

digitra II™ (Digital Traverse Thread Counter)

INTRODUCTION

One of the most common measure of the quality of a fabric is the number of threads per unit length in both the warp and weft directions. These are determined normally with the help of an ordinary counting glass having a square or rectangular opening of specified size. However, when a greater degree of accuracy of Picks or Ends is needed or the weave is too fine. **digitra™ (Digital Traverse Thread Counter)** has been developed to serve the purpose. But when the weave is too thick for e.g. in Jeans & Heavy technical & furnishings fabrics, a specially developed very Powerful Light is required to count the No. of threads. **digitra II™** (Traverse Thread Counter with Fibre Optical illuminator) fulfill this Requirement very appropriately.

EQUIPMENT

The PARAMOUNT **digitra II™** (Digital Traverse Thread Counter) consists of a traveling microscope fitted on a base having a translucent (White Acrylic) panel illuminated from below with Light intensity control. The Light comes from a powerful Fibre Optical illuminator Unit. The Illuminator has 2 Lamps, which can be used one-by-one. The viewing arrangement consists of the microscope fitted on a traveling carriage, which can be moved over two guide rods with the help of a knob Handle. The unit has a microprocessor based Feather Touch Control Panel.

The microscope has a 10x Ramsden Eye Piece, an achromatic objective glass, a cross wire graticule in the Eye Piece. Focusing is done with the help of a Rack and Pinion arrangement.

The Fabric to be tested is placed below the counting plate (With Calibrated Slot) and over the (White) Acrylic plate. Press the Feather touch switch of the Digital Counter, (which registers the count by one with a BEEP) as the cross line graticule of the microscope travels over them.

The base of the apparatus is meticulously finished in Metallic Blue Paint and all other parts are of Stainless Steel.

SALIENT FEATURES

- This specialized equipment is used to determine reed & pick of any type of dense & thick fabrics.
- Simplest model with auto moving traveling microscope.
- 40x traveling microscope is attached magnify the fabrics.
- Inbuilt reference line inside the traveling microscope eases accurate checking.
- Smooth, precision-engineered components for exceptional performance.
- Powerful traveling microscope for sharp image of the fabric.
- 4 Digit resettable digital counter for counting the Reed / Pick.
- Feather touch control panel.
- Illuminated from bottom with optical illuminator facilitates to check any type thick of fabrics.
- Fibre optic illuminator has 2 bulbs, which can be used one by one.
- Complete with all accessories along with two templates
- Slot size: 20mm, and 50mm
- Slot size: 1/4inch, 1/2inch, and 1inch
- Supplied with calibration & inspection certificates.



digitra II™ is supplied complete with below accessories

Main Unit with Fiber Optic Illuminator	: 01 No.
Dust Cover	: 01 No.
Mains Lead with Plug	: 02 No.
Detailed User's Manual	: 01 No.
Calibration Certificate (Traceable to NPL)	: 01 No.
Inspection & Conformance Certificate	: 01 No.

TECHNICAL DETAILS

Microscope magnification	: 10 x
Fabric can be checked for	: 1/4 inch, 1/2 Inch, 1 Inch, 20 mm, 50mm
Digital Counter	: 4 - DIGITS Re-settable DIGITAL COUNTER. (Registers eacincrement)
Optical Illuminator Unit	: Invariably setting of the Intensity
Overall Dimension of the Illuminator Unit	: 260 (L) x 200 (W) x 220 (H) mm 10" (L) x 8" (W) x 8" (H) Inch.
Net Weight of the Optic Illuminator Unit	: 7 Kg. (15.4 lbs)
Overall Dimension of the Main Unit	: 300 (L) x 255 (W) x 340 (H) mm 12" (L) x 10" (W) x 13" (H) Inch.
Net Weight of the Unit	: 9.5 Kg (20.9 lbs)

RELATED STANDARDS

ISO 7211
BSEN 1049
ASTM D3775 - 98
IWTO 39-87
IS 1963 : 1981



Corporate Member



An ISO 14001 : 2004 Group
We Care for our Environment !



Member : Bureau of
Indian Standards