OSCOPE

Head Worn Microscope

12MM CONVERGED BINOCULAR OPTICS & FULLY INTEGRATED LED ILLUMINATION

Made in Australia

VOROTEK

experience. knowledge. performance

SpecFrame Model

Flip-up Dual Functionality

Headband Model

The Vorotek O Scope is ideal for all ENT applications and is now used by approximately 95% of Australian ENTs. In the same way a microscope works, the Vorotek O Scope's optical pathway converges the eyes to just 12mm apart. This allows both eyes to reach the bottom of narrow cavities and deliver excellent depth perception. The result is consistently improved diagnosis and more effective instrumentation. The unique 12mm Converged Binocular Optical System is what differentiates the O Scope from Loupes, which are unable to achieve depth perception in narrow cavities (see figure 2).

Converged Binocular Optics & Magnification
The Vorotek O Scope provides 12mm converged binocular vision combined with 2 or 3 dioptre magnification. This is essential to achieve binocular vision and depth perception in narrow cavities. e.g. Ear and nose. Converged optical pathways are also a feature of operating Microscopes (see figure 1).

LED Illumination (Coaxial)
The location of the brilliant LED illumination (approx 55,000 lux) is as close to the visual pathway as possible, allowing shadow free illumination of the field of view.

Fully Integrated Design
The fully integrated design ensures that the converged binoculars and illumination stay precisely aligned.

Dual Function
The Integrated Converged Binoculars can easily be rotated in and out of use. Upward rotation of the Converged Binoculars allows uninterrupted vision, with or without headlight illumination.

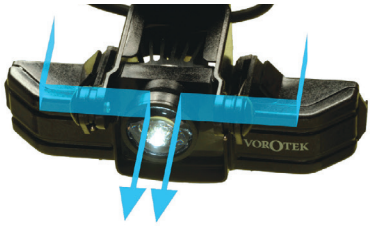


Figure 1. 12mm Converged Binocular Optical pathway.

Portable Power Supply
The Power Pack (Lithium ion), either belt or pocket worn, provides 10 hours of 'on time'.

Design Features
Head worn, light weight and hands free emphasising simplicity, durability and comfort.
O Scope Interpupillary Distance (IPD) can be customised to the individual or supplied with fully adjustable IPD tabs.

O Scope Models
SpecFrame model Ideal for individual users.
Prescription lenses can be fitted.
HeadBand model Ideal for shared use.
Can be used over prescription glasses.

Designed For
ENT Surgeons, Audiologists, Nurses/Clinicians involved with ear wax removal.

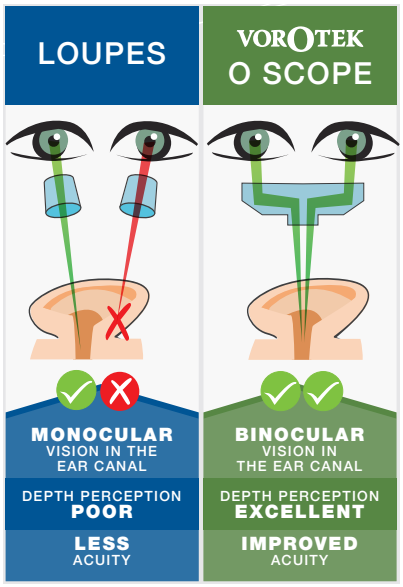


Figure 2. Depth Perception in the Ear Canal

VOROTEK
experience. knowledge. performance

Teaching Mirror

Cottonwool Carrier, 90 Degree Hook and Wax Ring

Speculums

O SCOPE Accessories

- **Teaching Mirror**
  Allows visualisation by others.
  (Refer figure above).
- **Pneumatic Otoscope**
  6 dioptre Lens for increased magnification.
  A great deal of extra detail (including ear drum mobility) can be seen when a Pneumatic Otoscope is used with the O Scope.
- **Speculums**
  Autoclavable plastic. (Five sizes available: XS, S, M, L, XL). Designed to match the Pneumatic Otoscope.
- **Speculum Dispenser**
  For bulk orders and use in busy clinics.
- **Wax Rings**
  Operating room quality. (Sizes available: 2.0mm, 2.5mm, 3.0 mm, 3.5mm, 4.0mm, 4.5mm)
- **90 Degree Hooks**
  For ear and nose use – operating room quality.
  (Sizes available: Small and Large)
- **Cotton Wool Carriers**
  Operating room quality.

Power Pack and Charger.

O SCOPE Kit

The performance & convenience of Vorotek Scopes & Instruments combined in an easy to carry case.

Includes:

- Vorotek O Scope (SpecFrame or HeadBand)
- Lithium Ion Power Pack
- Charger
- Pneumatic Otoscope (ENT Kit only)
- Wax Rings
- 90 Degree Hook
- Speculum set
- Protective Case

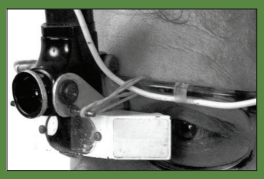
Designed for ENT Surgeons, Audiologists and Clinic Nurses. Includes all equipment required for wax management and otoscopy.

O Scope Kit.

Designed & Manufactured in Australia
Designed and Developed by Dr John Vorrath (ENT) the developer of the original **VOROSCOPE** and **LUMIVIEW.**

OSCOPE Development History

Vorotek was founded in 1971 by Australian ENT surgeon Dr John Vorrath. For over forty years Dr Vorrath has been developing and manufacturing fully integrated optical systems with illumination. He developed the original **Voroscope** and was the co-developer of the **LumiView** in 1993. His aim has always been to provide users with products which enhance their capability for examination, instrumentation and procedures.



1971 : FIRST PROTOTYPE
Frustrated with handheld otoscopes and frontal mirrors, Dr John Vorrath invented a head-worn binocular optical device with a built-in light source. It was portable, light weight and hands free. In ENT it greatly enhanced examination, instrumentation and procedures.

Late 1970's : FIRST PRODUCTION RUN
Rapid uptake by Australian ENTs with the first small scale commercial production – more than 100 units sold.

Mid 1980's : FIRST COMMERCIAL AGREEMENT
This Agreement resulted in 'blue & white' Voroscope manufactured by Australian Biomedical.

1993 – 2004 : SECOND COMMERCIAL AGREEMENT
10 year agreement reached with Welch-Allyn® resulted in the Lumiview™.

2004 – 2006 : VOROTEK TAKES THE INITIATIVE
Welch-Allyn® and Vorotek agree that redevelopment is needed – in particular, to incorporate Lithium Ion battery technology & white LED lighting. Vorotek proceeds with redevelopment and starts an intensive R & D phase, builds LED prototypes, and invests in production engineering.

2007 : VOROTEK BEGINS VOLUME PRODUCTION
In 2007 Vorotek moves to new premises and volume production begins. Now over 95% of Australian ENTs use the Vorotek O Scope with LED Illumination. The Vorotek O Scope is the successor to the Voroscope and Lumiview.

2018 : VOROTEK DOUBLES PRODUCTION CAPACITY
Vorotek builds a new office & production facility in Australia to meet increasing global demand for the Vorotek O Scope

VOROTEK
experience. knowledge. performance

Vorotek Pty Ltd
23 Point Henry Road
MOOLAP VIC 3224 Australia

T +61 3 5248 5809
E office@vorotek.com.au
www.vorotek.com