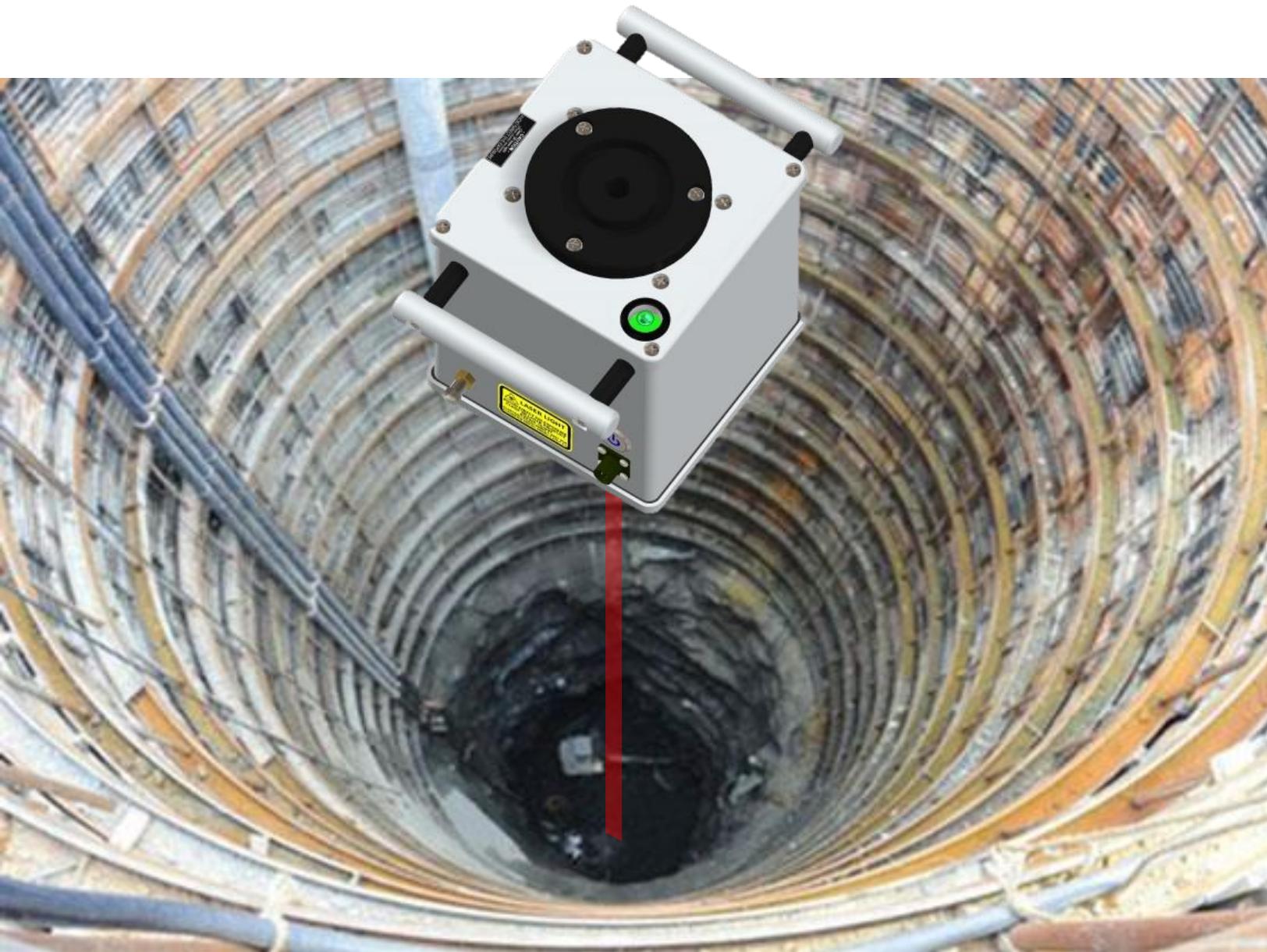


# QUAD 1000HDD

## VERTICAL CONTROL LASER FOR MINING & TUNNELING SHAFT ALIGNMENT



**L LASERLINE MFG..INC.**

1810 SE First Street, Suite H, Redmond, OR 97756

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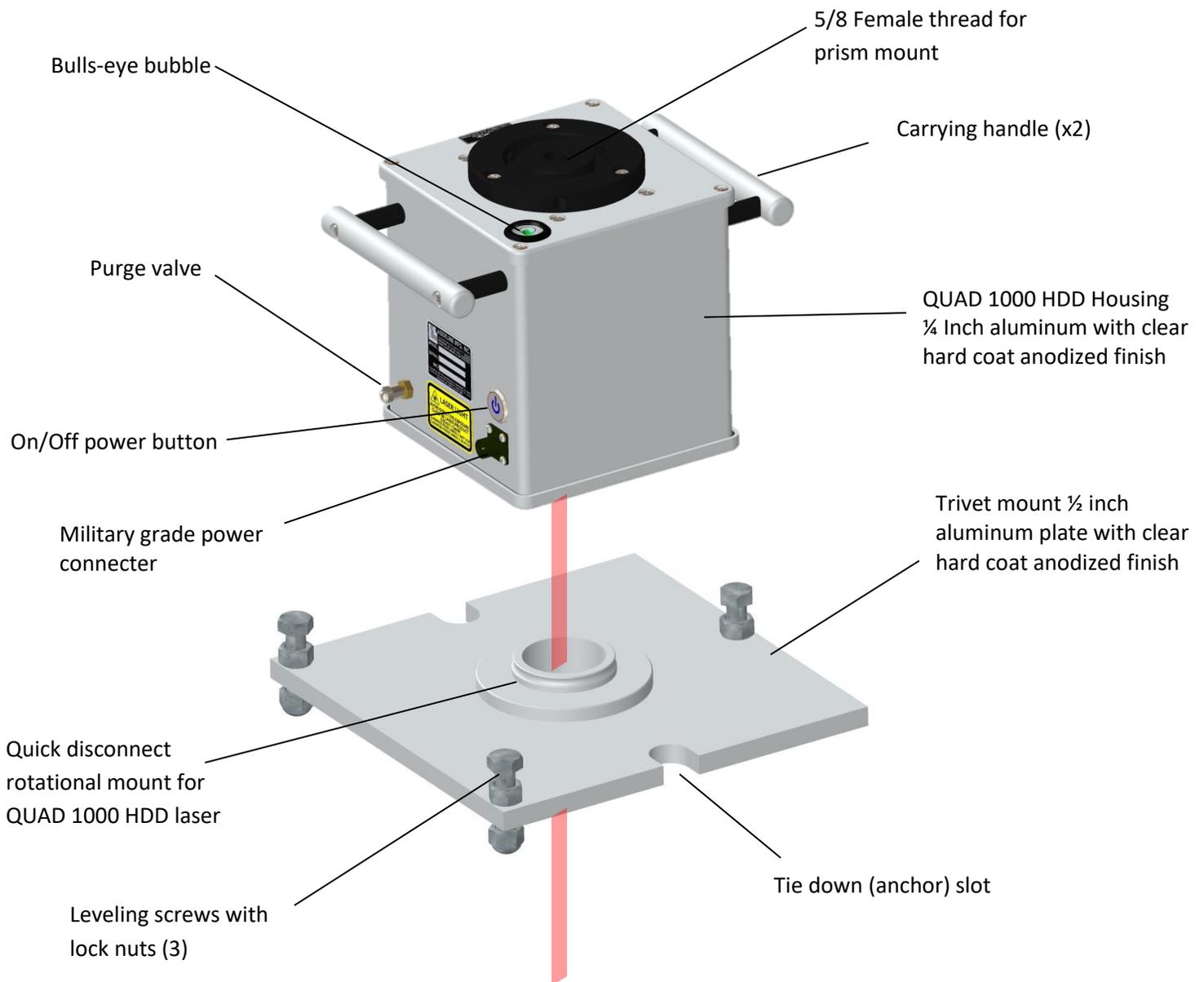


# *“The long range solution for vertical shaft alignment”*

The QUAD 1000 HDD provides a downward shooting vertical laser for plumb control in the harshest environments.

- ✓ **Accurate:**  $\pm 5$  arc seconds ( $\pm 1/32$  inch per 100 feet) (.793mm per 30.48 meters)
- ✓ **Long Range:** Provides plumb control to a depth of 2,500 feet (762 meters) from original set up point. Can be moved down and reset as depth requires.
- ✓ **Rugged:** Heavy duty  $1/4$  inch thick aluminum housing with hard coat anodized finish
- ✓ **Dust and waterproof:** Purged and dry nitrogen filled with IP67 rating

## QUAD 1000 HDD FEATURES



## QUAD 1000 HDD Laser Package Includes:

### QUAD 1000 HDD Laser

(HDD) Heavy Duty Downward shooting high precision plumb laser



### Mounting Trivet Plate P/N 4003-0002

3 point leveling base with quick disconnect rotational mount for QUAD 1000 HDD laser.



### (2) Alignment Targets P/N 4001-0010

"Ultra-bright" bulls-eye for the most visible and precise readings at any distance. Targets feature laser pass through allowing multiple readings at one time, special hard coating that protects the graphics on the target face and two ¼ inch holes for custom mounting.



### Carrying Case P/N 3000-0182

Double wall blow molded, custom fit foam inserts and two locking latches for securing your items.



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## POWER OPTIONS AND ACCESSORIES

### \*OPTIONAL: Battery Kit: P/N 3003-0800-2

Consists of: Hard shelled weather-proof battery case w/ mounting hardware, 12VDC 5Ah lead acid battery and A/C wall charger.



### \*OPTIONAL: P/N 1140-3

The 1140 Series Power Converter will run your laser at 13VDC with 90 to 260 VAC. The 1140 senses what voltage it is hooked up to and automatically runs the laser on that voltage.



# LASER SPECIFICATIONS

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**Self-leveling:** Electronic servo with variable temperature compensation

**Plumb beam accuracy:**  $\pm 5$  arc seconds ( $\pm 1/32$  inch per 100 feet) (.793mm per 30.48 meters)

**Range:** Downward 2500 feet (762 meters)

**Laser spot size:** At Source 1.0" / 25.4mm

7/8" at 1000 feet (23mm at 305 meters)

1.5 inch at 2500 feet (38mm at 762 meters)

**\*NOTE**—Atmospheric conditions can negatively affect range and spot size/quality.

**Laser Power:** 4.5mw

USA EN/IEC 60824-1 2007 Class 3R

International IEC 60825-1 2014 Class 3R

USA OSHA compliant: Meets all Federal and International standards

**Power source:** 12 VDC or 110-220 VAC with optional 1140 power converter

**Operating temperature:** 0 to + 122 degrees F (-18 to +50 c)

**Storage temperature:** -4 to +158 F (-20 to +70c)

**Dimensions:**

**Height:** 8" (20.32cm)

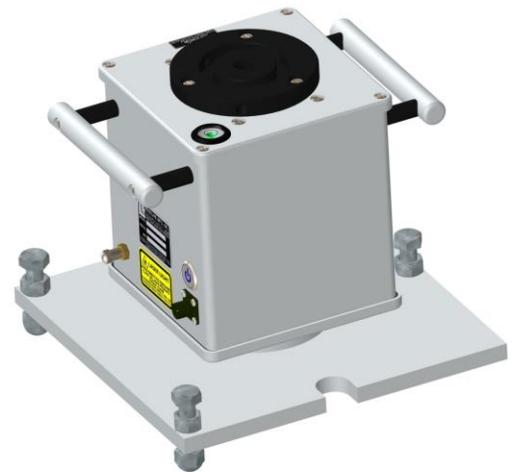
**Width:** 6"  $\frac{1}{2}$  x 6"  $\frac{1}{2}$  (16.50x16.50cm) at bottom

**Width Handles Side:** 9"  $\frac{3}{4}$  (23.6cm)

**Weight:** 10.5 lbs. (4.77 kgs)

**Dust and waterproof:** Purged and dry nitrogen filled with IP67 rating  
(Heavy duty  $\frac{1}{4}$  inch thick aluminum housing with hard coat anodized finish)

**Warranty:** 24 months parts and labor for defective workmanship and material.



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