

TECHINCAL DETAILS

OF

Digital Projection Microscope™ (Advance Model)

1. INTRODUCTION

Digital Projection Microscope is a latest model Polarizing Projection Microscope interfaced with computer, which is very useful for Textile laboratories for the analysis of textile fibers & yarns. This equipment is very essential one for the identification of fibers in Textile Lab, college & University.

2. EQUIPMENT

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

3. 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 calibration & inspection Certificates.



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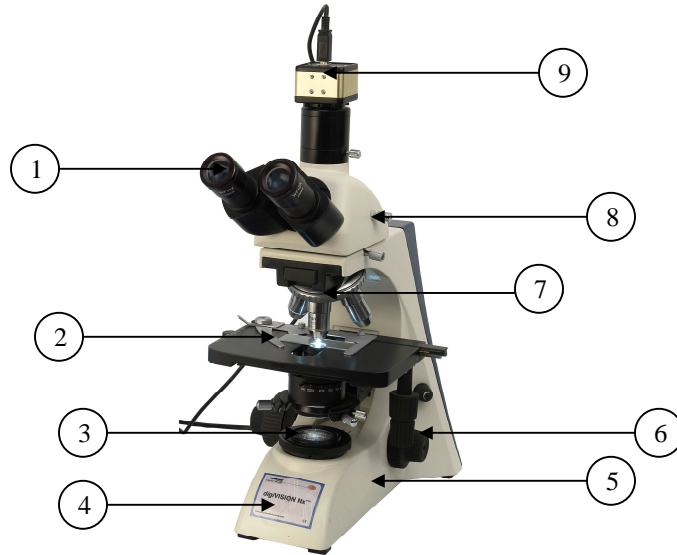


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4. DETAILS OF THE MAIN UNIT OF Digital Projection Microscope™



1. Base of the Unit.
2. Light Intensity Control Knob.
3. Air Cooling Slots.
4. Analyzer ON / OFF Switch (For Polarizing effect).
5. Graduated Glass Screen.
6. Left Screen Pointer Knob (Gives round pointer on screen).
7. Right Screen Pointer Knob (Gives arrow pointer on screen).

5. DETAILS OF THE ACCESSORIES SUPPLIED WITH Digital Projection Microscope™



Main Unit



Objectives
4x, 10x, 20x, 40x.



Micro Sliders
1 Packet.



Stage Micrometer
(For Calibrating the Graduate Screen)



Cover Glasses
1 Packet.



Pointing Needle
(To take out Yarn from fabric)



Main Lead With Plug



Spare Halogen Bulb
(24 Volts, 150 Watts)



Spare Fuse
(3.0 Amp.)



Brush to Clean the Lenses



Cotton Cloth for Cleaning the Lenses



Yarn Holder
(To Check Yarn Specimens)



Dust Cover



This User's Manual



Calibration & Inspection Conformance 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.
Calibration Certificate (Traceable to NPL)	:	01 No.
Inspection & Conformance Certificate	:	01 No.

6. TECHNICAL DETAILS OF Digital Projection Microscope™

Mains Supply	:	230 ± 10%, 50 HZ, 1 Phase AC Supply.
Magnification Power	:	150x, 300x, 600x & 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)



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7. RELATED STANDARDS

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.....Since1964
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NOTE : With our constant endeavour to improve & excel, we reserve the right to alter the specification or modify the appearance without notice.



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