

GradeLight Pipe Lasers

Fit the Tightest Inverts...High Reliability Features



SANITARY & STORM SEWERS • PIPE JACKING • TUNNELING



From The First Pipe Laser Four Decades Ago To Our Newest... Still The First Name In Lasers!

Built to Last

AGL is the Original Manufacturer of the pipe laser, and our four decades of experience benefit you in this newest design.

The durable housing uses die casts and extrusions for superior strength.

Inside, additional die cast parts coupled with stainless steel, brass, and aluminum bar stock add to its precision and reliability. These high quality materials minimize drift over the broad operating temperature ranges encountered.

www.agi-lasers.com



Easy Alignment High Visibility LED Line Pivot Point is a fast reference for centering. Easily seen from outside the manhole.

Grade Reference Points on both sides make it easy to set elevation.

Large Display is Viewable from Outside Most Manholes

- Line Indicator shows the beam position relative to the adjustment range.
- Status at-a-glance shows self-leveling status, battery indicator, electronic level vial showing cross axis level position, and lock status of laser and remote.
- Unique Dual Color Grade Display Color changes to denote Positive or Negative Grade (to .001% increments) to minimize costly input errors.



SIMPLE Up + Down — Left 🗨 Right 🕨 Operation

• *Enter Grade with a Rolling Counter or Digit Select Method.* Press and hold a grade button for a few moments. After release, it will automatically increase (or decrease) until you press the key again to stop. Grade can also be entered by selecting the digits using the (PP) key.

• Press + 🔊 – to reset to zero grade.

PERSON T

Press

 To reset line adjust range.

SET UP...The Way You Work

In The Pipe

Above Ground



10" pipe 250mm

12" pipe

300mm

One Leg Set Covers Multiple Pipe Sizes

Unique slide legs adjust for 8", 10", and 12" pipe, as well as nonstandard heights. Metric set for 200, 250, and 300mm. Built-in feet cover 6" (150mm) pipe.

Three-leg design is self-centering, providing stability when setting up on uneven surfaces, and allowing quick leveling-up.

Eliminates multiple small feet that can easily get lost, and attach holes that cross thread or fill up with jobsite debris.



Open Cut

8" pipe

200mm

6" pipe

150mm

Fine Height Adjust Trivet Provides a stable set-up on any rocky or dirt surface. The hardened points can dig into a brick base.

Tight Pre-poured Inverts or Small Manholes

The Shortest Length Less than 10.5" (265mm) long. Even the tightest 6" (150mm) 90° inverts pose no set-up problem.



aGL

Flat Bottom Manholes

Wide Array of Accessories make set-up in any condition, whether flat bottom or prepoured manhole, easier. Set-up with the trivet,

rod group or leg set and you will see the difference. AGL also accommodates speciality applications and has the bandwidth to custom make special requests.



Instrument Package

Instrument Package includes the necessary accessories to use the UNIQUE Rod & Cross-

brace system that has been a proven technique for over 45 years.

ALIGN...The Way You Work

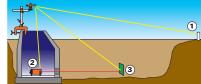


Manhole Mount

Unique Design lets you attach any alignment instrument including our Special Transit with back-sight capabilities.

Rotary crank allows easy movement to quickly get over a point.

Mount adapts to base sections and risers, and comes with an easy tilt mechanism to quickly plumb the instrument.





Rod & Crossbrace System

When used with the Special Transit, it makes an excellent one-person alignment system. Allows the laser to be set at any height on the graduated rod.

Adjustable manhole crossbrace length is 30-60" (76-152cm). Additional sections can be added.



Above Ground Alignment Scope has a large

Alignment Scope has a large field of view and a red filter for easy beam locating, even in bright sun light.



Stringline

Stringline Hook on every laser provides a center pivot location for alignment.

GL2700 Features

Manual Alignment

1. Set desired grade.

button.

The manual alignment function allows directing the laser by remote control to a reference rod outside the excavation without later having to set the gradesetting control again in the manhole.

2. Press the red alignment button.

3. Direct laser beam to reference rod.

4. Return the beam to the desired setting

and line by pressing the alignment

GL3000 Features

AutoTarget System

The GL3000 communicates with the AutoTarget using IR. Place the GL3000 and the AutoTarget in the pipe and activate the target. The rotating laser will automatically find the center of the AutoTarget. It's also possible to use a standard receiver of any rotating laser

instead of the AutoTarget. After activating the vertical laser, it can be moved with the remote control, left or right, into the correct direction for precise alignment.

> The GL3000 vertical rotating beam will also indicate a vertical level exactly in the direction of the laser beam. This is useful in finding a range pole outside of the ditch for aligning a machine, hub stakes, fence posts, bridge columns, etc.

Automatic Dual Axis

Compensation

The dual axis automatic system compensates the cross axis up to 6°.

VERSATILE...The Way You Work

Power Options

Li-ion Rechargeable

Highest performance battery. Can be removed and charged separately.

Alkaline Pack for when you forget to charge.

Optional 12V Cord

Charges while operating. Standard with GL3000.



Owner ID and Check Calibration

User Selectable feature lets you put in your company name and phone information as a theft deterrent to display at unit power-up. Lets you set the service interval desired -- up to 2000 hours.



Self Levels Over Entire Grade Range



200

250

Unique Target

Magnetic base attaches to trench box side wall after pipe setting for better airflow that minimizes refraction.

Base design mounts target panel at the front of the base, not in the center. This allows easier viewing at the front of the

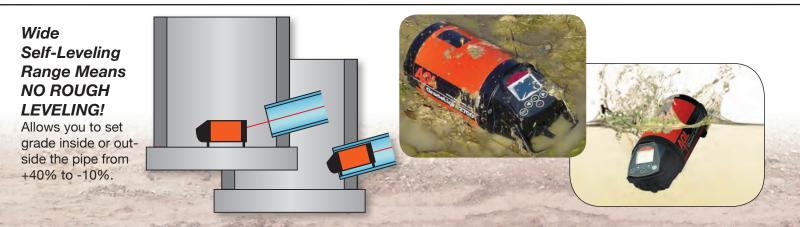
pipe. Accommodates multiple pipe sizes from 6" to 10" (150 to 250mm) and 12"-15" (300mm-380mm).



AutoTarget

The unique AutoTarget allows the user to align the pipe on second day set-up with ease and accuracy. Simply place the Auto-Target at the end of the last joint laid. Place the Pipe Laser in the pipe with the correct grade and press the red align key on the AutoTarget. The built-in rotating laser will scan left, then right and then find the center of the target. After aligning, remove the AutoTarget and replace with a standard target and get to work. No hassles, No Problems!

Accidents Happen! This Laser Can Take It!



ACCESSORIES...The Way You Work



Heavy Duty **Blower For Refraction Control**

Minimizes laser drift for long pipe runs where there is more than a 20° F temperature difference between the trench top and bottom.

Special Reflective Coating

helps enhance beam vis-

ibility when used in direct

Above Ground

Target

sunlight.

Use the Handle Rod Mount

to attach to a trivet or to the rod and cross brace system.

Use to quickly

and easily align for second day set-up.

AutoTarget

Remote Control

(Optional with Above Ground Package) Moves the beam left or right for line, and puts the laser in standby or locked modes. Press (to quickly re-center

adjustment range. Press () to do Line Check on the GL2700 and to turn the Rotating Laser ON for the GL3000.



Large Pipe Leg Set Tall Leg Set for 15-24" pipe; metric set for 375-600mm pipe.



Clip-in Target Optional clip-in targets for 6", 8", 10", and 12" size pipes.

AutoTarget for the GL3000

The laser scans to the left edge. using the built-in rotating laser.



The laser scans to the right edge, using the built-in rotating laser.

Bracket for AutoTarget Easily attaches the AutoTarget to a pole, grade rod, post or stake.





Auto Centers to the Target.

CHECK...The Way You Work

Auto Levels



ZAL100 Series

With the ZAL100 Series GeoMax introduces an automatic level to the construction industry designed for your daily leveling and checking tasks with outstanding price-to-performance ratio. Meeting the IP54 class specifications guarantees all weather operation of the ZAL100 Series and provides you with an instrument that "Works when you do!".



ZAL300 Series

Built for toughest conditions

The ZAL300s class leading optics and magneX[™] compensator are imbedded in a sealed and protected housing making it highly resistant in all weather conditions.

Flexible and ergonomic

With four different types of magnifications, 20x, 24x, 28x and 30x, the ZAL300 series offers the accuracy of your choice.

The patented magneX[™] compensator system from GeoMax used in the ZAL300 series with magnetic dampening makes stuck a thing of the past.



Depth Control for Excavators

• Ideal for keeping flowline and ditch to grade plus maintaining the proper depth.

• Wireless sensors mounted on the excavator are calibrated to the machine,

measuring movement and angle of the bucket, boom, and dipper stick.

 Provides real-time depth information, 20 times a second; no lag time.

• Can be installed and calibrated in 45 minutes or less;no welding required.

Keep your Machine **Digging!**

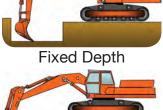
Grade Laser

GradoPlane 25X

The GradoPlane 25x levels up fast, even when inputting the maximum grade of 25%. Level, single or dual grade is simple to enter with either rolling counter or entry by digit. Seven power options offer flexibility (1) one rechargeable NiMH battery pack (2) 4 "D" batteries (3) 2 rechargeable NiMH battery pack (4) 8 "D" batteries (5) 4 "D" batteries + battery pack (6) AC power charger (7) 12v

power source. The beam masking feature makes the unit safe on roadways. The GP25X is perfect for those storm drain jobs where a wide area is needing to be covered.







Slope



Laser Control





Profiling



Specifications

GRADELIGHT	GL3000 GL2700	
Self-Leveling Range	+45% to -15%	
Grade Range	+40% to -10%	
Grade Entry	Rolling counter or digit select	
Grade Display	0.001%	
Azimuth Range	Total range: 20 ft. at 100 ft. (6m at 30m)	
Accuracy	± 1/16" at 100' (± 5mm at 100m; ± 10 arc sec.; ± .005%)	
Temperature drift	1"/C arc seconds per degree C	
Cross Axis Leveling	Automatic (6°) Manual	
Beam Type/Output	Visible laser diode, 635nm, < 5mW, Class 3R	
Environmental	IP68; nitrogen purged	
Power Supply	1) Rechargeable lithium ion battery pack	
	2) 110/230V AC converter	
	(charge and run simultaneously)	
	3) Spare battery compartment for	
	4 "D" alkaline batteries	
	4) Std. 12V power cord Opt. 12V power cord	
Battery Life @ 32° F/0° C	40 hrs. Li-ion battery; 50 hrs. alkaline	
Charging Time	5 hrs. maximum	
	5/8 x 11 (female mounting thread)	
Operating Temperature	-4° to 122° F (-20° to +50° C)	
Storage Temperature	-4° to 140° F (-20° to +60° C)	
Size	Diameter: 5.5" (140mm). Length: <10.5" (265mm)	
Weight	7.6 lbs (3.5 kg) with alkaline battery 2 year (additional year warranties available)	
Warranty	2 year (additional year warranties available)	
ROTATING LASER (GL3000 ONLY)		
Operating Range	600' (190m) with handheld receiver;	
	500' (150m) with AutoTarget	
Detection Angle	20° (40' @100')	
Rotation Speed	1250 rpm	
Beam Type	Visible Laser Diode, 635nm, <5mW, Class 3R	
Scan Length (Azimuth)	Narrow Mode: 5' @ 100'; Wide Mode 10.5' @ 100'	
REMOTE CONTROL		
Operating Range	600' (190m) front (through the pipe);	
	25' (7.6m) from rear	
Batteries	3 AA alkaline	
Battery Life	2,000 hrs (1 year)	
Dimensions	4.7" x 2.35" x 1.2" (119 x 60 x 30mm)	

Your AGL Dealer:

CONSTRUCTION LASERS & MACHINE CONTROL SYSTEMS

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Printed in the USA 09/13 AM1149