

LONG RANGE ALIGNMENT LASERS

THE LONG RANGE SOLUTION



**T-2000 SERIES
LASER SYSTEM**



**LR-2020D
DIGITAL ELECTRONIC
LASER THEODOLITE**

FREQUENT APPLICATIONS
TUNNELING
MINING
OFFSHORE DREDGING
CONVEYOR ALIGNMENT
CENTERLINE CONTROL

TUNNELING

LaserLine offers the most complete, well thought-out tunneling packages available. Ease of setup, stability, versatility, AND tremendous range!

OFFSHORE

The LR Series and T-2000 Lasers save you money by allowing accurate control of centerline to within four (4) inches per mile! This greatly reduces over excavation and the high cost of moving more material than our bid for.

T-2000

The T-2000 is a heavy-duty "building block" design built for the rigors of the toughest construction environments. The T-2000 may be added to from its basic configuration, depending on the needs of your particular job or application.

The T-2000 laser beam is fixed focused to infinity. This provides the smallest possible spot over the longest possible distance.

High power. 5 Milliwatts of power assures you of more range to target area, even in adverse weather or when shooting through a series of forward targets.

Ultra-fine horizontal and vertical fine adjust for fast and precise alignment on your set-ups.

Very stable; once set in place, the T-2000 stays on your forward target!

T-2000 is designed to accept a tribrach. This is especially beneficial when "leap frogging" to forward points in tunnel work.

In tunnel work, the T-2000 has three times the range (laser spot brilliance and quality) thus reducing the need to move the laser forward.

In marine work, it translates to much greater visibility in adverse weather conditions.

T-2000-0

Designed for shorter range applications requiring the ability to pre-position the laser to a forward point, then lock it in place for maximum holding stability. The T-2000-0 features the same laser power and spot brilliance as its bigger brother, the T-2000, but at a more affordable cost. Once in place, it stays there!

LR-1050D/LR-2020D

The LR-Series was designed for long distance alignment applications where the ability to turn an angle is desired or required. The LR-Series features a large, easy to read LCD Direct Reading Digital Display for horizontal and vertical angles. This adds versatility in hard to set up locations, allowing the operator to turn angles from a known point. A foresight is not a necessity. The laser beam is fixed to the vertical cross hair of the spotting scope, thus eliminating the need for a reflector or penta prism as a foresight.

The laser beam is fixed focused to infinity. This provides the smallest possible spot over the longest possible distance.

5 Milliwatts of power assures you of more range to target area, even in adverse weather or when shooting through a series of forward targets.

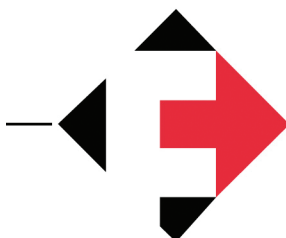
Some of the digital features include:

Digital Display of Angle for both vertical and horizontal angles are obtained and displayed in degrees or gons (internal switch).

A large, alphanumeric dual-line LCD screen allows both vertical and horizontal angles to be displayed simultaneously. Symbols on the LCD are clear and easy to read for convenient operation even in dim light.

By simply pressing the "R/L" key, the LR-Series performs clockwise or counter clockwise horizontal angle measurement.

PLEASE CONTACT YOUR **LASERLINE** DEALER:



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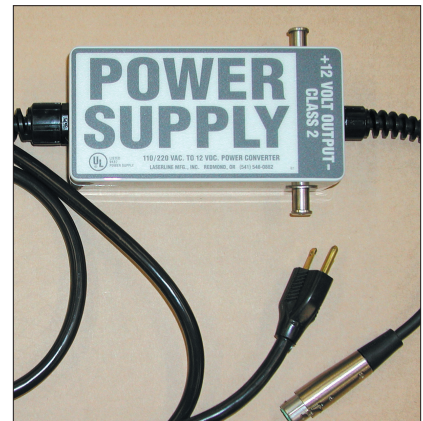
ACCESSORIES



T-2000 shown with 2000-0525 Spotting Scope, 2000-0035 Fan Lens, 2000-0630 Optical Plummet Tribach, 2000-0620 Adapter



2000-10 Universal Tunnel Mount shown with T-2000 laser.



Power Converter II40 used to run LR Series and T2000 Series lasers at 100-240 VAC

SPOTTING SCOPE 6-24X 2000-0525

Variable power from 6-24x objective diameter is 40mm. Field of view varies at 100 yards from 17 feet to 4 feet depending on power setting. Ring mounts are satin chrome steel finish for rust free operation in wet conditions. Use with the T-2000, or T-2000-0.

FAN LENS 2000-0035

Changes laser beam from a spot to a vertical plane of laser light. The fan lens expands the laser beam in the vertical direction at 1320 feet per mile while maintaining the horizontal width expansion at 4 inches per mile. Use with the LR2020D, T-2000, or T-2000-0.

UNIVERSAL TUNNEL MOUNT 2000-10

An ultra solid, yet versatile multi-positioning platform for the T-2000, T-2000-0, and LR-Series lasers. The mount gives you the abil-

LASER BEAM SPOT SIZE CHART

DISTANCE	DIAMETER
500' (152m)	0.8" (2.0cm)
1000' (305m)	1.1" (2.8cm)
1500' (457m)	1.4" (3.6cm)
2000' (610m)	1.7" (4.3cm)
2500' (762m)	2.0" (5.1cm)
5280' (1609m)	4.0" (10.2cm)

ity to both horizontally and vertically position the laser to the pre-determined point that you require. In addition to offering tremendous versatility for your laser positioning, it is very rugged and stable.

POWER CONVERTER II40

UL Listed converts 110 or 220 VAC to 12 VDC. Internally protected from short circuits and overloads. Resets automatically – no fuses or circuit breakers. Use with the LR-2020, T-2000, or T-2000-0.

OPTICAL PLUMMET TRIBACH 2000-0630

Features universal 5/8 x 11 base plate thread. The range of the optical plummet is 1.5 feet to 50 feet. (0.5m to 15m). The circular level vial has a sensitivity of 10 minutes (2mm). Use with 2000-0620 adapter for the T-2000, or T-2000-0 laser system.

SPECIFICATIONS

	LR-1050D	LR-2020D	T-2000	T-2000-0
LASER POWER	5 MW (NOMINAL)	5 MW (NOMINAL)	5MW (NOMINAL)	5MW (NOMINAL)
OPERATING TEMPERATURE	0°/120°F (-18°/+50°C)	0°/120°F (-18°/+50°C)	0°/120°F (-18°/+50°C)	0°/120°F (-18°/+50°C)
STORAGE TEMPERATURE	-40°/+150°F (-40°/+65°C)	-40°/+150°F (-40°/+65°C)	-40°/+150°F (-40°/+65°C)	-40°/+150°F (-40°/+65°C)
POWER	10-14 VDC AT 1.5 AMPS PER	10-14 VDC AT 1.5 AMPS PER	10-14 VDC AT 1.5 AMPS PER	10-14 VDC AT 1.5 AMPS PER
TELESCOPE	HOUR	HOUR	HOUR	HOUR
VERTICAL CIRCLE	24X WITH STADIA	24X WITH STADIA	6 TO 24X (OPTIONAL)	6 TO 24X (OPTIONAL)
HORIZONTAL CIRCLE	DIGITAL TO 5 SEC	DIGITAL TO 20 SEC	NOT AVAILABLE	NOT AVAILABLE
OPTICAL PLUMMET	DIGITAL TO 5 SEC	DIGITAL TO 20 SEC	NOT AVAILABLE	NOT AVAILABLE
LEVELING BASE	2.2X	2.2X	2.0 (OPTIONAL)	2.0 (OPTIONAL)
HEIGHT	3 SCREW LEVELING BASE	3 SCREW LEVELING BASE	3 SCREW TRIBRACH (OPTIONAL)	3 SCREW TRIBRACH (OPTIONAL)
WITH TRIBRACH	12.75" (32cm)	12.75" (32cm)	5.9" (15cm)	8" (20cm)
WITH TRIBRACH AND SCOPE	-	-	8.75" (22cm)	-
LENGTH	-	-	10.75 (27cm)	-
WIDTH	20" (51 cm)	20" (51 cm)	20" (51 cm)	20" (51 cm)
SHIPPING WEIGHT	5.5" (14 cm)	5.5" (14 cm)	5.5" (14cm)	6.5" (17cm)
	30LB (13.6KG)	30LB (13.6KG)	29LB (13.2KG)	28LB (12.7KG)