

Vision
ENGINEERING



VSIS®

ALPHA

Ergonomically superior
stereo microscopes



ISIS[®] Alpha Stereo Microscope with patented Expanded Pupil Eyepieces.

- Ergonomically optimised
- Maximum head and body freedom
- More than 38mm (1½") head freedom from eyepieces
- Comfortable wearing of prescription glasses



- Minimum eyestrain
- Maximum operator:
 - efficiency
 - comfort
 - throughput
- Zoom magnification to 160X (7-40X standard)
- Maximum brilliance, maximum contrast images
- Very wide field of view

ISIS[®] Alpha

Stereo utilises Vision Engineering's patented ISIS Exit Pupil Expansion Technology. ISIS expands the available optical pupil by means of multilenticular optical surfaces. ISIS technology provides up to 10X greater freedom of head position in relation to the eyepieces than traditional microscopes.

Technical Specifications

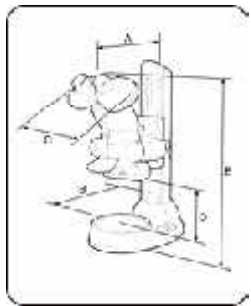
Optical

- Afocal infinity corrected stereo zoom microscope
- ISIS® patented Expanded Pupil eyepieces giving optimised head and body freedom
- Up to 10X more radial and axial head freedom than conventional eyepiece microscopes

Zoom Magnification

- 7 – 40X multiplied by objective lenses and multipliers to a maximum of 160X
- Zoom ratio 6:1
- Step multipliers 1-1.5X, 1-2X
- Wide range of objectives to increase magnification or increase working distance (see optical information table below)

Stands



Stable, focusable Bench Stand with subject holder, substage illumination and floating or measuring stage options:

Dimensions:
 A 390mm
 B 150mm
 C 234mm
 D 127mm
 E 490mm

Adjustable, swing away **Boom Mount** for mounting direct to user's work surface or with coated platform base.

Dimensions: A 400mm Max.



Illumination

- 60W/12V Semi-coaxial spotlamps with long life (800 hours), low cost Dichroic lamps.
- 150W/21V 6 Point high brilliance shadow free ring illuminator powered by separate transformer (200 hour lamp life)
- 250W/24V 6 Point maximum brilliance shadow free ring illuminator powered by separate transformer (60 hour lamp life)

Accessories

- Magnification Multipliers:
 - 1X - 1.5X
 - 1X - 2X
- Oblique & Direct Viewers gives angled view of subject. 35° rotating angle from vertical motorised or manual options
- 25° Fixed Head Angle Adjuster (from horizontal)
- Polarised light substage illuminator
- Floating workstage
- Measuring workstage
- Vertical or crossline measuring reticle
- Camera adaptors for digital cameras, CCTV, 35mm, Polaroid, image analysis or archiving software

Weight

- Bench Stand Version (4 boxes)
 - Packed 13kg
 - Unpacked 12kg
- Boom Mount Version (5 boxes)
 - Packed 22.5kg
 - Unpacked 19kg

Optical Information

Objective Lens Part Number	Lens Magnification	Zoom Range	With 1.5x Multipliers	With 2x Multipliers	Working Distance	Field of View at Max Zoom	Field of View at Min Zoom
C-050	X0.3	X2.1 - X12	X3.2 - X18	X4.2 - X24	312mm	12mm	77mm
C-055	X0.5	X3.5 - X30	X5.3 - X30	X7.0 - X40	175mm	7mm	46mm
C-051	X0.7	X4.9 - X28	X7.4 - X42	X9.8 - X56	127mm	5mm	33mm
C-052	X1.0	X7.0 - X40	X10.5 - X60	X14 - X80	85mm	3.5mm	24mm
C-053	X1.5	X10.5 - X60	X15.8 - X90	X21 - X120	45mm	2.5mm	16mm
C-054	X2.0	X14 - X80	X21 - X120	X28 - X160	25mm	1.75mm	12mm

Depth of field/focus varies with magnification – calculate as follows: Depth of Field = 75 / Total Magnification²

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We serve industry and laboratories worldwide, from major multinational corporations to small privately owned companies.

Each receives the same high standard of pre and post sales service, whether direct from one of Vision's subsidiaries or one of our highly trained and skilled distributors. With our products now represented in over 30 countries, Vision responds to customer demand with speed, efficiency and with innovative solutions.