

Leica Geosystems Catalogue 2009

The right tools for any
construction site



SITE PROOF
by Leica Geosystems

- when it has to be **right**

Leica
Geosystems

Swiss Technology

Quality builds trust

Dedicated to Innovative Technology and Quality

Leica Geosystems is one of the world's leading providers of modern surveying solutions. Quality is not only our aspiration but our obligation. It is the result of over 200 years of tradition and of constant innovations based on intensive research.

To ensure our instruments meet the highest precision and quality demands, we manufacture them in state-of-the-art facilities around the world, where Swiss technology is combined with exceptional craftsmanship.



Performance check at -30°C in an accessible climatic chamber

Leica Geosystems Construction Tools - Robust and Reliable

Leica Geosystems construction tools are renowned for being robust and dependable on all construction sites; they provide the best reliability over many years, even in extreme environments. All Leica Geosystems construction tools undergo stringent mechanical and environmental tests before they leave our factories. Your benefit – Leica Geosystems construction tools provide you with the confidence you expect from your instrument.



Extended Warranty

For decades millions of users have placed their trust in Leica Geosystems products. The basis for this success is not only our power of innovation but also the great emphasis we place on the quality and reliability of our devices.

Since May 2008, Leica Geosystems offers a one year extended warranty period on many instruments. All construction instruments applicable for an extended warranty are available in this catalogue. All you have to do is simply register your instrument within 8 weeks from purchasing at www.leica-geosystems.com/registration.



What are the conditions to be fulfilled in order to obtain the warranty?

- The end customer must register the product on our website at www.leica-geosystems.com/registration within 8 weeks of the date of purchase, otherwise the standard warranty period applies.
- The warranty relates to the date of purchase by the end customer (after 1.1.2008).
- An extended warranty is currently offered only on the Leica DISTO™ A2, A3, A5, A6, D2, D3, D5 and D8, Rugby 50/55, Rugby 260/270SG & 280DG, Rugby 320SG & 410/420DG, Piper 100/200, Roteo 35 and NA700 series.



For more detailed information please refer to our homepage.

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Level Overview

Extreme robustness, high measurement precision and an extremely competitive price. All this makes the difference! Moreover, Leica Geosystems levels are so easy to use. No need to spend time in training.

Our ergonomic optics are probably the finest optics in the world. Banish tired eyes forever and ensure you're really aiming accurately at the target, even in extreme light conditions.

Leica Geosystems levels can be configured to suit your work and preferences. Horizontal angles can be read in either degrees or gons, with some levels.

Just in case – some of our Leica Geosystems levels are shock resistant. So the systems can continue to be used, even after a fall.



APPLICATIONS	Jogger 20/24	Runner 20/24	NA720	NA724	NA728	NA730	NA2/NAK2
Daily levelling tasks: Site foremen, carpenters, construction companies, landscaping	X	X	X	X	X	X	-
Daily levelling tasks: with high demand for product robustness e.g. for construction of roads, railways and buildings	-	-	X	X	X	X	-
High accuracy levelling : even for building or engineering surveyors	-	-	-	-	X	X	X
Precision levelling: even for settlement determinations on building, deformation measurement and monitoring bridges	-	-	-	-	-	-	X
FEATURES							
Water resistant	X	X	X	X	X	X	X
Waterproof (immersion) & dustproof	-	-	X	X	X	X	-
Shock resistant	-	-	X	X	X	X	-
Rough/fine focus	-	-	-	-	X	X	-
Parallel-Plate micrometer for precise levelling (optional)	-	-	-	-	-	-	X
Warranty	1 year	1 year	2 years + 1	2 years + 1	2 years + 1	2 years + 1	3 years



Levelling can be so easy with digital levels from Leica Geosystems. Push the button and heights, height differences and distances are automatically displayed. There will be no more misreading and interpretation errors in reading the staff.

It is also possible to use it as an optical level. But compared to a conventional level, the digital levels effortlessly, fast measurements could save your valuable time and reduce errors. Our digital levels even include additional error reducing functions such as built-in tilt sensors, preventing the system from measuring if the user operates outside the compensator range.

For high accuracy requirements, Leica Geosystems provides additional digital levels like Leica DNA03/10. For further information please visit our homepage www.leica-geosystems.com.



APPLICATIONS	Sprinter 50	Sprinter 150	Sprinter 150M	Sprinter 250M
Error-free levelling for all construction applications, e.g. for construction off-road, railways and buildings	X	X	X	X
Error-free levelling for all construction applications with demand for data storage and transfer, e.g. road & building construction	-	-	X	X
High accuracy levelling in all application areas, e.g. road & building construction, civil engineering, topography and cadastral	-	-	-	X
High accuracy levelling in all areas with demand for data storage and transfer, e.g. architecture and engineers survey	-	-	-	X
FEATURES				
Optical staff reading	X	X	X	X
Automatic staff reading	X	X	X	X
Inverse staff reading	X	X	X	X
Automatic calculation of heights & distances	X	X	X	X
Delta Height	-	X	X	X
Multilingual function	-	X	X	X
Tracking	-	X	X	X
Cut & Fill and monitoring	-	-	X	X
Line Levelling	-	-	X	X
Data storage & USB	-	-	X	X



Leica Jogger 20/24

Fit for Work

The Jogger 20 and 24 are economical levels for any construction team – carpenters, supervisors, engineers & architects etc.

These job site levels are always ready for fast setting up on tripod. Coarse aiming at target with large peep sight is easy & swift, increasing your levelling work efficiency.

They are easy to use and reliable in measurement for all levelling tasks around the job site.



Leica Jogger 20

Automatic level in carry case, with 20x magn.

1

Order No: 762 263

Leica Jogger 24

Automatic level in carry case, with 24x magn.

Order No: 762 264

Leica Jogger 20 Set

incl. automatic level in carry case (20x magn.), aluminium tripod, telescopic staff, carry bag for staff and tripod

Order No: 767 713

Leica Jogger 24 Set

incl. automatic level in carry case (24x magn.), aluminium tripod, telescopic staff, carry bag for staff and tripod

Order No: 767 714

CTP106 Aluminium tripod

Light-weight with shoulder strap and side clamp screws

2

Order No: 767 712

CLR101, Telescopic Level Staff

4 m length, 4 sections, dual face E-graduation and mm-graduation

3

Order No: 727 587



FEATURES

	Jogger 20	Jogger 24
Magnification	20x	24x
Angle Measurement	360°	360°
Standard deviation (per km double-run)	2.5 mm	2.0 mm
Shortest focusing distance	< 1 m	< 1 m
Dust/ Water Protection	IP54	IP54
Working Temperature	-20°C to +40°C	-20°C to +40°C
Weight	1.5 kg	1.5 kg

Leica Runner 20/24

Tough and Accurate

Leica Runner 20 and 24 are two robust and value-priced, automatic builder's levels. Designed to work hard on the job site. They are quick to set up, simple to use and very reliable.

The automatic compensator and the quality optics speed up measurements on site and increase accuracy.

Runner is the ideal construction level for site foremen, engineers, architects, landscape gardeners, carpenters, construction companies and many more.



1

Runner 20, Automatic Level

With 20x magnification,
Standard deviation per km 2.5 mm
(double-run levelling)

1

Order No: 727 585

Runner 24, Automatic Level

With 24x magnification
Standard deviation per km 2.0 mm
(double-run levelling)

Order No: 727 586

CTP104 Aluminium Tripod

Medium duty aluminium tripod with carrying strap
and fast clamps

2

Order No: 767 710

CLR104, Telescopic Level Staff

5 m length, 5 sections, dual face
E-graduation and mm-graduation

3

Order No: 743 420



2

3



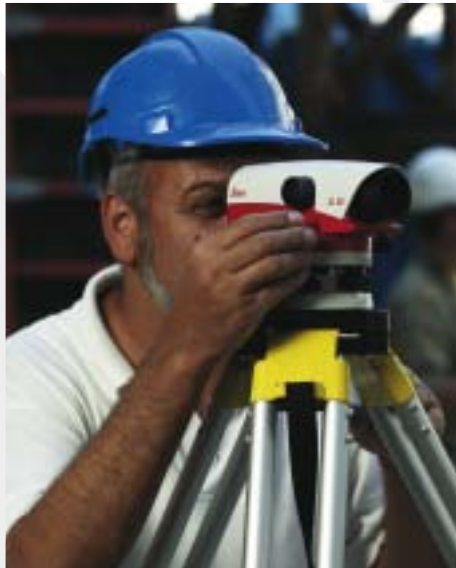
FEATURES

	Runner 20	Runner 24
Magnification	20x	24x
Angle Measurement	360°	360°
Standard deviation (per km double-run)	2.5 mm	2.0 mm
Dust/ Water Protection	IP55	IP55
Working Temperature	-20°C to +50°C	-20°C to +50°C
Weight	2.0 kg	2.0 kg

Leica NA700 Levels

Built for Builders, Engineers and Surveyors

Nothing stops a Leica NA700 level. A short drop onto the ground, a fall into water, vibration from heavy machinery – with a Leica NA700 level you just carry on working. And, the ‘best in class’ optics enable you to always work as precisely as possible, even in twilight. The NA728 and NA730 have a rough/fine focus drive making your work even easier. What does this add up to? Reduced work downtime, translating into higher productivity, reliability and accuracy at an extremely reasonable price.



NA720, Automatic Level

20x telescopic magnification. The automatic level for all applications on the construction site

1 Order No: 641 982

NA724, Automatic Level

24x telescopic magnification for improved accuracy. Reliability and robustness for the demanding construction user

Order No: 641 983

NA728, Automatic Level

28x telescopic magnification, precision compensator. The all-rounder. For building or engineering surveys

Order No: 641 984

NA730, Automatic Level

30x telescopic magnification. The most precise. Meets the highest standards in construction, engineering and topographic surveys

Order No: 641 985

CTP104 Aluminium Tripod

Medium duty aluminium tripod with carrying strap and fast clamps

2 Order No: 767 710

CLR104, Telescopic Level Staff

5 m length, 5 sections, dual face E-graduation and mm-graduation

3 Order No: 743 420



1



2



3

FEATURES	NA720	NA724	NA728	NA730
Magnification	20x	24x	28x	30x
Angle Measurement	360°/400gon	360°/400gon	360°/400gon	360°/400gon
Standard deviation (per km double-run)	2.5 mm	2.0 mm	1.5 mm	1.0 mm
Dust/ Water Protection	IP57	IP57	IP57	IP57
Working Temperature	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C
Weight	1.6 kg	1.6 kg	1.7 kg	1.7 kg

Leica NA2/NAK2

The classical Level from Leica Geosystems

The Leica NA2 universal automatic level meets all requirements - regarding precision, convenience and reliability. It was designed by surveyors and development engineers with years of experience, that know what a field instrument has to be able to do. The NA2 soon pays for itself, because it can be used for all types of surveying jobs; on building sites for routine levelling, in engineering projects and for geodetic control at all levels of accuracy.



NA2, Universal Automatic Level

Magnification: 32x

Standard deviation per km 0.7 mm (double-run levelling, depending on staff and technique)

1 Order No: 352 036

NAK2, Universal Automatic Level (400gon)

Magnification: 32x

Standard deviation per km 0.7 mm (double-run levelling, depending on staff and technique)

2 Order No: 352 039

NAK2, Universal Automatic Level (360°)

Same as before, but horizontal circle 360°, optical scale interval 10', reading by estimation 1'

3 Order No: 352 038

GPM3, Parallel-Plate Micrometer

In container, measuring range 10 mm

4 Order No: 356 121

GOA2, Autocollimation Eyepiece

For all instruments

5 Order No: 199 899

GFZ3, Diagonal Eyepiece

Allows steep sights

6 Order No: 734 514

FOK73, 40x Eyepiece

For NA2/NAK2, exchangeable against standard eyepiece

7 Order No: 346 475



1



2



3



4



5

FEATURES	NA2	NAK2
Magnification	32x	standard: 32x FOK73 eyepiece (optional): 40x
Angle Measurement	-	360°/400gon
Standard deviation (per km double-run)	0.7 mm/km (0.3 mm with parallel-plate micrometer)	0.7 mm/km (0.3 mm with parallel-plate micrometer)
Dust/ Water Protection	IP53	IP53
Working Temperature	-20°C to +50°C	-20°C to +50°C
Weight	2.4 kg	2.4 kg

Leica Sprinter

Go ahead....
Push the button

Sprinter 50

The Leica Sprinter 50 is the perfect levelling tool for daily tasks and basic work on the construction site. The user just aims, focuses the staff like an optical level, and measures by pressing one single button. The data is displayed almost instantly. Misreadings are eliminated, and error reducing functions, such as the tilt sensor, prevent the system from measuring if the user operates outside the compensator range.

Sprinter 150 / 150M / 250M

For more complex construction tasks, the Sprinter 150 automatically determines delta height and reduced level. The Sprinter 150M and 250M, on the other hand, are the perfect tools for advanced construction levelling tasks. They can store up to 1'000 measurements, and the user can download and transfer these for further calculations to a PC with Excel® easier than ever before via USB. The Sprinter's onboard software, with functionalities such as Line Levelling and Cut & Fill as well as monitoring, facilitates all levelling jobs significantly. And best of all - it's available in your language!



Aim and Focus



Push the button



Read



Calculate



Memorise



	A	B	C
1	1	1.981	1.848
2	2	1	1.873
3	2	1	1.858
4	2	1	1.885
5	3	1	1.848
6	4	1	1.801
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			

Download

Sprinter 50

Electronic level, standard deviation 2.0 mm, includes container, strap, adjustment tools, user manual, leaflet, 4 AA batteries
US Version Order No: 764 686

Order No: 762 628**Sprinter 150**

Electronic level, standard deviation 1.5 mm, includes container, strap, adjustment tools, user manual, 4 AA batteries

Order No: 762 629**Sprinter 150M**

Electronic level with internal memory, standard deviation 1.5 mm, includes container, strap, adjustment tools, user manual, 4 AA batteries, USB cable, CD

Order No: 762 630**Sprinter 250M**

Electronic level with internal memory, standard deviation 1.0 mm, includes container, strap, adjustment tools, user manual, 4 AA batteries, USB cable, CD

Order No: 762 631**Multilingual Function**

The Sprinter 150/150M/250M are featured with multiple languages onboard. This allows the user to choose the preferred language.

GKL 25, Charger SANYO Brand NC-MQR02U

For 4xAA(R6)rechargeable batteries, European version. + 4 AA(R6) SANYO 1.2V/2100mAh NiMH rechargeable batteries

1**Order No: 741 905****GSS 111, Dual Face Telescopic Levelling Staff**

5 m, 4 sections, Sprinter barcode/E-Scale cm-graduation, with circular bubble, in transport bag (Std. version)

2**Order No: 741 882****GSS 111-2, Barcode/5mm-graduation (Japan)****Order No: 741 885****GSS 112-3, Barcode/E-Scale cm-graduation (UK)****Order No: 741 884****GSS 112-5, Barcode/2mm-graduation (Spain)****Order No: 741 886****GSS113, Fibreglass dual face staff**

3 m, 1 section, Sprinter barcode/E-scale cm-graduation, with circular bubble, transport bag

3**Order No: 764 452****CTP104 Aluminium Tripod**

Medium duty aluminium tripod with carrying strap and fast clamps

3**Order No: 767 710****CTP106 Aluminium tripod**

Light-weight with shoulder strap and side clamp screws

4**Order No: 767 712**

Technical Data	Sprinter 50	Sprinter 150/150M	Sprinter 250M
Height accuracies	Standard deviation height measurement per 1 km double run (ISO 17123-2)		
-Electronic measurement*	2.0 mm	1.5 mm	1.0/0.7* mm
-Optical measurement	With standard aluminum E-scale/Numeral staff: 2.5 mm		
-Single staff reading	Standard Deviation: 0.6 mm (electronic) and 1.2 mm (optical) at 30 m		
Distance accuracies	Standard deviation distance measurement 10 mm for D < 10 m and (Distance in m x 0.001) for D > 10 m		
Range	2 - 100 m (electronic)		
Measuring modes	Single and Tracking		
Time for single measurement	<3 sec		
Compensator	Magnet damped pendulum compensator (range +/- 10 min)		
Telescope	Magnification (optical) 24x		
Data storage	up to 1'000 points (only 150M)		up to 1'000 points
Environmental conditions	IP55		
Power supply	AA dry cells (4 x LR6/AA/AM3 1.5 V)		
Weight	<2.5 kg		

* 0.7 mm can be achieved with Sprinter fibre glass barcode staff

Laser Overview

Whether it's general construction, pipe laying, machine control, or interior walls and ceilings, our lasers are built to handle any environment.

All construction lasers are of high technology and high precision tools. Compare these features and you'll see why our construction lasers set the standard for durability and value. Leica Geosystems lasers are waterproof, that means all critical components are completely protected from all wet weather conditions. The aluminum base of the Rugby 100/100LR/200 withstands rough handling and is highly resistant to abrasion and fracture.

Construction-tough components have all undergone rigorous testing to assure long life under harsh conditions.



APPLICATIONS	Rugby 50	Rugby 100	Rugby 100LR	Roteo 35	Rugby 55	Rugby 200
General construction: excavation, footing, concrete forming	X	X	X	-	X	X
Civil engineering: parking lots, runways, sports fields	-	-	X	-	-	-
Interior construction	-	-	-	X	X	X
Installing ceiling grids	-	-	-	X	X	X
Transferring points from floor to ceiling	-	-	-	X	X	X
Machine control of excavators, graders, dozers and similar equipment	X	X	X	-	-	-
Agricultural applications such as land levelling or tiling	-	-	X	-	-	-

FEATURES	Rugby 50	Rugby 100	Rugby 100LR	Roteo 35	Rugby 55	Rugby 200
Waterproof and dustproof	IP55	IP56	IP56	IP54	IP55	IP56
Co-molded rubber bumpers	-	X	X	-	-	X
Elevation alert	X	X	X	X	X	X
Working Range up to 750 m diameter	-	-	X	-	-	-
Scan Modes	-	-	-	X	X	X
Remote Control	-	-	-	X	X	X
Grade entry with display	-	-	-	-	-	-
Manual Grade Capability	-	X	X	X	X	x
Two-year plus knockdown warranty	-	X	X	-	-	X



Grade Laser

Leica Geosystems' Grade Lasers are the most accurate and reliable lasers for machine control applications that require precise grade. They can be used wherever level, single or dual grades are required and are compatible with Leica Geosystems' 2D and 3D Machine Control Systems for ultimate grade control.



APPLICATIONS	Rugby 260SG	Rugby 270SG	Rugby 280DG	Rugby 320SG	Rugby 410DG	Rugby 420DG
General construction: excavation, footing, concrete forming	X	X	X	X	X	X
Civil engineering: parking lots, runways, sports fields	-	-	-	X	X	X
Installing septic and gravity flow pipe for drainage	X	X	X	X	X	X
Machine control of excavators, graders, dozers and similar equipment	X	X	X	X	X	X
Agricultural applications such as land levelling or tiling	-	-	-	X	X	X
FEATURES						
Waterproof and dustproof	IP67	IP67	IP67	IP57	IP57	IP57
High impact composite housing	X	X	X	X	X	X
Elevation alert	X	X	X	X	X	X
Working Range up to diameter	600 m	700 m	700 m	900 m	800 m	1100 m
Scan Modes	-	-	X	-	-	-
Remote Control	-	-	X	-	X	X
Grade entry with display	X	X	X	X	X	X
Dual Grade	-	-	X	-	X	X
Two-year warranty	X	X	X	X	X	X
Two-year plus knockdown warranty	X	X	X	-	-	-



Leica Rugby 50

The simple one-button Construction Laser

Designed for general construction, the Leica Rugby 50 is a tough, affordable laser; ready to work when the user is. The Leica Rugby 50 has only one button. Press the button, wait until it self-levels and the head starts rotating, then work can begin. It will continue to self-level over the course of the day to ensure that work is accomplished reliably and accurately. H.I. Alert features monitor the Leica Rugby 50 as it works and shuts it down if it senses a bump or movement of the tripod.



Features:

- Simple, one-button operation
- High impact composite housing
- Fully sealed with protected head
- Watertight for all conditions
- Long battery life
- H.I. (Elevation) Alert protection/ Out of level indication
- Low battery indicator

Recommended Rugby 50 Package with Alkaline

Consisting of: Rugby 50 with Carrying Case, RE Classic and Bracket, Alkaline Batteries & Battery holder

Order No: 6000733

Recommended Rugby 50 Package with rechargeable Batteries

Consisting of: Rugby 50 with Carrying Case, RE Classic and Bracket, NiMH Battery Pack, Rugby 50/55 Universal Charger Adapter

Order No: 6000734

Universal Charger / Power Supply

For Rugby 50/55/100/100LR/200/260SG/270SG/280DG
(incl. separate power cable)

1

Order No: 727 165



1

Alkaline Battery Holder

For Rugby 50/55 (without batteries)

2

Order No: 752 048



2

NiMH Battery Pack

For Rugby 50/55

3

Order No: 752 049



3

Leica Rugby 100/100LR

The rugged Family of Construction Lasers

The Leica Rugby 100 and Leica Rugby 100LR are automatic self-levelling rotating lasers for general construction and machine control. They are designed to be rugged yet easy to use. They can make quick work of concrete forming, pad placement and framework, setting foundations and footings, etc. The Rugby 100LR with its longer distance and increased accuracy is a perfect solution for level machine control applications.

The Leica Rugby 100 and 100LR have become the standard in general construction lasers. Ruggedness, accuracy and reliability are the key to the success of the Leica Rugby's.

Features:

- Waterproof and dust proof to work reliably in all weather and job site conditions
- Wide, stable aluminum base for maximum strength and stability
- The head is enclosed to protect the interior parts
- Rugged, high-impact housing
- Two-year plus knockdown warranty



Rugby 100 Package

Consisting of: Rugby 100 with Carrying Case, Rod-Eye Classic Laser Sensor with Clamp & Alkaline Batteries With rechargeable Batteries
Order No. 731 559

Order No: 731 558

Rugby 100LR Package

Consisting of: Rugby 100LR with Carrying Case, Alkaline Battery Set, Rod-Eye Pro Laser Sensor with Clamp With rechargeable Batteries
Order No. 733 622

Order No: 733 621

NiMH Battery Pack

For Rugby 100/100LR/200/260SG/270SG/280DG

1

Order No: 726 746



1

Universal Charger / Power Supply

For Rugby 50/55/100/100LR/200/260SG/270SG/280DG (incl. separate power cable)

2

Order No: 727 165



2

Alkaline Battery Holder

For Rugby 100/100LR/200/260SG/270SG/280DG (without batteries)

3

Order No: 726 747



3

Lasers at a glance	Rugby 50	Rugby 100	Rugby 100LR
Working Range (diameter)	300 m	300 m	750 m
Accuracy	± 2.6 mm @ 30 m	± 1.5 mm @ 30 m	± 1.5 mm @ 30 m
Self-levelling	H	H	H
Waterproof	IP55	IP56	IP56
Manual grade operation	No	Yes	Yes
Two-year warranty	Yes*	Yes**	Yes**
Laser class	1	2	1

* with registration

** automatic plus knockdown warranty

Leica Roteo 35

All-round perfection for interior works

On ceilings or walls, on floors or using a tripod, the Leica Roteo 35 rotating laser is a multi-talented performer. You can use it for many tasks in interior works where levelling or aligning is required.

Featured with

- Motorised Wallmount
- Easy to use key pad
- Horizontal and vertical self-levelling
- 90° plumb beam
- Removable protective cage
- Outstanding battery life for working without interruption
- Head directly driven by brushless motor, allows easy manipulation and wear free operation
- Alarm function



Accessories & Packages

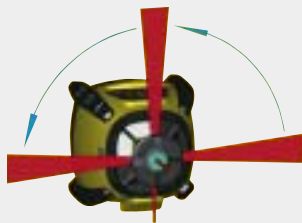
			WMR Package	WM Package
		Order No:	762 752	762 766
Product	Leica Roteo 35 Laser	762 767	X	X
Accessories	Motorised wall mount for Roteo 35	762 769	X	X
	Charger for Leica Roteo 35	762 774	X	X
	Rechargeable Batteries (NiMH) for Roteo 35	762 773	X	X
	CLB10, Laser Glasses * Red lens glasses for improved visibility of the laser dot in bright rooms and outdoors up to 10 - 15 m	723 777	X	X
	Target plate	762 775	X	X
	Alkaline battery holder for Leica Roteo 35	762 772	X	X
	Carry case for Leica Roteo 35	765 754	X	X
1	RRC350 Laser receiver with bracket to detect the reference laser beam	762 771	X	
	RC350, Remote Control incl. battery	762 770		X
	Bracket for Receiver RRC350	762 777		
2	CLR290, Clamp Rod ** With mounting platform. For easy and quick fixation between ceiling and floor without touching the walls.	761 762		
3	CET103 Elevator tripod with shoulder strap, fast clamps and bubble, min. working height 84 cm, max. extension 246 cm (incl. extendible center column), with mm-scale, exchangeable rubber feet	768 033		

* Design of laser glasses supplied in the original scope of delivery might differ from item No. 723 777
 ** Not available in the USA

Leica Rugby 55

The multipurpose Construction Laser

Designed for interior construction, the Leica Rugby 55 is a tough, versatile laser. It provides today's contractor with the tools needed for virtually any levelling or alignment job. The Leica Rugby 55 features an easy to use keypad, a watertight seal, variable head speeds, selectable scanning modes, a bright red beam and an alkaline or rechargeable NiMH battery pack. It is aimed at contractors who are focused on interior applications.



Scan-90

With the Leica Rugby 55 the scanning or stationary beam can be quickly positioned in 90° increments.



Beam Down Mode

By selecting zero rps with the head speed button, the rotating head automatically positions itself in a plumb down direction for alignment of the Leica Rugby 55 over a reference point.



Sleep Mode

Pressing the Up and Down buttons together on the remote will put the Leica Rugby 55 into sleep mode for two hours to save battery life without disturbing your setup.

Rugby 55 Interior Package

Consisting of: Rugby 55 with Interior Carrying Case, IR Remote Control, Wall Mount Bracket, Ceiling Grid Targets (2), Alkaline Battery Holder, Alkaline Batteries
With rechargeable Batteries
Order No. 60000727

Order No: 6000726

Ceiling Grid Target, Magnetic

1 Order No: 732 791

Wallmount Bracket

2 Order No: 733 073

IR Remote Control

3 Order No: 755 008

NiMH Battery Pack

For Rugby 50/55

4 Order No: 752 048

Alkaline Battery Holder

For Rugby 50/55 (without batteries)

5 Order No: 752 048

Universal Charger / Power Supply

For Rugby 50/55/100/100LR/200/260SG/270SG/280DG
(incl. separate power cable)

6 Order No: 727 165



1



2



3



4



5



6

Leica Rugby 200

Tough Inside and Out

The Leica Rugby 200 is a heavy-duty, horizontal and vertical self-levelling laser. Completely sealed, the Rugby 200 is ideal, inside and out, for both general and interior construction applications. Similar to the Rugby 100/100LR it is featured with a knockdown warranty. You can use it for installing ceiling grids and laying out walls, installing raised access floors as well as exterior site preparation.

Features:

- 10" accuracy
- Fully automatic self-levelling
- Variable head speeds
- Selectable scan modes
- Manual with cross-axis self-levelling
- Automatic H.I. elevation alert
- Plumb reference point feature
- Sealed and waterproof
- Two-year plus knockdown warranty



Rugby 200 Package

Rugby 200 with Carrying Case, Rod Eye Laser Sensor and Bracket, Alkaline Batteries with Holder With rechargeable batteries Order No. 747 767

Order No: 747 766

Ceiling Grid Target, Magnetic

1 Order No: 732 791



1

Wallmount Bracket

2 Order No: 733 073



2

Wallmount/Laydown Bracket Rugby 200

Order No: 733 077

Infrared Remote Control Rugby 200

3 Order No: 731 645



3

NiMH Battery Pack

For Rugby 100/100LR/200/260SG/270SG/280DG

4 Order No: 726 746



4

Alkaline Battery Holder (without batteries)

For Rugby 100/100LR/200/260SG/270SG/280DG

5 Order No: 726 747



5

Universal Charger / Power Supply

For Rugby 50/55/100/100LR/200/260SG/270SG/280DG

(incl. separate power cable)

6 Order No: 727 165



6

Lasers at a glance	Rugby 55	Rugby 200
Working Range (diameter)	600 m	600 m
Accuracy	± 2.6 mm @ 30 m	± 1.5 mm @ 30 m
Self-levelling	H+V	H+V
Waterproof	IP55	IP56
Scan function	Yes	Yes
Remote control	Yes	Yes
Two-year warranty	Yes*	Yes**

* with registration

** automatic plus knockdown warranty

Leica Rugby 260SG, 270SG, 280DG



Make the Right Choice

The Rugby 260SG, 270SG and 280DG offer the contractor a real choice of features and functionality. **Upgrade Your Toolbox** Choose the grade laser that is right for your job and budget.

Leica Rugby 260SG

A highly accurate, general construction laser with single grade capability.

The Rugby 260SG is a rugged general construction laser with ten arc second accuracy, LCD grade readout and semi-automatic grade with bump alert.

Leica Rugby 270SG

A fully automatic, single grade laser.

The Rugby 270SG is a fully automatic, single grade laser for the general construction contractor that needs a level or single slope for flat work, site preparation, septic installation, trenching and more.

Leica Rugby 280DG

Multipurpose Plus – A horizontal, vertical and dual grade laser for any exterior or interior application.

The Rugby 280DG is a multipurpose laser "Plus" with fully automatic, dual grade capability. It has a bright red beam, plumb beam, scan mode, horizontal and vertical self-leveling, plus dual grade up to 15% in both axes. Available with a two-way remote control.

Rugby 260SG Package with Rod Eye Sensor
with Carrying Case, NiMH Battery Pack, Charger and Rod Eye Classic with Clamp.

Order No: 6003170

Rugby 270SG Package with Rod Eye Sensor
with Carrying Case, NiMH Battery Pack, Charger and Rod Eye Classic with Clamp.

Order No: 6003174

Rugby 280DG Package with Rod Eye Sensor
with Carrying Case, Laydown Bracket, NiMH Battery Pack, Charger and Rod Eye Classic with Clamp

Order No: 6003178

Rugby 280DG Package with Rod Eye Sensor and Remote Control
with Carrying Case, Remote Control, Laydown Bracket, NiMH Battery Pack, Charger and Rod Eye Classic with Clamp

Order No: 6003179

RF Remote Control, Rugby MR (for Rugby 280DG)

1

Order No: 768 543



1

	Rugby 260SG	Rugby 270SG	Rugby 280DG
Working Range (diameter)	600 m	700 m	700 m
Horizontal leveling accuracy	1.5 mm per 30 meter	1.5 mm per 30 meter	1.5 mm per 30 meter
Self-leveling	Horizontal	Horizontal / Grade	Horizontal / Vertical / Grade
Grade Capability	± 10% (x-axis)	± 15% (x-axis)	± 15% (both axes)
Environmental	IP67	IP67	IP67
Operating Temperature	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C
Two-year plus knockdown warranty	Yes	Yes	Yes

Leica Rugby 320SG & 410/420DG



Rugby, one of the toughest players on any field.

Making the grade is what the Leica Rugby is all about. Whether your work requires level, single or dual grades and high accuracy over a long distance range, the Leica Rugby's extensive features will ensure both material and labour savings, keeping you on target to increase your bottom line.

The Leica Rugby Grade Lasers are automatic and self-levelling for jobs of any size, large or small. They can be used for any application involving precise grade control such as:

- Building pads, parking lots and runways
- Precise depth control for sub-base and fine grade excavation
- Agricultural applications such as land leveling or tiling
- Concrete forming and framework
- Retention ponds and batters
- Setting foundations and footings
- Absolute compatibility with the widest range of machine control solutions

Rugby 320SG Package with Rod Eye Sensor
With Carrying Case, NiMH Battery Pack, Charger and Rod Eye Classic with Clamp

Order No: 6002452

Rugby 410DG Package with Rod Eye Sensor
With Carrying Case, NiMH Battery Pack, Charger and Rod Eye Classic with Clamp

Order No: 6002457

Rugby 420DG Package with Rod Eye Sensor
With Carrying Case, NiMH Battery Pack, Charger and Rod Eye Classic with Clamp

Order No: 6002474

RF Remote Control for Rugby 410/420DG

1 Order No: 765 668

Scope and Mount Assembly

2 Order No: 739 870



1



2

Lasers at a glance	Rugby 320SG	Rugby 410/420DG
Working Range (diameter)	900 m	800 m (410DG), 1100 m (420DG)
Accuracy	± 1.6 mm @ 30 m	± 1.6 mm @ 30 m
Self-levelling	H+Grade	H+Grade
Grade Capability	-5 to +25% in one axis	-5 to + 25% in either axis -5 to +15% in both axis
Waterproof	IP57	IP57
Operating Temperature	-20° C to +50° C	-20° C to +50° C
Weight	5 kg	5 kg

Leica Piper 100/200

Rock solid Construction, outstanding Performance in a compact Package

Built with a rugged aluminum housing, these pipe lasers perform powerfully even in tough jobsite conditions. Powerful and compact, the Leica Piper is the only pipe laser that fits inside a 100 mm (four inch) pipe.

- Automatic grade compensation
- Long battery life
- Bright, powerful beam
- Large, easy to read display
- Alignmaster™ - Automatic target recognition (Piper 200)



... in the manhole



... in the pipe



Piper 100 with Remote, Target and Li-Ion Battery

Incl.: Piper 100 with Carrying Case, IR Remote Control, Target Assembly, Lithium-Ion Battery (GEB221), 4Ah, Charger Li-Ion (GKL211), incl. AC adapter, car adapter



1

1 Order No: 748 704

Piper 200 with Alignmaster™, Remote, Target and Li-Ion Battery

Incl.: Piper 200 with Carrying Case, IR Remote Control, Target Assembly, Lithium-Ion Battery (GEB221), Charger Li-Ion (GKL211) (incl. AC adapter and car adapter)



2

2 Order No: 748 710

Target Assembly



3

2 Order No: 725 858

Trivet Assembly



4

3 Order No: 746 158

IR Remote Control

4 Order No: 746 157

Target Assembly, 4"/100 mm



5

5 Order No: 748 775

Leica DISTO™ Family

Leica DISTO™ D2

The compact and handy base model was specifically designed for indoor applications. Shortcut keys for addition, subtraction, area and volume calculation make measuring fast and very reliable. The comprehensive measurement results are clearly displayed on three lines. Easily readable, even in the dark, thanks to the illuminated display. (US Version with ft-inch display format: Order No.763 495)

1 Order No: 762 200

Leica DISTO™ D3

The Leica DISTO™ D3 is a multifunctional instrument to ensure simple, quick and reliable measurements. You can measure distances with absolute accuracy, even pass obstructions and determine angles quickly. The integrated tilt sensor also provides you with a perfectly horizontal distance measurement. Another sensor detects the lighting conditions and automatically switches on the display and keypad illumination. Automatic detection of the position of the end-piece is an additional asset. (US Version with ft-inch display format: Order No.759 945)

2 Order No: 759 946

Leica DISTO™ D5

Strong outdoor performer: The integrated digital Pointfinder with 4x zoom makes aiming at long distances much easier. You can even carry out measurements in glaring sunlight.

Easy to read: Measurement results and supplementary information are comprehensively shown on the large colour display. The high image resolution provides a clear, sharp picture in the digital Pointfinder.

Integral tilt sensor: Using the tilt sensor you can also take indirect measurements. From this the horizontal distance can be derived inspite of obstructions.

3 Order No: 764 550

Leica DISTO™ D8

Error-free data transfer: Bluetooth® and the supplied "Leica DISTO™ Transfer" software ensures that data transfer to pocket PCs and PCs is quick and error-free. The simple way to enter your results into Excel®, Word®, AutoCAD® and other programs for further processing.

Strong outdoor performer: Measure long distances simply and quickly thanks to the digital Pointfinder with its 4x zoom and high resolution colour display.

360° tilt sensor: The combination of precise angle and distance measurements allows you to determine distances where conventional methods fail.

(US Version with ft-inch display format: Order No.764 558)

4 Order No: 764 555

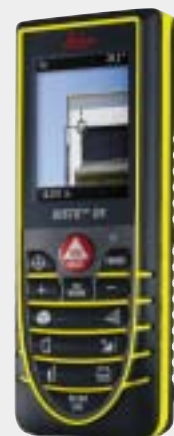


SMALLEST LASER DISTANCE METER IN THE WORLD!

1



2



3



4



Leica DISTO™ Accessories

GZM26, Target Plate , large

Size: 210 x 297 mm (A4)

Grey side for short and brown side for long distance measurements

1 Order No: 723 385

GZM27, Stick-On Target Plate

Target plate held in place with kneading adhesive.

Size: 45 x 100 mm

2 Order No: 723 774

Setup Target Plate (197 mm x 274 mm)

For placing on ground markers

3 Order No: 766 560

GLB10, Laser Glasses

Red lens glasses for improved visibility of the laser dot in bright rooms and outdoors up to 10-15 m

4 Order No: 723 777

Softbag

Large carrying case for secure storage and transportation of Leica DISTO™s handlasermeter and accessories. The case is supplied without content

5 Order No: 667 169

Arm Holder Pocket PC

For comfortable and long wear of a Pocket PC designed universal arm-holster

6 Order No: 739 200

Universal quick charger

incl. 4 rechargeable batteries (typ AA)

7 Order No: 773 305

4 AA(R6) SANYO 1.2V/2700mAh NiMH rechargeable batteries

Order No: 741 897

LSA360 Adaptor

for attachment to the pole and the TRi100 tripod (page 25)

8 Order No: 769 459



Leica DISTO™ Family



Functions	DISTO™ D2	DISTO™ D3	DISTO™ D5	DISTO™ D8
Minimum / maximum measurements	•	•	•	•
Continuous measurement	•	•	•	•
Addition / subtraction	•	•	•	•
Area / volume measurements	•	•	•	•
Room dimensions		•	•	•
Indirect measurement with Pythagoras	•	•	•	•
Horizontal distance past obstructions		•	•	•
Trapezium measurements			•	•
Indirect measurement with tilt sensor				•
Technical Data	DISTO™ D2	DISTO™ D3	DISTO™ D5	DISTO™ D8
Typical measuring accuracy	± 1.5 mm	± 1.0 mm	± 1.0 mm	± 1.0 mm
Range	0.05 to 60 m	0.05 to 100 m	0.05 to 200 m	0.05 to 200 m
Power Range Technology™		•	•	•
Distance in m / Ø laser-spot in mm	10, 50, 100 m / 6, 30, 60 mm		10, 50, 100 m / 6, 30, 60 mm	
Tilt sensor				
Measurement range		± 45°	± 45°	360°
Accuracy to laser beam		± 0,3°	± 0,3°	- 0,1°/+ 0,2°
Accuracy to housing		± 0,3°	± 0,3°	± 0,1°
Units in tilt sensor		0.0°, 0.0%	0.0°, 0.00%, mm/m, in/ft	0.0°, 0.00%, mm/m, in/ft
4-fold digital viewfinder			•	•
Store constant value		1	1	1
Recall last values	10	20	20	30
Time delay release (timer)	•	•	•	•
Display illumination	•	•	•	•
Measuring units	m, ft, in	m, ft, in	m, ft, in, yd	m, ft, in, yd
Free Software				•
Data interface				BLUETOOTH® (Class 2)
Measurements per battery set	up to 5,000	up to 5,000	up to 5,000	up to 5,000
Multifunctional end piece with automatic detection	manual	automatic	automatic	automatic
Tripod mounting thread		plastic	metal	metal
Batteries	Typ AAA, 2x1, 5V	Typ AAA, 2x1, 5V	Typ AA, 2x1, 5V	Typ AA, 2x1, 5V
Spray proof / dust protected IP54	•	•	•	•
Dimensions	111x42x23 mm	125x45x24 mm	143,5x55x30 mm	143,5x55x30 mm
Weight with batteries	90 g	110 g	195 g	205 g

Leica Lino L2

The perfect Alignment Tool

Visualize your reference lines with the most powerful crossline laser. The Leica Lino L2 projects exact, quick and easy - allowing you to concentrate on your job at hand.

Features

- Projects horizontal-, vertical- and cross lines
- High visibility of laser lines
- Self-levelling at high precision
- Very easy and intuitive to use with only two buttons
- Lock function for projecting at an angle and transport protection
- Robust and is dust- and splash-proof to IP54



Features	Lino L2
Range	Up to 15 m (dependent on the lighting conditions) >30 m with detector
Levelling accuracy	± 1 mm @ 5 m
Self-levelling range	4° ± 0.5°
Horizontal accuracy	± 1 mm @ 5 m
Vertical accuracy	± 0.75 mm @ 3 m line length
Splash - and Dust-proof	IP54
Laser type	635 nm, laser class II
Operating temperature	-10°C to 40°C
Weight with batteries	320 g



Leica Lino L2

Crossline laser, pouch, target plate, magnetic multifunctional adapter, ball adapter, batteries and user manual

Order No: 757 225

Leica Detector LLD2

An acoustic signal and a visual signal are provided for finding the line outdoors

1 Order No: 758 448

Wall Bracket

Wall and ceiling adapter with 1/4" screw, of universal application thanks to screw fastening

2 Order No: 758 839

TRi 100 Tripod

Professional tripod with easy fine adjustment for DISTO™ and Lino L2

3 Order No: 757 938

CLR290, Clamp Rod*

With mounting platform.

* Not available in the USA

4 Order No: 761 762

Belt Pouch for Lino L2

5 Order No: 767 202



Leica Digisystem

Safe and fast Location of Underground Services

Every year, site workers are injured due to inadvertently striking buried electricity cables or gas pipelines. With the Digisystem operators can locate, trace and mark underground services precisely and reliably prior to excavation. Several vital safety features built into the Digicat™ 100 and 200 models are rarely found in similarly priced units from other manufacturers. The new Digicat™ 200 GIS is an ideal solution for systems integrators seeking to integrate buried service locating with GIS and survey mapping processes, using industry standard wireless connectivity.

Features:

- Digital signal processing – robust and error free location in the construction environment
- Easy to use – requires only minimal training
- Robust, lightweight and waterproof
- Always starts in power mode at maximum sensitivity – ensures safest operating conditions
- 8 and 33 kHz tracing modes, depth estimation to 3m, accuracy typically better than $\pm 10\%$ (Digicat™ 200) – maximum flexibility
- Highly visible digital LED display – swift service location



The Digisystem offers 3 selectable Operating Modes

Power mode: locates power signals radiated by energised cables.

Radio mode: traces signals originating from distant radio transmitters. These radio signals penetrate the ground and are re-radiated by buried metallic cables and pipes.

Generator mode (8 and 33 kHz): locates a distinctive signal applied by the Digitex 8/33 dual frequency signal generator to a metallic underground conductor.

Leica Digicat™ 100

To find live (energised) power cables, trace buried metal services which reradiate signals

1 Order No: 731 047

Leica Digicat™ 200 GIS

To integrate buried service locating with GIS and survey mapping processes, using industry standard wireless connectivity

(Ft-inch display format: Order No.755 698)

2 Order No: 755 697

Leica Digicat™ 200

In addition, the Digicat™ 200 offers a non-stop depth estimation. In co-operation with the Digitex 8/33 the real depth and location of all services can be found

(Ft-inch display format: Order No.753 515)

3 Order No: 731 048

Digitex 8/33 Signal Generator

Gives highly accurate results via specific tracing frequencies (incl. batteries, connection cable set, earth spike & user manual)

4 Order No: 731 049

Digitrace 30 Service Tracer

Allows tracing of plastic ducts, clay drains and other non-metallic conduits.

5 Order No: 731 050

Medium Signal Clamp

Provides a connection from the Digitex 8/33 to metallic pipes, cables, etc. (max. 100 mm outside diameter)

6 Order No: 731 056

Digimouse 40 mm dia. (sonde)

Specific point radiator of generated signal

7 Order No: 731 053

Property Connection Cable Set EU

Cable Set to connect signal from Digitex 8/33 into the property power cables, European-Version

8 Order No: 731 668

Digisystem Carry Bag

Carries the two main instruments of the System (Digicat™ 100 and Digitex 8/33) & accessories

9 Order No: 740 307



Leica RedLine

Tailor Made Site Solutions

Leica RedLine brings industry leading performance and technology to you in a simple, easy to use, versatile package. Specifically designed for the construction site and the construction user in mind Leica RedLine can be tailored to fulfill all of your construction site positioning needs.



Save time and money

- By using highly versatile site positioning sensors allowing you to reduce your investment to only the equipment you really need
- By using the same components cross the entire site
- By minimising operator downtime and enabling operators to work without depending on surveyors

Improve your performance and productivity

- By working to higher accuracies
- By increasing operator flexibility
- By eliminating rework

Hit the ground running

- Learned in minutes
- Simple, guided "Level and Go" concept
- Uses the same interface across all RedLine sensors

SBG Geo Construction Office

The ultimate data preparation software

- Maintain data integrity by entering and designing data they way you want. Compatible with any type of design model: Alignments, cross section, 3D stringlines, digital terrain models etc.
- Import and export data from a wide range of industry standards
- Export to a wide variety of Machine Control Software
- Easy to learn interface with built in AutoCAD engine to open and edit native AutoCAD drawings

Order No. 762591 – Geo Construction

Order No. 762594 – Geo Construction Volumes





Leica PowerTracker

The perfect precision tool as simple as can be

- Designed specifically with the construction user in mind, simply level and go
- No keyboard on board and an extremely intuitive user interface
- Highly accurate robotic tracking performance
- With reflectorless mode up to 250 m
- Use for machine control or full one man robotic measuring tasks

Order No. 6001516

1man kit w/o controller

Order No. 6001553

MCP950c controller for 1 man



Leica PowerAntenna

The worlds most versatile GPS/GNSS system

- Use the same components on and off machine applications
- Versatile and upgradable to suit all construction measuring tasks machine, rover or base
- Leica Geosystems cutting edge technology in a scalable design that grows with your needs

Order No. 6001646

PA BaseStation

Order No. 6001647

PA Rover

Order No. 6001648

PA Base and Rover

Order No. 6002440

PA for Dual GPS



Leica PowerBox

A new dimension in site positioning

- Designed for the toughest machine control and construction measurement tasks
- For position and orientation simply add a PowerAntenna or second PowerBox
- Use the same component for all on and off machine applications

Order No. 6001645

PB BaseStation

Order No. 6001643

PB Machine

Order No. 6001611

Controller for PB



SBG GeoPAD Construction

Field software for all your construction needs

- Use the same simple interface for all sensors (GPS/TPS)
- Stakeout the same way the project was designed to eliminate errors using stringlines, cross-sections or road alignments, DTM's
- Learn in minutes with full functionality. Grade-check, stakeout, inst/base set-up has never been so simple

Order No. 762598

SW only

From office to field and back again

the Leica Redline product range has the perfect solution for all your construction site design and positioning needs. The unique modular system design allows the same components to be used across the entire construction site.



Leica Depthmaster

Low Cost Depth Indication System

Together with a rotating laser the excavator sensor Leica Depthmaster provides accurate elevation control and a unique, patented, built-in vertical plumb indicator for consistent accuracy. Constant Accuracy Band (C.A.B.) technology used in the Depthmaster receives the laser signal and electronically maintains consistent accuracy over distance.

Depthmaster Excavator Sensor with Clamp-on Brackets

Package includes Depthmaster with Carrying Case, Battery Pack Ni-Cad for Depthmaster, Clamp-on Bracket(2x), Charger 220V and User Manual

1 Order No: 742 438

Depthmaster Excavator Sensor with Magnetic Bracket

Package includes Depthmaster with Carrying Case, Battery Pack Ni-Cad for Depthmaster, Magnetic Bracket, Charger 220V and User Manual

2 Order No: 742 440



Main Features at a Glance

- CONSTANT ACCURACY BAND (CAB) - Maintains 'on-grade' accuracy regardless of operating distances spot size, or rotating laser type, either $\pm 1/6"$ (4 mm) or $\pm 1/2"$ (12 mm) depending on jobsite requirements.
- PATENTED PLUMB INDICATOR - Monitors the excavator's dipper arm vertically for consistent and accurate grade readings.
- MAGNETIC MOUNT - The Depthmaster is extremely convenient with its powerful magnetic mount. It takes seconds to attach to the machine. No drilling or welding is required.
- SHAKE TO WAKE - The unique 'SHAKE TO WAKE' system turns off non-essential electronics after 5 minutes of non-use. It automatically turns back on when your machine begins to move again.
- POLE MOUNT - When used with the optional clamp-on assemblies, the Depthmaster can be mounted on any machine.
- MEMORY - When the Depthmaster is out of the range of the lasers a LED will blink indicating which way to move the sensor to reacquire the laser.



1



2

Leica Geosystems Builder Series

Easily affordable, tough total stations, built specially for site work. Use them even without experience, for fast, reliable angle & distance measurements, stake out and simple routines for standard building and construction tasks.

The era of purely mechanical or optical instruments is over. This is the digital era where digital instruments are needed to remain competitive.

Whether you have to precisely layout a construction site, perform control measurement or collect height and angle data - Leica Geosystems offers the right total station for your construction application.



APPLICATIONS & FEATURES	Builder T100/T200	Builder R100/R200	Builder R100M/R200M	Builder M/RM power
Alignment, Defining Angles	X	X	X	X
Plumbing	X	X	X	X
Measure or define slopes	X	X	X	X
Distance Measurement	-	X	X	X
Multifunctional EDM	-	-	-	-/X
Layout	-	X	X	X
Measure as-built	-	X	X	X
Measure size and perimeter of an area	-	X	X	X
Compute a block volume	-	X	X	X
Determine tie distance and height difference	-	X	X	X
Determine indirect heights	-	X	X	X
Alphanumeric Keyboard	-	-	-	X
Connects to PC data logger, 3rd party software packages	-	-	X	X
Comfortably select layout data by picking points from the memory	-	-	X	X
Data storage	-	-	X	X

The models are available in following accuracies:

Builder T/R/R100M: 9" (<5 mm accuracy at 100 m)
 Builder T/R/R200M: 6" (3 mm accuracy at 100 m)
 Builder 100M/R100M power: 9" (<5 mm accuracy at 100 m)
 Builder 200M/R200M power: 5" (<3 mm accuracy at 100 m)
 Builder R300M power: 3" (<2 mm accuracy at 100 m)



Leica Builder

Built for Builders

With the Leica Builder, Leica Geosystems targets experts in the building sector who have up to now shied away from using professional measuring instruments. Its uniquely easy-to-operate control concept and the outstanding product performance accelerates common construction site jobs, e.g. layout or plumbing.

The new Builder M power provides additionally an alphanumeric keypad, distance measurement to prisms and the Leica PowerSite software.

The Builder RM power is also featured with multifunctional EDM.



Builder T100 Set

Theodolite with laser plummet, 1 keyboard, user manual, tribrach, battery adapter including 6 AA batteries and container

Builder T200 Set - Order No: 747 828

1

Order No: 747 827



Builder R100 Set

Theodolite with EDM, laser plummet, 1 keyboard, user manual, tribrach, battery adapter including 6 AA batteries, flat prisma, reflector pole and container

Builder R200 Set - Order No: 747 830

2

Order No: 747 829



Builder R100M Set

Theodolite with EDM, internal memory, serial RS232 interface, laser plummet, 1 keyboard, user manual, tribrach, battery adapter including 6 AA batteries, flat prisma, reflector pole, Lemo to USB transfer cable and container

Builder R200M Set - Order No: 747 832

3

Order No: 747 831



Builder 100M power Set

Theodolite with EDM, internal memory, serial RS232 interface, laser plummet, 1 alphanumeric keyboard, user manual, tribrach, charger, rechargeable battery, True Zero prism, reflector pole, Lemo to USB transfer cable and container

Builder 200M power Set - Order No: 766 315

4

Order No: 766 314



Builder R100M power Set

Theodolite with multifunctional EDM, internal memory, serial RS232 interface, laser plummet, 1 alphanumeric keyboard, user manual, tribrach, charger, rechargeable battery, True Zero prism, reflector pole, Lemo to USB transfer cable and container

Builder R200M power Set - Order No: 762 108

Builder R300M power Set - Order No: 762 109

5

Order No: 762 107



Multilingual function

The Leica Builder is one of the Leica Geosystems products with multiple languages onboard. This allows the user to choose the preferred language – simply and with only one keystroke, for improved efficiency and convenience.



direct.dxf



With "direct.dxf" functionality, data can be read directly from the instrument in dxf-format and read into AutoCAD® on a PC without any intermediate steps. Coordinates and point numbers can be stored in different layers.

Your Builder is Ready to go

No matter which Builder you choose, you'll always get a complete set you can start your job with.



GEB111, NiMH Battery

Low maintenance battery for Builder and DNA instruments, 6.0V / 2.1Ah



1 Order No: 667 318

Second Keyboard

GTS BUILDER, 2nd keyboard, for Builder instruments, for telescope position 2, fitted



2 Order No: 747 942

Second Keyboard

GTS BUILDER RM power, 2nd keyboard, for Builder RM power instruments, for telescope position 2, fitted



3 Order No: 760 453

GKL112, Basic Series Charger, NiMH

Budget priced charger for single GEB111/121 battery. Car adapter cable is included. (for Builder)



4 Order No: 734 753

GFU15 Bluetooth® Kit

including Bluetooth® module, charger, protection cover and tripod hook



5 Order No: 821 6666

FEATURES	Builder T100/T200	Builder R100/R200	Builder R100M/R200M	Builder M power	Builder RM power
Angle measurements (Hz,V)					
Standard deviation (ISO 17123-3)	9" 6" (directional deviation <5/3 mm at 100 m)	9" 6" (directional deviation <5/3 mm at 100 m)	9" 6" (directional deviation <5/3 mm at 100 m)	9" 5" (directional deviation <5/<3 mm at 100 m)	9" 5" 3" (directional deviation <5/<3/<2 mm at 100 m)
Compensator	2-axis electronic Operating range +/-4'				
Telescope					
Magnification	30 x	30 x	30 x	30 x	30 x
Field of view	2.4m @ 100m	2.6m @ 100m (with EDM)	2.6m @ 100m (with EDM)	2.6m @ 100m (with EDM)	2.6m @ 100m (with EDM)
Distance Measurement					
Standard Deviation (ISO 17123-3)	-	3 mm +2 ppm	3 mm +2 ppm	2 mm +2 ppm	3 mm +2ppm/ 2 mm+2ppm
Range	-	170 m	170 m	-	170 m
On Kodak Grey Card	-	250 m	250 m	-	250 m
On flat prism	-	-	-	1000 m	1000 m
On True Zero prism	-	-	-	-	-
Laser plummet (Precision)	1.5 mm @ 1.5 m	1.5 mm @ 1.5 m	1.5 mm @ 1.5 m	1.5 mm @ 1.5 m	1.5 mm @ 1.5 m
Internal memory	-	-	10 000 Data blocks	10 000 Data blocks	10 000 Data blocks
Interface	-	-	RS232/USB up to 19'200 Baud	RS232/USB up to 19'200 Baud	RS232/USB up to 19'200 Baud
Dust and Rain	IP54	IP54	IP54	IP54	IP54

Accessories

Tripods

GST20, Wooden Tripod

Heavy duty tripod with plumb bob, carrying strap and side clamp screws. Packaged length 110 cm (3.61ft), extendible to 180 cm (5.91ft), weight 6.4 kg (14.1lb).

Order No: 296 632

GST40, Wooden Tripod

Heavy tripod with rigid legs, suitable for precision levelling. Length 170 cm (5.58ft).

Order No: 328 422

LAT 195, Crankable Laser Tripod, 195 cm

Order No: 663 099

LAT 265, Crankable Laser Tripod, 265 cm

Order No: 663 100

Heavy Duty Elevator tripod, 149-330 cm

Order No: 733 803

GST05L, Aluminium Tripod

Light tripod with shoulder strap. Light-weight and long lasting making it suitable for levels and targets.

Order No: 563 630

GST4, Tripod Star

To set up tripods on hard and slippery surfaces

Order No: 332 200

CTP101, Wooden tripod

Heavy tripod with carrying straps and side clamp screws. A low cost alternative for TPS set-ups.

Order No: 726 831

CTP104D, Dome-head Aluminium tripod

with shoulder strap and fast clamps, medium weight. Suitable for levels.

Order No: 767 711

GST05, Wooden Tripod

Light tripod with water-tight plastic wrap for complete protection. Suitable for GPS and target stations with long set-up periods.

Order No: 399 244

Tribrachs

GDF121, Tribrach w/o Plummet

High accuracy, maintenance-free tribrach. Guaranteed to effect TPS accuracy by less than 1". Suitable for all high angular accuracy requirements. Torsional stiffness <1".

Order No: 667 304

GDF111-1, Tribrach w/o Plummet

Suitable for TPS instruments with an angular accuracy of greater than 3". Torsional stiffness <3".

Order No: 748 888

Carriers

GZR103, Carrier with Optical Plummet

Rotatable carrier with longitudinal bubble for use in tribrachs without plummet. Reflector centring accuracy 1.0 mm, plummet accuracy 0.5 mm at 1.5 m.

Order No: 725 566

GRT144, Carrier with Stub

Simple carrier for use in tribrachs with optical plummet. Suitable for reflectors with stub fitting. Centring accuracy 1.0 mm.

Order No: 667 313

SNLL121, Precision Carrier with Laser Plummet

Can be pointed in either the zenith or nadir direction. Reflector centring accuracy 0.3 mm, plummet accuracy 1.0 mm at 1.5 m.

Order No: 667 316



Poles

GLS11, Telescopic Pole

Reflector pole with quick release clamp. Extendible to 2.15 m (7.05ft), weight 940 g (2.07lb).

Order No: 385 500

GLS111, Telescopic Pole

Heavy duty reflector pole with red/white markings for high visibility. Twist lock for secure tightening. Extendible to 2.60 m (8.53ft), weight 1.48 kg (3.26lb).

Order No: 667 309

CPP105, Telescopic Pole

Reflector pole with twist- and snap locks. With 1/4" thread for mounting of GMP111 and CPR105 reflectors. Extendible to 2.11 m (6.92ft), weight 890 g (1.96lb).

Order No: 748 967

Reflectors

GPR113, Circular Prism with Holder

Circular prism mounted in red polymer holder. Suitable for fitting of the 362823 GZT4 target plate. Centring accuracy 2.0 mm, max. range with IR of 2500 m.

1

Order No: 753 492

GPR121, Circular Prism with Holder

Precision circular prism with anti-reflection coating, mounted in metal holder. Supplied with removable target plate. Centring accuracy 1.0 mm, max. range with IR of 3500 m.

2

Order No: 641 617

GPR111, Circular Prism with Holder

Circular prism, sealed in red polymer holder. Integrated target plate. Centring accuracy 2.0mm, max. range with IR of 2500 m.

3

Order No: 641 618

GMP111, Mini Prism with Holder

Mini prism mounted in polymer holder with 1/4" thread fittings. Includes circular bubble, GLS115 four-section pole and point. Prism constant of +17.5 mm, max. IR range of 2000 m.

Order No: 641 615

GMP104, Mini Prism with L-bar

Mini monitoring prism mounted in metal holder. Supplied with L-bar for fixed installations. The prism offset is dependant on the mounting position. Max. IR range of 2000 m (7000ft).

Order No: 641 762

Chargers

Universal Charger / Power Supply

For Rugby 320SG/410DG/420DG (incl. separate power cable)

Order No: 741 349

Universal Charger / Power Supply

For Rugby 50/55/100/100LR/200/260SG/270SG/280DG (incl. separate power cable)

Order No: 727 165

GKL211, Battery Charger

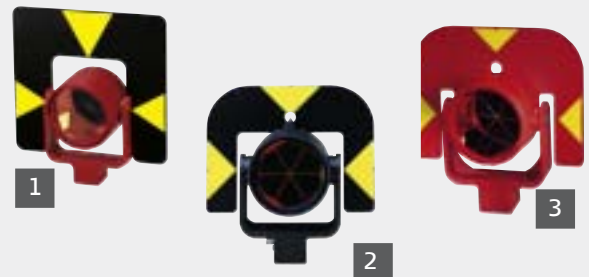
Simple, low cost charger for GEB221 and GEB211 Li-Ion batteries. Includes car adapter cable.

Order No: 734 752

Car Adapter Cable

Rugby 320SG, 410DG, 420DG, 1 m

Order No: 738 242



Accessories

Batteries

NiMH Battery Pack

For Rugby 320SG, 410DG, 420DG

Order No: 739 855

GEB171, External NiMH Battery

High output battery for set-ups over long periods, 12V / 9.0Ah. With 5-pin charging socket.

Order No: 727 367

GEB221, Li-Ion Battery

High output battery for all System 1200 instruments and Piper 100/200, 7.4V / 4.4Ah.

Order No: 733 270

GEB121, NiMH Battery

Low maintenance battery for Builder instruments, 6.0V / 4.2Ah.

Order No: 667 123

Cables

GEV52, Power Cable

For connection of GEB171 battery to instrument.

Order No: 409 678

GEV102, Data transfer cable

Lemo to RS232 connector to connect PC, laptop etc.

Order No: 563 625

GEV189, Data transfer cable

Lemo to USB connector (incl. USB electronics), 2.0 m. Connects TPS/DNA to PC for data transfer. PC driver and user manual included on CD.

Order No: 734 700

Other Laser Accessories

GLB10, Laser Glasses

Red lens glasses for improved visibility of the laser dot in bright rooms and outdoors up to 10-15 m

Order No: 723 777

Mounting Bracket for Piper 100/200

Order No: 746 159

Scope and Mount Assembly for Piper

Order No: 746 160

Foot, 6" / 150 mm Piper

Order No: 746 161

Foot, 8" / 200 mm Piper

Order No: 746 162

Foot, 9" / 225 mm Piper

Order No: 746 163

Foot, 10" / 250 mm Piper

Order No: 746 164

Foot, 12" / 300 mm Piper

Order No: 746 165

Batter Board Clamp

For Rugby 55

Order No: 758 343



Staffs

CLR102, Telescopic Level Staff

5 m length, 4 sections, Dual face E-graduation and mm-graduation

1

Order No: 727 588

CLR103, Telescopic Level Staff

4 m length, 4 sections, Dual face V-graduation and mm-graduation

2

Order No: 731 123

CLR104, Telescopic Level Staff

5 m length, 5 sections, Dual face E-graduation and mm-graduation

Order No: 743 420

BTL5D, Aluminium Telescopic Level Staff

Extendable to 5 m, with cm-graduation on front and mm-graduation for internal dimensions on rear, with circular bubble, in transport bag

3

Order No: 663 131

BTL4D, Aluminium Telescopic Level Staff

Extendable to 4 m, with cm-graduation on front and mm-graduation for internal dimensions on rear, with circular bubble, in transport bag

4

Order No: 663 130

GPLE2N, Nedo Invar Levelling Staff

2 m length, with circular bubble

Order No: 555 636

GPLE3N, Nedo Invar Levelling Staff

3 m length, with circular bubble

Order No: 555 637

GPLE3N, Nedo Invar Levelling Staff

3 m length, with circular bubble, with expansion coefficient certificate and length calibration certificate

Order No: 560 172

GWL92N, Industrial Levelling Staff

92 cm length, Cm- graduation, invar staff with circular bubble and 2 interchangeable bases

Order No: 559 615

GWL182N, Industrial Levelling Staff

Cm- graduation, 182 cm, invar staff with circular bubble and 2 interchangeable bases

Order No: 559 616

GLUS1, Ground Plate

For level staffs

Order No: 197 000

GSL3, Pair of Struts

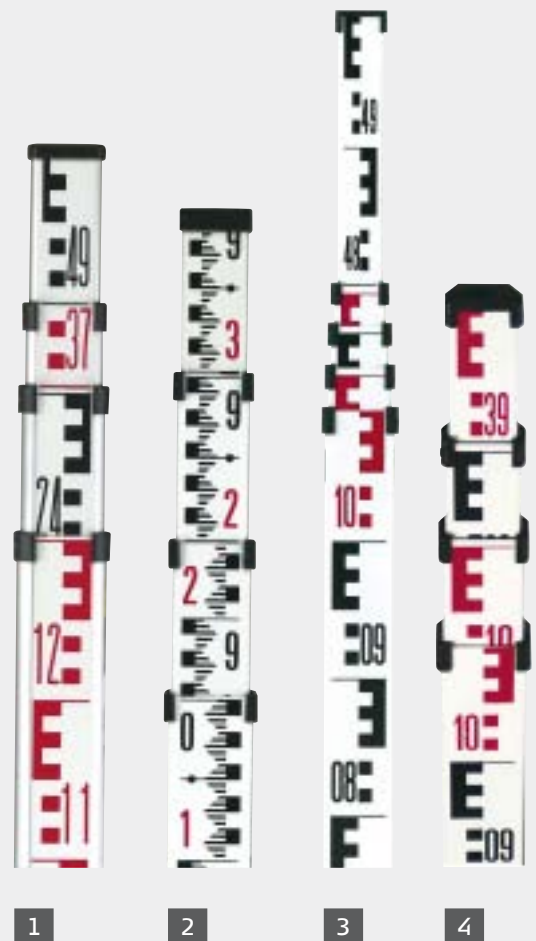
For GPLE3N staff

Order No: 555 638

GLI20N, Nedo Staff Level

For BTL4/BTL5 levelling staffs

Order No: 555 639



1

2

3

4

Accessories

Rod Eye Receivers

The Rod Eye family offers solutions for any general construction and interior application, and is ideally matched to work with the Rugby laser family. They are construction-tough, designed to work in harsh, loud environments, and provide precise and repeatable accuracy. The Rod-Eye sensors emit three selectable beeper sounds (rapid, slow, and continuous, when high, low, and on-grade,

Rod Eye Pro Sensor with Bracket

Construction-tough, reliable and accurate Laser Sensor and universal clamp with a reversible jaw for oval rods

1 Order No: 727 163

Rod Eye Mini Sensor with Bracket

Construction-tough and reliable Laser Sensor with Rod Clamp

2 Order No: 730 463

Rod Eye Classic Sensor with Bracket

Construction-tough, reliable and accurate Laser Sensor

3 Order No: 739 575



Available beginning July 2009:

The Rod Eye Digital is the top of the line receiver with digital readout, 0.5 mm accuracy, and strobe rejection. The Digital has a 127 mm (5 inch) pickup window which is the result of truly unique technology and provides the Digital with the best accuracy in the industry.

The Rod Eye Plus is a full featured receiver with proven performance in the field. Three bright LED's, nine channel arrow display and audio output provide the user with all the information needed to lock on the laser beam and get the job done right.

Additionally, the double-beep beam finder, last beam strike memory, laser low battery indication and the reversible clamp for rectangular or oval rods put the Digital and Plus at the top of the list for today's contractor.

The Rod Eye Basic is a great receiver for those looking for value at a low price. Offering two accuracy settings, high/low audio output and a 150 m (500 ft) range, the Rod Eye Basic is a quality receiver that is ready to work for you.

The Rod Eye Digital with Bracket

Digital technology that expands your options

4 Order No: not yet released

The Rod Eye Plus and Bracket

Exceptional quality - great features

5 Order No: not yet released

The Rod Eye Basic and Bracket

Value for all general construction applications

6 Order No: not yet released



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	Power Tracker	Builder (T/R/RM), Lino LZ	Builder RM power	Piper	Roteo 35	Rugby 100 260/270 320/420	Rugby 55/200/280	Rugby 50/100LR/410	DISTO™ D2/D3/D5/D8
Laser class 3R in accordance with IEC 60825-1 and EN 60825-1	• Distance meter (RL Mode)	• Distance meter (Red Dot)	• Distance meter (Red Dot)	•	•		• stationary beam		
Laser class 2 in accordance with IEC 60825-1 and EN 60825-1	• Laser plummet	• Laser plummet	• Laser plummet			•	• rotating/ scanning		•
Laser class 1 in accordance with IEC 60825-1 and EN 60825-1	• Distance meter (IR Mode)		• Distance meter (Prism Mode)					•	

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When it has to be right.

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