

Digital Projection Microscope

INTRODUCTION

Digital Projection Microscope is a latest model Projection Microscope interfaced with computer, very useful for Textile laboratories for analysis of textile fibre & fabrics. Polarized light effects increase the clarity & sharpness of the specimen.

EQUIPMENT

Paramount **Digital Projection Microscope** is a specially designed Projection Microscope with Polarized light effects to increase the clarity & sharpness of the specimen. The microscope is interfaced with computer to project the object on wide computer screen for analysis. Three-mega pixel camera is attached with this for clear picture of object on computer screen. Five objectives of different resolutions to change the power of magnification according to the requirement. The software aided system is very easily measure the fibre length & dia .no of fibers automatically. Specially designed mechanical stage for sample mounting, which can be moved Up, Down & Forward, Backward. Light intensity controller knob is provided for proper viewing & fine & coarse focus adjustment knob for easy focusing the sample. The unit is meticulously finished in cream paint for modern stylish look.

SALIENT FEATURES

- > Latest design computer interfaced projection microscope for fibre & yarn analysis.
- > With maximum resolution of 1500X.
- > With 3-mega pixel digital camera to capture the magnified photograph of the object.
- > Photos of all fibers longitudinal & cross-sectional view are loaded in software to identify the fibers without prior knowledge in the same.
- > Any type of measurement like length, area, count of any fine textile fibre can be done.
- > This is the best option for Textile fibre analysis.
- > Enlarged view on wide computer monitor.
- > Supplied with complete accessories including stage micrometer for calibration.
- > Portable in size & can be easily interfaced with Desktop or Laptop for convenience.
- > Supplied with conformance & inspection Certificates.

Digital Projection Microscope is supplied complete with below accessories.

Main Unit	: 01 No.
Objectives, 10x, 20x , 40x & 100x)	: 01 No. (Each)
Eye piece	: 02set(10x & 15x)
Micro Slides (One Packet)	: 01 Pkt.
Stage Micrometer (For calibrating the graduated screen)	: 01 No.
Cover Glasses (One Packet)	: 01 Pkt.
Pointing Needle (To take out yarn from fabrics)	: 01 No.
Lead with Plug	: 01 No.
Spare Halogen Bulb (24 Volts, 150 Watts)	: 01 No.
Spare Fuse (3.0 Amp.)	: 01 No.
Cotton Cloth to clean the Objectives & Screen	: 01 No.
Yarn Holder (To Check Yarn Specimens)	: 01 No.
Dust Cover	: 01 No.
Detailed User's Manual	: 01 No.
Inspection & Conformance Certificate	: 01 No.



TECHNICAL DETAILS

Mains Supply	: 230 ± 10%, 50 HZ, 1 Phase AC Supply.
Magnification Power	: 150x, 300x, 600x ,1000x & 1500x
Objective	: 10x , 20x ,40x & 100x.
Light Control	: Invariably controlled Light Intensity Meter.
Mechanical Stage	: Graduated Mechanical Stage with X & Y (Forward & Backward Movement and Left & Right Movement)
Coarse Focus Adjustment	: With a Knob (Bigger Knob).
Fine Focus Adjustment	: With a Knob (Smaller Knob).
Light Condenser Movement	: Up/ Down with a knob
Condenser Diaphragm	: Iris Diaphragm (Can be opened/Closed with the Knob Provided).
Light Centering	: With three long screws.
Stage Micrometer	: 1 mm Scale with 0.01 mm Accuracy.
Dimensions	: 129(L)x, 8(W)x, 18(H) inch 304(L), 203(W) x, 457(H) mm
Weight	: 10Kgs (22 lbs)

RELATED STANDARDS

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