

DATA SHEET

Farnell 1007

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Date. 01 / 06 / 2000

Product Code	Description
722-2294	Stereo Standard Microscope

GENERAL INFORMATION

The Standard Stereo Microscope is a high quality stereo microscope in a compact, simply constructed body. Used exclusively for surface inspection. The stereo microscope is used in diverse fields ranging from electronic, precision, chemical, metallurgical, ceramic textile, food and in the fields of medicine, biology, geology, mineralogy, palaeontology, archaeology and more.

SPECIFICATION

Two 10x magnification Wide Field Eye Pieces
Two Rubber Eye Cups for fitting to Eye Pieces
Eye Pieces mounted at 45 degrees in Microscope Head
Eye Piece width adjustment 50 – 75mm
2x & 4x Objective Lenses
Objective lenses mounted in a revolving turret with positive click stops
Microscope provides 20x & 40x viewing magnification
Focal distance between base of turret and work piece = 55mm
Field of view at 20X mag. = 10mm
Field of view at 40X mag. = 5mm
Max. working height between stage plate and objective lens turret = 130mm
Rack and pinion adjustment = 50mm
Two sided stage plate with black/white faces 60mm dia.
On/Off illumination switch 12volt/6watt top illumination festoon bulb
Two specimen clips
Plastic dust cover
Primary voltage 230v AC
Secondary voltage 12v 6w

INSTRUCTIONS FOR USE

Carefully unpack the microscope from its fitted shipping box
Remove the protective plastic bag which covers the microscope
Place the microscope onto a solid work bench
Fit the rubber eye cups to the eye pieces
Remove the plastic disc from below the objective lens turret
Connect the 3 pin plug to the required electric mains supply
Rotate the objective lens turret to positively engage either the 2x or 4x position
Place the work piece onto the selected stage plate

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Unclamp the Microscope head by turning the column clamp screw and set the distance between the work piece and the base of the objective lens turret to approximately 55mm, then clamp in this position.

Switch on illumination lamp

Look through the Eye pieces and adjust lenses to correct eye width distance

Rotate either of the two side adjusting knobs to focus onto the required surface

When in general focus a fine adjustment can be made by adjusting the left hand magnification lens to balance with the right hand lens by rotating the left hand lens mount.

When the final focus has been made, the microscope head can be locked in this position by using the " C " spanner provided, to tighten the locking collar situated on one of the adjusting knob spindles against the microscope body

To replace the magnification lens, partially withdraw the small cross head location screw situated just below the lens, this will allow the lens to be pulled from its location tube.

To replace the lens, fit lens into tube until the small cross head screw is in line with the annular groove situated around the lens body, then retighten the screw.

Microscope is fitted with two 250V T1A Glass fuses (Farnell Code 665-060)

Illumination lamp: Festoon type 12V 6W (Linear Code 59-020-039)

Additional accessories

Eye Piece 15X

(Farnell Code 722-2336)

Eye Piece 20X

(Farnell Code 722-2348)

Eye Piece 10X with Metric Scale consisting of:

Horizontal Scale 0 –16mm in 0.1mm graduations

Vertical Scale 0 – 16mm in 0.5mm graduations

Diagonal cross lines giving 30, 60 & 45 deg. angles (Farnell Code 722-2350)

MAGNIFICATION DATA

MAGNIFICATION	WIDEFIELD EYEPIECE	CODE	OBJECTIVE LENS	CODE	FOCAL LENGTH	FIELD OF VIEW
20x	10x	FITTED	2x	FITTED	55mm	10mm
40x	10x	FITTED	4x	FITTED	55mm	5mm
30x	15x	722-2336	2x	FITTED	55mm	6mm
60x	15x	722-2336	4x	FITTED	55mm	3mm
40x	20x	722-2348	2x	FITTED	55mm	3mm
80x	20x	722-2348	4x	FITTED	55mm	1.5mm

INSTRUMENT CARE

Do not dismantle any part of the optical system

Clean the magnification lenses only with soft clean dry paper

Do not try to turn the viewing head through 180 deg. as the optical system will not work in this position