



## Datasheet

### Microscope, x20, 40

RS Stock number 471-8834

#### GENERAL INFORMATION

This Deluxe Stereo Microscope is suitable for non-contact inspection and incorporates high quality optics giving standard magnification of either 20X or 40X by simply rotating the objective turret.

#### 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  
Microscope head can be turned through 360 degs.  
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 = 63mm  
Field of view at 20X mag. = 10mm  
Field of view at 40X mag. = 5mm  
Max. working height between stage plate and objective lens turret = 94mm  
Rack and pinion adjustment = 50mm  
Two sided stage plate with black/ white faces 95mm dia.  
Opaque glass stage plate 95mm dia.  
On/Off power switch  
Four position illumination switch : Off, I = Bottom, II = Top, III = Both  
Two specimen clips  
Plastic dust cover  
Primary voltage 230v AC  
Secondary voltage 12v 10w

#### 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

Position the Microscope head approximately 63mm above the surface of the work piece

Select required illumination

Look through 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

Illumination lamps : Top & Bottom Lamp 12v 10w halogen (RS472-7068)

Additional accessories

Eye Piece 15X (Code RS472-7030)

Eye Piece 20X (Code RS472-7046)

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 (Code RS472-7074)

**MAGNIFICATION  
DATA**

MAGNIFICATION	WIDEFIELD EYEPIECE	CODE	OBJECTIVE LENS	CODE	FOCAL LENGTH	FIELD OF VIEW
20x	10x	FITTED	2x	FITTED	63mm	10mm
40x	10x	FITTED	4x	FITTED	63mm	5mm
30x	15x	59-020-041	2x	FITTED	63mm	6mm
60x	15x	59-020-041	4x	FITTED	63mm	3mm
40x	20x	59-020-042	2x	FITTED	63mm	3mm
80x	20x	59-020-042	4x	FITTED	63mm	1.5mm

**INSTRUMENT**

Do not dismantle any part of the optical system

Clean the magnification lenses only with soft clean dry paper