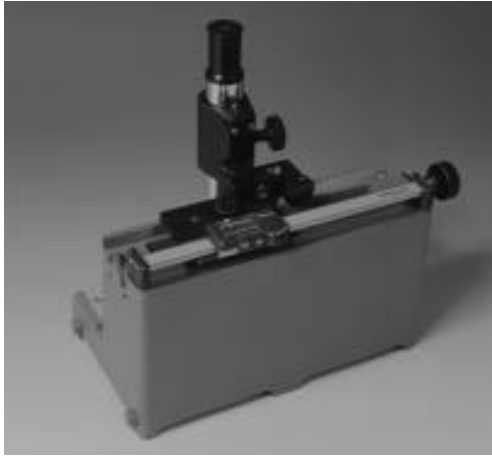




# NON CONTACT MEASUREMENT USING DIGITAL MICROSCOPES



- Zeros at any point
- Non-contact measurement
- High degree of accuracy
- Works in 3 axis (2158D)
- Removable stage plate
- Digital readout
- Converts from metric to imperial



The Vernier microscope 2152D is a more refined version of the popular 2150. It is one of the standard range of vernier microscopes used in schools and colleges. In addition to offering greater accuracy the 2152D also incorporates features enabling it to be used for a far greater range of experiments.

The carriage slides on a cast-iron base. Releasing the carriage locking screws allows free manual movement of the carriages. Fine adjustment is by means of the fine screw thread at the end of the slide. The saddle carries the digital reader which moves over a slide and gives a direct readout of distance travelled in metric or imperial.

The 2152D can be mounted with its axis in any of three positions.

The base is fitted with a metal stage plate which can be removed to allow the microscope to view through the base, enabling the microscope to be used as a short range cathetometer.

The Vernier microscope 2158D has calibrated movements in one horizontal direction and also vertically.

The cast-iron base has three levelling footscrews and is machined to take a kinematically mounted horizontal carriage which supports the vertical column. The carriage has a small circular level, and also carries a digital readout.

The vertical column carries the vertical carriage on which is mounted the microscope. This microscope can be fitted to either side of the vertical column to suit the users preference, and can be set to the horizontal or vertical. Releasing the carriage locking screws allows free manual movement of the carriages. Fine adjustment is by means of the fine screw thread at the end of each slide. The Base is fitted with a metal stage plate which can be removed to allow viewing through the base.

## TECHNICAL SPECIFICATION

	2152D	2158D
Travel:	165mm/300mm	165mm horizontal, 120mm vertical
Digital readout:	0.01mm	0.01mm
Microscope with draw tube:	50mm objective x7 Ramsden eyepiece and crossline graticule	50mm objective x7 Ramsden eyepiece and crossline graticule
Focusing:	Friction, Rack and pinion	Friction, Rack and pinion
Weight:	5.5Kg	10kg approx.

## ACCESSORIES

The following accessories are available for use with Vernier Microscopes 2152D/2158D:

2167	Illuminated base for 2152D only	2180	As 2179 but Vertical Reading	2199	Micrometer head
2175	Goniometer eyepiece	2187-91	Various objectives (Enquire for working distances and magnifications)	2336	Replacement bulb for 2198
2176	Inclined eyepiece 45°	2194-95	Telescope objectives	2337	Transformer for 2198
2178	Crossline graticule 21 mm dia.	2196	Fine focusing attachment	2152B	Polished wooden case for 2152D
2179	Crossline graticule 21 mm dia. 10mm divided into 100 divisions (horizontal)	2198	Vertical illuminator	2158B	Polished wooden case for 2158D



The Precision Tool and Instrument Company Limited.  
Brett Drive, Bexhill-on-Sea, East Sussex TN40 2JP, England.  
Telephone: Bexhill (01424) 732674 Fax: Bexhill (01424) 732966 Telex: 957368 SOLG

PTI Reserve the right to alter specifications without prior notice in line with a policy of constant improvement to our product range