Automated Wireless Phoropter

- **Wireless**
  Wireless data transfer allows one to easily load the auto refraction measurements into the Remote Vision.

- **Remote control**
  Control all refractor operations and the NP-3S chart projector from the wireless remote control.

- **Fully programmable**
  Fully programmable refraction sequences allow expedited refractions.

- **Easy to operate**
  One-dial remote control makes operation very easy.

- **Accurate**
  Integration of the refraction process increases speed and accuracy.

- **Fast**
  Fast and easy one button comparisons between old glasses, auto refraction and subjective refraction.

- **Illuminated**
  Illuminated LED heads-up display ensures that the operator can comfortably see the lens phoroptor presentation even in darkened rooms.

- **Better than the rest!**
  Performs any test that a conventional refractor can do much faster and easier!

**Perfect practice technology in wireless communication.**
**PDR-7000 Digital Refractor**

**Specification:**
- **Spherical range:** +29.00 ~ +26.75D (Regular)
- **Cylinder lens:** 0.00 ~ +8.75D (0.25D/1D/2D/3D increments)
- **Cylinder axis:** 0° ~ 180° (1°/5°/15° increments)
- **PD:** 48 ~ 80mm (0.51mm increments at far mode)
- **Rotary prism:** 0 ~ 20 (0.1D / 0.5D / 2D increments)
- **Cross cylinder:** ±25D
- **Auxiliary lens:** +1.5D, +2.0D
- **Occulder:**
- **Pen hole lens:**
- **Maddox rod:** Right Eye (Red, Horizontal) Left Eye (Red vertical)
- **Red/green filter:** Right eye (Red) Left eye (Green)
- **Polarising filter:** Right eye (135°, 45°), Left eye (45°, 135°)
- **Split prism:** Right eye (6∆ BU), Left eye (10∆ BI)
- **PD check lens:** ±0.25D
- **Fixed cross cylinder:** +0.50D (fixed with the axis set at 90°)

**Standard Accessories**
- 1 near point card with holder and reading rod.
- Dust cover.
- Face shield.
- Accessory case for lenses.
- Dimensions 318x293x96(mm).

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**RT-3000 Manual Phoropter**

**Specification:**
- **Sphere power:** Range: +16.75 to -19.00 diopters
- **Step:** 0.25 diopters
- **Cylinder power:** Range: 0.00 to -6.00 diopters
  - (0.00 to -8.00 diopters with additional lens of -2.00 diopters)
- **Step:** 0.25 diopters.
- **Cylinder axis:** 0° ~ 180°, 5° steps.
- **Cross cylinder:** ±25 diopters.
- **Rotary prism:** 0 ~ 20, 1 steps.
- **Auxiliary lens dial:** (0) Open aperture (two positions),
  - (R) Retinoscopic lens, +1.50D.
  - (P) Polarizing lens.
- **PD Adjustment:** 48 ~ 75mm, 1mm steps.
- **Standard accessory lenses:** Two -12D and -2.00 cylinder lenses, two plano lenses for sealing front opening.

**Standard Accessories**
- 1 near point card with holder and reading rod.
- Dust cover.
- Face shield.
- Accessory case for lenses.
- Dimensions 318x293x96(mm).
Hand Held Auto Refractor/Keratometer

Retinomax 3 Hand Held Auto Refractor
Retinomax K-plus 3 Hand Held Autorefractor/Keratometer

The Retinomax Series is the world’s leading handheld Refractor and Ref/Keratometer, now boasting greater mobility, stability and accuracy.

Ideal for: Ward use, pre & post op, wheelchair patients, young children and adults.

Specification:
Share between offices or between rooms - the Retinomax is a full function hand held autorefractor that can be used anywhere. Measure patients in any position, in a hospital bed, in a wheelchair or in your pre-test room. Great for screening at a school or nursing home. Battery operation for mobile and domiciliary use.

Functional
The Retinomax has full measurement range and advanced measurement modes. The instrument begins reading the instant that alignment and focus is achieved. Measurements are terminated automatically when complete. Faster measurement times are complemented by increased accuracy. A retro illumination function highlights media opacities.

Perfect for children
The elimination of the chin rest makes the examination procedure easier, more relaxed and fun for children. A melody function makes the Retinomax perfect for even the smallest child.

Get Keratometry with the Retinomax K-Plus 3
Simultaneous refraction and keratometry measurements. Peripheral measurements can be obtained with minimal change in measurement time and no additional steps for the operator.

PRK-5000 Auto Refractor/ Keratometer

Specification:
- Contact Lens Base Curve Measurement
- Vertex Distance (VD) 0.0, 12.0, 13.5.
- Sphere (SPH) -25.00~+22.00D
- Cylinder (CYL) 0.00~°æ10.00D
- Axis (AX) 1∞ ~180∞ (Increments : 1∞)
- Cylinder Form -,+,MIX
- Pupil Distance (PD) 10~85mm.
- Minimum Pupil Diameter ÿ2.0mm.
- Radius of Curvature 5.0~10.2mm
- Corneal Power 33.00~67.50D.
- Corneal astigmatism 0.00 ~ -15.00D
- Axis 1∞ ~180∞

PRK-6000 Auto Refractor Keratometer

Combined Auto Refractor/Keratometer

Specification:
- Fast and highly accurate simultaneous Refraction and K readings
- Peripheral Keratometry checks for irregular astigmatism
- Auto focus/fire mechanisms
- Motorised chin rest for patient & operator convenience
- Diameter measurement of cornea and pupil size.
- Fast internal printer with auto guillotine cutter.
- Large tiltable TFT-LCD colour touch screen.
- IOL measurement feature.

SW-100-hand held Auto Keratometer

Features:
- Auto multiple K readings.
- New simple to use led alignment system.
- No effects from ambient light.
- Cordless operation, powered via AA batteries.
- Optional infra red remote printer.
- Priced similarly to a manual Keratometer!
Auto Refractor/Keratometer

**Speedy-1 Auto Refractor Speedy K Auto Refractor/Keratometer**

**Accurate**
Advanced engineering and unique technology make the Speedy auto refractors the most accurate available. Rapid acquisition of data optimises measurements by reducing testing time. The medical retro-illumination mode allows the lens to be observed, and media opacities illuminated and identified.

**Fast**
Readings are initiated the instant that alignment and focus is achieved and measurements are terminated automatically when complete. Measurements are taken in a fraction of a second: 0.01 second for Speedy-1 and 0.35 second when Keratometry is taken with the Speedy-K. Perfect for children and patients who require rapid measurement acquisition.

**Easy**
Large 5.5 inch high resolution monitor allows easy alignment and focusing. The most user friendly acquisition of auto refractors available.

**Get Keratometry with the Speedy-K**
Simultaneous refraction and keratometry measurements are taken in 0.35 seconds. Four peripheral measurements can be obtained with minimal change in measurement time (0.45 seconds) and no additional steps for the operator. Contact lens holder is included to allow measurement of the curvature of contact lenses.

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**Grand Seiko Warn-5500 Binocular Accommodation Auto Refractor/ Keratometer**

**Specification:**
- Measurement with both eyes - less instrumental Myopia
- Hi Speed Mode - Faster Measurement - it can measure five (5) times per second
- AM Mode - measures the pupil diameter at 0.1mm step (minimum 2mm) simultaneously with refractive value
- Easy Measurement - measure a patient with glasses and contact lens or a patient with the IOL
- Built in thermal printer
- Data transfer port

**Oculus PARK-1 Auto Refractor/ Keratometer/ Pachymeter**

**Specification:**
- 3 in one solution
- Auto Refraction
- Auto Keratometry
- Auto non contact Pachymetry (satisfies NICE guidelines)
- Average corneal thickness and specified corneal thickness measurement
- Automatic IOP adjustment based on corneal thickness
- 3D intelligent auto alignment
- Auto fire
- Motorised chin rest
- Built in thermal printer
- Large colour LCD screen
- Data transfer port

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E-mail: sales@bibonline.co.uk  Telephone: 01438 740823  Web: www.bibonline.co.uk
CCQ 800 Auto Lensmeter

**Specification:**
- Advanced third generation technology
- Hartmann measuring method
- Green LED light, direct power reading, no abbe compensation.
- Complete and accurate power measurement of spherical and cylindrical lens, progressive power lens, soft and hard contact lens.
- Measurement of low UV transmittance lens and low astigmatis lens.
- Large TFT touch screen.
- Simple and easy operation.
- High speed thermal printer.

Visionix VL1000 Automatic Lensmeter

**Specification:**
- Easy to use
- Intuitive user interface
- LCD display
- Sphere power 25.00D
- Cyl. power 10.00D
- Cyl. axis 0~±180° (1°)
- Add power 0~+10D
- Prism power 0~10∆
- Sampling speed 0.016 sec
- LED wavelength 630nm
- Cylinder -,+,
- Prism rectangular/polar/displacement
- Abbe values, manual compensation
- Weight approx. 5.5kg
- Data output RS-232C

GL7000 Lensmeter

**Specification:**
- Built in thermal printer
- Marking system ink cartridge type
- Ideal for front of shop or laboratory use
- World proven track record for accuracy, stability & consistency
- Easy to use and understand featuring large user symbols
- Measurement Range:
  - Sphere (S) -25~+25D (0.01/0.12/0.25D step)
  - Cylinder (C) 0~±10D (0.01/0.12/0.25D step)
  - Axis (A) 180°(1° step)
  - Addition 0~+100 (0.01/0.12/0.25D step)
  - Prism 0~10L (0.01/0.12/0.25L step)
- Wavelength: 660nm
- Lens: Glasses Lens, Hard/Soft Contact Lens
- Lens Size: Max200mm
- Monitor: 5.7 inch LCD Monitor (Colour)
- Printer: Thermal Printer (Width68mm) [GL-7000 Only]
- Dimension: (W) 200mmX (D) 395mmX (H) 365mm
- Weight: 6kg
- Output Power: RS-232C Interface
- Supply: 100-240V 50/60Hz
- Consumption: 40VA
- Power Save: OFF, 3, 5, 10min. (Selectable)
Manual Lensmeters

Digital Projection Lensmeter with Prism Compensator

Specification:
- Clearly visible test mark.
- Illuminated digital display for easy reading.
- Wide measurement range +/- 25D.
- Sturdy glass ruler made of metal.
- With integrated printer.
- Easy to use marking device.
- Ordinary marking ink can be used.
- Easy bulb changing.

LM2-C

An upright version of standard eye piece type. Lens table in horizontal position allows easier positioning of lens or spectacle frame.

Specification:
- Internal reading scale.
- Prism compensator.
- Target type, dotted circle & cross hairs.

LM1-C

Mitron

Specification:
- Ocular eyepiece focimeter.
- Internal reading.
- Built in prism compensator.
- Target type.
- Corona and cross hair.

LM-9C

Mitron

Specification:
- Internal reading scale.
- Classic vertical/ horizontal cross hair.
- Target with corona dotted circle.
- 360 degree adjustable protractor line.
- LED illumination: no bulb required.
- Low voltage.
- battery operated.
- Prism compensation optional.
Pola Vista Vision

**Specification:**
- High technology
- All in one 22" POLA Visual Acuity Tester

**Features:**
- 100% separation and equal background
- Image separation created through the most improved polarisation technique eliminates ghost images
- Without any additional items, POLA Vista Vision allows the generation of optotypes with positive polarisation
- LCD 22inch wide screen (1680 x 1050), anti glare, calibrated constant certified luminance
- Wall mounting and portable
- Completely silent (no fan noise)
- Computer integrated; fast on and instant off (embedded linux operating system)
- Dynamic tests based on parameters and distance
- All letters chart with random and contrast sensitivity function
- Complete, precise and versatile software for a fast acuity evaluation: programmable patient’s vision examination
- Free internet upgrade software USB Key
- Long-life, up to date technology

**Also available**
Wide Vista Vision (no polarisation)

Vista Vision Remote Panel

**Specification:**
- Interact with Vista Vision
- Direct Control
- Simple & intuitive
- LCD 7” screen
- Table top standing
- Embedded linux system

**Specifications:**
- Slim design
- Easy to install
- 37 charts
- Can save 38 images
- Adjustment of the test distance
- Convenient functions for the user

**Charts Include**
- Astigmatic angle, binocular vision, heterophoria, stereopsis, mask (vertical, horizontal, single, plus many more)

AcuScreen

**Specification:**
- Acuscreen Software, two licences as standard
- Additional licences available upon request
- Requires suitable PC, a 15 or 17 inch flat screen LCD monitor
- Can be used between 1.5 & 7 meters
- Image reversible if used via a mirror
- Optional remote control available

**Charts Include**
- UK snellen letters, numbers, arabic, logmar, contrast sensitivity, dual fixation disparity, concentric circles, duochrome, cross cyl power & axis target (peppered dots), fixation point, childrens fixation targets, animated childrens fixation targets, patient educational images.

**AT-20R Visual Function Tester**

The AT-20R Visual Function Tester is an award-winning handheld solution for patient acuity testing. Utilising a standard Windows™ workstation and a bluetooth connection, the AT-20R uses your currently existing hardware as a means for display and offers completely wireless control.

**Specification:**
- Various fixation targets, including animated targets for children
- Random letter generation prevents chart memorisation
- Astigmatism measurement
- Duochrome targets
- Binocular vision tests
- Gratings displays
- Cross cylinder targets

**E-mail:** sales@bibonline.co.uk  **Telephone:** 01438 740823  **Web:** www.bibonline.co.uk
Fully Automated Chart Projector

The PACP-7000L chart projector guarantees accurate and efficient optometry tests. High quality with a wide range of features.

**Specification:**
- Boasts the largest chart selection available, 42 in total
- Ease of use.
- Individual keys for each chart via infra red control.
- All acuity charts in UK Snellen.
- Energy saving.
- Brighter and sharper image, aiding a more accurate refraction.
- Test in a well lit room without losing definition.
- Peace of mind, never have to change another bulb.

NP-3s and NP-3sv Chart Projector

**Specification:**
- 32 test charts featuring a comprehensive range of tests.
- Infra red remote control.
- Rapid tests change 0.33 seconds.
- Auto stand by mode after 10 minutes of non use.
- Single or multiple Optotype presentation.
- 2 programmable test sequences of up to 30 tests.
- Red and green filter can be used with every test chart.
- Switch in polarisation filter.
- High quality optics and halogen illumination result in brilliant presentation of tests.
- Tests include Landholt rings, numbers, letters, illiterate Es, children’s tests, balance, schober worth, fan, binocular tests etc.
OCULUS UB4 Trial Frame
Discover the award-winning new Universal Trial Frame (UB4). Introducing the ergonomic refraction design from Oculus that's easier to use and easier to wear. This lightweight device lets you change up to five pairs of DIN or BSI-norm 38mm diameter trial lenses quickly. Separate right and left PD adjustments from 46-80 mm. Easily adjustable nose piece, side length, and angle ensure patient comfort. Closed side design keeps hair from being trapped. With adult and paediatric nose rests.

OCULUS UB3
Universal Trial Frame
A true product of German precision, this traditional refraction device for up to five pairs of trial lenses has been the standard for quality around the globe.

OCULUS
Half Eye with Options
The same precision engineering, same lightweight material. Designed to accommodate three pairs of 38 mm half lenses. PD adjusts from 59-67 mm. Fixed bridge with adjustable sides.
Options:
• Adjustable nose rest
• Adult and Childrens with or without nose piece.

MSD
Universal Trial Frame

Trial Lens Sets

C.I.O.M. Trial Sets
C.I.O.M Domiciliary Set (1)
Spheres, cylinders, prisms, accessories
C.I.O.M Portable Set (2)
Spheres, cylinders, prisms, accessories
C.I.O.M. Trial Set (3)
Spheres, cylinders, prisms, accessories

BiB Full Aperture Trial Lens Set
BiB Full Aperture Trial Lens Set
Features
• Coloured metallic rims
• 232pcs in case

BiB
Reduced Aperture Set in 232pcs Lenses
• Available in Plastic or Metal

E-mail: sales@bibonline.co.uk  Telephone: 01438 740823  Web: www.bibonline.co.uk
Test Types

Supreme Test Type (inc fan and block)

Petite Test Type

Sussex Domiciliary Unit

Sussex Slimline Test Chart

Single Panel Test Chart
3 or 6 metre

Four Sided Test Type
(available in manual or motorised form)

Supplements

MacuShield is a unique carotenoid eye supplement tested at leading research institutions and endorsed by eye care professionals.

Scientists have long known that the yellow colour, or pigment, inside the macular comes from the carotenoids, lutein, zeaxanthin, and meso-zeaxanthin. These plant compounds help protect the eye by absorbing blue light and neutralising free radicals.

The patented blend in Macushield brings together all three of these carotenoids (meso-zeaxanthin, lutein & zeaxanthin) to help maintain eye health and more specifically, macular health throughout later years.

For more detailed information please visit www.macushield.co.uk

Available in 30 day, 90 day & a starter pack including 10 packs of 30 day, 4 packs of 90 day, a display box, posters and patient leaflets.
BiB Ophthalmic Instruments aim is to be the preferred supplier to all of the Optical Industry by offering the very latest technologies from some of the world’s leading manufactures, on time and at a price that ensures value for money for all our customers.