

Leica Digital Levels Equipment List



- when it has to be **right**

Leica
Geosystems

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LS Digital Levels

1 Models



	LS10	LS15
Height measurement	●	●
Distance measurement	●	●
Magnetically damped compensator	●	●
32x Magnification telescope	●	●
Manual focus	●	●
Autofocus	-	●
Overview camera for aiming and documentation	-	●
Compass	-	●
MapView / Coordinates for office export	-	●
Inview mechanical bubble	●	●
Electronic bubble / Tilt check	-	●
Communication (USB host, USB device)	●	●
Bluetooth	●	●
RS232/USB Lemo connector interface	-	●
Internal flash memory for 30.000 measurements	●	●

● Standard

- Not available

1.1 Height Measurement Accuracies

	LS10	LS15
0.3 mm	804 550	804 549
0.2 mm	-	804 548



LS10 0.3 mm and LS15 0.3 mm Digital Levels are delivered with a 3.6" QVGA colour touch screen, standard levelling applications, Quick Guide, USB card, sunshade and rain cover in container GVP731.



LS15 0.2 mm Digital Levels are delivered with a 3.6" QVGA colour touch screen, standard levelling applications, Quick Guide, USB card, sunshade and rain cover in container GVP731.

A Calibration Certificate Silver is issued with the instrument which includes tests on height accuracy in accordance to ISO 17123-1, compensator setting accuracy and magnetic field tests.

1.2 Calibration Certificates



For LS10 and LS15 Calibration Certificates Blue are available via myWorld download. For Service Calibration Certificates see Standard Service Products (SSPs) document.

Accessories

2 Power Supply

2.1 Internal Batteries



799 190	GEB331	Lithium-Ion battery, 11.1 V / 2.8 Ah, rechargeable.
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2.2 External Batteries



818 916	GEB371	External universal battery, Li-Ion, 13 V / 19 Ah / 250 Wh, rechargeable.
807 696	GEV270	Power supply unit for TPS/GNSS/LS. For indoor use only. Input 100-240VAC to output 13.2VDC, with connection for power cables. 👉 Requires a GEV219, GEV220 or GEV261 cable.

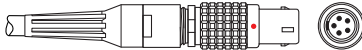
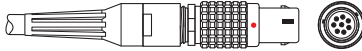
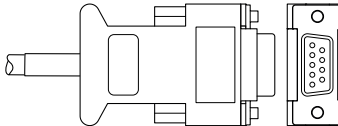
2.3 Battery Chargers



799 185	GKL311	Single-bay Charger Professional 3000. Charger for one Li-Ion battery (GEB211, GEB212, GEB221, GEB222, GEB241, GEB242 and GEB331), including AC/DC adaptor and cigarette lighter cable.
799 187	GKL341	Multi-bay Charger Professional 5000. Charges up to 4 batteries (GEB211, GEB212, GEB221, GEB222, GEB241, GEB242 and GEB331), including power cable.
734 389	GDC221	Car adapter for the GKL341 charger. Allows the use of the GKL341 with a cigarette lighter; 12V/24V DC/DC converter. Can also be used to power CS15 field controller directly from a cigarette lighter.
774 437	GEV242	Charger for GEB371 external battery.

3 Connectivity

3.1 Connector Types

Name	Used on	
Lemo1 5-pin	Battery / External power	
Lemo1 8-pin	LS15 Digital Level	
USB A	PC / Laptop	
9-pin RS232 serial	PC / Laptop	
USB mini	LS10 and LS15 Digital Levels	

3.2 Cables



For LS10:

764 700	GEV223	USB cable to connect instrument to PC for office data transfer, USB A to Mini USB, for LS10 and LS15 Digital Levels.
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For LS15:

439 038	GEV71	Car battery cable, connects 12V car battery connector to Lemo1 5-pin. GEV219, GEV220 or GEV261 cables required.
733 282	GEV162	Serial data cable for communication to PC, connects Lemo1 8-pin to 9-pin RS232 serial.
758 469	GEV219	Power cable between LS15 and battery, Lemo1 5-pin to Lemo1 8-pin.
759 257	GEV220	Serial data Y-cable, connects Lemo1 8-pin connector to PC (9-pin RS232 serial) and external battery (Lemo1 5pin), 2m.
764 700	GEV223	USB cable to connect instrument to PC for office data transfer, USB A to Mini USB, for LS10 and LS15 Digital Levels.
767 899	GEV234	USB data cable for communication to PC, Lemo1 8-pin to USB A connector.
771 057	GEV236	Serial data Y-cable for setups including a radio link, Lemo1 5-pin (battery) to Lemo1 8-pin (instrument) and Lemo1 8-pin (external TS radio).
793 364	GEV261	USB data X-cable for communication to PC, connects Lemo1 8-pin to PC USB A connector (USB data) and PC 9-pin RS232 connector (serial data) and external battery (Lemo1 5-pin).
806 095	GEV269	Serial data transfer cable, converter cable USB A to Lemo1 8-pin, connects LS15 to PC, PC driver included on CD.

4 Setup

4.1 Objective



636 977	GSB5	Sunshade for Digital Level. (1x included in standard delivery)
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4.2 Tripods



328 422	GST40	Heavy duty tripod, with rigid legs, for highest accuracy levelling.
296 632	GST20	Heavy duty tripod, with side clamp screws, carrying strap and plumb bob.
394 752	GST20-9	Heavy duty tripod, with side clamp screws and carrying strap.
667 301	GST120-9	Heavy duty tripod, self-closing, with side clamp screws and carrying strap.
332 200	GST4	Tripod-star, for setting up tripods on hard and slippery surfaces.

4.3 Staffs



PROFESSIONAL 5000

560 271	GPCL3	Invar bar code levelling staff, 3 m, with circular level.
560 274	GPCL3	Invar bar code levelling staff, 3 m, with circular level, with expansion coefficient certificate and length calibration certificate.
563 659	GPCL2	Invar bar code levelling staff, 2 m, with circular level.
632 313	GWCL92	Industrial code levelling staff, 92 cm, invar staff with circular bubble and 2 interchangeable bases.
563 733	GWCL60	Invar bar code scale, 60 cm.

PROFESSIONAL 3000

522 794	GKNL4M	Dual face levelling staff, 4 m, 3 sections, code/cm graduation, with handles and circular bubble, in transport bag.
522 793	GKNL4F	Dual face levelling staff, 13.3 ft, 3 sections, code/ft graduation, with handles and circular bubble, in transport bag.
667 113	GTL4C	Telescopic levelling staff, 4 m, aluminium, bar code/mm graduation, with bull's eye bubble, in transport bag.
757 761	GTL4M	Telescopic levelling staff, 4 m, fibreglass, bar code/mm graduation, with bull's eye bubble, in transportation bag.

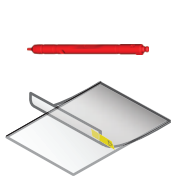
4.4 Staff Accessories



197 000	GLUS1	Ground plate.
555 638	GSL3	Pair of struts for GPCL3/GPLE3N staff.
555 641	GVP469	Transport case for 2 GPCL2/GPLE2N staffs.
555 642	GVP470	Transport case for 2 GPCL3/GPLE3N staffs.

5 Other Accessories

5.1 Pen and Screen Protections Foil



Extra Pen		
813 914	GDZ71	Pen with tether clip interface for LS Digital Levels, CS20 field controller and TS16/MS60/TS60 instruments.
Screen Protection Foil		
799 660	SPF04	3.6" QVGA screen protection foil for LS Digital Levels.

6 Office Software Package

6.1 Leica Infinity



Node Locked Licenses	
808 787	Infinity Basic License (Node-Locked).
835 322	Infinity Level Data Processing + 1D Adjustment.
Floating Licenses	
808 788	Infinity Basic License (Floating).
835 322	Infinity Level Data Processing + 1D Adjustment.

Care Packages

7 Customer Care Packages



A wide selection of comprehensive Customer Care Packages (CCPs) is available bundling Hardware Maintenance, Software Maintenance, Customer Support and Extended Warranty.

For more information about the CCP offering in your country please contact your local Leica Geosystems organization or distribution partner.

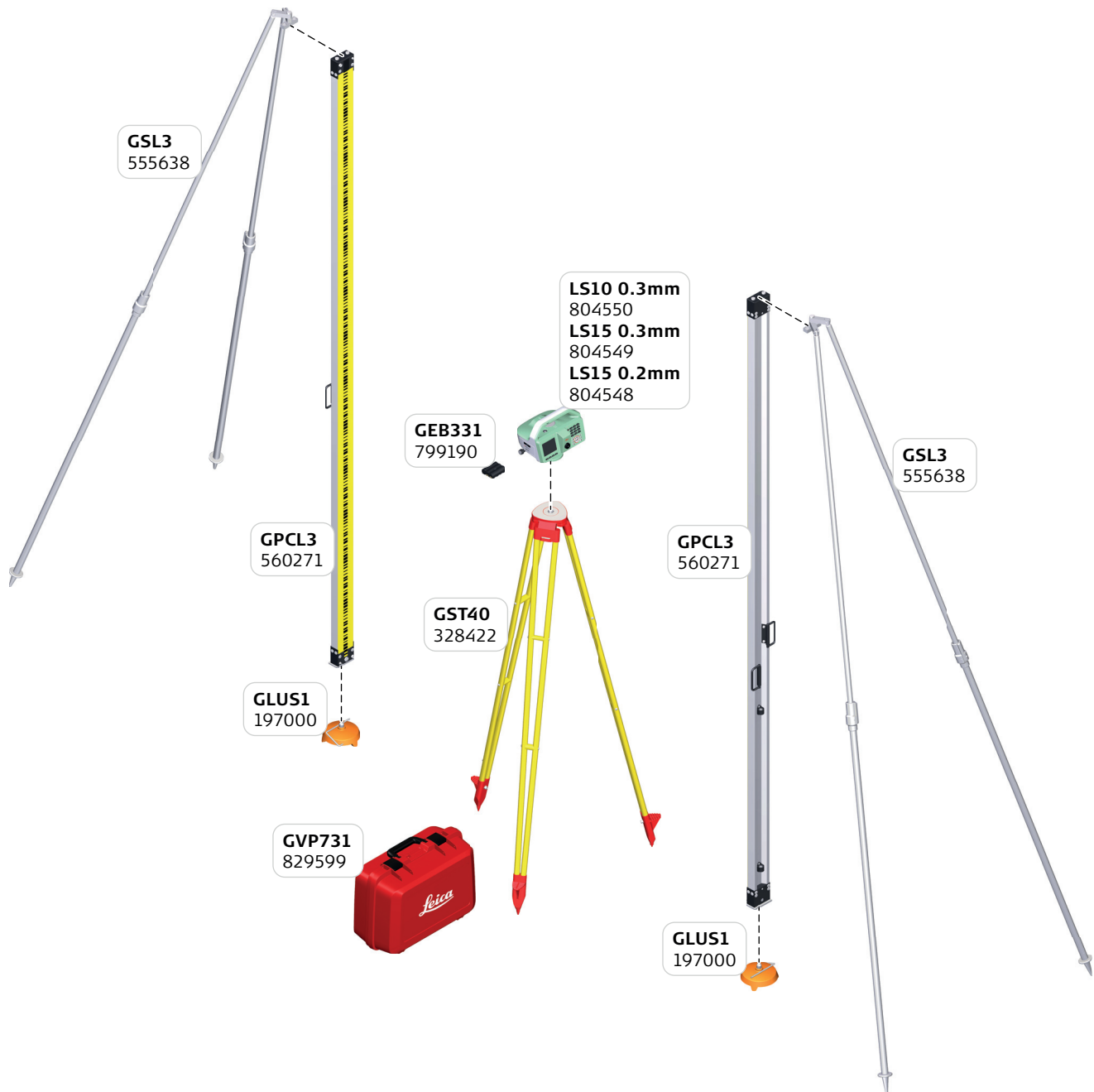
Trademarks & Technical Data

8 Trademarks

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Suggested Equipment Setup

9 Using a LS Digital Level



Leica Geosystems - when it has to be right.

Revolutionising the world of measurement and survey for nearly 200 years, Leica Geosystems creates complete solutions for professionals across the planet. Known for valuable products and innovative solution development, professionals in a diverse mix of industries, such as aerospace and defence, safety and security, construction, and manufacturing, trust Leica Geosystems for all their geospatial needs. With precise and accurate instruments, sophisticated software, and dependable services, Leica Geosystems delivers value every day to those shaping the future of our world.

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