

# Spectra Precision FOCUS<sup>®</sup> DL-15 Digital Level

## Datasheet



## Affordable Technology

### Key Features

#### ■ Consistent Measurement Precision

- Electronic reading
- Eliminates reading and recording errors
- Reduces operator eye fatigue

#### ■ Measure and Record with a Single Key Press

- Fast, eliminates recording errors

#### ■ Onboard Measurement Software

- Measurement routines for common leveling tasks including height determination, calculation of elevations, height differences and Cut and Fill Stakeout

#### ■ Internal Data Storage and Easy Transfer

- 16 MB of internal memory
- Mini-USB data transfer

## FOCUS<sup>®</sup> DL-15 Digital Level

The Spectra Precision FOCUS DL-15 digital level is a new, very affordable, digital level delivering simplicity, ease-of-use and versatile onboard software to provide consistent precision, performance and productivity.

### FOCUS DL-15: Instantly Productive

The FOCUS DL-15 digital level provides consistent height measurement precision through electronic reading of a standard bar code staff to an accuracy of 1.5 mm (0.005 ft.). Featuring internal data storage and a distance measurement range of 100m (328 ft.), the Spectra Precision digital level is affordable, versatile, and easy to use, an ideal choice for value.

### Powerful Onboard Software Functions

- Easy to learn and use, instantly productive, the FOCUS DL-15 provides consistent measurement precision. It eliminates reading and recording errors and reduces operator eye fatigue.
- Use on a wide range and variety of tasks requiring precise height determination. It enables the user to initiate a measurement and record the data at the push of a button.
- The FOCUS DL-15 contains measurement routines for common leveling tasks including height determination, calculation of elevations, height differences and Cut and Fill Stakeout.
- Simple data transfer from the FOCUS DL-15 via USB cable.



# Spectra Precision FOCUS DL-15 Digital Level

## Performance

### Height

- Accuracy (DIN 18723, standard deviation height measuring per 1 km (3,280.84 ft) of double leveling)
  - Electronic Measurement: 1.5 mm (0.005 ft)
  - Optical Measurement: 2.0 mm (0.007 ft)

### Distance measurement

- Accuracy
  - Distance (D) ≤10 m (32.80 ft): 10 mm (0.033 ft)
  - Distance (D) >10 m (32.80 ft): D\*0.001 mm/ft
- Range
  - Electronic Measurement: 1.5 m–100 m (4.92 ft–328.08 ft)

### Electronic Measurement

- Resolution Height Measurement: 1 mm / 0.5 mm
- Resolution Distance Measurement: 0.1 m / 0.01 m
- Measurement time: 3 sec.

### Horizontal Circle

- Graduation: 360 degrees
- Graduation interval: 1 degree
- Estimation to: 0.1 degree

### Environmental

- Operating temperature: -20 °C to +50 °C (-4 °F to +122 °F)
- Dust and water proofing: IP54

## General Specifications

### Telescope

- Objective aperture: 45 mm (0.148 ft)
- Magnification: 32x
- Resolving power: 3"
- Field of view: 1°30'
- Stadia constant: 100

### Compensator

- Type: Magnetic damping
- Compensation range: ±12'
- Setting accuracy: ±0.3"
- Circular level sensitivity: 8'/2 mm

### Display

- Dot matrix LCD, 128 x 32 dpi with illumination

### Keyboard

- 16-key numeric including 4-way navigation arrows

### Onboard Programs

- Elevation / Height difference / Cut & Fill stakeout / Distance stakeout / Height measurement

### Data Storage

- Internal: 16 MB >100,000 points
- Point number: Increasing
- Interface: Mini-USB
- Dimensions (L x W x H): 230 mm x 150 mm x 210 mm (9.0 in x 5.9 in x 8.3 in)

### Weight

- Weight (including battery): 2.5 kg (5.5 lb)

### Power Supply

- Internal battery (x2): Rechargeable Ni-Mh, 4.8 V, 2100 mAh
- Operating time: ~20 hours
- Charging time: ~5 hours



Precision Laser & Instrument, Inc.  
85 11th Street  
Ambridge, PA 15003  
(724) 266-1600

## Contact Information:

### AMERICAS

Spectra Precision Division  
10368 Westmoor Drive  
Westminster, CO 80021, USA  
+1-720-587-4700 Phone  
888-477-7516 (Toll Free in USA)

### EUROPE, MIDDLE EAST AND AFRICA

Spectra Precision Division  
Rue Thomas Edison  
ZAC de la Fleuriaye - CS 60433  
44474 Carquefou (Nantes), France  
+33 (0)2 28 09 38 00 Phone

### ASIA-PACIFIC

Spectra Precision Division  
80 Marine Parade Road  
#22-06, Parkway Parade  
Singapore 449269, Singapore  
+65-6348-2212 Phone



[www.spectraprecision.com](http://www.spectraprecision.com)

©2014 Trimble Navigation Limited. All rights reserved. Spectra Precision is a Division of Trimble Navigation Limited. Spectra Precision and the Spectra Precision logo are trademarks of Trimble Navigation Limited or its subsidiaries. All other trademarks are the property of their respective owners. (10/2014)