

Lawrence & Mayo

“LYNX”

ST-20E

VERNIER THEODOLITE



ST-20E



**SEMI KINEMATIC Steel Axis with ball bearings
& High Resolution Optical System**



FRP Case

SPECIFICATIONS

TELESCOPE

Image	Erect
Lenght	174mm
Magnification	20 x
Effective aperture	38 mm
Field of View	2.6 m at 100 m (1 ⁰ .30')
Short focus	2.2 m
Stadia ratio	1 : 100
Resolving power	4"

CIRCLES

Diameters	Hz 113mm V 100 mm
Graduations	20'
Vernier reading	20"

SENSITIVITY OF LEVELS

Vertical Circle Level	1/2 mm
Plate Level	45"/2 mm

CIRCLE READING

Diametrically opposite verniers read by magnifiers with a large field of view.

OPTICAL PLUMMET

3 x inverted image telescope mounted on alidade. This permits constant guard on centering adjustment.

WEIGHT (kg) Approx.

Instrument	5.5
Case (FRP)	2.3
Tripod (Al)	2.9

DIMENSION (mm) L x W x H (Approx.)

Instrument	180 x 155 x 350
Case	400 x 210 x 200
Tripod (telescopic)	5/8" x 11 tpi

STANDARD ACCESSORIES

Diaphragm extractor	Sun filter
Trough compass	Ray shade
Plumb bob	Screw driver
Adjusting pin	Cleaning brush

ORDERING DETAILS

LM-10-106	Model ST-20E Theodolite with steel axis & erect image in FRP case with telescopic tripod.
-----------	---

INTRODUCTION

Since its introduction over the decade ago there are 6,000 ST-20E Theodolites in service across the subcontinent. The success of the Theodolites is primarily due to the bearing (axis) incorporated. The semi-kinematic design ensures stability, accuracy and above all, considerably reduces the down-time for collimation. Because of this unique feature, the ST-20E is fitted with a high sensitive bubble of 45" / 2 mm.

The use of high resolution optical glass representing the refractive index and the Abbe value is an indication of the high quality and specification of the optical system.

FEATURES : High Resolution Optical System

- Efficient optical design in LYNX erect image telescopes, provides user comfort and true image.
- Image brightness, magnification and resolution are kept at optimum values by careful balancing of optical parameters.
- The Achromatic Objective lens design, cemented with high resolution optical glass now assures permanent optical features.
- Selection of Kellner eyepiece has considerably improved brightness and reduced chromatic aberration.



High Resolution Optical System

FEATURES : Semi-Kinematic Steel Axis with ball bearings

- Semi-Kinematically designed.
- Precisely machined.
- Hardened and Tempered Steel.
- Ground and lapped to close tolerances.
- Perfectly concentric for greater accuracy.
- High chromium, high carbon steel ball bearing for smooth rotation, maintain correct orientation and repetitiveness.
- High chromium, high nickel Alloy Steel for better stability & minimized maintenance.



Semi-Kinematic Steel Axis with ball bearings

MARKETED BY :

"LYNX"

Lawrence & Mayo (India) Pvt. Ltd.



Registered Office : Lawrence & Mayo House, 274, Dr. D.N. Road, Mumbai - 400 001. Tel. : 2207 8801 / 7440 / 1827 Fax : 022-2207 0048 Email : instmum@lawrenceandmayo.co.in

1. AHMEDABAD 380 006 Rangrupa Chambers Near Parimal Gardens Ellis Bridge Tel.: 26400284/26466160 Email : ahm@lawrenceandmayo.co.in	3. CHENNAI 600 002 68, Anna Salai, Tel.: 28412912/28415213 Fax : 044-28548556 Email : chenmtrd@lawrenceandmayo.co.in	5. GOA 403 001 36, Mascarenhas Bldg., M.G. Road, Panaji Tel.: 2224343/2431414 Email : goapanj@lawrenceandmayo.co.in	7. MUMBAI 400 001 Lawrence & Mayo House 274, D. N. Road, Tel.: 2207 8801/7440/1827 Fax : 022-2207 0048 Email : instmum@lawrenceandmayo.co.in	9. NEW DELHI 110 017 840, Chirag Delhi Tel. : 011-29251295 Telefax : 011-29255745 Email : tdsc@lawrenceandmayo.co.in	11. SECUNDERABAD 500 003 115, Park Lane Tel. : 27843995 / 9629 Fax : 040-27849253 Email : sec@lawrenceandmayo.co.in
2. BANGALORE 560 001 No. 82, 1st Floor., Presidency Complex St. Marks Road, Tel.: 2221 7900/2227 7901 Fax : 080-22244492 Email : bnmstm@lawrenceandmayo.co.in	4. ERNAKULAM 682011 C.C. 40/822-A, Gr. Flr, Iyyattil Junction Chittoor Road, Tel. : 2368698 Telefax : 0484-2368645 Email : cochin@lawrenceandmayo.co.in	6. KOLKATA 700 069 11, Govt. Place East, Tel.: 22481818/22308622 Fax : 033-22480068 Email : calgovt@lawrenceandmayo.co.in	8. NEW DELHI 110 001 76, Janpath, Tel. : 23356262 Fax : 011-23715641 Email : newdel@lawrenceandmayo.co.in	10. PUNE 411 005 308, 3rd Flr., Kubera Ch. Opp. Sancheti Hospital Shivajinagar. Tel. : 25535597 Email : puneinst@lawrenceandmayo.co.in	12. VISAKHAPATNAM 530 020 28-2-55, Tenneti Square, Jagadamba Centre, Tel. : 2564 189/2505 160 Fax : 0891-2704 130 Email : vizaglni@lawrenceandmayo.co.in

www.lawrenceandmayo.co.in