Dangers of Ultraviolet Radiation to Children’s Eyes

Although ultraviolet radiation is invisible to the human eye, most people are aware of the effects of UV through sunburn, and tanning beds. A great deal (>97%) of mid-range ultraviolet (almost all UV above 280nm and most above 315nm) is blocked by the ozone layer, and would cause much damage to living organisms if it penetrated the atmosphere. After atmospheric filtering, only about 3% of the total energy of sunlight at the zenith is ultraviolet, and much of this is near-ultraviolet that does not cause sunburn. An even smaller fraction is responsible for sunburn and the formation of vitamin D (peak production between 295 and 297nm) in all organisms that make this vitamin (including humans). The UV spectrum thus has many effects, both beneficial and damaging, to human health such as eyes.

High intensities of UV light are hazardous to the eyes, and exposure can cause welder’s flash (photokeratitis or arc eye) and has been linked to eye damage, including cataracts, macular degeneration, pterygia, and photokeratitis that can cause temporary vision loss. UV light is absorbed by molecules known as chromophores, which are present in the eye cells and tissues. Chromophores absorb light energy from the various wavelengths at different rates – a pattern known as absorption spectrum. If too much UV light is absorbed, eye structures such as the cornea, the lens and the retina can be damaged.

To protect your eyes from harmful solar radiation, sunglasses should block 100% of UV rays. Frames with a close-fitting wraparound style provide the best protection because they limit how much stray sunlight reaches your eyes from above and beyond.

Optegra, the specialist eye hospital group, is the first in the UK to offer patients the advanced LensAR Femtosecond Cataract Laser by Topcon.

Available at its new Optegra Eye Hospital, London, the LensAR system will be operated by a team of consultant ophthalmic surgeons led by Sundeep Kheterpal, Director of Laser Cataract Surgery for Optegra.

Mr Kheterpal said: “Optegra has invested in this latest equipment to ensure we continue to offer the best possible service to our patients. Suitable for treatment of patients having both cataract surgery and Clarivu™ permanent lens replacement, the LensAR system has been designed to enhance the accuracy of surgery.”

The advantages of LensAR include full 3D custom imaging (CSI) of each individual eye – both posterior and anterior – to ensure precision and reproducibility. This enables the laser technology to perform laser incisions which are...
Topcon Celebrates its 80th Anniversary

In September 2012, Topcon Corporation has marked 80 years of bringing innovation to eyecare professionals worldwide.

From its start in 1932, manu facturing optical equipment including binoculars and cameras, to today with its product line that includes the KR-1W Wavefront Analyzer and the DRI OCT-1 deep range imaging OCT, Topcon continues to set the standard of bringing new technology to eyecare professionals.

Topcon has been in Europe since 1970 with Topcon Europe headquarters in The Netherlands, and several subsidiaries in Denmark, France, Germany, Ireland, Italy, Poland, Portugal, Spain, Sweden, and the UK.

What would you do if...

With technological advances in both optometric and ophthalmic sectors reaching new heights, do you worry about the implications to you and your patients of such technologies malfunctioning?

Following extensive research and upon suggestions from customers, Topcon are proud to introduce their top five Topcon Technical Support Service options:

» TopCare/All-Inc Contract – this covers your instrument for call-outs to your location, spare parts, and labour to ensure that your instrument stays fully functional. Guaranteed response time within 48 hours to provide a solution and free loan instruments to cover repairs (subject to availability). Annual service visit not included.

» Planned Preventative Maintenance (PPM) Contract – an annual service visit to clean, service, calibrate, check electrical safety and equipment functionality, to ensure the integrity of your instrument.

» Remote Support Contract – remote connection to your PC or server via the internet to diagnose and resolve your software issues.

» Remote Backup – daily back up of your IMAGEnet i-Base and OCT data, and any other software/data to a secure off-site location, giving you peace of mind that all your data is safe.

» Non-contract support – telephone, remote connection to your PC or an engineer onsite to visit, to resolve the problem you are experiencing. Each of the services will be individually charged at the standard rate.

more info
Contact Topcon
 t: 01635 551120
 e: medical@topcon.co.uk

Deep range imaging. See further beneath the surface than we have ever seen before...

In 2007 Topcon introduced the first Fourier Domain (Spectral Domain) OCT machine. Other manufacturers followed with similar solutions. These advancements enabled far more detail to be recorded although tissue penetration remained similar, the difference in capture technique allowed for faster capture of more scans bringing to the market 3D imagery as cubes of data, hence the name 3D OCT. Whilst this was the given name to the Topcon instrument, 3D OCT was soon adopted as the generic term for Spectral or Fourier Domain OCT machines.

This year, Topcon launch the next generation of OCT technology, Swept Source OCT; a whole new concept to OCT capture. Many manufacturers have developed ways to illustrate particular levels of the retina in high detail, Choroid or Vitreous mode within the Topcon product range and EDI (enhanced depth imaging) in others. Swept Source does away with this.

Swept Source operates at a higher wavelength (1050nm) which penetrates tissue and structure that lesser wave lengths cannot. Topcon have doubled the speed to 100,000 scans per second, negating the need for complex tracking facilities that lengthen the capture process. Scans are acquired at the same time as a traditional fundus photograph.

I-Clarity User Group, a great success

On 3rd December 2012 Topcon hosted its inaugural i-Clarity User Group Meeting in Solihull to provide an opportunity to review i-Clarity to ensure users are maximising the benefits for their practices, as well as sharing ideas and to provide input into future developments.

The day commenced with a review of the key features including new enhancements from recent releases and the new integration with Topcon OCT, fundus cameras & digital capture systems. Rob Ward, i-Clarity designer, discussed “Putting i-Clarity at the heart of your practice” which met with a great deal of interest.

Announcing the launch of i-Clarity & Captiv8 integration, Dr Trust Dave of Optimed spoke about Captiv8 which provides a fantastic platform for practices to market to their client base as well as providing truly amazing 3D animations. Captiv8 can be delivered, through i-Clarity, to patients as one offs, or incorporated in a recall system or as part of a specific marketing campaign.

Optometrist, Nick Rumney of BBR Optometrists, being one of the first customers to install i-Clarity, told the Group how he adapted it for his practice, making it pay and maximising ROI.

Nigel Bedford, Product Manager of i-Clarity stated “feedback from the attendees was extremely positive and it provided a great opportunity to exchange ideas to make sure i-Clarity continues to grow with the needs of our ever increasing user base”.

Manchester Royal Eye Hospital (MREH) and Moorfields Eye Hospital are amongst the early adopters of this groundbreaking technology. Professor Paulo Stanga from MREH said “the Topcon DRi OCT-1 Atlantes has revolutionised our diagnostic facilities. With Swept Source OCT, we have been able to easily view outer retinal structures, such as Outer Retina Tubulation in AMD, with higher resolution than with Fourier Domain OCT technology. Reaching this diagnosis has spared some patients unnecessary intravitreal anti-VEGF injections. Also, for the first time we have been able to view in vivo the anatomy of the cortical vitreous in higher detail. Having the most advanced technology available is important to quickly reach a diagnosis and manage complex vitreoretinal cases. Working with Topcon on Swept Source OCT technology and to have the first new OCT machine at the MREH is a testament to our commitment to the very best eye care.”
Precise IOL Power Calculation is no longer a dream – it’s a reality!

Many surgeons have been worried about keratometry from the previously available devices when it comes to astigmatic correction. The ALADDIN comes with placid based topography.

The ALADDIN was developed with three key points in mind: speed, accuracy and ease of use.

The ALADDIN uses optical low coherence interferometry and because of its design is thought to be able to measure a very high percentage of eyes regardless of type of cataract.

The topographer analyses approximately 1000 datapoints at a 3mm diameter. This topography based keratometry figure is provided for use within IOL calculation formula.

In addition, the ALADDIN has three summary reporting layouts: the IOL Power report for overview of IOL spherical power for any given IOL model or IOL formula for both eyes; the Measurement report for overview of all measurements made for both eyes; and the ALADDIN report for overview of important topographical and papillary features of both eyes that influence premium IOL choice.

Moreover, very detailed data on every single measurement feature such as the corneal topography can also be printed directly from the individual data screens.

The ALADDIN is an exciting addition to the available biometry machines. It is extremely fast and convenient to use, especially if one considers that one automatically gets a topography within the series of measurements. It stands capable of rapidly becoming the gold standard for refractive cataract surgeons.
**Topdeals**

Special offers across the entire Topcon range. All offers end 30th April 2013. Subject to stock availability. Call 01635 551120 or email medical@topcon.co.uk

---

### Auto refractors/Keratometers

**KR-800 & RM-800**

- **KR-800** £5,520
  - Auto refractor/keratometer
  - Saving £920 (RRP £6,440)

- **RM-800** £4,650
  - Auto refractor
  - Saving £770 (RRP £5,420)

**Key features:**
- Smaller with 180° tiltable screen allowing small footprint
- Incorporates rotating prism for best objective refraction results
- Down to 2mm pupil
- Easy-to-read colour LCD display
- Auto capture for fast, reliable data collection
- Built-in printer and IMAGEnet i-base connection.

**TRK-1P**

- **Huge saving £11,995**
  - Saving £5,241 (RRP £17,236)

- **4 in 1 instrument:** refractometer/keratometer/tonometer and pachymeter.

**Key features:**
- Quick measurement acquisition of four key optometric tools in a single footprint.

---

### Analysers & Topographers

**KR-1W**

- **Now £21,995**
  - Saving £6,506 (RRP £28,503)

**Henson 8000**

- **Only £6,700**
  - Saving £572 (RRP £7,272)
  - Visual fields analyser
  - Offers both full threshold and suprathreshold test strategies
  - ZATA tests included, which significantly speed up threshold test
  - DVLA approved
  - Complete on table with printer.

**Henson 7000**

- **Just £3,590**
  - Saving £405 (RRP £3,995)
  - Central field analyser
  - Key features: complete visual field analysis in less than two minutes per eye
  - Suprathreshold testing
  - Can be controlled via standard laptop or PC
  - Portable
  - Motorised adjustable patient unit for increased comfort.

**MPS II**

- **Introductory offer £3,995**
  - Saving £2,000 (RRP £5,995)

**CA-200F**

- **Only £5,250**
  - Saving £1,373 (RRP £6,623)

**Corneal topographer**

- Key features: simulated Wavefront and Zernike analysis, video for live fluorescein capture of the cornea – used for checking contact lens fits. Can be used as a standalone measurement instrument or connect to a PC to database its patient’s results for future comparison.

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## Lensmeters

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<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Saving</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LM-8 &amp; 8C</td>
<td>Now only £795</td>
<td>Saving £218  (RRP £1,013)</td>
<td>Key features: newly designed eyepiece minimises shading effect; easy conformation of internal scale and target observation; irritation free measurement.</td>
</tr>
<tr>
<td>CL-100PL</td>
<td>Only £1,425</td>
<td>Saving £356  (RRP £1,781)</td>
<td>Key features: fast and accurate measurement data for all types of hard and soft contact lenses; simple and easy to understand graphic display for ADD power and S.C.A. data.</td>
</tr>
<tr>
<td>CL-300PDL</td>
<td>Now £2,150</td>
<td>Saving £522  (RRP £2,672)</td>
<td>Key features: modern design, colour LCD screen; ‘Green Beam’ laser technology. Comes complete with printer and can link to Topcon i-Base refraction software.</td>
</tr>
</tbody>
</table>

## Slit Lamps & accessories

**Special Bundles**

- **Huge saving £4,420**
  - **Reduced to £2,852**
  - **From £55,000**
  - **Optional integrated video teaching system available from £10,995**
  - Key features: short pulse duration; continuous laser pulse directed by three high speed galvanometers; precise pattern spacing; safety checks of galvo position and power.

- **Special price £5,530**
  - **From £55,000**
  - **Reduced to £2,852**
  - **From £65,000**
  - **Optional integrated video teaching system available from £10,995**
  - Key features: less scatter compared to 532 nm or other ‘yellow’ wavelengths (561/568 nm); less patient discomfort; less ‘spread’ after treatment; more efficient. Gives more consistent laser lesions without the need for constant power adjustments throughout the procedure.

- **Digital camera systems** fits SL-D8z; SL-D7; SL-D4 & SL-D2 slit lamps

## Photocoagulators

- **PASCAL Streamline 577**
  - **From £65,000**
  - Key features: less scatter compared to 532 nm or other ‘yellow’ wavelengths (561/568 nm); less patient discomfort; less ‘spread’ after treatment; more efficient. Gives more consistent laser lesions without the need for constant power adjustments throughout the procedure.

- **PASCAL Streamline 577**
  - **From £55,000**
  - Key features: short pulse duration; continuous laser pulse directed by three high speed galvanometers; precise pattern spacing; safety checks of galvo position and power.

## NB. Tables and tops where required are not included. All prices exclude VAT. Images for illustration purposes only.
### 3D OCT-2000

**Massive saving £39,995**

Saving £10,000 (RRP £49,995)

Ocular Coherence Tomograph

Key features: 50,000 b-scans per second; high resolution colour still and live fundus image capture. Includes glaucoma; drusen, optic disc and Ganglion Cell analyses.

### 3D OCT-2000 FA+

**Massive saving £49,995**

Saving £10,000 (RRP £59,995)

Ocular Coherence Tomograph

Key features: in addition to all of the functions and speed of the 3D OCT, the FA plus also has Auto Fluorescence, Red Free and Fluorescein Angiography of the fundus.

### TRC-NW300 Non-mydriatic

**Now only £12,680**

Saving £2,112 (RRP £14,792)

Key features: auto focus, auto exposure & auto shoot; auto small pupil detection; built in 8.2Mpx camera and free i-Base software.

### TRC-NW8 Non-mydriatic

**Reduced to £18,700**

Saving £3,123 (RRP £21,823)

Key features: in addition to all of the NW 8 functions, the FA Plus model offers Red Free, and Fluorescein Angiography & Auto Fluorescence imaging using an additional internal CCD camera. Comes complete on table with PC and software.

### TRC-NW8F Non-mydriatic

**Only £15,842**

Saving £2,641 (RRP £18,483)

Key features: in addition to all of the NW 8 functions, the F model offers RF 7 Fluorescein angiography using an additional internal CCD camera. Comes complete on table with PC and software.

### TRC-NW8FA+ Non-mydriatic

**Reduced to £18,700**

Saving £3,123 (RRP £21,823)

Key features: in addition to all of the NW 8 functions, the FA Plus model offers Red Free, and Fluorescein Angiography & Auto Fluorescence imaging using an additional internal CCD camera. Comes complete on table with PC and software.

---

**Did you know you can trade-in your old non-myd camera?** Price subject to age and condition

<table>
<thead>
<tr>
<th>Model</th>
<th>Saving (£)</th>
<th>RRP (£)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRC-NW8</td>
<td>£13,297</td>
<td>£15,513</td>
</tr>
<tr>
<td>TRC-NW8F</td>
<td>£15,842</td>
<td>£18,483</td>
</tr>
<tr>
<td>TRC-NW8FA+</td>
<td>£18,700</td>
<td>£21,823</td>
</tr>
</tbody>
</table>

**Key features:**
- Auto-shoot, auto-focus and auto-capture; available in 85°, 45°, 30° angles; panoramic overview with optional mosaic module; stereo photography. (Inc. 16Mpx D7000 Nikon digital camera; table; PC and i-Base advanced software.)

---

**One small step for Topcon, one giant leap for the profession.**

Make sure you visit the Topcon stands G80, G90, H80, H90

---

NB. Tables and tops where required are not included. All prices exclude VAT. Images for illustration purposes only.
**SP 3000**  Endothelial microscope

**Massive saving £14,252**

Saving £2,375  (RRP £16,627)

Non contact; auto capture endothelial microscope comes complete with analysis software.

Key features: three image capture modes (auto, semi-auto, manual); fast 3D auto alignment; five fixation targets allow simultaneous measuring. IMAGEnet i-base connection.

**CT 1 & 1P**  Non Contact Tonometer

**CV-5000s**  with KB50 controller

**CT 1 £5,950**

Saving £1,453  (RRP £7,403)

CT 1P £6,600

Saving £1,635  (RRP £8,235)

Key features: smaller; easier to use soft air puff to minimise patient discomfort; fully automatic; high accuracy; in built printer (1P model) and compatible with IMAGEnet i-base.

**Now only £7,750**

Saving £2,108  (RRP £9,858)

This latest product in the range is even more flexible allowing it to be used in conjunction with dedicated controller; PC or iPad.

---

**Topdeals from Topcon**

Call 01635 551120 or email medical@topcon.co.uk

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**Refraction stands**

**IS-500E**

Now £1,597

Saving £478  (RRP £2,075)

Refraction stand

Key features: compact design; includes double instrument table, small footprint; fresh and bright colour options available. Optional: chart projector arm, trial lens drawer. NB: Need to add chair

**IS-600 III**

Only £2,980

Saving £881  (RRP £3,861)

Refraction stand

Key features: versatile refraction stand; double table; vision tester arm and chair; LED reading light; dimming of room light; dimming of slit lamp illumination; safety stopper. NB: Need to add chair

**IS-1**

Just £3,138

Saving £1,347  (RRP £4,485)

Refraction stand with elevation

Key features: modular concept with the added benefit of table elevation. Available in various different colour & chair options. NB: Need to add chair

**IS-1D**

Only £4,215

Saving £1,539  (RRP £5,754)

Three table refraction stand

Key features: rotation arm for three separate instruments; table elevation and electro mag brake. Complete with chair and is suitable for disabled patients. Available in various different colour & chair options. NB: Need to add chair

**IS-1P**

Only £6,953

Saving £2,604  (RRP £9,557)

Refraction stand with elevation

Key features: parallel sliding table, modular concept with the added benefit of table elevation. Available in various different colour & chair options. NB: Need to add chair

---

NB. Tables and tops where required are not included. All prices exclude VAT. Images for illustration purposes only.
**Ocular products**

**PSL Portable slit lamp**
Very small and ergonomic slit lamp. Ideal for domiciliary use or where space is at a premium. Big slit lamp features for portable usability, including fixation targets; 10x & 16x magnifications.

*Now only £3,400 (RRP £3,900)*

**Free iPhone 4 adapter (worth £299)**
or **Free carrying case (worth £100)**
when you buy a PSL portable slit lamp

**Pulsair Intellipuff**
Non contact tonometer Small, compact and can be mounted on the wall or desk. It has a low pressure puff of air and lightweight ergonomic handpiece. Benefits from no on-going disposable costs.

*Just £2,995*

**Specialist Ophthalmoscope**
Quick & easy dial up with unique Morton Lens Track; slimmer design & comfortable fit; 50% Lighter & 30% brighter than previous models. Widest Lens range - +44D to -45D.

*Now only £725*

**Professional Ophthalmic set**
Includes: an ophthalmoscope and a retinoscope; 2 Lithium Handles; spare bulbs; protective case and instructions CD. Excludes charger.

*Now only £895*

**Professional Retinoscope**
Available in streak or spot option. Includes: 3.6 volt handle; brow rest and CD instructions. Excludes charger.

*Now only £470*

**Lithium Mini Charger for 3.6V instruments**
The single charger allows you to charge and use at the same time!

*Now only £100*

**Vantage Plus LED Slimline BIO**
Key features: new premium intelligent optics (IOS) (patent pending) – meaning that when you change the aperture the optics and mirrors automatically adjust for you, without the need to flip another lever. Lightweight & well balanced for maximum comfort; unique wire-less patented technology; small & compact.

*Now only £2,900 (RRP £3,315)*

**KAT ‘T’ Applanation tonometer**
Goldmann style applanation tonometer which can fit to any slit lamp with a tonometer plate. This is the removeable type.

*Now only £680 (RRP £840)*

**KAT ‘R’ Applanation tonometer**
Goldmann style applanation tonometer which can fit to any slit lamp with a top mount on the microscope housing. This is the fixed type.

*Now only £745 (RRP £895)*

**Maxfield 90D or 78D lens**
Now £138
Saving £22 (RRP £160)
Both 90D and 78D lenses are popular choices for high resolution and wide field non-contact fundus examinations, using a slit lamp. Available in 5 colours: gold; red; purple; blue or green.

**Maxlight 90 or 78 lens**
Now £106
Saving £11 (RRP £117)
Oculars Maxlight range of lenses are made of CR39 and offer excellent detail non-contact fundus examination. Available in 5 colours: gold; red; purple; blue and green.

**Single Mirror Gonio lens**
Now £140
Saving £10 (RRP £150)
Has a single mirror set at 62°. Compact knurled ring simplifies 360° viewing of the anterior chamber angle. Static Gonio FOV 170°.

**Four Mirror Mini Gonio lens**
Now £199
Saving £17 (RRP £216)
The Posner Gonio lens is one of the most popular Gonio lenses offering 4 mirrors all set at 62° for minimal rotation. Small diameter flange is convenient for eyes with small palpebral fissures.

**Mainster Wide Field lens**
Now £399
Saving £34 (RRP £433)
Mainster wide field fundus lens gives up to 127° FOV and is suitable for use with pan retinal photocoagulation. Image binocularity across the entire field of view.

**Colour Vision test**
38 plate Ishihara test
*Now only £180*

**24 plate Ishihara test**
*Now only £150*

**Four Mirror Mini Gonio lens**
*Now £199*

**Mainster Wide Field lens**
*Now £399*

For the latest special offers email buykeeler@topcon.co.uk or call 01635 551120

NB. All prices exclude VAT. Images for illustration purposes only.
## Classifieds – items for sale

Ex-demonstration / loan products. Subject to availability – first come first served. One year warranty provided as standard. Call 01635 551120 or email medical@topcon.co.uk for more information.

### Retinal Cameras

<table>
<thead>
<tr>
<th>Model</th>
<th>Features/Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRC NW8</td>
<td>Camera and relay only. Will need to add a Nikon Digital camera and i-Base software.</td>
<td>£8,250</td>
</tr>
<tr>
<td>TRC-NW100</td>
<td>Integrated chip, complete with software. Not on NSC approved list.</td>
<td>£2,000</td>
</tr>
</tbody>
</table>

### Analysers and Screeners

<table>
<thead>
<tr>
<th>Model</th>
<th>Features/Description</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>CA-200F</td>
<td>Corneal topographer. Key features: stand alone instrument; built in PC with 8 inch touch screen; easy operation; automatic best image selector; automatic pupil recognition; built-in WiFi connection.</td>
<td>£3,995</td>
</tr>
<tr>
<td>MPOD</td>
<td>Macular pigment / AMD screener w/laptop. Key features: repeatable with analysis software; low cost and small footprint; portable; LED flicker photometry; links to Windows PC. (laptop not inc.).</td>
<td>£3,400</td>
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</tbody>
</table>

### OCTs

<table>
<thead>
<tr>
<th>Model</th>
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<tbody>
<tr>
<td>3D OCT-2000</td>
<td>50Khz Tomographer with PC. Key features: high resolution fundus image; high resolution b-scan image.</td>
<td>£34,500</td>
</tr>
</tbody>
</table>

### Miscellaneaous

<table>
<thead>
<tr>
<th>Model</th>
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<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>CV-5000</td>
<td>Automatic phoropter head (complete with KB-50 &amp; p/s). Key features: compact design; fast lens rotation; comfortable operation; near chart LED illumination. KB-50 is equipped with a large colour LCD touch screen display.</td>
<td>£6,600</td>
</tr>
</tbody>
</table>

### Digital Slit lamps

<table>
<thead>
<tr>
<th>Model</th>
<th>Features/Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>SL-D7</td>
<td>Slit lamp based Fourier Domain OCT (inc PC but excluding table). Key features: anterior and posterior segment OCT imaging; real time OCT imaging during slit lamp examination; compatible with most handheld lenses; scan length up to 12mm.</td>
<td>£16,725</td>
</tr>
</tbody>
</table>

### OCTs

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### SL SCAN-1 OCT

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</table>

### Lensmeters

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<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>CL-2800</td>
<td>Key features: easy to use; green light reading beam; smart design with consistent results; colour LCD screen; improved lens table; contact lens measurement; fast and easy to load printer; small and convenient accessory box.</td>
<td>£1,500</td>
</tr>
<tr>
<td>CL-200PD</td>
<td>Computerised lensmeter. Key features: automated lens recognition, which picks up a progressive lens and shifts the display to a progressive layout. Complete with lens transmitter.</td>
<td>£3,750</td>
</tr>
</tbody>
</table>

### Lenses

<table>
<thead>
<tr>
<th>Model</th>
<th>Features/Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHP Foresee</td>
<td>AMD screener. Key features: full measurement capability with database.</td>
<td>£1,500</td>
</tr>
</tbody>
</table>

### Analysers and Screeners

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<th>Model</th>
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<tbody>
<tr>
<td>Analysers and Screeners TRK-1P</td>
<td>Key features: 4 functions in 1 compact device. Complete auto alignment system, combined with a refractometer, a keratometer, a non-contact tonometer and a pachymeter. Rotary Prism Technology for high accuracy and improved reliability.</td>
<td>£7,895</td>
</tr>
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*Once they’ve gone, they’ve gone forever!*

Fresh stock is being added all the time, so call 01635 551120 or email medical@topcon.co.uk for the latest deals.*
James Cook University Hospital introduces 'Topcon Synergy'

In June 2012, James Cook University Hospital Department of Ophthalmology introduced Topcon’s Synergy patient data management and storage system to their two clinic sites at Teeside and at Friargate Hospital, Northallerton.

Synergy has been installed in order that all clinical images from retinal cameras, digital slit lamps, visual field analysers and optical coherence tomographs can be stored on one central server and then viewed across the whole trust. The clinician only has to access one main Synergy database to find the patient images and then view this information without needing more than Microsoft’s own Internet Explorer.

Kay Henderson, Senior Ophthalmic Science Practitioner commented that the trust’s intention was to further expand the ‘paperless’ record system provided by Synergy with the addition of more diagnostic instruments in the future such as corneal topography and ophthalmic ultrasound.

We’ve bridged the gap!

We’ve produced i-Clarity – a Practice Management System that provides an end to end solution for busy ophthalmic practices.

• improves practice efficiency
• intuitive user interface
• tailored patient communications – letter, email, SMS, phone, doc mail
• integrated with fundus and OCT
• ongoing development in conjunction with User Group feedback

Make sure you visit the Topcon stand G80, H80, H60, H90

AMD Projects Review

New to 2012, were AMD Projects – a joint venture between Topcon and Spectrum Thea, held in Bristol, Manchester and Chesham. There was a combination of interactive lectures, workshops and peer discussion which helped answer questions and many other aspects of AMD that are needed to know to develop a dedicated profit making AMD clinic within your practice by providing ‘best-care’ scenarios.

Mike Potts, Consultant Ophthalmologist described the various risk factors for AMD which include smoking, family history, obesity and pollutants. Potts felt that most of his elderly macular patients struggle to reach their ‘five a day’ so he recommends supplements and increasing evidence suggests that, in his view, a useful nutritional supplement should always include omega-3.

Optometrist Dr Scott Mackie began his presentation with how practitioners may measure macular pigmentation levels in practice and offer more tailored advice about diet and supplements. Most focus was on the use of flicker photometry and MPOD instrument which has now been superceded by the MPS II. The main difference between MPOD and the MPS II is that a Data Quality Index (DQI) will now read the curve fit of the graph. Delegates had ample opportunity to use the MPS II along with a Topcon 3D-OCT.

A peer review session followed where delegates decided on the appropriate management of a range of macular disease patients.

A workshop with optometrist Andy Clark offered advice on how to establish a dedicated AMD clinic in practice. AMD Projects will continue to be held in 2013 so watch this space for new dates!

Edited from a review by Bill Harvey first published in Optician Journal.
New Practice – New Venture

After qualifying in 1980, I remained at the company I had done my pre-registration year with and managed its growth to 5 full time practices with over 30 staff. In 2004 I was able to buy the company with another colleague and enjoy the fruits of my labours for 7 years, by 2011 however I had grown tired of eating lunch in front of a computer screen during 11-14 hour days. I had done my pre-registration training for 7 years, but was ready for retirement and aimed to undertake some locum work to keep my interest in the profession. However it didn’t take long for close friends and long-term clients to persuade me that I was not ready for retirement and should perhaps consider opening my own practice. Since the early 80’s, when we had deregulation, Optometry has moved from independent practices to multiple chains and supermarket outlets. The number of truly independent practitioners is rapidly dwindling, so why start one myself?

The answer lies in how I see Optometry moving over the next 10 years, and how high streets are evolving, as shops have to adapt to the economic environment. We now see more ‘boutique’ stores, offering what the customer wants with traditional high levels of service but at a competitive price.

Whilst we need spectacle sales to support the clinical side of the business, Optometry is a healthcare profession and clients come to us primarily for eye care. There will always be those who want their spectacles as cheaply as possible but, I believe, there is a significant number who are willing to pay for high quality care, products and service. Our Grade 2 listed Georgian House gives us the opportunity to offer Optometry in a calm, inviting environment with all the latest technology.

The diagnostic equipment I wanted to be able to offer clients was the best available, and Topcon provided us with the solution for this. We now have the latest 3D-OCT, a slit-lamp with video and stills camera fitted, and a TRK-1P fitted on a rotating 3-table stand. Their I-Clarity software also provided a practice management system that was easy to use and linked to the other equipment.

The design of the interior was crucial as it needed to reflect the character of the building with a modern twist. Our thanks go to Lynx idg, and Mark in particular, who came up with a design that matched our initial vision.

With the equipment and the environment we have created, we hope to offer our clients the unique experience of a relaxed atmosphere, comprehensive eye examination and the privacy to choose spectacles, not found in the high street.

Number of OCT Patients per month

- Estimated monthly cost
- Monthly income at £35 per patient

Source: Performance Finance Ltd

» Guaranteed credit approval via Performance Finance Ltd.
» Only 20 OCT patients a month required to start making profits
» 50 OCT patients a month provides annual PROFIT of £13,200
» 75 OCT patients a month provides annual PROFIT of £23,700
» Save up to £12,500 off next years’ tax bill

2013 Events

Your chance to see Topcon’s kit in real life...

13-15 April OPTRAFAIR
   NEC, Birmingham
   — Stands G80, G90, H80, H90

26 April 3rd Diabetic Screening Conference, Royal Society of Medicine, London

20 May UKISCRS Cornea & Cataract Day, Hilton Hotel, Liverpool

21-23 May RCO, ACC, Liverpool — Stand K

7-9 June BCLA Manchester Convention Centre — Stand 22

20 June Skills in Retinal Imaging, Diagnosis & Therapy Seminar, Institute of Physics, London

8 July Independents Day, National Motorcycle Museum, Birmingham

9 July Vision for Optometrists, Downing College, Cambridge

15-16 Nov OIA Conference, Stoke on Trent, North Staffordshire
DRI competition

Q What pathology does this Topcon OCT image illustrate?

Send your entry to the address below and the winner will be chosen at random to receive a £10 M&S voucher.

How to enter
Write your answer in the box below and complete the form. Then send this page to: Marketing Dept. Topcon GB Ltd, Topcon House, Kennetside, Bone Lane, Newbury, Berks RG14 5PX

Closing date for all entries is 3rd June 2013.

T&C’s available on request.

Answer:

Name:

Company:

Address:

Tel:

Email:

Winners of Topcon Times Issue 3 Crossword Competition

Elaine Friend – Eastam and Christopher Optometrists, Robert Adie – SpecSavers (Glenroathes), Aysha Salam – St Pauls Eye Unit, Jacyln Deane – Ipswich Hospital

Crossword Questions and Answers

<table>
<thead>
<tr>
<th>Across</th>
<th>Down</th>
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<tbody>
<tr>
<td>1. GONIOSCOPY – Examination of anterior chamber angle</td>
<td>6. YTTRIUM – The ‘Y’ of YAG</td>
</tr>
<tr>
<td>10. MEIOSIS – Reduction division of the cell nucleus</td>
<td>11. PARESIS – Partial paralysis</td>
</tr>
<tr>
<td>12. CANTHUS – Junction in eyelids</td>
<td>18. SNELLEN – Has letters, numbers and shapes used by all</td>
</tr>
<tr>
<td>13. CROSS associations – Topcon GB Ltd</td>
<td>19. PARESIS – Partial paralysis</td>
</tr>
<tr>
<td>14. PHOTOPSIA – Flashes of light sometimes in</td>
<td>20. MADDOX – Linked with muscle balance testing</td>
</tr>
<tr>
<td>early stages of retinal detachment</td>
<td>1. GONIOSCOPY – Examination of anterior chamber angle</td>
</tr>
<tr>
<td>2. OPHTALMIA – Inflammation of the conjunctiva</td>
<td>5. YTTRIUM – The ‘Y’ of YAG</td>
</tr>
<tr>
<td>3. NYCTALOPIA – Night blindness</td>
<td>6. ACHROMATOPSIA – Complete colour blindness</td>
</tr>
<tr>
<td>4. SUPPLEMENTS – Some contain vitamins</td>
<td>7. CONJUNCTIVA – Covers the sclera</td>
</tr>
<tr>
<td>8. RETINOSCOPE – Instrument for measuring eyes refractive error</td>
<td>9. RODS – Cells in retina</td>
</tr>
<tr>
<td>10. MEIOSIS – Process of cell division</td>
<td>11. PARESIS – Partial paralysis</td>
</tr>
<tr>
<td>12. CANTHUS – Junction in eyelids</td>
<td>13. LYSOZYME – Natural dissolving agent in tears</td>
</tr>
<tr>
<td>14. SCHLEMM – Not a river but has locks</td>
<td>15. PAPILLITIS – Inflammation of the optic disc</td>
</tr>
<tr>
<td>16. LASER – A device which utilises light</td>
<td>17. PHOTOPSIA – Flashes of light sometimes in early stages of retinal detachment</td>
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And finally...

Topcon return to Tanzania

Following on from our original successful installation of both a mydriatic colour fundus camera and non-mydriatic OCT back in 2009, The Muhimbili Hospital approached Topcon GB again with a view to purchase a new non-mydriatic Fluorescence Angiography system.

With our ‘adopted’ engineer James Mayo back in his home town fresh from his weeklong exposure to the ‘Topcon Way’ we could have simply shipped the equipment overseas comfortably in the knowledge James could handle the installation alone. That said their original equipment was nearing its service interval and education on new equipment remains a priority, so we packed up our Clinical Affairs Manager (Ben Turley) together with the new kit and dropped them on an aircraft bound for Africa once again.

Providing a full service under the watch full eye of Ben, to all of the Topcon equipment acquired over the years, James proved he had clearly enjoyed his visit to the UK and taken a tremendous amount of knowledge back home with him. So much so James will be traveling to another of our African hospital customers later in the year to carry out routine maintenance on our behalf.

The new NW8F was installed successfully and used instantly by all the staff within the hospital due to its intuitive set up. As in the UK more and more clinics are becoming nurse led, and this item of equipment gives the hospital the freedom to capture non-mydriatic colour fundus images independently of the heavily used OCT unit in the adjacent room, together with fluorescein angiography and auto fluorescence images once again highlighting how advanced the eye department of Muhimbili Hospital is compared to even some back home in the UK.

Thousands Raised in aid of Gift of SIGHT

Ailsa Walter
Fundraiser
Gift of SIGHT Appeal

The Southampton University Gift of SIGHT Appeal raises funds to support research into eye disease undertaken by a team led by Professor Andrew Lotery, who is also a clinician who consults patients in Southampton Eye Unit. This ensures that all research is patient led moving from ‘bedside’ to research and back to patients.

Age-related macular degeneration is the leading cause of sight loss in patients over 70 years of age, although the disease can affect many patients who suffer from early onset macular degeneration. Diseases of a similar nature such as Stargardts disease, which is a form of juvenile macular degeneration, and rod and cone dystrophies also lead to reduced vision.

The research facility in Southampton General Hospital is undertaking genetic and stem cell studies and these projects are seed funded by Gift of SIGHT. Financial support has, for instance, led to a collaborative study with the University of Southampton Chemistry Department on the provision of a polymer ‘scaffold’. This is used as a base layer on which to cultivate retinal stem cells using those taken from adult ocular cells ‘harvested’ from the corneal limbus at the front of the eye. The team were delighted when the young chemist involved was presented with the overall prize at the SET for Britain Awards in 2011.

A new clinical trials area within Southampton General Hospital to facilitate more clinical and observational trials has also been furnished recently. Gift of SIGHT were enormously grateful to Topcon GB and Optegra Solent Eye Hospital for their huge support in sponsoring a recent Ball which raised £15,000 to help with funding our research. Without fantastic support such as this we would be unable to continue our projects to beat blindness.

The Gift of SIGHT Appeal is managed by the University of Southampton which is an ‘Exempt Charity’ (Inland Revenue reference number X89440) as noted in the Second Schedule of the 1960 Charities Act.