

# LL400HV

## Applications

### General Construction Applications

- Checking/setting elevations, concrete forms, footings, and foundations for large commercial jobs
- Basic slope work such as driveways and ramps

### Machine Control Applications

- Excavating for forms or footers with CR600 receiver
- Sub-base leveling with skid steer loaders and CR600 receiver
- Long range machine control applications



## Versatile Horizontal/Vertical Leveling Solution



The automatic self-leveling Spectra Precision® LL400HV Laser Level is the most rugged, long range laser level available - tough enough to handle a wide variety of general construction and vertical alignment applications. Even in harsh jobsite conditions, the LL400HV delivers consistently reliable and highly accurate performance, enabling you to work faster and smarter.

The rugged LL400HV laser can withstand drops of up to 1 meter (3 feet) onto concrete and tripod tipovers up to 1.5 meters (5 feet). This strength, combined with full weatherproofing and dustproofing, reduces downtime and lowers repair costs over the life of the product.

The LL400HV laser's self-leveling capability and optional RC402N radio remote control result in outstanding accuracy and ease of use. The advanced HL760 Digital Readout (DRO) receiver provides automatic Grade Match which connects different elevations and establishes a sloped reference over unknown ground and eliminates time consuming manual slope adjustments. PlaneLok automatically locks on to an existing elevation or vertical alignment point which eliminates all drift or possibility of error due to improper calibration or weather. The new unique "Fingerprint" function only accepts the beam from the laser it is paired with. The CR600 receiver is also an option when a machine mounted display elevation is required.

### Key Features

- Automatic horizontal and vertical self-leveling
- Accuracy 1.5mm @ 30 m (1/16 inch @ 100 ft)
- Working range of 800 m (2,600 ft) diameter
- Single-axis slope mode provides grade matching with self-leveling cross axis for improved accuracy
- Automatic Grade Match and PlaneLok capability using the optional RC402N remote control
- Customizable with choice of HL760 or CR600 receivers. Fingerprinting function is a great benefit when used with HL760 receiver
- IP66 dust and water-proof to withstand harsh jobsite conditions
- Complete kit available and fits in one case with tripod and grade rod
- 5 Year warranty

### User Benefits

- Complete leveling crew in a case - carrying case securely holds all components, tripod and grade rod (valid for the complete system kit)
- Easy to transport, easy to carry, easy to store
- Energy-efficient design offers long battery life
- Highly durable construction enables the LL400HV to survive a drop up to 1 m (3 feet) onto concrete
- Optional radio remote control allows operation of all laser functions from anywhere on the jobsite



# Versatile Horizontal/Vertical Leveling Solution

## LL400HV Specifications

- Leveling accuracy<sup>1,3</sup>: ± 1.5 mm/30 m, 1/16" @ 100 ft, 10 arc seconds
- Operating diameter<sup>1,2</sup>: appr. 800 m (2600 feet)
- Rotation: 600 rpm
- Laser type: red diode laser 650 nm
- Laser class : Class 2, <3.4 mW
- Self-leveling range: ± 5° (±9%)
- Leveling indicators: LED flashes
- Radio range (HL760): up to 100 m (330 ft)
- Power source: 10.000 mAh NiMH battery pack
- Battery life<sup>1</sup>: 47 hours NiMH; 60 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 - IP66
- Weight: 3.1 kg (6.8 lbs)
- Low voltage indication: LED battery indicator
- Low voltage disconnection: unit shuts off
- Warranty: 5 Years

## HL760 Digital Readout Receiver Specifications

- Highly versatile receiver for basic and advanced leveling and aligning applications
- Works with LL400HV in automatic 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 3 m (10 ft)
  - Fingerprint function - detects only the laser beam of the paired transmitter
- User Benefits:
  - No need to go "on-grade" to measure;
  - Saves considerable time
  - Reduces rework by allowing remote monitoring
  - Increases reliability, accuracy and durability

## RC402N Remote Control Specifications

- Operating range<sup>1,3</sup>: up to 100 m (330 ft)
- Power source: 2 x 1.5V AA alkaline batteries
- Battery life<sup>1</sup>: 130 hours
- Dust and waterproof: Yes - IP66
- Weight: 0.26 kg (0.57 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)
- Dust and waterproof: Yes - IP67
- Weight: 0.37 kg (13.1 oz)
- Warranty: 3 Years "No Excuses"

<sup>(1)</sup> at 21° Celsius (70° F)

<sup>(2)</sup> under optimal atmospheric circumstances

<sup>(3)</sup> along the axis



LL400HV features a strong metal sunshade



HL760 Digital Readout Radio Receiver to measure and display beam location



RC402N Radio Remote Control for all applications

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