

UL633

Applications

General Construction

- Levelling concrete forms and footers
- Vertical alignment such as anchor bolt and form alignment

Machine Guidance Compatible

- Dual slope grading and steep slope excavating
- Slope work for sports fields, tennis courts, driveways, parking garages, ramps

Pipe and Drainage Installations

- Automatic Alignment for pipe laying
- Measuring unknown slopes in existing pipes

Interior

- Layout of walls
- Installation of drop ceilings



The Most Versatile Construction Laser, Ever



The UL633 is the first construction laser to enable the total control of all three axes (X/Y/Z). This is accomplished via unique simultaneous Radio and Infrared communication and also completely new “fan beam” technology for the Z axis.

Benefiting from Spectra Precision’s know-how, the UL633 is appropriate for all applications delivering an easy, fast and accurate job.

Key Features

Total Control of X/Y Axes

- Unlimited Automatic Dual Axis Features
 - High Precision Axis Alignments
 - Simplified Grade Match: measures and displays the existing grade over unknown ground
 - Complete PlaneLok: automatically locks on the laser beam to an existing elevation
- All functions flexible from 10 to 170 degrees
- Horizontal Angle Measurement capability

Total Control of Z Axis

- Automatic Detection of plumb beam
 - Spot Align: aligns the plumb beam to a desired position
 - Spot Match: displays the measured Z-axis grade value
 - SpotLok: locks automatically the plumb beam to the SF601 center point

User Benefits

- Versatility to fit any construction application
- Quickly adapts to site requirements
- Simplifies 90° layout applications
- Reduces time to do slope work and pipe installation



- Manual Detection of plumb beam
 - Spot Search
- Complete Cross Axis Compensation

Versatile Communication Links

- Radio (2 radio channels)
- IR

Built for Today’s Jobs

- Fully automatic up to +/-25% grade on X/Y/Z axes
- Withstands a 1 m (3 ft) drop onto concrete
- Long operating range - 800 m (2,600 ft) diameter
- Intuitive keypad
- Mask mode
- Various power options
- Automatic temperature compensation
- Electronic leveling vibration filter



UL633 – Construction Tough – Extremely Reliable – Easiest to Use

UL633 Specifications

- Leveling accuracy^{1,3}: ± 0.5 mm/10 m, 1/16" @ 100 ft, 10 arc seconds
- Grade accuracy^{1,3}: ± 1.0 mm/10 m, 1/8" @ 100 ft, 20 arc seconds
- Operating diameter^{1,2}: appr. 800 m (2600 feet) with detector
- Grade range (Y;X): ± 25% both axes (not simultaneously)
- Grade range (Z): ± 25%
- Rotation: 0 - 900 rpm
- Scan mode: 5 preset sizes + variable adjustment
- Laser type: red diode laser 650 nm
- Laser class : Class 3A/3R, <5mW
- Self-leveling range: appr. ± 14°
- Leveling indicators: LCD indications and LED flashes
- Radio range (HL750): up to 80 m (260 ft):
- Power source: NiMH battery pack
- Battery life¹: 35 hours NiMH; 40 hours alkaline
- Operating temp.: -20°C to 50°C (-4°F to 122°F)
- Storage temp.: -20°C to 70°C (-4°F to 158°F):
- Tripod attachments:
5/8 x 11 horizontally and vertically
- Dust and waterproof: Yes - IP67
- Weight: 3.1 kg (6.8 lbs)
- Low voltage indication: LCD battery indicator
- Low voltage disconnection: unit shuts off

HL750 Laserometer

- Highly versatile receiver for basic and advanced leveling and aligning applications
- Works with UL633 in automatic Axis Alignment, Grade Match and PlaneLok applications
- Key Features:
 - Digital readout of elevation
 - Exact distance from grade displayed
 - Anti-strobe sensor to prevent false reading from jobsite strobe lights
 - Large reception height to ease beam reception
 - Withstands a drop of up to 3m (10ft)
 - Radio communication - works with another HL750 for long range wireless remote display and monitoring capability
- User Benefits:
 - No need to go "on-grade" to measure;
 - Saves considerable time
 - Reduces rework by allowing remote monitoring
 - Increases reliability, accuracy and durability

RC603 Remote Control Specifications

- Operating range^{1,3}: up to 100 m (330 ft)
- Power source: 2 x 1.5V AA alkaline batteries
- Battery life¹: 130 hours
- Dust and waterproof: Yes - IP66
- Weight: 0.26 kg (0.57 lbs)

Spot Finder SF601 Specifications

- Operating range^{1,4}: up to 80 m (260 ft)
- Power source: 4 x 1.5V AA alkaline batteries
- Battery life¹: 30 hours
- Dust and waterproof: Yes - IP67
- Weight: 0.43 kg (0.95 lbs)

HL750 Laserometer Specifications

- Digital readout units: mm, cm, ft, in, frac. in
- Reception height: 127 mm (5 inches)
- Six On-grade sensitivities:
 - Ultra Fine 0.5 mm (~1/32 in)
 - Super Fine 1 mm (~1/16 in)
 - Fine 2 mm (~1/8 in)
 - Medium 5 mm (~1/4 in)
 - Coarse 10 mm (~1/2 in)
 - Calibration Mode 0.1 mm (~1/64 in)
- Battery life (2 x AA):
60+ hours continuous operation
- Auto shut-off: 30 minutes/24 hours
- Operating temp.: -20°C to 50°C (-4°F to 122°F)
- Dust and waterproof: Yes - IP67
- Weight: 0.27 kg (9.5 oz)
- Warranty: 3 Years "No Excuses"

⁽¹⁾ at 21° Celsius (70° F)

⁽²⁾ under optimal atmospheric circumstances

⁽³⁾ along the axis

⁽⁴⁾ depending on sun light conditions



RC603 Combined Radio/IR Remote Control for all applications including pipe laying



HL750 Laserometer to measure and display beam location



SF601 Spot Finder for manual and automatic detection of the plumb beam

SERVING AUSTRALIA SINCE 1984
GSR LASER TOOLS
GEODETTIC SUPPLY & REPAIR

**Measuring, levelling
and layout solutions
for all trades**

Mining - Aligning - Engineering - Environmental - Civil Construction
Surveying - Geological - Glass Testing - Speed Detection

GSR Laser Tools

Unit 7 / 7 Prindiville Drive

Wangara WA 6065

Ph: 08 9409 4058

sales@gsrlasertools.com.au

www.gsrlasertools.com.au