5”). (Chart not included.)

4302002

NEAR VISION TESTS

Vocational Near Vision Test Type
Provided in a spiral bound format, the test is printed in conformity with the requirements of the Faculty of Ophthalmologists. The pages include text of N5, N6, N8, N10, N12, N14, N18, N24, N36, N48 corresponding to 5,6,8pt etc. Times Roman type face. A 1:17 reduced Snellen and Ridley type, music, typewritten copy, street map, stock market and soccer league table are included.

4117001
**NEAR VISION TESTS**

**Kay Crowded Near Test Card**
This test card accompanies the Crowded Book Set and contains the eight pictures in reduced sizes which are equivalent to 6/60 - 6/6 at a 33cm testing distance. The card is double sided and shows a different arrangement of pictures in both crowded and single format.

4116128

**Moorfields Bar Reading Book**
Developed in accordance with suggestions from the Orthoptic Department at Moorfields Eye Hospital.
The spiral bound format and seven pages of different graded texts makes the test most useful in cases of accommodative squint.

7314001

**Maclure Test Type**
An ideal test for young children, which is designed to differentiate between their ability to see and their ability to read. The test is based upon the Ladybird Keywords reading scheme using school script, which is a simplified type written without serifs. It helps the child to gradually appreciate the link between handwriting and print and to make the transition to the Times Roman serif style. (White cover).

4118001

**Thomas the Tank Engine Reading Test Type**
Designed especially for young children. Conforms to the recommendations of the Faculty of Ophthalmologists.

1549017

**Maclure Bar Reading Test**
Using the same philosophy as the Maclure reading test type, this version is suitable for performing bar reading exercises. (Red cover).

7315001

**Curpax Near Vision Test Type**
Based on the recommendations of the Faculty of Ophthalmologists. Text is provided with the range N5 to N48 with a reduced Snellen test type, an industrial test, a stock market report, a telephone directory, a sheet music extract and a numeral test.

4117051
NEAR VISION TESTS

Jaeger Reading Test Type
A booklet viewed at 35cm with text from J1 to J20.
1549104

Laminated Test Type
A simple double sided reading test type ranging from N4 to N48 as approved by the Faculty of Ophthalmologists and incorporating their requirements. Being laminated, it is washable and durable.
1646012

OCCLUDERS & RULES

Romanes Occluder
This simple all purpose occluder is a useful trial case accessory and may also be used for a simple assessment of visual acuity and the cover test. One side of the occluder bears a scale graduated in millimetres for interpupillary distance measurements and for numerical assessment of proptosis. The maker's name and address is printed in Times Roman lettering and may be used as a near vision test.
4363001

Eustace Pinhole Occluder
A Lorgnette style occluder with five pinholes in one half. Reversible for use over either eye. Also incorporates pupillary distance rule and fixation point.
4364001

Spielmann Occluder
An opaque occluder on handle for cover testing. Being opaque, eye movements of the occluded eye can be monitored during the test.
1561010

Black/Green Silk Eye Patch
A simple washable, durable eye patch with elasticated band, for use wherever patching may be required.
1710005
**OCCLUDERS & RULES**

**Opticlude Eye Patches**
An adhesive eye patch used whenever occlusion therapy is required. The virtually non-irritant adhesive leaves no residue on removal. Available for adults and children.

1771010  Pack of 20 Opticlude occluders, junior
1771011  Pack of 20 Opticlude occluders, adult

**Kay Occluding Spectacles for Children**
Test uniocular vision using the occluding glasses. The bright neon colours make them fun to wear and easy to remember.

4116130  Regular
4116134  Infant
4116143  Junior

**EXOPHTHALMOMETERS**

**White Perimeter Occluder**
Ideal for field testing. Its translucent properties ensure that the occluded eye does not dark adapt under test conditions.

5008004

**Headspring Occluder**
An effective accessory for use with visual field devices, screens and other tests where occlusion of one eye is required.

5203001

**Luedde Exophthalmometer**
A clear perspex bar about 1cm square x 10cm long is shaped with a notch at one end and is graduated in cm and mm for measurement of eye protrusion.

1561320

**Mirror Exophthalmometers**
These superior and inferior orbital rim-based instruments measure the position of the globe accurately even after lateral orbitotomy, e.g. post tumour removal or thyroid decompression. Easy-to-use, fast reproducible results and comfortable for the patient.

1605020  According to Hertel
1605025  According to Naugle
CROSS CYLINDERS & CONFIRMATION TESTS

Cross Cylinders
A useful confirmation test for examining astigmatism, comprising full aperture lenses with markings indicating the power and mounted on nickel silver knurled handles.
Available in the following powers:
- 4361002 ± 0.25 dioptre
- 4361003 ± 0.50 dioptre
- 4361004 ± 0.75 dioptre
- 4361005 ± 1.00 dioptre

Confirmation Tests
Glass lenses mounted in a metal frame, available in the following powers; ±0.25, 0.50, 0.75 and 1.00 dioptre as 2 lens, 3 lens and 4 lens.
- 6221020 2 lens ±0.25
- 6221022 2 lens ±0.75
- 6221050 3 lens straight ±0.25
- 6221040 4 lens ±0.25
- 6221042 4 lens ±0.50
- 6221021 2 lens ±0.50
- 6221023 2 lens ±1.00
- 6221051 3 lens straight ±0.50
- 6221041 4 lens ±0.50
- 6221043 4 lens ±1.00

RETINOSCOPY RACKS

Pair of Retinoscopy Racks
Ultra light-weight moulded lens racks made from high grade optical quality plastic. Sphere lens power range, ±0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 5, 6, 7, 8, 9, 10, 12, 15 dioptres. To avoid scratching, the lenses are deeply embedded in the frame and are supplied in a soft plastic case.
- 1561030

TRIAL CASES & FRAMES

Trial Lens Set
Contains 218 reduced aperture lenses and 7 accessories, in case. International colour convention, metal rims (anodised aluminium). Cylinders do not have handles.
128 Spheres in 64 pairs:
Convex: 0.12, 0.25 — 4.00 in 0.25 dioptre steps, 4.00 — 6.00 in 0.50 dioptre steps, 6.00 — 14 in 1.00 dioptre steps, 14.00 — 20.00 in 2.00 dioptre steps
Concave: 0.12, 0.25 — 4.00 in 0.25 dioptre steps, 5.00, 5.50, 6.00 — 14.00 in 1.00 dioptre steps, 16.00, 18.00, 20.00
80 Cylinders in 40 pairs:
Convex: 0.12, 0.25 — 3.50 in 0.25 dioptre steps, 4.00, 5.00, 6.00
Concave: 0.25 — 3.50 in 0.25 dioptre steps, 4.00, 5.00, 6.00
10 Prisms 1/2, 1, 2, 3, 4, 5, 6, 7, 10, 12
7 Accessories: 1 Maddox Rod, 1 red glass, 1 green glass, 1 stenopaic slit, 1 pinhole disc, 2 blank discs
- 4304001

Perimeter Lens Set
A selection of quality full aperture lenses, complete in carrying case. Contains:
Spheres (1 each):
0.25, 0.50 — 3.00 in 0.25 dioptre steps, 3.50, 4.00, 4.50, 5.00, 5.50, 6.00, 6.50, 7.00, 8.00, 9.00, 10.00, 11.00, 12.00, 13.00, 14.00, 16.00
Cylinders (1 each):
0.25, 0.50, 0.75, 1.00, 1.50, 2.00, 2.50, 3.00, 3.50, 4.00, 4.50, 5.00. Sets available with + or - cylinders.
- 4302400 + cylinders
- 4302410 - cylinders
TRIAL FRAMES

Oculus Universal Trial Frame
Constructed from lightweight metal alloy and high-quality plastic. Accommodates up to five 38mm lenses for each eye. Independent screw adjustments for PD of 48 to 80mm. Screw operated bridge height and projection. Corneal distance scale. Sides adjustable for length and angle.

4505001

Oculus Universal UB-4 Trial Frame
As per Oculus Universal Trial Frame, but made from robust, high-quality plastic.

4505100 Oculus Universal UB-4 Trial Frame
4505105 Polarising filters for Oculus UB-4 trial frame

Oculus Half Eye Trial Frame
Made from high-grade plastic and light metal alloy, this drop cell trial frame can accommodate up to three 38mm lenses for each eye. Adjustable PD of 59 to 67mm. Sides adjustable for length. Available with fixed bridge or adjustable nosepiece.

4506001 Half eye trial frame without nosepiece, adult
4506010 Half eye trial frame with nosepiece, adult

Oculus Children’s Trial Frame
As Half Eye Trial Frame with PD of 54 to 58mm. Available with fixed bridge or adjustable nosepiece.

4506030 Half eye trial frame without nosepiece, child
4506035 Half eye trial frame with nosepiece, child

Halberg Trial Clips
Useful and effective monocular trial frame which may be used with almost all types of spectacle frames. Incorporates three cells for 38mm trial lenses and accessories. Ideal for low vision testing. (Supplied in pairs).

1549050

COLOUR TESTS

Child’s Colour Test Alpha
A confusion test with pictures to indicate the presence of inherited colour vision defects.

4129100
**COLOUR TESTS**

**City University Colour Vision Test, Edition 3**
A rapid diagnostic test for detecting red/green and blue/yellow and classifying red/green (protan/deutan) and blue/yellow (tritan) defects (inherited and acquired). Enables an assessment of the degrees of any defect. Quick and simple to use and suitable also for children over five years. Different saturations provide varying degrees of sensitivity to detect even mild defects, if required. A good test indicating likely occupational suitability for colour tasks.

1549101  City University Colour Vision Test, Edition 3
1549107  Pack of charts for City University Colour Vision Test, Edition 3

**Ishihara Colour Charts**
A confusion test for colour deficiency, principally inherited defects of the red-green type. A very sensitive test, so will fail those with very minor defects. The tests provides little indication of occupational colour matching ability. It does not test blue/yellow vision.

Available as;

4129001  38 plate, used principally by ophthalmologists for complete satisfaction
4129003  14 plate, the most accurate plates from the complete 38 plate edition which allows minimum examination
4129004  10 plate, simple geometric shapes take the place of numerals for use with infants and unlettered people

**Frisby Pocket Stereotest**
A new screening test for stereopsis, suitable for patients with limited ability to understand instruction. Does not require red/green or polarised glasses.

7308003

**STEREOTESTS**

**Lang Stereotests**
Two strips act as random dot stereograms of varying separation of dots. Spectacles do not need to be worn to view. The test includes animal pictures viewed at 40cm. Simple shapes have to be detected.

Pocket sized, the tests are available in three formats;
Lang I:  Disparity Star 600°. Cat 400°. Car 550°
Lang II: Disparity Moon/Star 200°. Car 400°. Elephant 600°
monocular visible star

7307020  Lang stereotest No. 1 in wallet (car, cat and star shapes)
7307025  Lang stereotest No. 2 in wallet (elephant, van and moon with monocular star control)
7307030  Lang stereotest No. 1 & 2 in wallet
**STEREOTESTS**

**Frisby Stereotest**
Three square transparent plates (6mm, 3mm, 1.5mm) have four similar patterns printed, three on one surface and one on the other, hence one appears in relief as closer or nearer. The patient indicates which square stands out in space from the others.
Viewed at 40cm, glasses are not required. Assessment of stereo acuity from 600 to 15 seconds of arc.

7308001

**Polarised Glasses**
Polarised glasses for use with Wirt, Random Dot and Randot tests.
7306101 Standard (Black frames)
7306105 Paediatric (Orange frames)

**Wirt Fly Test**
Consists of three stereoscopic tests employing polarised vectographs. The fly dramatically demonstrates the presence of stereo vision. The other two tests provide the practitioner with results to estimate the level of stereoscopic vision.
Viewed at 40cm.

7306001

**Randot Stereotest**
Patterns or shapes are presented to the two eyes using polaroid spectacles provided. One figure stands out in space and has to be identified. Includes animal pictures viewed at 40cm.

7307001

**Random Dot E Stereotest**
This test consists of three cards and a pair of polarised spectacles. One card is a specimen and shows what the patient should see when using the spectacles and presented with the stereoscopic card. The third card is a blank to expose malingerers.

7307002
2. OPHTHALMOSCOPES & RETINOSCOPIES

HEINE INDIRECT OPHTHALMOSCOPES

OMEGA 600 Indirect Ophthalmoscope
The OMEGA 600 enables the clinician to provide a more accurate diagnosis. It features superior non-reflective glass optics, sharp images and reliable, natural colours. The system now features visionBOOST LED light technology for cataract patients, offering adjustable light for more confidence in the diagnosis of patients with media opacities.

- 1717502 OMEGA 600 wall charging set
- 1717504 OMEGA 600 student set

OMEGA 500 Breath Shield
This lightweight, rigid breath shield has been developed exclusively for the OMEGA 500 for a comfortable fit and to cover the nose, mouth and chin area. It provides a clear view through a cut-out in the optics.

- 1717651 (single)
- 1717652 (pack of 3)

WELCH ALLYN OPHTHALMOSCOPES
The Welch Allyn LED bulb is guaranteed for 7 years and uses a fraction of the power of traditional bulbs, extending the on-time of your battery handle. Update your existing PanOptic or Prestige by purchasing an LED lamp.

LED 3.5V Prestige Ophthalmoscope
The Prestige Ophthalmoscope offers;
- Halogen HPX™ lamp which provides 30% more light output, for true tissue colour
- 68 lenses -30 to +38 in automatic, single D steps
- Coaxial optical system for ease of entry and larger field of view
- Sealed optics keep out dust and dirt
- Cross linear polarising filter reduces abnormal corneal reflection
- Neutral filter provides the ideal amount of Halogen HPX™ light for entering healthy eyes
- Opacity setting provides the brightest Halogen HPX™ light for easy entry into eyes with cataract or other media opacity.
- 18 aperture combinations for greater versatility
- Rubber brow rest prevents scratching of glasses
- Illuminated lens dial clearly identifies dioptr setting.

- 1717162 Prestige Ophthalmoscope, head only (Ref: 11735)
- 1717330 Welch Allyn LED bulb for Prestige Ophthalmoscope
**LED PanOptic Ophthalmoscope**

The PanOptic Ophthalmoscope offers;

- Large and clear marking spots for easy blocking
- A field of view that is 5X larger than you see with standard ophthalmoscopes in an undilated eye
- 25º field of view versus the 5º field of view of standard ophthalmoscopes
- A 26º increase in magnification – making it easier to see retinal details
- Compatible with all Welch Allyn 3.5v power sources
- Greater working distance improves comfort for both user and patient
- Focusing wheel adjusts in a continuous, smooth action for precise control and optimum view
- Focusing range is -20 to +20 dioptres
- Halogen HPX™ lamp, provides a whiter, brighter light
- Aperture dial allows you to select micro, small and large spot sizes. Also includes red-free filter, slit aperture and cobalt blue filter
- Includes add-on magnifying lens for corneal exams.

1717240  PanOptic Ophthalmoscope, head only (Ref: 11820)
1717246  PanOptic Ophthalmoscope, with SMART handle, transformer and hard case (Ref: 11824VSM)
1717249  Welch Allyn LED bulb for PanOptic Ophthalmoscope

**Pocket Plus LED Ophthalmoscope**

Combined function and style to provide maximum performance and durability in a compact design. Choose from four colours; blueberry (blue), Mulberry (Purple), Blackberry (Black) and Snowberry (White). The Pocket Plus Ophthalmoscope boasts many exciting features;

- Dioptre range of -20 to +20
- Optional neutral density filters
- 7 apertures: microspot, small spot, large spot, slit aperture, fixation aperture, cobalt blue and red-free
- SureColour LED bulbs - rated for 20,000 years of use.

1717465 - Blueberry
1717460 - Mulberry
1717455 - Snowberry
1717450 - Blackberry

**WELCH ALLYN RETINOSCOPES**

**3.5V Coaxial Ophthalmoscope Head**

Has all the Prestige features, except the Coaxial Ophthalmoscope has 28 lenses, -25 to +40.

1717003  Coaxial Ophthalmoscope, head only (Ref: 11720)

**Fixation Cards**

Set of four retinoscopy fixation cards for Welch Allyn Retinoscopes.

1717172
**WELCH ALLYN RETINOSCOPE**

**3.5V Streak/Spot Retinoscopes**

**Features:**
- Interchangeable: streak retinoscope can be converted to a spot.
- Continuously rotating external focusing sleeve is easy to grip and manipulate regardless of hand size.
- Brighter Halogen light and more efficient optics allow easier viewing of retinal reflexes.
- Sealed housing keeps instrument dust-free longer.
- Crossed linear polarising filter eliminates glare from trial lenses.
- Magnetic fixation cards make dynamic retinoscopy easy to perform.
- Converts streak to spot retinoscope by simply changing the bulb.
- Rubber brow rest prevents scratching of glasses.

**Models:**
- **1717300**: 3.5V Streak retinoscope, head only (Ref: 18200)
- **1717044**: 3.5V Spot retinoscope, head only (Ref: 18300)
- **1717170**: Streak bulb (Ref: 08200)
- **1717171**: Spot bulb (Ref: 08300)

**WELCH ALLYN POWER SUPPLIES & HANDLES**

**3.5V SMART Power Handle**

The “SMART” Lithium Ion battery provides twice the on-time and is just half the weight of a rechargeable battery. Ergonomic design, made from durable CYCOLOY®. The “SMART” handle has low battery and charging indicators, does not suffer from memory loss when charging and has a more environmentally friendly battery.

**Models:**
- **1717292**: 3.5V SMART power handle, charger and transformer (Ref: 71904)
- **1717293**: SMART power handle only (Ref: 71910)
- **1717294**: Charging pod (Ref: 71940)
- **1717028**: Transformer (Ref: 71034)

**WELCH ALLYN DIAGNOSTIC SET**

**Universal Double Desk Charger**

Double desk charger for both SMART handles (black lithium ion) and the original double desk charger handles (NiCad).

**Models:**
- **1717296**: Double desk charger, without handles (Ref: 71114)
- **1717298**: Double desk charger, with 2 SMART handles (Ref: 71734)

**Welch Allyn Diagnostic Set**

Ophthalmic Diagnostic Sets contains an ophthalmoscope, retinoscope, double desk charger, smart handle & carry case.

**SET6**: Prestige ophthalmoscope, streak retinoscope, double desk charger, 2 smart handles, LED ophthalmoscope bulb, spare retinoscope bulb & carry case.
3. PERIMETRY ACCESSORIES

VISUAL FIELD EQUIPMENT

Bjerrum Screen
For kinetic visual field testing, central and peripheral. For use at one metre. The Bjerrum screen is made of black matt material and stitched with radial lines at 15° intervals and circles at 5° intervals. Used with Traquair or similar stimuli. Supplied on corded slats or retractable into a wallbox.

5102201  Bjerrum screen, on slats
5131001  Pad of 100 Bjerrum screen charts

Amsler Chart Manual

1549105  Amsler Chart Manual
1549106  Amsler recording charts, pad of 50
4. PORTABLE SLIT LAMPS, TONOMETERS & LENSES

BA 904 PORTABLE SLIT LAMP

The BA 904 Slit Lamp can be used with its head and chinrest assembly for traditional style examinations or as a hand held slit lamp.

Features include;
• Ergonomic design
• Superior optics from Haag-Streit
• Bright, halogen illumination
• Power from mains or rechargeable battery pack
• Head and chinrest with joystick
• 3 slit widths (0.12mm, 0.25 and 0.5mm)
• 4 slit heights (3mm, 5mm, 8mm and 14mm)
• Two integral colour filters; blue and yellow.

5606011 Portable slit lamp, including head and chinrest stand, power centre, energy pack and large case (Set A)
5606013 Portable slit lamp, including power centre, energy pack and small case (Set C)

Clement Clarke Portable Slit Lamp BA904

Heine HSL 150 Hand-held Slit Lamp

The portable HSL 150 is ideal for situations where a full-size slit lamp is not available or convenient, such as domicillary visits. It can be used for the examination of the anterior segment in both human and veterinary medicine. The HSL 150 instrument head weighs just 70g, the lightest slit lamp of its kind.

Features include;
• Slit size adjustable from 0.2 mm x 10 mm to 4 mm x 14 mm
• 6 x magnification
• Blue interference filter (FITC), can be selected for corneal examination
• Multi-coated optics for maximum light transmission
• 2.5 V or 3.5 V XHL Xenon Halogen Technology for bright, white light comparable with the brightness of a classic slit lamp.

1717700
APPLANATION TONOMETERS

Goldmann Model AT900 Tonometers
The standard for the measurement of intraocular pressure between 0 to 78mm Hg. As the area of applanation is only 3.042mm, the scleral rigidity does not influence readings. The Model R Tonometer is permanently attached to the slit lamp by means of a special mounting spigot.

- **5810010** Goldmann Model AT 900 C/M for BM, BMV slit lamps (previously R/BM)
- **5812011** Goldmann Model AT 900 BQ tonometer for BP,BQ slit lamps (previously R/BQ)
- **5812013** Goldmann Model AT 900 C/M tonometer for BC,BD 900 slit lamps (previously R/BC)
- **5814001** Doubling Prism for Goldmann (black band)

Goldmann Model AT 900M/Q Tonometer
The standard for the measurement of intraocular pressure between 0 to 78mm Hg. As the area of applanation is only 3.042mm, the scleral rigidity does not influence readings. The Model T Tonometer attaches to the footplate of the slit lamp and is removed from the slit lamp when not in use. Fits the Haag-Streit BM, BMV, BQ, BP slit lamps. (Previously T-type removable)

**5811030**

Goldmann Model AT900D Digital Tonometers
Digital Display, ergonomic, easy-to-read digital display of IOP measures even in a darkened examination room. A true Goldmann tonometer incorporating digital measurement technology and the Goldmann applanation principle yields, precise and reliable IOP readings.

- **5813020** AT900D-T (T-type for BM, BP & BQ)
- **5813025** AT900D-BQ (R-Type for BP & BQ)
- **5814001** Doubling Prism for Goldmann

Perkins Mk3 Tonometer
The Perkins Mk3 hand-held applanation tonometer combines the same proven accuracy as the clinically trusted Perkins Mk2, but with an improved ergonomic design, longer lasting battery and excellent internal LED illumination.

- Ergonomic design
- Innovative LED illumination
- ‘Tonogrip’ prism holder
- Integrated rechargeable battery
- Tonosafe compatible
- Clinically trusted accuracy

**5806001A** Perkins Mk3 tonometer with 20 Tonosafe disposable prisms
**Tonosafe Disposable Prisms**

The Tonosafe disposable prisms are a convenient and effective method of reducing the risk of cross infection between patients, eliminating the need to clean and disinfect prisms.

Tonosafe is compatible with both Goldmann and Perkins tonometers. (Box of 100 with five prism holders per box.)

- **5805100** Box of 100 prisms
- **5805084** Black Tonosafe prism holder

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**Fluo 900 Fluorescein strips**

Sterile, individually wrapped ophthalmic strips which are impregnated with fluorescein dye. Used for evaluating contact lens fitting.

- **7220592**

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**Haag-Streit Slit lamp breath shields**

A large breath shield for the Haag-Streit BQ 900, BP 900 and BI 900 model slit lamps.

The breath shield is easy to install and covers a wide area of the slit lamp, while providing access to the main features of the device. The special angled shape of the shield and the cut-outs for the arms allow comfortable working.

- **7221001** BQ 900 breath shield
- **7221002** BP 900 breath shield
- **7221003** BI 900 breath shield

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**Sterilising Stand**

A simple tripod sterilising stand to take up to three doubling prisms.

- **5814002**
CONTACT, ASPHERIC, LASER & INDIRECT LENSES

Goldmann Fundus Contact Lens (901)
For binocular slit observation of the pupil, the macula, its surroundings out to 30º as well as the central vitreous body sections. Easy to use, lightweight glass provides a direct image.
5702006

Goldmann Single Mirror Gonioscopy Contact Lens (902)
For the examination of the anatomical conditions in the area of the front of the iris. 902s (scleral) lens also available. 62º mirror angle.
5702007

Original Goldmann 3 Mirror Contact Lens (903)
11mm internal diameter of the cornea part. Best in combination with Haag-Streit slit lamps. For examination of the entire fundus, the vitreous and the iridocorneal angle. Made of acrylic glass. 59/66/73 degree mirror angles.
5702009 Large (903) classic Goldmann glass
5702010 Small 903s classic Goldmann glass

Two Mirror Contact Lens (905)
Two mirrored surfaces, which each incline at an angle of 62º towards the front surface, have been cut into the 17mm long glass cone. This makes it possible to examine the opposite iridocorneal angle without turning the contact glass. 905s (scleral) lens also available.
5702008

Volk Lenses
A full range of powers for every diagnostic and therapeutic application.
Volk classic lenses;
1549905 - 60D
1549902 - 78D
1549120 - 90D
1549906 - 20D
1549948 - Superfield NC lens
Volk BIO lenses;
1549086 - 28D non-contact
1549908 - 30D non-contact (30mm)
1549158 - 30D non-contact (43mm)
Volk Pan Retinal lens
1549915
CONTRACT, ASPHERIC, LASER & INDIRECT LENSES

**Sterycup**
For use with Goldmann Contact Lenses 903/903L, the Sterycup reduces the transfer of bacteria. There is no reduction in optical quality and no rotation on the patient’s cornea. Disposable and simple to use. (Box of 64).

5702091

**Goldmann Three Mirror Laser Lenses**
The Classic Goldmann Lens. Made from acrylic with lumenised-coated protective glass. Designed to work with argon/YAG lasers. All lenses have the original mirror angles by Goldmann: 59/66/73 degrees. 903L.

5702080

CLEANING & DISINFECTING

**Volk Cleaning Cloths**
Volk precision optical lens cleaner consists of a highly absorbent, lint-free optical towlette moistened to an exact saturation level, with a unique combination of oil removers and cleaning agents. Ideal for use on Volk lenses, microscope eyepieces, cameras and other precision optical surfaces. (Box of 24).

1549900
5. ORTHOPTIC EQUIPMENT

SYNOPTOPHORES & SLIDES

Synoptophore Model 2001
The most comprehensive model in the range, for all standard measurements and treatments: angle alpha (kappa), objective angle, abnormal retinal correspondence, cyclo and vertical phorias and both horizontal and vertical vergences. The flashing unit stimulates eyes simultaneously or alternately and manual flashing and dimming rheostats are standard controls. High intensity halogen light provides after images. Removable Haidinger brush motor units in the 2001 model permit pleoptic assessment and treatment for eccentric fixation and ARC.

Synoptophore Model 2002
This model combines all the features of Model 2001 with the exception of the Haidinger's Brushes device. It is the standard instrument for the busy clinic and ideal for the assessment and treatment of patients needing orthoptic care or management.

Synoptophore Model 2003
The basic model Synoptophore provides all the standard measurements and treatments including assessment of the angle alpha, the objective angle, abnormal retina correspondence, cyclophoria, hyperphoria and horizontal vertical vergences. Manual flashing switches and independent dimming rheostats are provided as standard.

Synoptophore Slides
- Series A, Maddox test
- Series D, stereoscopic vision
- Series F, fusion
- Series G, simultaneous perception
- Series H, simultaneous perception
- Mayou series of eight slides
- Series S, special purpose slides

Synoptophore Slide Sets
6411002 Set of twelve pairs for Model 2002/3 (D5/6, D51/52, D61/62, D71/72, F31/32, F71/72, F81/82, F177/178, G15/16, G47/48, G55/56, G65/66)
6413002 Set of eight Mayou slides
6414005 Set of Braddick Random Dot graded stereo slides

For a full list of Synoptophore slides, please refer to the HS-UK Synoptophore Slide Catalogue, available at https://hsuk.co/slidecatalogue
GENERAL ORTHOPTIC EQUIPMENT

Children’s Fixation Bar
An ideal orthoptic aid specifically designed to aid children’s fixation during the prism and cover test and other orthoptic assessments. It has attractive coloured objects on one side and two reduced test types and a passage of N5 reading type on the reverse.

- 7004001  Original Budgie/policeman fixation stick
- 7004002  Pirate/Dog fixation stick
- 7004003  Fish/Dog fixation stick
- 7004004  Fairy/Cat fixation stick

Lang Fixation Cube
Cube mounted on holder with brightly coloured pictures on five faces of the cube. Designed to attract attention during examination.

- 7004010  Lang cube no.1 (White handle)
- 7004012  Lang cube no.2 (Red handle)

Lang Fixation Bar
A white bar with brightly coloured pictures of varying sizes on one side and a near vision test on the reverse. Designed primarily to attract and hold attention during examinations.

- 7004011

Kay Fixation Stick
These colourful sticks are ideal for keeping a child’s attention during cover tests. Each stick contains pictures and letters.

- 4116120  single fixation stick
- 4116121  pack of 3

Bagolini Lorgnette
Similar to the Bagolini striated lenses but is presented in a convenient lorgnette format.

- 7207005

Franceschetti Maddox Rod
The large diameter combined with a long handle facilitates examination of muscle balance. Twirling in the same manner as the cross allows the horizontal and vertical phorias to be checked in quick succession.

- 4365001
GENERAL ORTHOPTIC EQUIPMENT

**Maddox Wing Test**
A convenient hand-held, quick and efficient near test for heterophoria. Esophoria and exophoria are measured by the horizontal scale. Hyperphoria is measured on the red vertical scale. Cyclophoria may be assessed by moving the red arrow pointer parallel to the horizontal scale. Each eye piece has cell spaces to accommodate the patient’s near prescription if required.

7005001

**RAF Binocular Gauge**
For determining the objective and subjective convergence points. The mask eye and measuring accommodation. Consists of a light weight bar, 500mm in length, on which a sliding four-sided drum is mounted, with different tests on each panel.

7006001

**Maddox Phoria Measure**
A quick and cost-effective way of measuring Phoria imbalances. A combination of a Maddox Multiple Rod coincident with a rotatable prism. Can be used horizontally and vertically with either eye to detect the presence of Heterophoria. The orientation is clearly indicated by the printed arrows on the handle.

7005050

**Bagolini Red Filter Bar**
The Bagolini Filter Bar is used to investigate the depth of suppression in patients with amblyopia up to the age of 7 years. This instrument consists of a series of red filters of increasing density from very pale to very dark. This decreases the illumination in front of the fixating eye to induce fixation with the deviating eye and therefore diplopia.

1549223

**Thumb Bar Readers**
Used for exercising binocular vision at home or school. It is held against the centre of the page of reading material. Sold in packs of 10. (Red.)

7313010

**Near Point Dot Card**
Card to measure the near point of convergence and for home exercises. Range is from 6cm to 24cm. Sold in packs of 50.

4116110
Stereograms
These are printed on thin card and are suitable to give to patients for home training purposes. Fusion and stereoscopic.

- 7309001 Cat
- 7309002 Open bucket
- 7309003 Closed bucket
- 7309005 1-2-3
- 7309006 Mayou graduated stereograms

Solid Prism Bars
Similar to prism bars, but manufactured in a solid, one piece, bar of plastic.
Power range as follows:
Horizontal: 1, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 35, 40Δ, plus an additional loose 45Δ prism
Vertical: 1, 2, 3, 4, 5, 6, 8, 10, 12, 14, 16, 18, 20, 25Δ, plus an additional 30Δ loose prism. Available as individual bars or as a pair in a case.

1561380 Pair of horizontal and vertical solid prism bars
7108101 Horizontal prism bar only
7108201 Vertical prism bar only

Plastic Prisms
Universal or square plastic prisms are useful for a number of orthoptic and ophthalmic test procedures. Available in various set sizes and as single plastic prisms.
For a full list of Plastic Prisms, please visit https://hsuk.co/looseprisms

Fresnel Prisms
Consist of very thin plastic membranes measuring only 1mm thick utilising the Fresnel principle of tiny lens and prism segments. May be cut to fit most frame sizes and shapes and are simply attached to the existing spectacle lenses. The membranes can be cut into small segments when bi-focal lenses are affected. Light weight and cosmetically superior to glass especially when high powers are required.
Available in a range of powers: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 15, 20, 25, 30, 35, 40Δ
For a full list of Fresnel Prisms, please visit https://hsuk.co/fresnelprisms
OCCLUSION FOILS

**Bangerter**
A system of graded foils to equalise the spatial contrast of the dominant to that of the amblyopic eye.

- **7103990** 1.0 Bangerter Graded Occlusion Foil (visual acuity ~6/6 or 20/20)
- **7103991** 0.8 Bangerter Graded Occlusion Foil (visual acuity ~6/7.5 or 20/25)
- **7103992** 0.6 Bangerter Graded Occlusion Foil (visual acuity ~6/9 or 20/30)
- **7103993** 0.4 Bangerter Graded Occlusion Foil (visual acuity ~6/15 or 20/50)
- **7103994** 0.3 Bangerter Graded Occlusion Foil (visual acuity ~6/21 or 20/70)
- **7103995** 0.2 Bangerter Graded Occlusion Foil (visual acuity ~6/30 or 20/100)
- **7103996** 0.1 Bangerter Graded Occlusion Foil (visual acuity ~6/60 or 20/200)
- **7103997** <0.1 Bangerter Graded Occlusion Foil (visual acuity <6/90 or 20/300)
- **7103998** Light Perception Bangerter Foil
- **7103999** 00 Bangerter Foil
- **7103989** Bangerter Foil bar
TORCHES

**Professional Penlite**
For quick and effective evaluation of the pupillary reflex. Robust, attractive penlight with matte black finish using high intensity halogen light for true tissue colour rendition and long lasting consistent illumination. Durable solid brass construction. Uses 2 x AA batteries.

1717158

**Reusable Pen Torch**
Black pen torch for corneal reflections, pupil assessment and extra-ocular motility testing. Use 2 x AA batteries (included). Operates by twisting body of torch.

1424001

**Disposable Pen Torch**
Uses 2 x AA batteries (included). Operates by pressing clip to contact. (Supplied in packs of 6).

7614050

LOUPES

**Plastic Headband Loupe**
A simple, lightweight loupe. The comfortable, continuous headband is fully adjustable to fit any size. Adjustable pivot knobs hold visor in any position for easy flip-up viewing. Provides magnification of x2.5.

6104001

**Heine ML4 Headlight Loupe**
The Heine ML4 Headlight LED loupe offers optimal LED illumination, a wide range of magnification options and a lightweight professional design for fatigue-free working.

1717600

ALGER BRUSH

**Alger Brush MkII**
A gentle yet highly effective corneal rust ring remover. Runs off 1 x AA battery, no switches, simply spin mandrel to operate.

6301001 Alger brush, 1mm burr
6301003 Alger Brush, 1/2mm burr
6301002 Replacement burr, 1mm burr
6301004 Replacement burr, 1/2mm burr
Schirmer Tear Test

Useful for determining total lachrymal secretion and provides useful information prior to the fitting of contact lenses. (50 pairs of individually sterile tests in each box).

4701001
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