UL633N

Applications

General Construction

- Leveling concrete forms and footers
- Single and Dual slope grading
- Vertical alignment such as anchor bolt and form alignment
- Steep slope grading
- Slope work for sports fields, tennis courts, driveways, parking garages, ramps

Interior

- Layout of walls
- Installation of drop ceilings

The Most Versatile Construction Laser, Ever

The UL633N is the unique construction laser to enable the total control of all three axes (X/Y/Z). This is accomplished via simultaneous Radio and Infrared communication and also completely new “fan beam” technology for the Z axis.

Benefiting from Spectra Precision’s know-how, the UL633N 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 (Simultaneously in the X- and Y- axes)
  - 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

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
- Manual Detection of plumb beam
  - Spot Search

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
- Long operating radio range - 150 m (500 ft)
- Intuitive keypad
- Mask mode
- Includes HL760 Digital Readout Receiver
- Automatic temperature compensation
- Electronic leveling vibration filter

User Benefits

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

SPECTRA PRECISION

UL633N – Construction Tough – Extremely Reliable – Easiest to Use

UL633N 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
- Grade temperature drift sensitivity: ± 0,3 mm / 10 m / 1°C; 1/16” @ 310 ft. @ 1°F
- 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 - 750 rpm
- Scan mode: 5 preset sizes + variable adjustment
- Laser type: red diode laser 650 nm
- Laser class : Class 3
- Self-leveling range: appr. ± 14°
- Leveling indicators: LCD indications and LED flashes
- Radio range (HL760)[1,2,4]: up to 150 m (500 ft)
- Power source: NiMH battery pack/alkalines
- Battery life[1]: 35 hours NiMH
- 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
- Warranty: 5 Years

HL760 Digital Readout Receiver

- Highly versatile receiver for basic and advanced leveling and aligning applications
- Works with UL633N 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 HL760 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

RC603N Remote Control Specifications

- Operating range[1,2,4]: up to 150 m (500 ft)
- Power source: 2 x 1.5V AA alkaline batteries
- Battery life[1]: 130 hours
- Dust and waterproof: Yes - IP66
- Weight: 0.26 kg (0.57 lbs)

Spot Finder SF601 Specifications

- Operating range[1,2,4]: up to 80 m (260 ft)
- Power source: 4 x 1.5V AA alkaline batteries
- Battery life[1]: 30 hours
- Dust and waterproof: Yes - IP67
- Weight: 0.43 kg (0.95 lbs)

HL760 Digital Readout Receiver 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)
- Drop performance: 3 m (10 ft)
- 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) Heigt of instruments typ. 1m (e.g. with tripod)

RC603N Combined Radio/IR Remote Control for all applications

HL760 Digital Readout Receiver to measure and display beam location

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

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To locate your nearest distributor, please visit the Dealer Locator section at www.spectraprecision.com
Specifications and descriptions are subject to change without notice.

PN 022507-241E (05/23)