

Leica FlexLine Equipment List



- when it has to be right

Leica
Geosystems

FlexLine Equipment List

TS02 Instruments

Total Stations for Prism Measurements

- 765268 TS02, 3"(1mgon) total station, laser plummet, 1 standard keyboard, user manual and container.
- 765265 TS02, 5"(1.5mgon) total station, laser plummet, 1 standard keyboard, user manual and container.
- 765263 TS02, 7"(2mgon) total station, laser plummet, 1 standard keyboard, user manual and container.

Total Stations for Non-Prism Measurements

- 765276 TS02power, 3"(1mgon) total station with reflectorless EDM, laser plummet, 1 standard keyboard, user manual and container.
- 765274 TS02power, 5"(1.5mgon) total station, totalstation with reflectorless EDM, laser plummet, 1 standard keyboard, user manual and container.
- 765271 TS02power, 7"(2mgon) total station, reflectorless EDM, laser plummet, 1 standard keyboard, user manual and container.

Total Stations for ext. Non-Prism Measurements

- 765279 TS02ultra, 3"(1mgon) total station, extended-range EDM, laser plummet, 1 standard keyboard, user manual and container.
- 765278 TS02ultra, 5"(1.5mgon) total station, extended-range EDM, laser plummet, 1 standard keyboard, user manual and container.
- 765277 TS02ultra, 7"(2mgon) total station, extended-range EDM, laser plummet, 1 standard keyboard, user manual and container.

TS06 Instruments

Total Stations for Prism Measurements

- 765284 TS06, 2"(0.6mgon) total station, laser plummet, 1 full numeric keyboard, user manual and container.
- 765285 TS06, 3"(1mgon) total station, laser plummet, 1 full numeric keyboard, user manual and container.
- 765286 TS06, 5"(1.5mgon) total station, laser plummet, 1 full numeric keyboard, user manual and container.

Total Stations for Non-Prism Measurements

- 765287 TS06power, 2"(0.6mgon) total station, reflectorless EDM, laser plummet, 1 full numeric keyboard, user manual and container.
- 765288 TS06power, 3"(1mgon) total station, reflectorless EDM, laser plummet, 1 full numeric keyboard, user manual and container.
- 765289 TS06power, 5"(1.5mgon) total station, reflectorless EDM, laser plummet, 1 full numeric keyboard, user manual and container.

Total Station for ext. Non-Prism Measurements

- 765290 TS06ultra, 2"(0.6mgon) total station, extended-range reflectorless EDM, laser plummet, 1 full numeric keyboard, user manual and container.
- 765291 TS06ultra, 3"(1mgon) total station, extended-range reflectorless EDM, laser plummet, 1 full numeric keyboard, user manual and container.
- 765292 TS06ultra, 5"(1.5mgon) total station, extended-range reflectorless EDM, laser plummet, 1 full numeric keyboard, user manual and container.

TS09 Instruments

Total Stations for Prism Measurements

- 765299 TS09, 1"(0.3mgon) total station, laser plummet, 2 full numeric keyboards, Electronic Guide Light (EGL5), Communication Sidecover Set (GSD04), user manual and container.

- 765300 TS09, 2"(0.6mgon) total station, laser plummet, 2 full numeric keyboards, Electronic Guide Light (EGL5), Communication Sidecover Set (GSD04), user manual and container.
- 765301 TS09, 3"(1mgon) total station, laser plummet, 2 full numeric keyboards, Electronic Guide Light (EGL5), Communication Sidecover Set (GSD04), user manual and container.

Total Stations for Non-Prism Measurements

- 765302 TS09power, 1"(0.3mgon) total station, reflectorless EDM, laser plummet, 2 full numeric keyboards, Electronic Guide Light (EGL5), Communication Sidecover Set (GSD04), user manual and container.
- 765303 TS09power, 2"(0.6mgon) total station, reflectorless EDM, laser plummet, 2 full numeric keyboards, Electronic Guide Light (EGL5), Communication Sidecover Set (GSD04), user manual and container.
- 765304 TS09power, 3"(1mgon) total station, reflectorless EDM, laser plummet, 2 full numeric keyboards, Electronic Guide Light (EGL5), Communication Sidecover Set (GSD04), user manual and container.

Total Stations for ext. Non-Prism Measurements

- 765305 TS09ultra, 1" (0.3 mgon) total station, extended-range reflectorless EDM, laser plummet, 2 full numeric keyboards, Electronic Guide Light (EGL5), Communication Sidecover Set (GSD04), user manual and container.
- 765306 TS09ultra, 2" (0.6 mgon) total station, extended-range reflectorless EDM, laser plummet, 2 full numeric keyboards, Electronic Guide Light (EGL5), Communication Sidecover Set (GSD04), user manual and container.
- 765307 TS09ultra, 3"(1mgon) total station, extended-range reflectorless EDM, laser plummet, 2 full numeric keyboards, Electronic Guide Light (EGL5), Communication Sidecover Set (GSD04), user manual and container.

Options for FlexLine Instruments

Hardware Options

	TS02	TS06	TS09
2nd Standard Keyboard for TS02 instruments, for telescope position 2, fitted.	○ 765308	-	-
1st Full Numeric Keyboard, for telescope position 1, fitted.	○ 765309	●	●
2nd Full Numeric Keyboard for telescope position 2, fitted.	○ 765310	○ 765317	●
FlexPoint (Laserpointer & short range reflectorless option) for non RL TS02 instruments	○ 765311	●	●
EGL5, electronic guide light, for instruments without ATR.	○ 762692	○ 762692	●
GSD04 Communication Sidecover Set, with USB host-, USB device plug, internal Bluetooth, MS1 USB Memory Stick, GEV 223 Data Cable. Can only be ordered with new instrument.	○ 6002321	○ 6002321	●
Arctic Option for FlexLine, modified & tested at -35°C.	○ 766274	○ 766274	○ 766274

- = not available ○ = option ● = included

Software Options

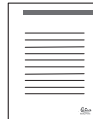
	TS02	TS06	TS09
TS02 Applications License "COGO".	○ 765312	●	●
TS02 Applications License "Reference Plane".	○ 765313	●	●
TS02 Applications License "Reference Arc".	○ 765315	●	●
TS02 Applications License "Road 2D".	○ 765314	●	●
TS06 Applications License "Roadworks 3D".	-	○ 765318	●
TS06 Applications License "TraversePRO".	-	○ 765319	●

- = not available ○ = option ● = included

Certificates

Producer Certificates

- 723945 Producer Inspection Certificate M, Distances with infrared and reflectorless EDM
- 723946 Producer Inspection Certificate M, Angle and Distances with infrared and reflectorless EDM
- 366358 Producer Certificate O
- 366359 Producer Inspection Certificate M, (for angle & distance)
- 559655 Producer Inspection Certificate M (for angle)
- 663177 Producer Inspection Certificate M (for distance)

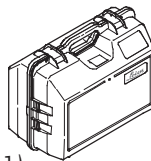


Calibration Certificates

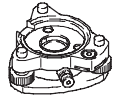
- 757424 Calibration Certificate - nat. accredited Calibration Laboratory, total stations, angle, TPS400/700/800/TPS1200/TPS2000/TS02/06/09.
- 757425 Calibration Certificate - nat. accredited Calibration Laboratory, total stations, angle and distance IR, TPS400/700/800/TPS1200/TPS2000/TS02/06/09.

Accessory Sets

- 6002322 FlexLine Standard accessory Set, consisting of:
1 Tribrach (GDF111-1), 1 Battery (GEB211), 1 Charger (GKL211), 1 Data-Transfer-Cable Lemo 0/USB(GEV189), 1 Miniprism Set (GMP111), 1 Instruments height meter (GHM007), 1 Distance holder (GHT196).
- 6002323 FlexLine Advanced accessory Set, consisting of:
1 Tribrach (GDF121), 1 Battery (GEB221), 1 Charger PRO (GKL221 + 2x GDI221), 1 Data-Transfer-Cable Lemo 0/USB(GEV189), 1 Miniprism Set (GMP111), 1 Instruments height meter (GHM007), 1 Distance holder (GHT196).



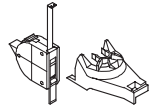
Tribrachs



- Professional (1)**
- 667304 Tribrach GDF121 PRO, without optical plummet, pale green
- 667307 Tribrach GDF122 PRO, with optical plummet, pale green
- Basic (2)**
- 748888 Tribrach GDF111-1, without opt. Plummet, green
- Choice (3)**
- 726839 CTB101 Tribrach, without optical plummet, black.

Tribrach Accessories

- 667718 GHM007 Instruments height meter.
- 722045 GHT196 Distance holder for height meter.



Tripods

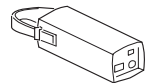
- Professional (1)**
- 296632 Tripod GST20, PRO, wooden, selfclosing with plumb bob
- 667301 Tripod GST120-9, wooden
- Basic (2)**
- 399244 Tripod GST05, wooden, with polymer coating and accessories.
- Choice (3)**
- 726831 Tripod, CTP101, wooden



Tripod Accessories

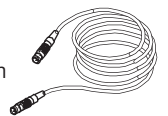
- 332200 GST4, tripod-star for setting up tripods on hard and slippery surfaces.

Power Source



Batteries

- Internal:
- 733269 GEB211, Lithium-Ion battery, 7.4V /2.2Ah, rechargeable.
- 733270 GEB221, Lithium-Ion battery, 7.4V /4.4Ah, rechargeable.
- External:
- 727367 GEB171, External battery, NiMH, 12V/9Ah



Power Cables

- 409678 Battery cable GEV52, 1.8 m, for connecting instrum. to external battery GEB171
- 439038 GEV71, Car battery cable, 4m, connects 409678 to 12V car

Chargers



Professional (1)

- 733271 GKL221, Charger PRO. To be used with up to two charging adapters GDI221 or GDI222, Charger cable and net adapter included.
- 733323 GDI221, Adapter for GKL221 for charging 2 Li-Ion batteries GEB221, GEB211.
- 734389 GDC221, Car adapter for the GKL221 charger. Allows the use of the GKL221 with a cigarette lighter; 12V24V DC/DC Converter.

Basic (2)
 734 752 GKL211, Charger BASIC, for Li-Ion batteries GEB221 and GEB211, car adapter cable and net adapter included.

Data Transfer



563625 Data Transfer Cable, GEV102, RS232 /Lemo 0, 2m, 9pin female, for connecting Instrument to PC, laptop
 734700 Data Transfer Cable, GEV189, USB/Lemo 0, 2m, for connecting Instrument to PC, laptop etc.
 667398 Data transfer cable, GEV147, Lemo 0/HR10, for connecting electronic field book etc.
 751234 USB-Bluetooth® Stick connects to PC for wireless communication
 765199 MS1, USB memory stick, 1GB, industrial grade
 764700 GEV223, Data Cable TS to USB (USB mini to USB)

Survey Poles

Professional (1)

385500 Reflector pole, GLS11, PRO, telescopic, with circular cm/ft graduation, extends to 2,15m
 754391 GLS12, Reflector pole, telescopic to 2.00m with circular bubble, cm graduations
 403427 Mini reflector pole, GLS14, PRO, (prism/target 20cm over point), with circular bubble.

Basic (2)

667309 Reflector pole, GLS111, BASIC, with bull's-eye bubble cm/ft graduation, extends to 2.60m, with red/white 0.20m graduations
 667310 Reflector pole GLS112, BASIC, with bull's-eye bubble, cm/ft graduation, extends to 3.65m, with red/white 0.20m graduations

Choice (3)

748967 Reflector Pole CPP105, with circular bubble for Flat-/mini-Prism, Snaplock at 1.5 and 2.0m

Hidden Point Poles:

742329 Hidden Point Pole extension, GMP112, for GMP111, includes Mini Prism with holder and 30 cm adapter pole.

Miscellaneous

555720 Dual-strut support GSR2 for GLS11
 667319 Dual-strut support GSR111, for all GLS
 403428 Extension GZW12 1m long, for reflector pole GLS11 and carriers.



Reflectors



Standard Prisms

Professional (1)

641617 Circular prism GPR121 PRO, with holder and target plate
 362830 Single Circular Prism, GPR1
 639985 360° Reflector, GRZ4
 754384 GRZ112, 360°C Reflector with 5/8" thread adapter for mounting of GPS antenna

Basic (2)

641618 Circular prism, GPR111 BASIC, with holder and target plate
 753492 GPR113 Circular prism, with red holder.

Mini Prisms

Professional (1)

641662 GMP101, Mini prism, incl. bubble, target plate and spike, in bag, also suitable for GLS11 and GRT44 (same height as GPH1, additive constant +17.5mm)

Basic (2)

641615 Mini prism set, GMP111
 642534 Mini Prism GMP111-0 for zero prism constant.
 644327 GRZ101, 360° Mini prism

Choice (3)

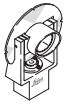
731346 CPR105, Flat prism with double sided reflector.

Prism Holders:

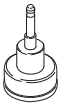
362820 Single Prism Holder GPH1, for GPR1
 362823 Target plate GZT4, for GPH1 and GPR113

Adapters:

743503 GAD105 for fitting GMP111 on reflector pole



Carriers



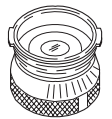
Professional

667316 SNLL121, Sensornadir laser plummet, pale green, with user manual.

Basic

725566 Carrier GZR103, with plate level and optical plummet, for reflectors and GPS antenna, pale green.
 667313 Carrier GRT144 for GPS antenna, EDM reflectors and target plates, pale green.

Optical accessories



734514 Diagonal eyepiece, GFZ3 for telescope
 743504 GV013 solar filter

Miscellaneous Accessories

667451 GVP609, Container, for 2 Circular prisms GPR111/121, 2 Laser plummets and 2 tribrachs.
 744501 Back strap(2), GZD66 for new container
 727589 Soft Bag for prism station, CTC102

CD-ROM

759783 Leica FlexLine Instrument CD - TS02/06/09 Series



Customer Care Packages

A wide selection of comprehensive Customer Care Packages (CCP's) 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.

(1) PROFESSIONAL

Precision products for use with high accuracy surveying, construction, engineering and monitoring applications. They are of the highest quality and have a long usable life in all environments.

(2) BASIC

Products with an optimised price/performance ratio but still meeting the same stringent environmental specifications as the Professional series. This is achieved by making compromises of the achievable measurement accuracy. These compromises in accuracy are acceptable for certain applications.

(3) CHOICE

A new range with focus on price, that is specifically designed to meet only the requirements for simple applications in normal environments. No spare parts or repairs are available for these products.

Whether you want to survey a parcel of land or objects on a construction site, determine measured points on facades or in rooms, gather the coordinates of a bridge or a tunnel – Leica Geosystems' total stations provide the right solution for every application.

They unite reliable results with easy operation and user-friendly applications. Our total stations are designed to meet your specific requirements. Modern technology enables you to work fast and productively, thanks to the straightforward and clearly structured range of functions.

When it has to be right.

Illustrations, descriptions and technical specifications are not binding and may change.
Printed in Switzerland – Copyright Leica Geosystems AG, Heerbrugg, Switzerland, 2008.
768734en – VIII.08 – INT

The **Bluetooth**® word mark and logos are owned by Bluetooth SIG, Inc. and any use of such marks by Leica Geosystems AG is under license. Other trademarks and trade names are those of their respective owners.