

## **Diamond Knowledge Base**

### **Millennium Trail Counter - TTC-4420**

Wave length of light beam	9400 A
Detection range:	110 feet, about 75 feet in falling snow
Power:	Four internal "D" alkaline flashlight batteries, accessible with key compartment lock. May be operated on lithium cold weather batteries to -40°F
Case:	Cast aluminum, water tight construction for electronics
Counter:	6 digit LCD display, one line
Time Interval count available	Grand Total plus 512 intervals. Interval length choices: 15 minutes, 1 hour, 6 hours, 12 days, 1 day, 2, 3, 4, 5, 6, 14, and 30 days
Dimensions	
Scanner housing:	10" x 3" x 7" (25.5cm x 7.5cm x 18cm)
	waterproof divider between battery compartment and electronics
Shipping weight:	8 lbs. (3.6kg)
Unattended operating period:	1 year plus

The new Millennium Trail Traffic Counter is a portable, battery powered instrument for counting trail traffic in remote areas.

The original Trail Traffic Counter was designed and developed at the U.S. Forest Service Equipment Development Center. Diamond Traffic Products manufactured that unit for years under agreement with the Forest Service.

Diamond Traffic Products has redesigned and upgraded the unit to operate on 4 "D" cell flashlight batteries for 12-15 months.

The new Trail Counter uses a light-weight, waterproof aluminum housing which is visually identical to the old counter.

However, the Bulley external battery box has been eliminated. The counter is designed to bolt to the backside of a tree and is easy to conceal and install.

Basically, the instrument consists of a scanner and a reflector. The cast aluminum housing contains the electronics, the optics, a six digit liquid crystal display, a sonic device to aid in beam alignment and provision for the four "D" cell batteries in a lockable battery compartment.

In operation, the scanner is mounted on one side of the trail and the reflector on the other as shown in the sketch. The scanner and reflector can be separated up to 110 feet. The 110' range obtained with the Trail Traffic Counter gives fieldmen the opportunity to use natural camouflage.

To prevent detection by hikers, which may result in vandalism or tampering, the scanner housing has been designed to be as small as possible and is finished in dull camouflage. The infrared beam is not visible to the naked eye, and the counter makes no noise. The counter has been designed so it cannot be tripped by falling leaves, walking sticks swung by hikers or other small objects, and so that it will not register more than one count for long objects like horses, canoes and cycles.

The TTC-440 can be purchased with optional time interval data recording ability. The unit keeps grand total and up to 512 interval records. Record Interval choices are 15 minutes, 1 hour, 6 hours, 1 day, 2, 3, 4, 5, 6, 7, 14, and 30 days.

