



# SURVEY EQUIPMENT

## MS27 Mirror Stereoscope



MS27+TRA2

The MS27 offers unmatched precision and ease of use for viewing and interpreting aerial photographs.

- The distance between the stereo pairs is 27cm, and the field of view is a generous 18 x 23cm.
- TRA2 tracking device (option) allows for accurate stereoscopic observation over entire overlapped portions of photographs.
- Illumination unit LA3 is provided as an optional accessory.

### MS27 Specifications

Main Unit	
Distance of Optical Path	27cm
Magnification	
Swing-in Magnifier	1.8x
BN3 Binocular	3x (8x with optional BN8A)
Field of View	18 x 23cm
With BN3 Binocular	70mm (27mm with optional BN8A)
Range of Eye-span	55 to 75mm
Weight	4.0kg (8.8 lb.)
PB1 Parallax Measuring Bar	
Minimum Graduation	0.05mm
Estimation	0.01mm
Measurement Range	0 to 50mm
Length	39.5cm
Weight	0.5kg (1.1 lb.)
TRA2 Tracking Device (option) *	
Optimum	Up to 45 x 45cm
Range of Displacement	
Horizontal	550mm
Vertical	450mm

\*The TRA2 cannot be used together with the LA3 Illumination Unit.

## MS16 Small Mirror Stereoscope

- Compact yet practical mirror stereoscope.
- 16cm optical path provides a wide field of view.

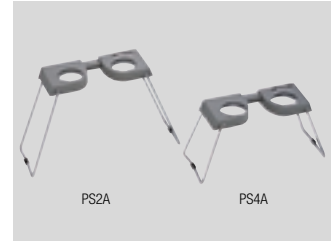


### MS16 Specifications

Distance of Optical Path	16cm
Magnification	1.5x
Field of View	10 x 10cm
Weight	0.7kg (1.5 lb.)

## PS4A-PS2A Pocket Stereoscopes

- Handy lens-type stereoscopes.
- Distance between lenses is adjustable from 56mm to 75mm.
- Two magnifications available, 4x (PS4A) and 2x (PS2A).



## SD5D-SD3D Range Finders

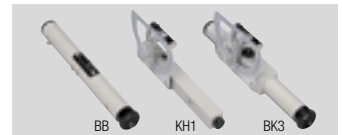
Providing you with years of precise operational accuracy, both models are lens-displacing types that are less susceptible to temperature variations and shock.



### SD5D-SD3D Specifications

	SD5D	SD3D
Range	7.5 to 1,000m	
Accuracy	±1% up to 100m	±1% up to 50m
Magnification	4x	
Field of View	6.5°	
Base Length	500mm	300mm
Length	590mm	400mm
Weight	1.4kg (3.1 lb.)	1.2kg (2.7 lb.)

## BB-KH1-BK3 Hand Levels

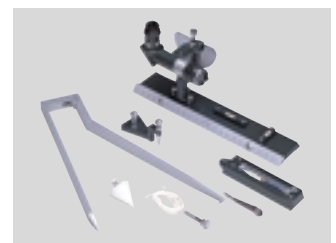


### BB-KH1-BK3 Specifications

	BB	KH1	BK3
Length	200mm	170mm	200mm
Magnification	5x	—	5x
Stadia Multiplication Constant	100	—	100
Vertical Reading	—	—	1°
Vernier Reading	—	—	10'

## TA2 Telescopic Alidade

- Specially designed for drawing maps in the field.
- Telescope can be tilted from +60° to -60°.
- Vernier 5' vertical angle direct reading.



### TA2 Specifications

Telescope Magnification	17x
Minimum Focusing Distance	1.65m
Stadia Multiplication Constant	100
Stadia Additive Constant	15.5cm
Vertical Circle Vernier	5'
Base Plate	L 240 x W 50mm