GradeLight 2500 and GradeLight 2500C

**Battery Life**
- 60 Hrs. (normal operation)
- Recharge Time: 8 - 10 hours
- Grade Range
  - Std. Model: +40% to -8%
  - Special Model: +30% to +12%
- Self-Leveling Range
  - +1° (-10%) / grade axis
  - +1° (-10%) / cross axis
- Azimuth Range
  - 20° @ 100' (6m at 30m)
- Pivot Point
  - Yes, Green LED
- Grade Range
  - Std. Model: +40% to -10%
  - Special Model: +25% to -25%
- Self-Leveling Range
  - ±5.7° (±10%) grade axis
  - ±3° (±5%) cross axis
- Cross Axis
  - ±3° (±5%) grade axis
- Pivot Point
  - Yes, Green LED
- Grade Range
  - ±40% to ±10%

**Specifications & Case Options**

### Large Case
- 22"(w) x 16"(h) x 11"(d)
- 55.8cm(w) x 40.6cm(h) x 27.9cm(d)
- Example:
  - Instrument
  - Slide Legs
  - Charger
  - 12 volt DC Cable
  - Tray
  - Height Adjustable Rod

### Small Case
- 17"(w) x 15"(h) x 9"(d)
- 43.1cm(w) x 38.1cm(h) x 22.8cm(d)
- Example:
  - Instrument
  - Slide Legs
  - Charger
  - 12 volt DC Cable

**Optional Special Orders**

- Available on GradeLight 2500, 2500C & 2100
- Optional Grade Range
  - -25% to +25%
- Optional “Firmware” for GL 2500 / 2500C

**Auto Keypad Lock**
The keypad on the instrument is disabled automatically after the unit has self-leveled. To unlock, simply press * or power switch on instrument. The remote remains functional at all times.
**Great Features - Easy To Use!**

**A. Large, Easy to Read Grade Display.**

Know where the beam is pointing all the time. Center the GradeLight 2500™ in the pipe and use the large 20' per 100' adjustment range.

**B. Azimuth Indicator.**

Shows the available supply of voltage so you know when it's time to recharge.

**C. Battery Indicator.**

The three-light “SpeedLevel” indicator enables the operator to quickly adjust the unit into the optimum setup position. No Waiting!

**D. Lighted Cross-Axis Rough Level Vial.**

Enables the user to quickly position the GradeLight 2500™ in the cross-axis. Lighted for visibility in dark setup conditions.

**E. Rear Carrying Handle.**

Ideal for lowering into manholes with a rope. It also protects the control panel.

**F. Illuminated Azimuth Pivot Point.**

A bright green LED indicates line (azimuth) pivot point and is easily seen in dark setup conditions.

**G. Sightline Hook.**

Used with the string alignment technique. (Comes standard with the laser.)

**H. Simple To Operate**

- **Automatic Grade Run**
  - Press either the positive or negative grade switch. Hold for a few moments and release. The grade will continue in the selected direction until you press any switch again. No more holding the grade switch until the desired grade is reached.

- **Automatic Line Centering**
  - Press both azimuth switches simultaneously and the beam automatically returns to its center of line adjustment.

- **Automatic Zero Grade Set**
  - Press the positive & negative grade switches simultaneously to automatically set grade back to 0% grade.

- **Precise Grade Setting**
  - Enter grade to the nearest .001%. GradeLight 2500 firmware insures grade device always approaches grade from negative direction.

- **Superior Beam**
  - The NEW and advanced GradeLight 2500 has a bright, highly visible beam which can be seen under all jobsite conditions.

- **New & Improved Design**
  - The display panel is designed for a wider viewing angle. With the control panel and LCD display angled upwards it is easier to see and use.

**I. Adjustable Slide Legs.**

Three independent adjustable legs give the GradeLight 2500™ unmatched versatility for in-the-pipe setups. One set of adjustable legs center the beam in 8” to 12” (200mm to 300mm) pipe. Remove the legs to setup in 6” (150mm) pipe.

**J. Grade Axis Pivot Point.**

Located on each side of the laser. Provides a reference of the grade pivot point.

**K. Beam Exit.**

The beam exits through the center of the housing. This makes setup on centerline easier and quicker.

**L. Attached Lens Cover.**

Protects the lens from scratches. It is permanently attached.

**OUR REPLACEMENT BATTERY CAN BE PURCHASED IN ANY HARDWARE STORE!**

**RELIABLE, RUGGED DESIGN**

Fragile metal stampings, plastic internal mechanical parts, and low quality electronic components are not good enough for the GradeLight 2500.

All lasers consist of an external housing and the all critical internal system. The GradeLight 2500’s internal works use the highest quality aluminum, brass and stainless steel that are precisely machined. Circuit boards utilize top-of-the-line electronic components. The GradeLight 2500 housing uses high quality aluminum die castings and extrusion.

The GradeLight 2500 is designed to last!

**“Jobsite Tough!”**

- Tough Aluminum Housing.
- Waterproof and Purged with Nitrogen.
- Bottom Loading Battery Compartment.
- All Metal Adjustable Slide Legs.
- 6” Legs Part of Die Cast Aluminum Housing.
- Fixed Metal Carrying Handle Protects Keypad.

**SIMPLE TO OPERATE**

**Automatic Grade Run**

- Hold for a few moments and release. The grade will continue in the selected direction until you press any switch again. No more holding the grade switch until the desired grade is reached.

**Automatic Line Centering**

- Press both azimuth switches simultaneously and the beam automatically returns to its center of line adjustment.

**Automatic Zero Grade Set**

- Press the positive & negative grade switches simultaneously to automatically set grade back to 0% grade.

**Precise Grade Setting**

- Enter grade to the nearest .001%. GradeLight 2500 firmware insures grade device always approaches grade from negative direction.

**Superior Beam**

- The NEW and advanced GradeLight 2500 has a bright, highly visible beam which can be seen under all jobsite conditions.

**New & Improved Design**

- The display panel is designed for a wider viewing angle. With the control panel and LCD display angled upwards it is easier to see and use.

**Stand-by Mode**

- save laser battery life with stand-by mode on new remote.
GradeLight 2500C

The GradeLight 2500C is a compact version of the GradeLight 2500. The On-Board Battery is eliminated to provide a shorter instrument for tight spaces or invert. Requires 12 volt DC power. The GradeLight 2500C length is only 8.5" (21.59cm)

GradeLight 2100

Boring, Tunneling and Micro-Tunneling Applications.

• Cable connection allows controls and beam projector to be positioned separately where space is limited.
• Perfectly suited for the smallest of manhole inverts, boring and micro-tunneling applications.
• Grade Projector Length:
  7" (17.78 cm)
• Control Box / Battery Box:
  7.5"(h) x 4.5"(w) x 2.5"(d)
  19 cm(h) x 11.4 cm(w) x 6.3 cm(d)
• Control Box to Grade Projector Cable:
  10' (3.05 m)
• Same Setup Accessories as the GradeLight 2500 are available.
• Can be controlled by a personal computer.
  (No Remote Control Function.)

Side Shift Base

The side shift base allows fine adjustment of the GradeLight 2500, 2500C and 2100. The Laser is mounted using the slide leg slots of the instrument. You will enjoy a range of side adjustment totalling 5" (127 mm).

Targets

Clip-in Targets are designed to fit 6, 8, 10, and 12" pipes.

Above Ground Target

AGL's durable pipe targets have a special coating that enhances the already bright beam emitted from the GradeLight 2500, 2500C and 2100.

Power Options

Universal AC Charger: 100 - 240 VAC to 6 VDC

12 VDC to 6VDC Cable with Clamp Connectors

12 VDC to 6VDC Cigar Plug
**Flexibility of Use**

**UNIQUE SLIDE LEG SYSTEM**

Our adjustable "Slide Leg System" provides maximum flexibility in setting the GradeLight 2500 height. One set of legs enables the operator to set centerline in 8", 10", and 12" pipe. (No need for separate legs for each pipe size.) The slide legs can also be quickly and easily adjusted to non-standard heights.

The 3-leg configuration is the easiest, quickest and most stable in actual jobsite conditions. The GradeLight 2500 3-leg configuration, like a tripod, provides the ability to setup on uneven, rough surfaces.

- Built in legs for 6" (150mm) pipe.
- Figure A: In-pipe setup or prepoured inverts Centerline 8", 10" and 12" pipe. (200, 250, and 300mm pipe)
- Figure B: Open ditch on stake set to elevation or other reference.
- Figure C: Optional Long Legs to set centerline in 15 to 24" pipe.
- Figure D: Optional 4-legs for unusual applications.

**Flexibility of Setup**

A. **Graduated Rod**

Comes in 2.5 and 5 foot sections that are secured together with slotted locking screw.

B. **AGL Special Transit**

C. **Adjustable Manhole Crossbrace**

30 - 54" Standard. Additional sections can be added.

D. **Trivet with Height Adjustable Rod**

E. **Spotting Scope**

Large viewing field with red filter makes this scope the best! Seeing is believing — Try it!

- **Above Ground With Tripod**

Allows GradeLight 2500 to be set at any height on graduated rod. Also provides a bullet proof alignment system.