

THE FIRST WORD

In this issue of Scan Optics News we focus on microscope upgrades, technical articles on mould protection and some facts on LED light source.

If you have a microscope in Vietnam, you will be interested in the trip which is being planned for servicing microscopes and training technicians.

UPGRADED ASSISTANT MICROSCOPE



We have redesigned the assistant microscope using a new 45 degree head. This puts the eyepieces at a more comfortable position for the user and closer to the vertical height of the main head.

The assistant microscope can still be positioned on either left or right hand side of the main microscope.

EYE SURGERY ON A CAT

Scan Optics designed a SO-5900 model microscope with XY function in June 2009.

One of our first SO-5900's was commissioned in Perth, WA in August.

In the picture below Dr Robert J Harris from Mt Lawly & Inglewood Vet Centre is seen

performing a cataract surgery on a cat.

Gary Lowder from Scan Optics was at the scene to witness this operation.

Dr Harris has been using the microscope with several patients, and has been pleased with the results.



Dr Robert J Harris

Ophthalmology Conference of Veterinary Surgeons

Scan Optics was represented by Anjula Thaper and Gary Lowder at the meeting for the ophthalmology chapter of the Australian College of Veterinary Scientists on the 13th March at McLaren Vale in South Australia. The meeting was organised by Dr Tony Read of Vet Referrals in Adelaide and

attended by 13 veterinary surgeons from all over Australia.

The portability, robust design and high quality of Scan Optics microscopes makes them ideal for veterinary surgery. All Scan Optics products including the indirect ophthalmoscope and slit lamps were very well received.

FUTURE CONFERENCES

Scan Optics will be attending the following conferences:

Imperial City Eye Meeting III, June 7-10, 2010 at the Morin Hotel in Hue City, Vietnam co-sponsored by the Hawaiian Eye Foundation and the Hue Central Hospital.

25th APAO conference a joint meeting of APAO/AAO held in Beijing from Sept 16-20, 2010

AAO/MEACO the first joint meeting of the American Academy of Ophthalmology (AAO) and the Middle East Africa Council of Ophthalmology (MEACO) will be held in Chicago in Oct 16-19, 2010

Our customers will be informed about the Scan Optics booth numbers as soon as they are available. We would like to catch up with as many of our customers as possible at least at one of the conferences if not all.

TRAINING

Scan Optics will be conducting a two day training programme at the Ho Chi Minh City Eye Hospital in Ho Chi Minh City from Jun 11th to 12th 2010. Scan Optics has many microscopes being used in hospitals around Vietnam. Hospital technicians from, distributors and doctors have been informed and encouraged to attend the training programme. Many thanks go to Dr Tran Huy Hoang who has helped to organise this.

SCAN OPTICS IN MYANMAR

Scan Optics started shipment of the upgraded LED models in second half of 2008.

We have since shipped more than 180 microscopes in various countries around the world. The Feedback we have had on our LED models has been very positive

In the picture below, Burmese ophthalmologist Dr Naing Lin Aye is using their new microscope in Labutta (in the Irawaddy Delta, 12 hours from Yangon, but only about 100 miles).

They love the new microscope and are very happy with the LED.

Lucy Goold a trainee registrar ophthalmologist was there to help install the new microscope and train hospital technicians on maintenance of old Scan Optics microscopes.

She travelled to many other parts of Myanmar for maintenance of older Scan Optics microscopes.

All users are encouraged to give us a feedback not only on upgraded products but also on old products. This will help us improve our services and our product range.



Dr Naing Lin Aye in Myanmar

TECHNICAL BULLETIN

SOME FACTS ABOUT LED LIGHTING

LED (Light Emitting Diode) lighting is rapidly replacing halogen lamp lighting in many ophthalmic instruments.

All microscopes in the Scan Optics SO-111 Series and the SO-5000 Series now use LED light sources. The SO-2200 Binocular Indirect Ophthalmoscope and SO-901 surgical light also has an LED light.

The advantages of LEDs are:

- Very long life. The LEDs in Scan Optics equipment have

a life exceeding 50,000 hours of continuous use, which far exceeds the life of the equipment. This means that there is no need to carry a stock of expensive spare bulbs, or to replace a blown bulb in the middle of surgery.

- High efficiency. 20 watt LEDs in Scan Optics microscopes provide the same light level as 50 watt halogen lamps. There is less internal heat in the instrument, and longer battery life.

- No infrared radiation. Halogen lamps radiate a lot of heat that must be filtered from the light beam and absorbed in the instrument. LEDs do not radiate heat, so there is no concern with IR effects on the eye.

The light emitted from high-intensity LEDs is similar to daylight, so all Scan Optics microscopes include a colour temperature conversion filter which gives a light colour and a red reflex for surgery similar to that of a tungsten filament lamp.

FACTS ABOUT MOULD AND HOW TO PROTECT YOUR EQUIPMENT FROM IT

All Scan Optics microscopes come with fungicidal pellets for protection from mould.

The essential factors for mould growth are: nutrient, which can be supplied by dust, fingerprints, grease or from within the mould spore; temperature (the optimum being different for each mould species); and humidity.

Humidity is usually by far the most important factor, with most moulds requiring high humidity.

Moulds can grow very quickly, with spores germinating in a few days, and a whole surface can be extensively covered within a few weeks.

While mould can be killed by fumigation and fungicidal gas, this does not provide ongoing protection.

Protection can be provided by environmental control and through storage conditions that do not support mould growth. These conditions include an air conditioned room or a sealed container with drying agents.

Other methods are to surface treat optical elements (although this is expensive and is not often used); or finally by the use of fungicidal paint, strips or pellets inside of the instrument.

The fungicidal pellets which are installed inside all Scan Optics microscopes should be replaced every three years. They are available from Scan Optics (Catalogue No. SO-244). Installation instructions are in your user manual.

Microscope optical heads should be stored in a sealed container at a relative humidity of less than 75%. Scan Optics offers sealable storage bags (SO-242) and a rechargeable drying agent (SO-241) for this purpose.

It is difficult to completely eradicate mould spores once they have become established, and optical instruments should be cleaned routinely with a common disinfectant such as alcohol to prevent regrowth.

If optical surfaces are damaged through mould etching or through poor cleaning methods, it is likely that the complete optical system must be replaced. Therefore it is essential that you implement proper procedures for mould prevention.

HOW TO REACH US

Administration:

Anjula Thaper

Customer Service:

Quotation requests and shipping enquiries:

Vanessa Rogers

Technical and Quality Support:

Trevor Wall

Ryan Hart

Mechanical:

Gary Lowder

When to Call:

The time in Adelaide is GMT +9.5 hours from April to September, and GMT +10.5 hours from October to March.

Web site:

Our web site has a lot of useful information. The address is easy to remember:

<http://www.scanoptics.com.au>

Contact information:

Scan Optics
32 Stirling Street
Thebarton SA 5031
Adelaide Australia

Telephone: +61 (8) 8234 9120

Fax: +61 (8) 8234 9417

E-mail:

admin@scanoptics.com.au
sales@scanoptics.com.au
support@scanoptics.com.au

MODEL UPGRADES



SO-5900

The SO 5900 models with XY movement, foot controlled zoom and focus and LED light source is an upgraded model from SO-5800. The new version SO-5900 is packed in 3-4 cardboard cartons depending upon the model. This is for easy handling during freight around the world. It's very easy to assemble, has sterile no contact return to centre and can work on 12V battery if necessary.



SO-1700LED

The upgraded wet lab microscope now has high intensity LED light. All the control electronics are housed inside the lamp house unit which allows the microscope to be run from a compact sealed power pack or from a separate battery.