

TECHINCAL DETAILS

OF

PROJECTINO™

(Projection Microscope for Yarn & Fiber)

1. INTRODUCTION

PROJECTINO™ is a latest model Polarizing Projection Microscope which is very useful for Textile laboratories for analysis of textile fibre & yarns. Special Polarized light increases the clarity & sharpness of the specimen.

2. EQUIPMENT

Paramount **PROJECTINO™** is a specially designed Polarizing Projection Microscope with Polarized light effects to increase the clarity & sharpness of the specimen. Five objectives of different resolutions are provided to change the power of magnification according to the requirement. Wide screen to project the magnified sample for proper viewing & flawless analysis. The screen has a scale graduated on it for the measurement of fibre length & dia. Specially designed mechanical stage is provided for mounting the sample, which can be moved Up, Down, Forward & Backward. Light intensity controller knob is provided to adjust the light intensity. Fine & coarse focus adjustment knob helps in focusing the sample easily. The unit is meticulously finished in cream paint.

3. SALIENT FEATURES

- Specially designed polarizing microscope for fibre analysis or fibre identification.
- With maximum resolution of 1000X.
- 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 due to projection on 360° graduated screen.
- Supplied with complete accessories including stage micrometer for calibration.
- Supplied with calibration & inspection certificates.



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4. DETAILS OF THE MAIN UNIT OF PROJECTINO™



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

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5. DETAILS OF THE ACCESSORIES SUPPLIED WITH PROJECTINO™



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

PROJECTINO™ is Supplied Complete with below Accessories:

Main Unit	: 01 No.
Objectives (4x, 10x, 20x and 40x)	: 01 No. (Each)
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.
Brush to clean Objectives	: 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 PROJECTINO™

Cutting Width	: 300 mm
Magnification Power	: 125x, 250x, 500x & 1000x
Objective	: 4x , , 20x , 40x.& 100x
Screen	: 360° Relatable Graduated Screen (can be Calibrated with the provided stage micrometer)
Filters	: Three (Green, Yellow & Normal Filter)
Light Control	: Invariably controlled Light Intensity Meter.
Mechanical Stage	: Graduated Mechanical Stage with X & Y (Forward & Backward Movement and Left & Right Movement)
Screen Pointers	: Two : One Arrow & One Circle Pointer on the Screen (to identifies the view area)
Polariser & Analysers	: Built-in, Selectable with a knob & Slideable Unit.
Coarse Focus Adjustment	: With a Knob (Bigger Knob).
Fine Focus Adjustment	: With a Knob (Smaller Knob).
Light Condenser Movement	: Up/ Down with a knob



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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.
Mains Supply	: 230 + 10%, 50 HZ, 1 Phase AC Supply.
Overall Dimensions of the Unit	: 320 (W) x 465 (D) x 635 (H) mm. 12.5" (W) x 18.5" (D) x 25" (H) Inch.
Net Weight of the Unit	: 17 Kg.(37.4 lbs)

7. RELATED STANDARDS

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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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