



A TRADITION IN PRECISION

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Leica LS Digital Levels Data sheet



Precise hardware

Automated functions and industry-leading 0.2 mm accuracy to standard Invar staffs deliver unmatched reliability. Precision begins by using the electronic level bubble to set up instruments. After one button press, automatic tilt checks are made prior to each measurement. Integrated autofocus not only finds your target faster, it increases measurement accuracy by maximizing contrast of the staff.



Infinitely bridging field to office

The comfortable field experience of Leica LS digital levels isn't finished in the field. After easily transferring your data to the office, Leica Infinity processes your results hassle-free back in the office. This intuitive software enables easy-to-understand displays of complex leveling data. Combine tables with graphics or even cross check project data in one window for an overall view of level lines, line calculations or adjustments.

ACC»

Customer care only a click away

Through Active Customer Care (ACC), a global network of experienced professionals is ready to expertly guide you through any challenge. Eliminate delays with superior technical service, and finish jobs faster and avoid costly site revisits with excellent consultancy support. Control your costs with a tailored Customer Care Package (CCP), giving you peace of mind you are covered anywhere, anytime.



- when it has to be **right**



Leica LS10 & LS15 Digital Levels



Leica LS10



Leica LS15

HEIGHT MEASUREMENT

| | | |
|--|--------|----------------|
| Accuracy ¹ using standard Invar staff | 0.3 mm | 0.2 mm, 0.3 mm |
| Accuracy ² using standard staff | 1.0 mm | 1.0 mm |

DISTANCE MEASUREMENT

| | | |
|-----------------------|---------------|---------------|
| Accuracy ³ | 15 mm at 30 m | 15 mm at 30 m |
|-----------------------|---------------|---------------|

MEASUREMENT RANGE

| | | |
|----------------------------|-------------------|-------------------|
| Minimum range | 1.8 m | 1.8 m |
| Maximum range ⁴ | 110 m | 110 m |
| Measurement time | Typically 2.5 sec | Typically 2.5 sec |

AUTOFOCUS

| | | |
|---------------|---|-------------------|
| Working range | X | 1.8 m to infinity |
| Time to focus | X | Typically 4 sec |

OVERVIEW CAMERA

| | | |
|---------------|---|----------------------------|
| Field of view | X | 6° x 4.8° (7.7° diagonal) |
| Frame rate | X | Up to 20 frames per second |
| Focus | X | 3 m to infinity |

DIGITAL COMPASS

| | | |
|-----------------------|---|--------------|
| Accuracy ⁶ | X | 3 gon / 2.7° |
|-----------------------|---|--------------|

COMPENSATOR

| | | |
|---|-------|-------|
| Working range | ± 10' | ± 10' |
| Accuracy ⁶ | 0.3" | 0.3" |
| Magnetic field sensitivity ⁵ | ≤ 1" | ≤ 1" |

INTERFACES

| | | |
|-------------|---|---|
| RS232 / USB | X | ✓ |
| Bluetooth® | ✓ | ✓ |
| Mini USB | ✓ | ✓ |

DATA STORAGE

| | | |
|-----------------|---------------------|---------------------|
| Internal memory | 30,000 measurements | 30,000 measurements |
| USB stick | ✓ | ✓ |

GENERAL

| | | |
|-----------------------------------|---------------------------------|---|
| Display | 3.6 inches, QVGA, colour, touch | 3.6' inches, QVGA, colour, touch |
| Telescope magnification | 32 x | 32 x |
| Minimum focusing distance | 0.6 m | 0.6 m |
| Electronic level bubble | X | Working range 0.07 gon / 0.063° Accuracy ⁶ 0.015 gon / 0.013° |
| Weight (including battery) | 3.7 kg | 3.9 kg |
| Internal battery / operating time | Exchangeable Lithium-Ion / 12 h | Exchangeable Lithium-Ion / 10 - 12 h |
| External power | X | 12.8 V DC (10.5-18 V) |

ENVIRONMENTAL SPECIFICATIONS

| | | |
|---------------------------|---------------------|---------------------|
| Working temperature range | -20 °C to +50 °C | -20 °C to +50 °C |
| Dust / Water (IEC 60529) | IP55 | IP55 |
| Humidity | 95%, non-condensing | 95%, non-condensing |

1 - Standard deviation, 1 km double run, ISO 17123-2. GPCL3 standard Invar staff or equivalent.
 2 - Standard deviation, 1 km double run, ISO 17123-2. GKNL4M standard staff or equivalent.
 3 - Standard deviation, 500 ppm for up to 50 m, 1000 ppm for distances beyond 50 m.
 4 - For standard staffs exceeding 3 m length, 60 m for Invar staffs.
 5 - Line of Sight difference in constant magnetic field between 0 and ±400 µT.
 6 - Standard deviation.

✓ Standard X Not Available

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