Leica TS30 and TM30
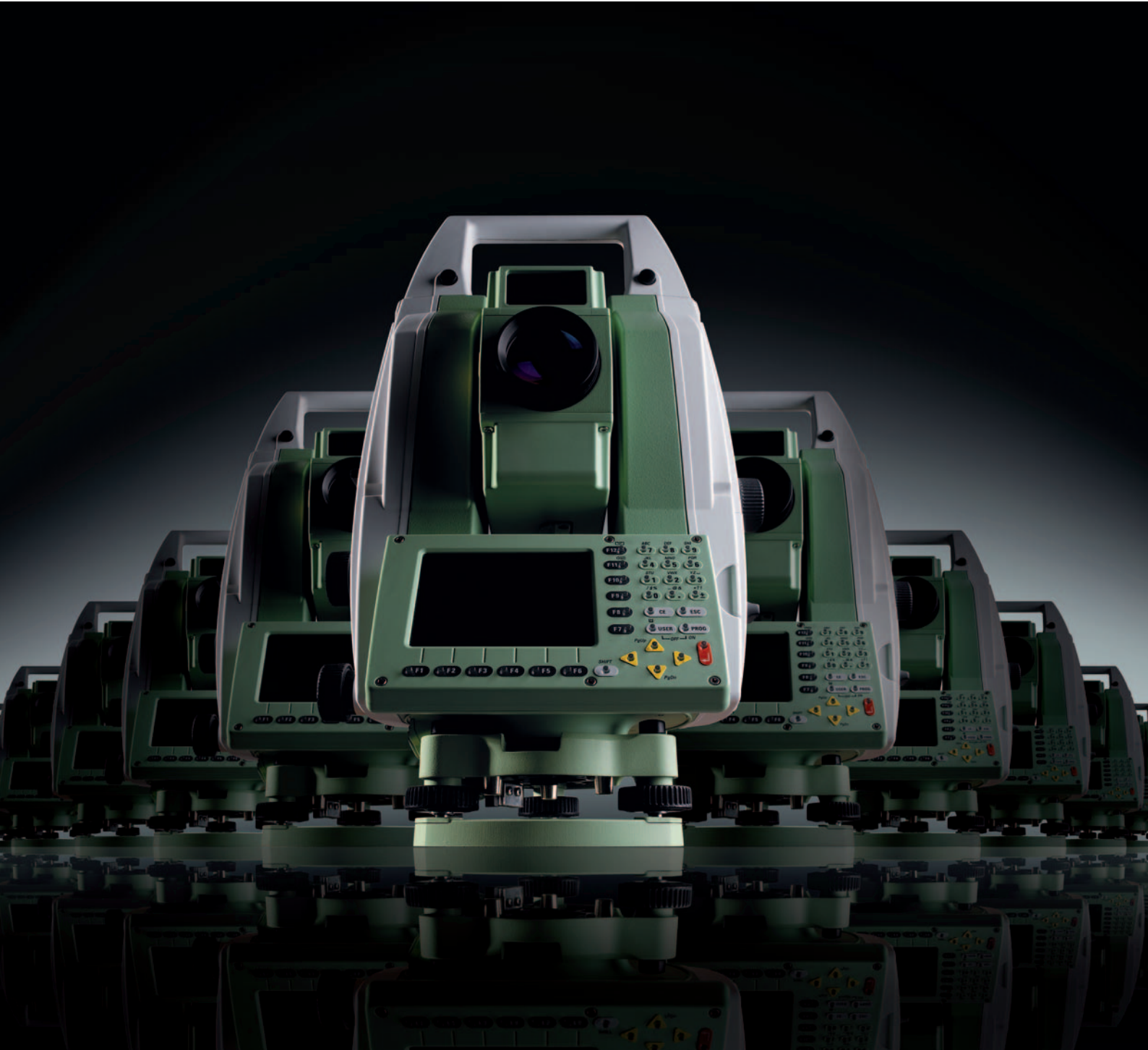## Equipment List

- when it has to be **right**

Leica
Geosystems

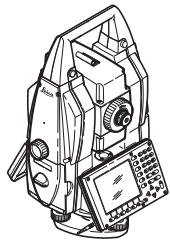# Table of Contents

Total Station

1 Total Station

1.1 Models

		TS30	TM30
	Angle measurement	●	●
	Distance measurement to reflector (IR-Mode)	●	●
	Dist. meas. without reflector (RL-Mode)	●	●
	Motorised	●	●
	Automatic Target Recognition (ATR)	●	
	Long Range Automatic Target Recognition (ATR)		●
	PowerSearch (PS)	●	
	Guide Light (EGL)	●	
	Radio Field Controller CS10/CS15	○	○
	SmartStation GS09 receiver	○	○
	SmartStation GS12 receiver	○	○
	SmartStation GS15 receiver	○	○

☞ Requires CS10/CS15 Field Controller.

● Standard
○ Optional

1.2 Angular Accuracies

		TS30	TM30
0.5"	**(0.15mgon)**	757 130	757 129
1"	**(0.3mgon)**	-	764 824

☞ TS30 total stations are delivered with two keyboards with touch screen, Communication side cover, internal memory 256MB, standard applications, user manual and upright container GVP648.

☞ TM30 total stations are delivered with one keyboard with touch screen, Communication side cover, internal memory 256MB, standard applications, user manual and upright container GVP648.

2 Additional Options

2.1 Touch Screen, Second Keyboard
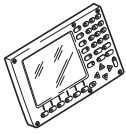
769 992	**GTS23**	2nd keyboard with touch screen and colour display, for TPS1200+/TM30 instruments, for telescope position 2, fitted.

2.2 Producer Certificates

366 358	**GDI33**	Producer Certificate O, all main products.
559 655	**GDI35**	Producer Inspection Certificate M for theodolites and total stations: Angle.
663 177	**GDI46**	Producer Inspection Certificate M for total stations: Distance measurement to prisms.
366 359	**GDI34**	Producer Inspection Certificate M for total stations: Angle and Distance measurement to prisms.
723 945	**GDI51**	Producer Inspection Certificate M for total stations: Distance measurement to prisms and to any surfaces (reflectorless).
723 946	**GDI52**	Producer Inspection Certificate M for total stations: Angle and Distance measurement to prisms and to any surfaces (reflectorless).

2.3 Calibration Certificates

757 424	**GDI58**	Calibration Certificate for electronic total stations - Swiss accredited Calibration Laboratory: Angle Hz and V.
757 425	**GDI59**	Calibration Certificate for electronic total stations - Swiss accredited Calibration Laboratory: Angle Hz, V and Distance measurement to prism.
777 783	**GDI61**	Calibration Certificate for electronic total stations - Swiss accredited Calibration Laboratory: Angle Hz, V, Distance measurement to prism and to any surface (reflectorless).

3 SmartWorx TPS Application Programs & Software Options

3.1 SmartWorx TPS Application Programs

	Setup includes: • Get station coordinates from GPS, from job or enter manually • Local Resection • Orientation by Known Azimuth • Orientation by Known Backsight • Orientation & Height Transfer to up to 10 target points • Resection Helmert • Resection to up to 10 target points
	Survey includes: • AutoPoint recording • Remote Heights • Target Offset calculations

3.2 SmartWorx TPS Application Programs, Standard

738 478	**COGO includes:** • Arc Calculations • Intersections • Inverse • Line Calculations • Shift, Rotate & Scale (Manual) • Shift, Rotate & Scale (Match Pts) • Traverse
737 844	**Alignment Tool Kit**
740 269	**Determine Coordinate System**
752 691	**DXF Import**
744 617	**GPS Survey**
738 477	**Stakeout**

3.3 SmartWorx TPS Application Programs, Optional

748 188	**Area Division (requires COGO)**
744 866	**Athletics**
748 186	**Cross Section**
734 169	**DTM Stakeout (requires Stakeout)**
760 346	**DXF Export**
742 442	**Hidden Point**
763 403	**Land XML Export**
744 701	**Monitoring (requires Sets of Angles)**
734 167	**Reference Line**
734 181	**Reference Plane**
734 182	**RoadRunner**
746 388	**RoadRunner Rail**
742 591	**RoadRunner Tunnel**
734 168	**Sets of Angles**
734 170	**Traverse**
765 559	**Traverse Adjustment (requires Traverse)**
748 187	**Volume Calculation**

3.4 Software Options

765 231	GeoCom Imaging licence for TS30/TM30

3.5 Optional Licences for SmartStation Setups

☞ Additional TPS licences for GS12 SmartStation setups can be found in the chapter 20.4.

☞ Additional TPS licences for GS09 SmartStation setups can be found in the chapter 19.2.

Accessories for Total Station

4 Accessory Sets

6003186	**TS30/TM30**	**Accessory Set** Consisting of: GDF121 tribrach, 2 GEB241 batteries, GKL221 charger with two GDI221 charging adapters, MCF256 CompactFlash card 256MB, GEV218 Data transfer cable Lemo 1/USB.

5 Power Supply

5.1 Internal Batteries
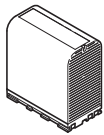
754 834	**GEB241**	Lithium-Ion battery, 14.8V/4.8Ah, rechargeable, for TS30/TM30.

5.2 External Batteries
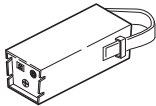
727 367	**GEB171**	External universal battery, NiMH, 12V/9Ah, rechargeable.
749 279	**GEV208**	External power supply unit. To connect TS30/TM30 instruments to mains power (220V to 12V). ☞ Requires a GEV219 or GEV220 cable.

5.3 Battery Cables

758 469	**GEV219**	1.8m power cable, connects external battery GEB171 to TS30/TM30 instrument.
439 038	**GEV71**	Car battery cable 4m, to connect 12V car battery.
759 257	**GEV220**	Y-cable, connects TS30/TM30 to PC (9-pin RS232 serial) and external battery, 2m.

5.4 Battery Chargers
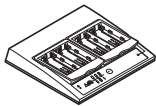
733 271	**GKL221**	Charger PRO. To be used with up to two charging adapters GDI221 or GDI222, charger cable and net adapter included.
733 323	**GDI221**	Adapter for GKL221 for charging 2 Li-Ion batteries GEB241, GEB221 or GEB211.
734 389	**GDC221**	Car adapter for the GKL221 charger. Allows the use of the GKL221 with a cigarette lighter; 12V/24V DC/DC converter.

6 Data Storage and Data Transfer

6.1 CompactFlash Card

733 257	**MCF256**	CompactFlash card 256MB for TPS instruments and CS10/CS15 field controller.
745 995	**MCF1000**	CompactFlash card 1GB for TPS instruments and CS10/CS15 field controller.

6.2 Card Reader & Adapter
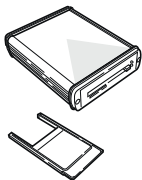
767 895	**MCR7**	Card reader for SD/CF cards.
733 258	**MCFAD1**	CompactFlash PC card adapter.

6.3 Data Transfer Cables

	758 468	**GEV218**	Data transfer cable, Lemo to USB connector (incl. USB electronics), 2.0m. Connects TS30/TM30 to PC driver and user manual included on CD.
	733 282	**GEV162**	2.8m data transfer cable. Connects GPS1200+ receiver RX controller port or TS30/TM30 to PC for data transfer, firmware upload etc. Lemo to 9-pin RS232 serial connector.
	759 257	**GEV220**	Y-cable, connects TS30/TM30 to PC (9-pin RS232 serial) and external battery, 2m.
	771 057	**GEV236**	Y-cable, connects TS30/TM30 to TCPS radio and external battery, 2m.
	733 283	**GEV163**	Data transfer cable, connects CS10/CS15 field controller with CSC01Lemo connector to TS30/TM30, 1.8m.

7 Optical Accessories

7.1 Eyepiece

	377 802	**FOK53**	Magnification eyepiece, additional eyepiece for increasing telescope magnification to 42x. ☞ Modification in a workshop necessary.
	308 838	**FOK53**	Magnification eyepiece, additional eyepiece for increasing telescope magnification to 42x. ☞ Modification ex factory. Can only be ordered with a new instrument.
	734 514	**GFZ3**	Diagonal eyepiece for telescope.
	376 236	**GOK6**	Eyepiece for steep sights, with joint allowing variable sighting angle.

7.2 Autocollimation Set

	199 899	**GOA2**	Autocollimation eyepiece.
	394 787	**GEB62**	Plug-in lamp, with cable for autocollimation eyepiece.
	394 792	**GEB63**	Battery box for autocollimation eyepiece and eyepiece lamp.

7.3 Objective

	743 504	**GVO13**	Objective solar filter for TPS instruments.

8 Instrument Height Meter
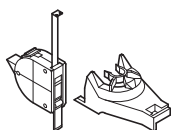
	667 718	**GHM007**	Instrument height meter.
	722 045	**GHT196**	Distance holder for height meter.

9 Tribrachs
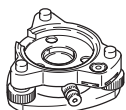
	667 304	**GDF121**	Tribrach, without optical plummet, pale green.
	667 307	**GDF122**	Tribrach, with optical plummet, pale green.

10 Tripods
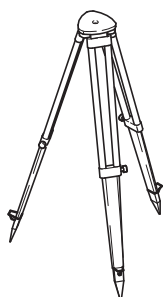
296 632	**GST20**	Tripod, telescopic, with accessories (plumb bob, carrying strap and side clamp screws).
394 752	**GST20-9**	Tripod, telescopic, with accessories, without pouch.
667 301	**GST120-9**	Tripod, telescopic, selfclosing, with accessories, without pouch.
332 200	**GST4**	Tripod-star, for setting up tripods on hard and slippery surfaces.

11 Reflector Poles

11.1 Standard Poles
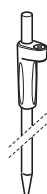
385 500	**GLS11**	Reflector pole, telescopic, with circular bubble, cm and ft graduation, extends to 2.15m.
754 391	**GLS12**	Reflector pole, telescopic to 2.00m with circular bubble, cm graduations.
754 389	**GLS12F**	Reflector pole, telescopic to 2.00m with circular bubble, ft graduations.
752 292	**GLS30**	Telescopic carbon GNSS pole with 5/8" screw. Snap locks at 1.80m and 2.00m. Includes circular bubble.
766 359	**GLS31**	Reflector carbon-fibre pole with circular bubble and twist lock. Snap-locks at 2,00m for GPS (GNSS) antennas with GAD31 adapter or GRZ122 reflector (SmartPole setup).
667 309	**GLS111**	Reflector pole, with bull's-eye bubble, cm/ft graduation, extends to 2.60m, with red/white 0.20m graduations.
667 310	**GLS112**	Reflector pole, with bull's-eye bubble, cm/ft graduation, extends to 3.65m, with red/white 0.20m graduations.
555 720	**GSR2**	Dual strut support for GLS11/GLS11K plumbing pole.
667 319	**GSR111**	Dual-strut support for all GLS.
403 428	**GZW12**	Extension 1m long, for reflector pole GLS11 and carriers.

11.2 Hidden Point Pole

742 329	**GMP112**	Hidden Point pole extension for GMP111 (mini prism pole set). Includes mini prism with holder and 30cm adapter pole.
744 495	**GMP112-0**	Hidden Point pole extension for GMP111-0. Includes mini prism and 30cm adapter pole.

11.3 Mini Pole
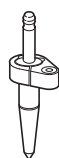
403 427	**GLS14**	Mini reflector pole, (prism/target 20cm over point), with circular bubble.

12 Reflector Carriers
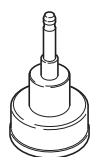
667 313	**GRT144**	Carrier with stub, pale green.
667 316	**SNLL121**	Precision carrier, with plate level and zenith-nadir laser plummet.
428 340	**GZR3**	Precision carrier, with plate level and optical plummet.
725 566	**GZR103**	Carrier, with plate level and optical plummet, for reflectors and GPS antenna, pale green.

13 Reflectors

13.1 Circular Reflectors
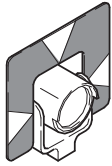
362 830	**GPR1**	Circular prism, in black housing.
641 617	**GPR121**	Circular prism, with metal holder and target plate.
362 820	**GPH1**	Single-prism holder.
400 080	**GPH3**	Three-prism holder.
362 823	**GZT4**	Target plate, for GPH1.

13.2 360° Reflectors

639 985	**GRZ4**	360° reflector.
644 327	**GRZ101**	360° mini prism with 1/4" thread fitting. Not supported by PowerSearch.
754 384	**GRZ122**	360° reflector with 5/8" thread adapter for mounting of GPS antenna.
742 006	**GAD103**	Adapter for attaching GRZ101 to all poles with Leica Geosystems stub.

13.3 Precision Reflectors
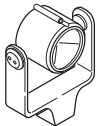
555 631	**GPH1P**	Single-prism precision reflector.

13.4 Mini Reflectors
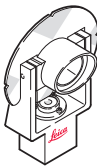
641 662	**GMP101**	Mini prism, incl. bubble, target plate and spike, in bag, also suitable for GLS11 and GRT44 (same height as GPH1, additive constant +17.5mm).
641 762	**GMP104**	Mini prism, with L-bar, for fixed installations.
641 615	**GMP111**	Mini prism, incl. bubble, with GLS115 pole set.
642 534	**GMP111-0**	Mini prism 0-constant, incl. bubble, with GLS115 pole set.
743 503	**GAD105**	Adapter for GMP111 to all poles with Leica Geosystems stub.

13.5 Reflector Tapes

763 532	**GZM29**	Reflective tape, 20x20mm for short range, pack of 20 pieces.
763 533	**GZM30**	Reflective tape, 40x40mm for medium range, pack of 20 pieces.
763 534	**GZM31**	Reflective tape, 60x60mm for long range, pack of 20 pieces.

14 Additional Containers
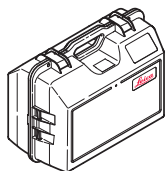
|		
754 598	**GVP640**	Hard container for GS09 SmartAntenna and corresponding GS09 SmartStation accessories.
767 828	**GVP642**	Viva hard container for GS15 SmartAntenna, CS10/CS15 field controller, and corresponding SmartPole and SmartStation accessories.
782 384	**GVP656**	Viva hard container for GS12 SmartAntenna, CS10/CS15 field controller, and corresponding SmartPole and SmartStation accessories.
744 501	**GDZ66**	Backstraps (2) for GVP640 and GVP642 hard container.
667 451	**GVP609**	Container for 2 circular prisms GPR111/121, 2 carriers/laser plummets and 2 tribrachs.
727 589	**GVP102**	Soft bag with shoulder strap, for prism station, consist of tribrach, prism carrier or laser plummet and prism.

Remote Control

15 Remote Control

15.1 Remote Control Sets

Advanced Remote Control Sets

6003611	Advanced CS10 Set for TPS1200+ and TS30/TM30 instruments, consisting of CS10 radio field controller with integrated TPS radio modem, CBC01 Lemo connector modul and CS SmartWorx Viva licence key (767 909), GHT62 pole holder with GHT63 pole clamp, RH15 RadioHandle, 2 GEB212 battery and container.
6003612	Advanced CS15 Set for TPS1200+ and TS30/TM30 instruments, consisting of CS15 radio field controller with integrated TPS radio modem, CBC01 Lemo connector modul and CS SmartWorx Viva licence key (767 909), GHT62 pole holder with GHT63 pole clamp, RH15 RadioHandle, 2 GEB212 battery and container.

Professional Remote Control Set

6003841	Professional CS15 Set for TPS1200+ and TS30/TM30 instruments, consisting of CS15 UMTS radio field controller with intrgrated TPS radio modem, CBC01 lemo connector modul and CS SmartWorx Viva licence key (767 909), GHT62 pole holder with GHT63 pole clamp, RH15 RadioHandle, 2 GEB212 batteries and container.

15.2 CS10/CS15 Radio Field Controller

767 866	**CS10 Radio Field Controller**	**CS10 Radio Field Controller.** Ruggedized WinCE field controller with full VGA colour touch screen, 1GB NAND flash memory, 512MB SDRAM, CF/SD card slot and 2MP camera. Includes Bluetooth, internal WLAN module, internal TPS radio module, numeric keypad, stylus. Available with either Lemo connector (CBC01) or DSUB connector module (CBC02).	
767 871	**CS15 Radio Field Controller**	**CS15 Radio Field Controller.** Ruggedized WinCE field controller with full VGA colour touch screen, 1GB NAND flash memory, 512MB SDRAM, CF/SD card slot and 2MP camera. Includes Bluetooth, internal WLAN module, internal TPS radio module, QWERTY keypad, stylus. Available with either Lemo connector (CBC01) or DSUB connector module (CBC02).	
781 600	**CS15 UMTS Radio Field Controller**	**CS15 UMTS Radio Field Controller.** Ruggedized WinCE UMTS field controller with full VGA colour touch screen, 1GB NAND flash memory, 512 MB SDRAM, CF/SD card slot and 2MP camera. Includes UMTS module, Bluetooth, interal WLAN module, internal TPS radio module, QUERTY keypad and stylus. Available with either Lemo connector (CBC01) or DSUB connector module (CBC02).	

Extra pen

781 521	**GDZ69**	Extra pen with screw driver for CS10 and CS15 field controller.

Anti-glare display foils

767 907	**SPF01**	Anti-glare display foils for CS10 and CS15 field controller.

16 Connector Modules for CS10/CS15
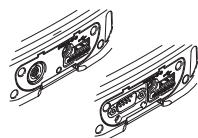
767 874	**CBC01**	Lemo connector module with power jack, Lemo (USB and Serial) and USB A host for CS10 and CS15 field controller. ☞ Can only be ordered with CS10/CS15 field controller.
767 875	**CBC02**	DSUB connector module with power jack, DSUB 9-pin, USB A host and USB mini AB for CS10 and CS15 field controller. ☞ Can only be ordered with CS10/CS15 field controller.

17 SmartWorx Viva Software and Application Programs

17.1 SmartWorx Viva Software for CS10/CS15

767 908	SmartWorx Viva software and DVD.
767 910	CS SmartWorx Viva LT licence key. ☞ Requires 767 908 SmartWorx Viva software.
767 909	CS SmartWorx Viva licence key. ☞ Requires 767 908 SmartWorx Viva software.
767 911	CS SmartWorx Viva LT to CS SmartWorx Viva upgrade option.

17.2 Applications Included with SmartWorx Viva

	CS Smart-Worx Viva	CS Smart-Worx Viva LT
Survey includes:		
• Survey	●	●
• Code points	●	●
• Auto points recording	●	○
• Remote Heights	●	-
• Target Offset calculations	●	●
Setup includes:		
• Get station coordinates from GPS, from Job or enter manually	●	○
• Orientation by known Azimuth	●	●
• Orientation by known Backsight	●	●
• Orientation & Height transfer to up to 10 target points	●	●
• Resection up to 10 target points	●	●
• Resection Helmert	●	●
• Orientation to Line	●	●
Stakeout includes:		
• Navigate to point using various methods: North, point, to and from total station	●	○
• Quality control - checking of coordinate differences before storing	●	-
• Automatic selection of next closest point to stake	●	-
• Graphical selection of point from map	●	●
• Edit heights and offset heights of points	●	-
• Acoustic "reversing beep" when getting closer to point	●	-
COGO includes:		
• Inverse	●	●
• Traverse	●	●
• Intersections	●	●
• Line calculations	●	●
• Arc calculations	●	●
• Angle and curve calculator	●	-
• Shift, Rotate & Scale (manual)	●	●
• Shift, Rotate & Scale (match Points)	●	●
Determine coordinate system:		
• 1 step, 2 step, 3D Transformation	●	●
• All common projections	●	●
Alignment Tool Kit:		
• Horizontal alignments	●	●
• Vertical alignments	●	●
• Cross sections	●	●
• Chainage equations	●	●
Data import: ASCII, DXF	●	●
Data export: Custom ASCII, DXF, LandXML, FBK, RW5, RAW	●	●

● All options and functionality available

○ Limited options and functionality

- Not available

17.3 Additional SmartWorx Viva Software Packages

		SmartWorx Viva	SmartWorx Viva LT
767 913	**Worksite+ includes:** • CS DTM Stakeout application (767 919) • CS Reference Line application (767 915) • CS Surface & Volumes application (767 920)	● ● ●	● ○ ●
767 912	**Survey+ includes:** • CS Reference Plane and Grid Scanning (767 916) • CS Survey Cross Section (767 918) • CS Traverse (767 927) • CS Sets of Angles (767 929) • CS Hidden Point (767 926) ☞ Requires Art. No. 767 909 SmartWorx Viva.	● ● ● ● ●	- - - - -

● All options and functionality available
○ Limited options and functionality
- Not available

17.4 Optional Applications for SmartWorx Viva

		SmartWorx Viva	SmartWorx Viva LT
767 917	**CS COGO Area Division** ☞ Requires COGO application.	●	●
767 919	**CS DTM Stakeout** ☞ Requires Stakeout application.	●	●
767 931	**CS Monitoring** ☞ Requires Sets of Angles application.	●	-
767 915	**CS Reference Line** ☞ Requires Stakeout application.	●	○
767 916	**CS Reference Plane and Grid Scanning**	●	-
767 921	**CS RoadRunner**	●	○
767 923	**CS RoadRunner Rail**	●	-
767 922	**CS RoadRunner Tunnel**	●	-
777 645	**CS RoadRunner Importer**	●	●
767 929	**CS Sets of Angles**	●	-
767 918	**CS Cross Section**	●	-
767 920	**CS Surface and Volumes**	●	●
767 926	**CS TPS Hidden Point**	●	-
767 927	**CS Traverse**	●	-

● All options and functionality available
○ Limited options and functionality
- Not available

17.5 Optional Licences for CS10/CS15 Controller

☞ Further CS licences for GS12 SmartPole setups can be found in the chapter 20.3.

779 474	Topcon total station control licence.
782 287	Nikon totalstation control licence.
782 286	SOKKIA totalstation control licence.

17.6 SmartWorx Viva PC Software

773 894	SmartWorx Viva PC Software. Licence Key to run the SmartWorx Viva software on a PC.

Accessories for Remote Control

18 Accessories for Remote Control

18.1 Internal Batteries
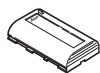
	733 269	**GEB211**	Lithium-Ion battery, 7.4V/2.2Ah, rechargeable. To be used with CS10/CS15 field controller and GS09 or GS15 receivers.
	772 806	**GEB212**	Lithium-Ion battery, 7.4V/2.6Ah, rechargeable. To be used with CS10/CS15 field controller and GS09 or GS15 receivers.

18.2 Memory Devices

	767 856	**MSD1000**	SD memory card 1GB for CS10 and CS15 field controller.
	733 257	**MCF256**	CompactFlash card 256MB for TPS instruments and CS10/CS15 field controller.
	745 995	**MCF1000**	CompactFlash card 1GB for TPS instruments and CS10/CS15 field controller.
	765 199	**MS1**	USB memory stick, 1GB, industrial grade.

18.3 Card Reader & Adapter
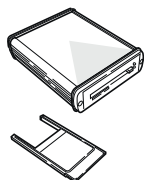
	767 895	**MCR7**	Card reader for SD/CF cards.
	733 258	**MCFAD1**	CompactFlash PC card adapter.

18.4 Docking Station
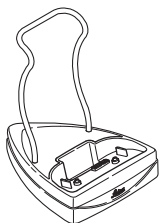
	767 906	**CCS01**	Docking station for CS10 and CS15 field controller for charging and data transfer to PC, includes: GEV223 (USB A to USB mini data transfer cable).

18.5 Additional Power Accessories

	767 900	**GEV235**	1.5m power cable. Allows CS10/CS15 controller to be externally powered via the power jack. Usable in the EU.
	773 753	**GEV235-1**	1.5m power cable. Allows CS10/CS15 controller to be externally powered via the power jack. Usable in the US.
	773 754	**GEV235-2**	1.5m power cable. Allows CS10/CS15 controller to be externally powered via the power jack. Usable in Japan.
	773 755	**GEV235-3**	1.5m power cable. Allows CS10/CS15 controller to be externally powered via the power jack. Usable in the UK.
	773 756	**GEV235-4**	1.5m power cable. Allows CS10/CS15 controller to be externally powered via the power jack. Usable in Australia.
	734 389	**GDC221**	Car adapter for the GKL221 charger. Allows the use of the GKL221 with a cigarette lighter; 12V/24V DC/DC converter. Can also be used to power CS10/CS15 field controller directly from a cigarette lighter.

18.6 Pole Accessories for CS10/CS15 Field Controller
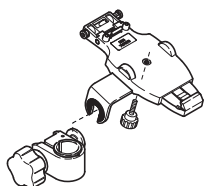
	767 879	**GHT62**	Pole holder base plate for CS10 and CS15 field controller.
	767 880	**GHT63**	Clamp arrangement for attaching the GHT62 to all poles.

18.7 Softbags and Hand Strap for CS10/CS15 Field Controller
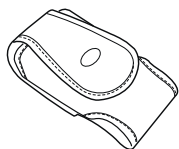
Soft bags

767 904	**GVP643**	Soft bag for CS10 field controller for transportation and protection against dirt. Including belt loop.
767 905	**GVP644**	Soft bag for CS15 field controller for transportation and protection against dirt. Including belt loop.

Hand strap

767 877	**GHT61**	Hand strap for CS10 and CS15 field controller with utility hook for attaching to belt or tripod.

18.8 RH15 RadioHandle
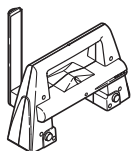
772 300	**RH15**	Radio Handle with integrated radio modem and radio antenna. Used as radio modem for TPS1200+ and TS30/TM30 instruments together with CS10 & CS15 field controller (frequency range 2402 - 2452MHz).

18.9 TCPS28 Modems
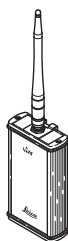
772 301	**TCPS28B**	Radio modem (base) with antenna, user manual. Used as radio modem for TPS1200+ and TS30/TM30 instruments to communicate with CS10 & CS15 field controller (frequency range 2402 - 2452MHz).
772 302	**TCPS28R**	Radio modem (remote) with antenna, user manual. Used as external radio to establish radio connection with TCSP28B (frequency range 2402 - 2452MHz).

18.10 TCPS28 Accessories

734 163	**GHT43**	Adapter for mounting TCPS28 radio module on GST20/GST120 tripod.

18.11 Cables for CS10/CS15 Field Controller and TCPS28 Radio Modems

Cable adapters

734 389	**GDC221**	Car lighter to power jack for CS10/CS15 field controller.

Data transfer cables

764 700	**GEV223**	Data transfer cable for connecting CS10/CS15 field controller to PC (USB A to USB mini connector).
767 899	**GEV234**	Cable to connect CS10/CS15 field controller to GS10/GS15 SmartAntenna for data transfer. USB A to Lemo connector (for GS15 SmartStation setup).
772 807	**GEV237**	Cable to connect CS10/CS15 field controller to GS15 SmartAntenna for data transfer. Lemo to Lemo connector (for GS15 SmartStation setup).
733 283	**GEV163**	Data transfer cable, connects CS10/CS15 field controller with CSC01 Lemo connector to TS30/TM30, 1.8m.
771 057	**GEV236**	Y-cable, connects TS30/TM30 to TCPS radio and external battery, 2m.

Power cables

758 469	**GEV219**	Power cable, connects CS10/CS15 (with Lemo CBC01 connector module) to external battery.

SmartStation

19 SmartStation Setup using GS09 Antenna

19.1 GS09 Antenna

	769 646	**GS09**	GPS/GLONASS dual frequency antenna. Can be used with TPS1200+ and TS30/TM30 instruments for SmartStation setup.

19.2 Additional TPS Software Options for GS09 Receiver

752 656	GPS raw data logging license (for SmartStation with GS09 antenna)
752 873	TPS GLONASS option (for SmartStation with GS09 antenna)

19.3 SmartAntenna Adapter

	741 965	**GAD104**	SmartAntenna adapter. Required to attach GS09 antenna and/or radio modem in GFU14 housing onto TPS1200+/TS30/TM30.

19.4 Satelline Radio Modems

Satelline modems
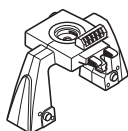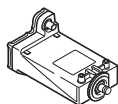
733 275	**GFU14-0**	Satelline 3AS radio modem (433.525MHz, 25.0kHz channel spacing, 0.5W) already intergrated into housing, fits on GAD104 SmartAntenna adapter. User manual and CE Declaration of Conformity included.
733 276	**GFU14-1**	Satelline 3AS radio modem (406.425MHz, 25.0kHz channel spacing, 1.0W) already intergrated into housing, fits on GAD104 SmartAntenna adapter. User manual and CE Declaration of Conformity included.
738 272	**GFU14-2**	Satelline 3AS radio modem (445.000MHz, 12.5kHz channel spacing, 1.0W) already intergrated into housing, fits on GAD104 SmartAntenna adapter. User manual and CE Declaration of Conformity included.
738 273	**GFU14-3**	Satelline 3AS radio modem (443.000MHz, 12.5kHz channel spacing, 1.0W) already intergrated into housing, fits on GAD104 SmartAntenna adapter. User manual and CE Declaration of Conformity included.
738 274	**GFU14-4**	Satelline 3AS radio modem (440.550MHz, 25.0kHz channel spacing, 0.5W) already intergrated into housing, fits on GAD104 SmartAntenna adapter. User manual and CE Declaration of Conformity included.
738 275	**GFU14-5**	Satelline 3AS radio modem (458.150MHz, 12.5kHz channel spacing, 1.0W) already intergrated into housing, fits on GAD104 SmartAntenna adapter. User manual and CE Declaration of Conformity included.
738 276	**GFU14-6**	Satelline 3AS radio modem (439.8625MHz, 12.5kHz channel spacing, 1.0W) already intergrated into housing, fits on GAD104 SmartAntenna adapter. User manual and CE Declaration of Conformity included.
753 928	**GFU14-7**	Satelline 3AS radio modem (464.5000MHz, 25.0kHz channel spacing, 1.0W) already intergrated into housing, fits on GAD104 SmartAntenna adapter. User manual and CE Declaration of Conformity included.
756 623	**GFU14-8**	Satelline 3AS radio modem (458.6000MHz, 25.0kHz channel spacing, 0.5W) already intergrated into housing, fits on GAD104 SmartAntenna adapter. User manual and CE Declaration of Conformity included.
767 859	**GFU27**	Satelline M3 TR1 403-470Mhz RX/TX radio in GFU housing. Transceiver UHF radio module. User manual and CE Declaration of Conformity included.

Cable for Satelline modems

733 297	**GEV171**	1.8m cable to program the Satelline 3AS radio modem inside the GFU14 housing.

19.5 Pacific Crest Radio Modems
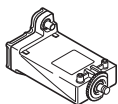
☞ Pacific Crest radio modems must be ordered directly from your local Pacific Crest office or representative.

PDL receive only modems built into the Leica GFU radio housing with 12.5 or 25kHz channel spacing within the following frequency bands are available:
- 410 - 430MHz
- 430 - 450MHz
- 450 - 470MHz
- 223 - 235MHz

19.6 Mobile Phones

750 242	**GFU24**	Housing with Siemens MC75 GSM/GPRS module (Quad-Band GSM 850/900/1800/1900MHz), fits on GAD104 SmartAntenna adapter.
750 243	**GFU25**	CDMA cellular phone for Canada, Multitech MTMMC-C-N12 for Bell mobility network, integrated into housing, fits on GAD104 SmartAntenna adapter.
744 754	**GFU19**	US CDMA cellular phone Multitech MTMMC-C; intergrated into housing, fits on GAD104 SmartAntenna adapter.
767 860	**GFU28**	5-Band (850/900/1800/1900/2100Mhz) Telit 3.5G GSM/GPRS/UMTS module in GFU housing. Provides fully flexibilty due to 5-band technology and therefore global compatible to all GSM, GPRS, EDGE and UMTS network providers.
783 170	**GFU28-1**	5-Band (850/900/1800/1900/2100 Mhz) Telit 3G GSM/GPRS/UMTS module for US and Canada only. Provides fully flexibilty due to 5-band technology and therefore compatible to GSM,GPRS,EDGE and UMTS network providers in US and CAN.

19.7 Antennas for Radio Modems and Mobile Phones

Antennas for radio modems

743 281	**GAT1201**	Antenna for radio modem for use with SmartStation (400-435MHz).
743 282	**GAT1202**	Antenna for radio modem for use with SmartStation (435-470MHz).

Antennas for mobile phones

743 283	**GAT1203**	Antenna for 900/1800MHz mobile network for use with SmartStation.
743 284	**GAT1204**	Antenna for US mobile network (800/1900MHz) for use with SmartStation.

19.8 Container for GS09 Antenna & SmartStation Accessories
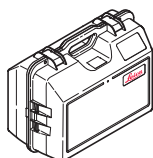
754 598	**GVP640**	Hard container for GS09 SmartAntenna and corresponding GS09 SmartStation accessories.

20 SmartStation & Smartpole Setup using a GS12 GNSS Receiver

20.1 GS12 GNSS Receiver

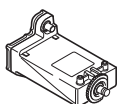| 782 288	**GS12**	GS12 GNSS receiver, Geodetic 120 channels GNSS receiver, includes: GPS L1+L2, 1 Hz position rate, easily upgradeable with TS/GS12 or CS/GS12 options (e.g. Glonass, Gallileo, GPS L5, Network Licence, Raw data logging).

20.2 SmartAntenna Adapter
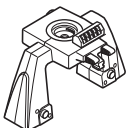
741 965	**GAD104**	GS12 SmartAntenna Adapter. Required to attach a GS12 GNSS Antenna onto a TPS1200+/TS30/TM30 Instrument.

20.3 Additional CS Options for GS12 GNSS SmartPole Setup

782 278	**GSW949**	**CS/GS12 GLONASS License.** License key for the CS10/CS15 field controller which enables use of GLONASS with a GS12 receiver.
782 279	**GSW950**	**CS/GS12 GPS L5 License.** License key for the CS10/CS15 field controller which enables use of GPS L5 with a GS12 receiver.
782 280	**GSW951**	**CS/GS12 GPS Galileo License.** License key for the CS10/CS15 field controller which enables use of Galileo with a GS12 receiver.
782 281	**GSW952**	**CS/GS12 5Hz License.** License key for the CS10/CS15 field controllers which enables to compute 5Hz positions with a GS12 receiver.
782 282	**GSW953**	**CS/GS12 Raw Data Logging License.** License key for the CS10/CS15 field controllers which enables logging of Leica MDB raw data with a GS12 receiver.
782 283	**GSW954**	**CS/GS12 RINEX Logging License.** License key for the CS10/CS15 field controllers which enables logging of RINEX raw data with a GS12 receiver.
782 284	**GSW955**	**CS/GS12 Network RTK Network License.** License key for the CS10/CS15 field controllers which eanbles the GS12 receiver to work within an RTK network. Includes unlimited RTK baseline.
782 285	**GSW956**	**CS/GS12 Leica Lite RTK License.** License key for the CS10/CS15 field controllers which enables the GS12 antenna to receive Leica Lite RTK messages.

20.4 Additional TPS Options for GS12 SmartStation Setup

|		
752 873	**GSW583**	**GS12 GLONASS License for TPS1200+, TS30/TM30 instruments.** License key for the TPS1200+, TS30/TM30 total stations which enables use of GLONASS with a GS12 receiver.
768 424	**GSW706**	**GS12 GPS L5 License for TPS1200+, TS30/TM30 instruments.** License key for the TPS1200+, TS30/TM30 total stations which enables use of GPS L5 with a GS12 receiver.
766 717	**GSW679**	**GS12 GPS Galileo License for TPS1200+, TS30/TM30 instruments.** License key for the TPS1200+, TS30/TM30 total stations which enables use of Galileo with a GS12 receiver.
752 656	**GSW532-1**	**GS12 Raw Data Logging License for TPS1200+, TS30/TM30 instruments.** License key for the TPS1200+, TS30/TM30 total stations which enables logging of Leica MDB raw data with a GS12 receiver.
6002648		**GS12 Pre-Signal Bundle for TPS1200+, TS30/TM30 instruments (SmartStation).** Consists of GLONASS option, GPS L5 option and Galileo option.

20.5 Power Supply
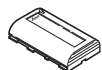
733 269	**GEB211**	Lithium-Ion battery, 7.4V/2.2Ah, rechargeable. To be used with CS10/CS15 field controller and GS09, GS12 or GS15 receivers.
772 806	**GEB212**	Lithium-Ion battery, 7.4V/2.6Ah, rechargeable. To be used with CS10/CS15 field controller and GS09, GS12 or GS15 receivers.

20.6 Satelline Radio Modems

Satelline modems

|		
733 275	**GFU14-0**	Satelline 3AS radio modem (433.525MHz, 25.0kHz channel spacing, 0.5W) already intergrated into housing, fits on GAD104 SmartAntenna adapter. User manual and CE Declaration of Conformity included.
733 276	**GFU14-1**	Satelline 3AS radio modem (406.425MHz, 25.0kHz channel spacing, 1.0W) already intergrated into housing, fits on GAD104 SmartAntenna adapter. User manual and CE Declaration of Conformity included.
738 272	**GFU14-2**	Satelline 3AS radio modem (445.000MHz, 12.5kHz channel spacing, 1.0W) already intergrated into housing, fits on GAD104 SmartAntenna adapter. User manual and CE Declaration of Conformity included.
738 273	**GFU14-3**	Satelline 3AS radio modem (443.000MHz, 12.5kHz channel spacing, 1.0W) already intergrated into housing, fits on GAD104 SmartAntenna adapter. User manual and CE Declaration of Conformity included.
738 274	**GFU14-4**	Satelline 3AS radio modem (440.550MHz, 25.0kHz channel spacing, 0.5W) already intergrated into housing, fits on GAD104 SmartAntenna adapter. User manual and CE Declaration of Conformity included.
738 275	**GFU14-5**	Satelline 3AS radio modem (458.150MHz, 12.5kHz channel spacing, 1.0W) already intergrated into housing, fits on GAD104 SmartAntenna adapter. User manual and CE Declaration of Conformity included.
738 276	**GFU14-6**	Satelline 3AS radio modem (439.8625MHz, 12.5kHz channel spacing, 1.0W) already intergrated into housing, fits on GAD104 SmartAntenna adapter. User manual and CE Declaration of Conformity included.
753 928	**GFU14-7**	Satelline 3AS radio modem (464.5000MHz, 25.0kHz channel spacing, 1.0W) already intergrated into housing, fits on GAD104 SmartAntenna adapter. User manual and CE Declaration of Conformity included.
756 623	**GFU14-8**	Satelline 3AS radio modem (458.6000MHz, 25.0kHz channel spacing, 0.5W) already intergrated into housing, fits on GAD104 SmartAntenna adapter. User manual and CE Declaration of Conformity included.
767 859	**GFU27**	Satelline M3 TR1 403-470Mhz RX/TX radio in GFU housing. Transceiver UHF radio module. User manual and CE Declaration of Conformity included.

Cable for Satelline modems

733 297	**GEV171**	1.8m cable to program the Satelline 3AS radio modem inside the GFU14 housing.

20.7 Pacific Crest Radio Modems
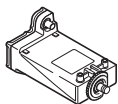
☞ Pacific Crest radio modems must be ordered directly from your local Pacific Crest office or representative.

PDL receive only modems built into the Leica GFU radio housing with 12.5 or 25kHz channel spacing within the following frequency bands are available:
- 410 - 430MHz
- 430 - 450MHz
- 450 - 470MHz
- 223 - 235MHz

20.8 Mobile Phones

750 242	**GFU24**	Housing with Siemens MC75 GSM/GPRS module (Quad-Band GSM 850/900/1800/1900MHz), fits on GAD104 SmartAntenna adapter.
750 243	**GFU25**	CDMA cellular phone for Canada, Multitech MTMMC-C-N12 for Bell mobility network, integrated into housing, fits on GAD104 SmartAntenna adapter.
744 754	**GFU19**	US CDMA cellular phone Multitech MTMMC-C; intergrated into housing, fits on GAD104 SmartAntenna adapter.
767 860	**GFU28**	5-Band (850/900/1800/1900/2100Mhz) Telit 3.5G GSM/GPRS/UMTS module in GFU housing. Provides fully flexibilty due to 5-band technology and therefore global compatible to all GSM, GPRS, EDGE and UMTS network providers.
783 170	**GFU28-1**	5-Band (850/900/1800/1900/2100 Mhz) Telit 3G GSM/GPRS/UMTS module for US and Canada only. Provides fully flexibilty due to 5-band technology and therefore compatible to GSM,GPRS,EDGE and UMTS network providers in US and CAN.

20.9 Antennas for Radio Modems and Mobile Phones

Antennas for radio modems

743 281	**GAT1201**	Antenna for radio modem for use with SmartStation (400-435MHz).
743 282	**GAT1202**	Antenna for radio modem for use with SmartStation (435-470MHz).

Antennas for mobile phones

743 283	**GAT1203**	Antenna for 900/1800MHz mobile network for use with SmartStation.
743 284	**GAT1204**	Antenna for US mobile network (800/1900MHz) for use with SmartStation.

20.10 Container for GS12 Receiver
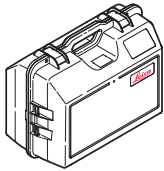
782 384	**GVP656**	Viva hard container for GS12 SmartAntenna, CS10/CS15 field controller, and corresponding SmartPole and SmartStation accessories.

21 SmartStation Setup using GS15 GNSS Receiver

21.1 GS15 GNSS Receiver
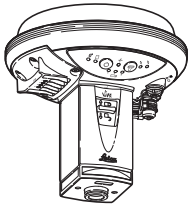
767 789	**GS15**	Leica GS15 Basic SmartAntenna
771 502	**GS15**	Leica GS15 Limited SmartAntenna
771 503	**GS15**	Leica GS15 Performance SmartAntenna
771 504	**GS15**	Leica GS15 Professional SmartAntenna

	Leica GS15 Basic	Leica GS15 Limited	Leica GS15 Performance	Leica GS15 Professional
Supported GNSS Systems				
GPS L2	●	●	●	●
GPS L5	○	○	○	●
GLONASS	○	○	○	●
Galileo	○	○	○	●
RTK performance				
DGPS/RTCM	○	●	●	●
RTK up to 5km	○	●	●	●
RTK unlimited	○	○	●	●
Network RTK	○	○	●	●
Leica Lite RTK	○	○	○	●
Position update & data recording				
5 Hz positioning	○	●	●	●
20 Hz positioning	○	○	●	●
Raw data logging	○	●	●	●
RINEX logging	○	○	○	●
NMEA out	○	○	○	●
Additional features				
RTK Reference Station functionality	○	○	●	●

● Standard
○ Optional

21.2 SmartAntenna Adapter
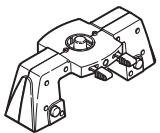
| 767 802 | **GAD110** | SmartAntenna adapter to mount GS15 SmartAntenna. |

21.3 Additional GS15 Receiver Options

GNSS Software options

767 804	**LOP1**	GPS L5 option, enables GPS L5 tracking on a GS10 or GS15 receiver.
767 805	**LOP2**	GLONASS option, enables GLONASS tracking on a GS10 or GS15 receiver.
767 806	**LOP3**	Galileo option, enables Galileo tracking on GS10 or GS15 receiver.

Position update and data recording options

|		
767 807	**LOP4**	5Hz option, enables to compute positions with an update rate up to 5Hz.
767 808	**LOP5**	20Hz option, enables to compute positions with an update rate up to 20Hz.
767 809	**LOP6**	Upgrade option from 5Hz to 20Hz. (LOP4 to LOP5)
767 810	**LOP7**	Raw data option, allows logging of GNSS raw data on GS10 or GS15 receiver or on a CS10/CS15 field controller.
767 811	**LOP8**	RINEX option, allows logging of RINEX data on GS10 or GS15 receiver.

RTK performance options

767 812	**LOP9**	5km RTK option, enables RTK positions to be computed up to a distance of 5km from a single base station.
767 813	**LOP10**	Unlimited RTK option, enables RTK positions to be computed from a single base station with no limit of distance.
767 814	**LOP11**	Upgrade from 5km RTK to unlimited RTK. (LOP9 to LOP10)
767 815	**LOP12**	Unlimited RTK and Network RTK, enables RTK position to be computed from a single base station and within a RTK network.
767 817	**LOP14**	Upgrade option for GS10 or GS15 receivers from RTK unlimited only to RTK unlimited including RTK Network. (LOP10 to LOP12)
771 971	**LOP20**	Leica Lite option, to receive System 900 RTK data on the GS10, GS15 receivers.

Other options

767 816	**LOP13**	RTK Reference station option, allows a GS10 or GS15 receiver to transmit RTK data.

21.4 RTK Modems
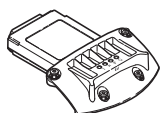
Satelline radio modules

767 819	**SLR1**	Satelline 3AS 403-470 MHz TXO radio. RTK transmitting only UHF radio module to be easily plugged into the GS15 GNSS receiver.
767 820	**SLR2**	Satelline 3AS 403-470 MHz RXO radio. RTK receive only UHF radio module to be easily plugged into the GS15 GNSS receiver.
781 646	**SLR5**	Satelline M3 TR1 403-470Mhz RX/TX radio. RTK receive and transmit UHF radio module to be easily plugged into the GS15 GNSS receiver.

Pacific Crest radio modules

767 821	**SLR3-1**	Pacific Crest ADL RX/TX radio 390-430Mhz. RTK receive and transmit UHF radio module to be easily plugged into the GS15 GNSS receiver.
767 822	**SLR3-2**	Pacific Crest ADL RX/TX radio 430-470Mhz. RTK receive and transmit UHF radio module to be easily plugged into the GS15 GNSS receiver.
6002544		Configuration tool kit for programming Satelline and Pacific Crest SLR RTK radio modules; includes programming cable GEV231 and configuration software CD ROM.

☞ SLR radios will be delivered pre-configured according to country-specific radio regulations. In countries where radios need to be configured locally, the configuration tool kit is to be used.

☞ External high power radios such as Satelline Epic Pro (10, 35W), Pacific Crest (2, 35W) or GFU radios can be used for RTK communication instead of the slot-in RTK modems.

Mobile phone modules

767 823	**SLG1**	5-Band (850/900/1800/1900/2100MHz) Telit GSM/GPRS/UMTS module. Provides full flexibility due to 5-band technology and is globally compatible to all GSM, GPRS, EDGE and UMTS network providers. Can be easily plugged into the GS15 GNSS receiver.
774 689	**SLG2**	4-Band (850/900/1800/1900MHz) Siemens MC75i GSM/GPRS module. Universal 4-band technology supports GSM, GPRS, and EDGE network providers. Can be easily plugged into the GS15 GNSS receiver.
767 824	**SLC1**	Dual band Telit CDMA 1xRTT module for US. Supports Sprint (US) network provider and can be easily plugged into the GS15 GNSS receiver.

767 825	**SLC2**	Dual band Telit CDMA 1xRTT module for US. Supports Verizon (US) network provider and can be easily plugged into the GS15 GNSS receiver.

21.5 External RTK Antennas

☞ The GS15 receiver is equipped with internal GSM/GPRS/UMTS antenna and internal UHF antenna as standard. In areas of poor GSM/GPRS/UMTS or UHF reception, the use of an external RTK antenna may improve reception.

RTK antenna arm

767 790	**GAD108**	Arm to mount external UHF/GSM antenna to GS15 SmartAntenna, useful in areas of poor radio or GSM network receiption.

Gainflex radio antennas

639 964	**GAT1**	Gainflex radio antenna (frequence range 400-435MHz).
667 243	**GAT2**	Gainflex radio antenna (frequence range 435-470MHz).

Antennas for mobiles phones

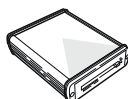| 782 500	**GAT18**	Multiband GSM/UMTS Antenna for 850/1900MHz, for 900/1800MHz and for 2100MHz mobile networks.

21.6 Memory Devices

767 856	**MSD1000**	SD memory card 1GB for CS10 and CS15 field controller.

21.7 Card Reader

767 895	**MCR7**	Card reader for SD/CF cards.

21.8 Power Supply

733 269	**GEB211**	Lithium-Ion battery, 7.4V/2.2Ah, rechargeable. To be used with CS10/CS15 field controller and GS09 or GS15 receivers.
772 806	**GEB212**	Lithium-Ion battery, 7.4V/2.6Ah, rechargeable. To be used with CS10/CS15 field controller and GS09 or GS15 receivers.

22 Additional Containers
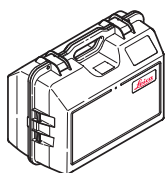
767 828	**GVP642**	Viva hard container for GS15 SmartAntenna, CS10/CS15 field controller, and corresponding SmartPole and SmartStation accessories.

Care Packages

23 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.

Suggested Equipment Setups

24 Conventional Surveying

MCF256
733257

GEB241
754843

TS30/TM30

GDF121
667304

GST120-9
667301

GPR121
641617

GLS12
745391
GLS12F
754389

25 Robotic Surveying

RH15
772300

MCF256
733257

GEB241
754843

TS30

GDF121
667304

GST120-9
667301

GRZ4
639985

MSD1000
767856

CS15
781600

GHT62
767879
GHT63
767880

GEB212
772806

GLS12
745391
GLS12F
754389
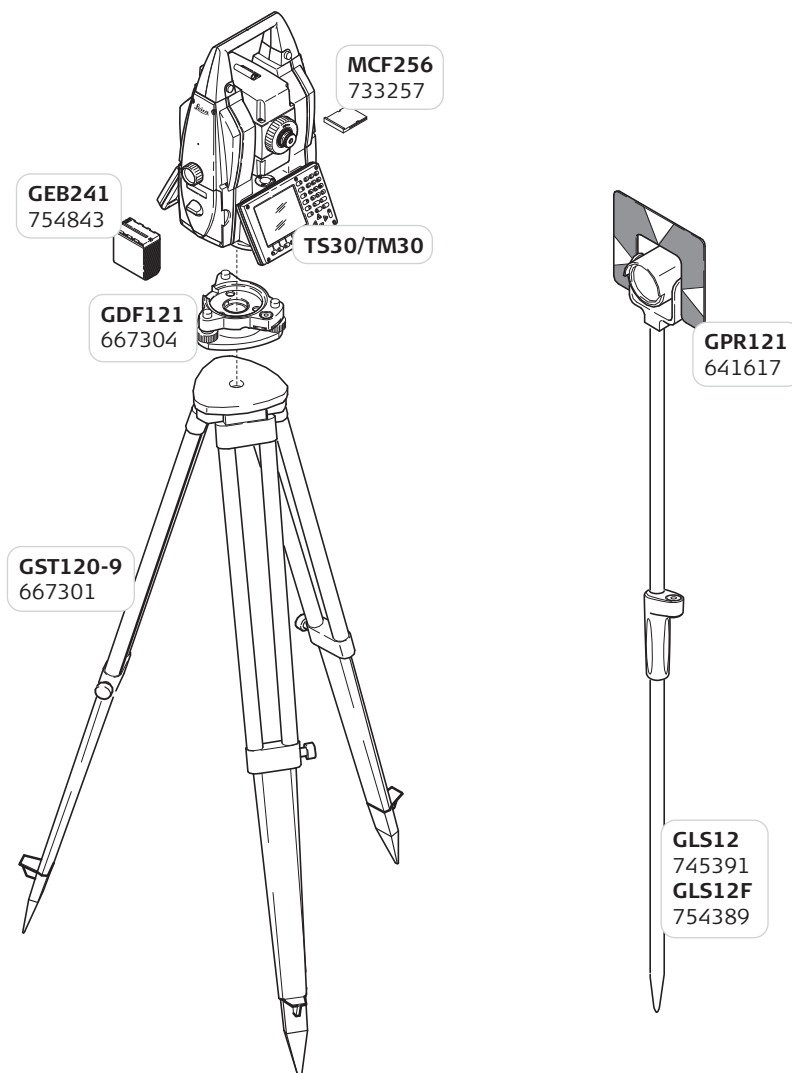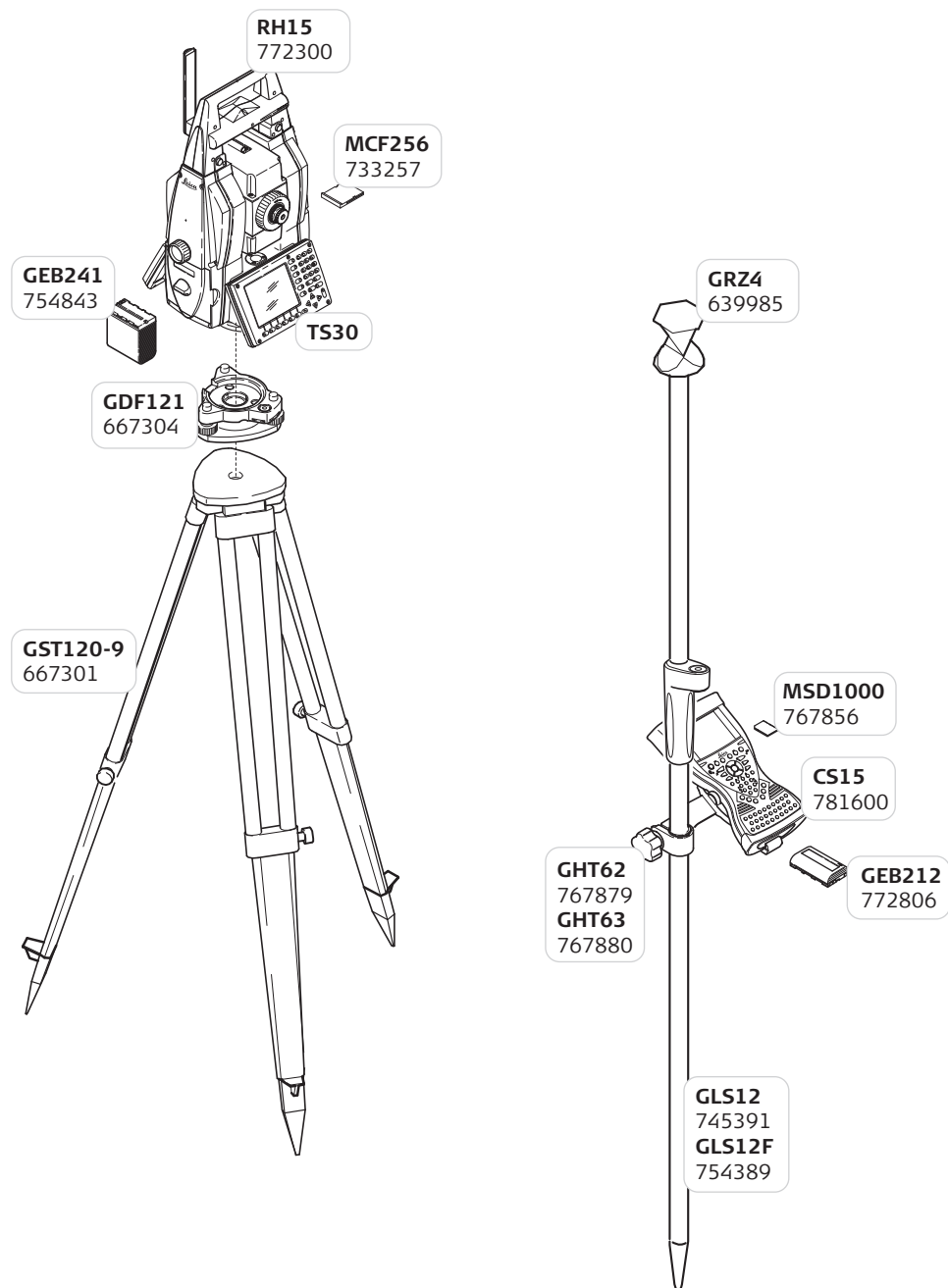
☞ Using SmartWorx Viva functionality on the CS15 radio field controller.

26 SmartPole Surveying

26.1 SmartPole using the GS12 GNSS Receiver
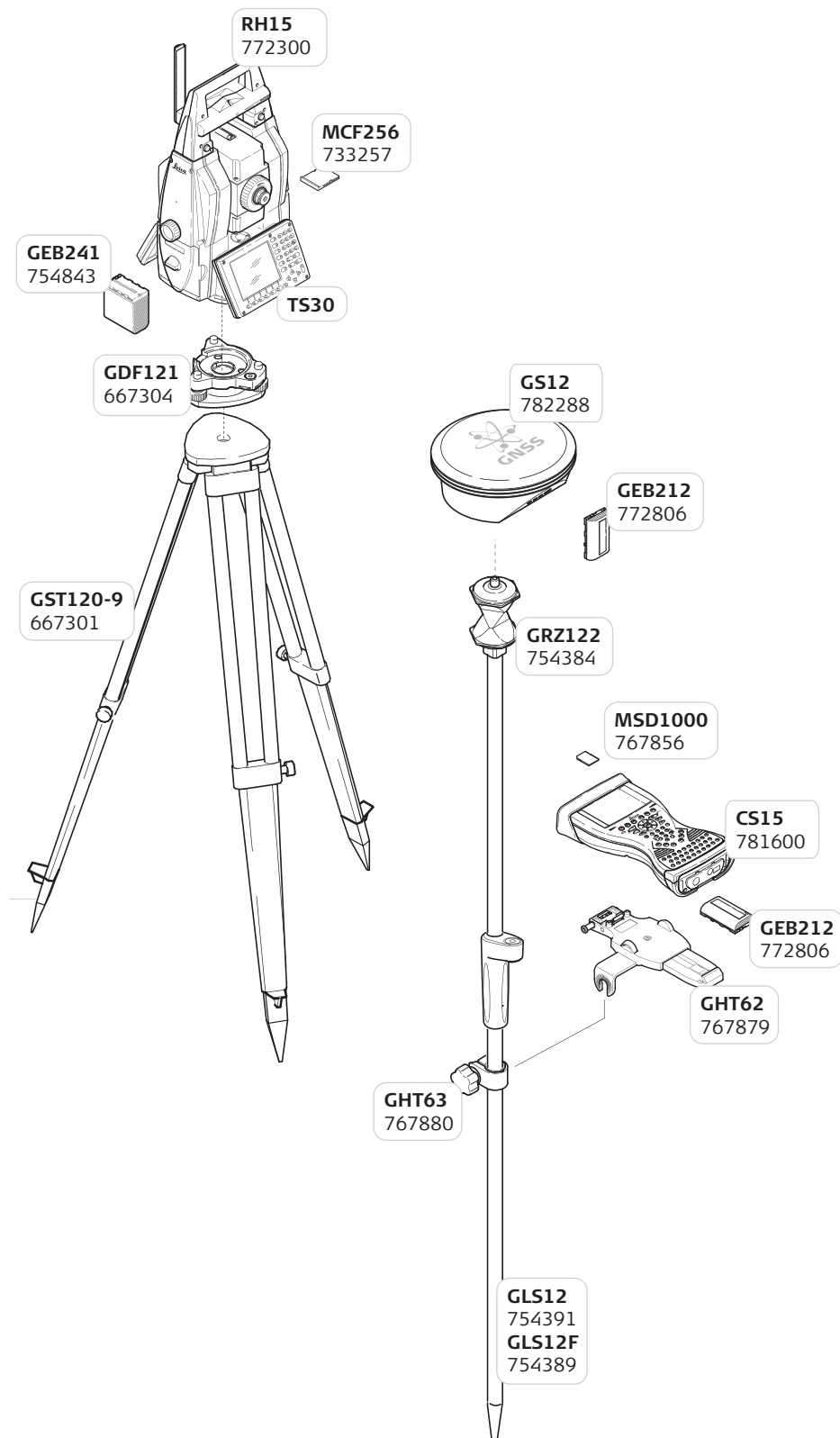
👉 SmartPole setup with GS12 GNSS receiver requires a Bluetooth mobile phone or CS15 UMTS field controller in order to receive RTK correction data.

👉 GFU RTK devices cannot be used for this SmartPole setup.

26.2 SmartPole using the GS15 GNSS Receiver

RH15
772300

GEB241
754843

TS30

GDF121
667304

GST120-9
667301

GS15 Professional
771504

RTK Antennas

GAT1 / GAT2
639964, 667243
GAT18
782500

GAD108
767790

GEB212
772806

GRZ122
754384

RTK Modems

SLR1 / SLR2 / SLR5
767819, 767820, 781646
SLR3-1 / SLR3-2
767821, 767822
SLG1 / SLG2
767823, 774689
SLC1 / SLC2
767824, 767825

MCF256
733257

CS15
781600

GEB212
772806

GHT62
767879

GHT63
767880

GLS30
752292

27 SmartStation

27.1 Using the GS09 Antenna
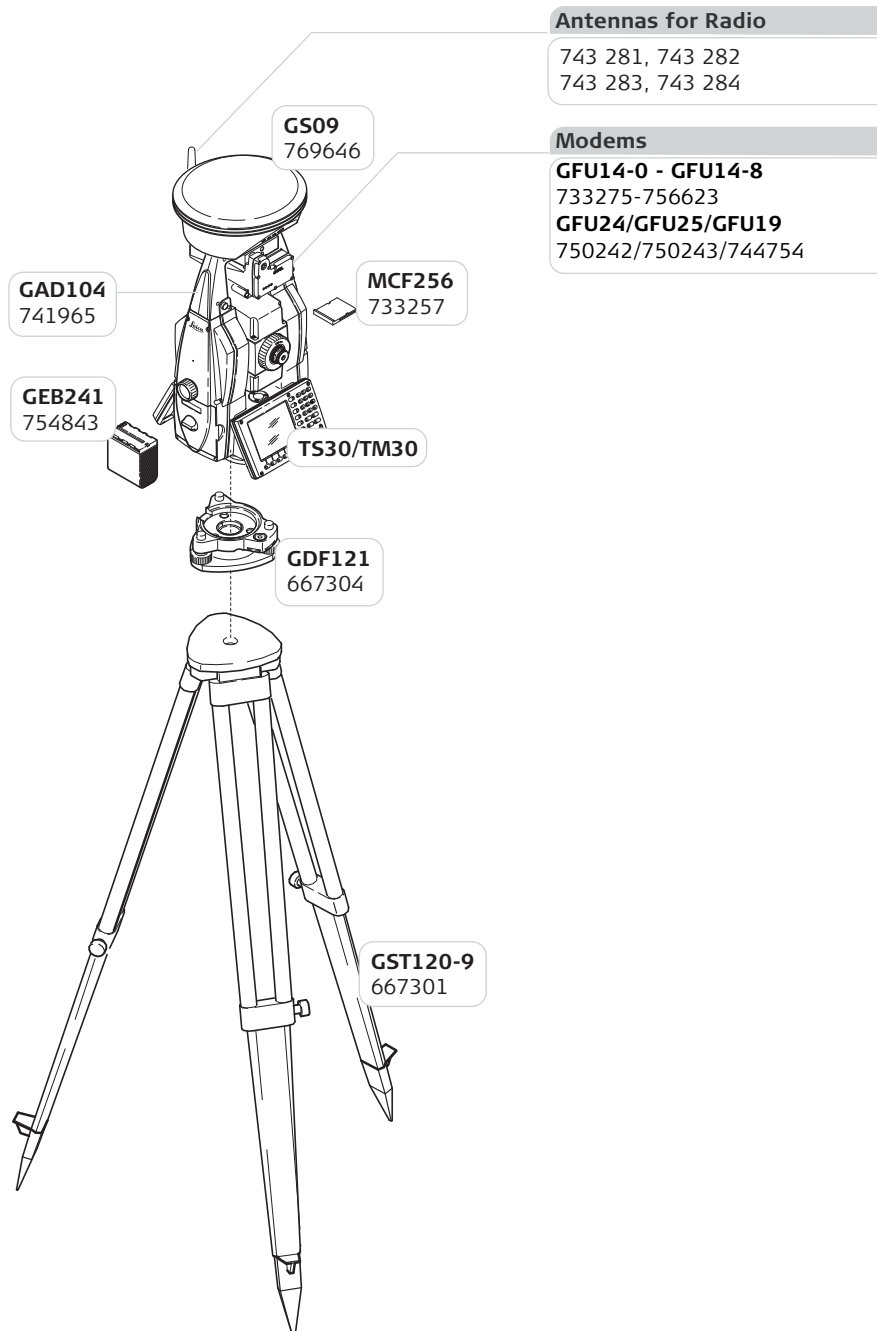
Antennas for Radio
743 281, 743 282
743 283, 743 284

Modems
GFU14-0 - GFU14-8
733275-756623
GFU24/GFU25/GFU19
750242/750243/744754

GS09
769646

GAD104
741965

MCF256
733257

GEB241
754843

TS30/TM30

GDF121
667304

GST120-9
667301

☞ GFU RTK deviced can be used for this SmartStation Setup.

☞ Additional TPS licences for GS09 SmartStation setups can be found in the chapter 19.2.

27.2 Using the GS12 Antenna

Antennas for Radio

743 281, 743 282
743 283, 743 284

Modems

GFU14-0 - GFU14-8
733275-756623
GFU24/GFU25/GFU19
750242/750243/744754

GS12
782288

MCF256
733257

GAD104
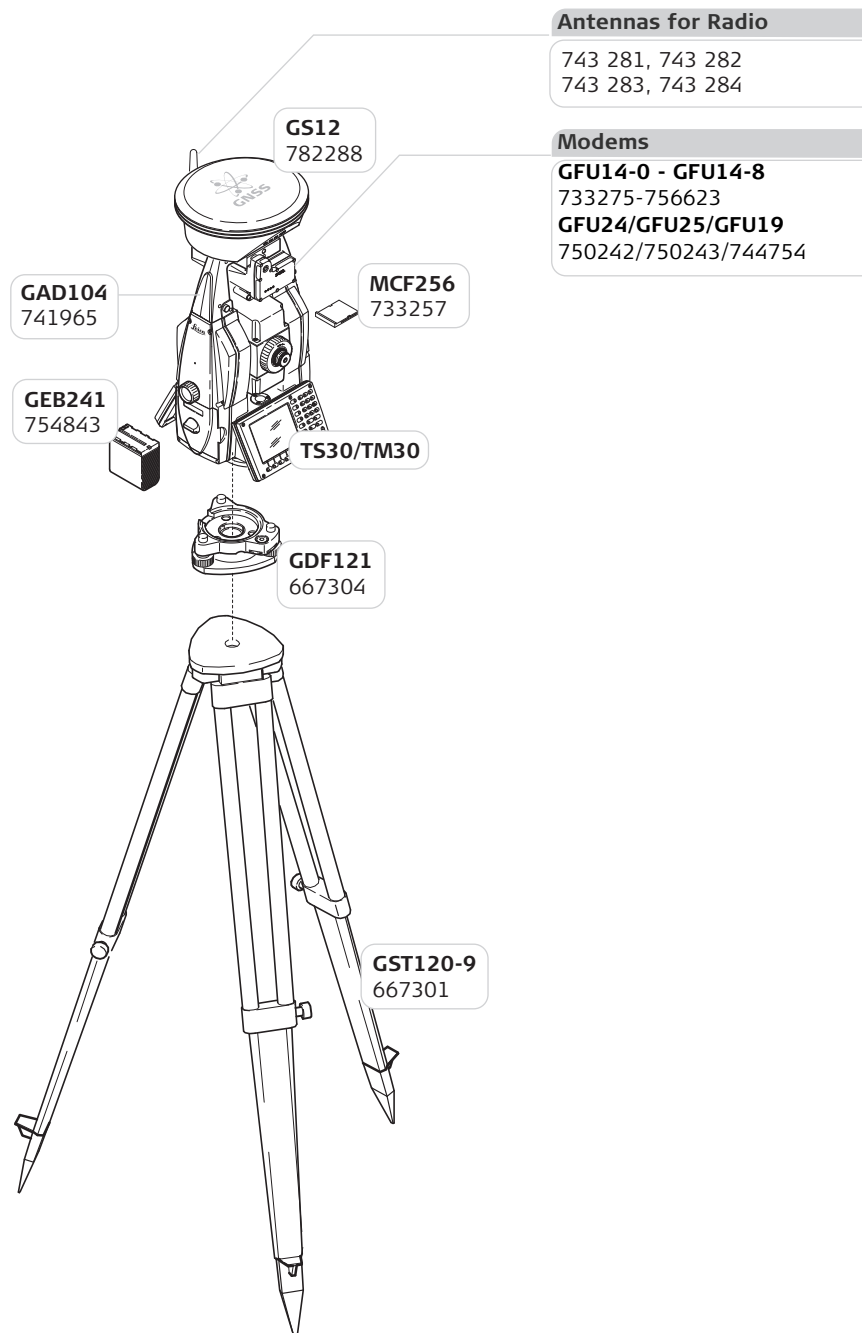741965

GEB241
754843

TS30/TM30

GDF121
667304

GST120-9
667301

☞ GFU RTK deviced can be used for this SmartStation Setup.

☞ Additional TPS licences for GS12 SmartStation setups can be found in the chapter 20.4.

27.3 Using the GS15 Antenna

RTK Antennas
GAT1 / GAT2
639964, 667243
GAT3 / GAT5
667237, 734756

MSD1000
767856

GS15
771504

GAD108
767790

RTK Modems
SLR1 / SLR2 / SLR5
767819, 767820, 781646
SLR3-1 / SLR3-2
767821, 767822
SLG1 / SLG2
767823, 774689
SLC1 / SLC2
767824, 767825

GEB212
772806 (2x)

GAD110
767802

MCF256
733257

GEB241
754843

TS30

GDF121
667304

MSD1000
767856

CS15
781600

GEB212
772806

GST120-9
667301

Whether you want to survey a skyscraper or a tunnel, monitor the movements of a volcano or objects on a construction site - you need reliable data. Leica Geosystems offers a complete portfolio of innovative solutions for precise surveying that deliver unprecedented accuracy, quality and performance. With Leica Geosystems no task is too challenging, leverage your professional imagination to success.

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Distance meter (Prism), ATR and PowerSearch:
Laser class 1 in accordance with IEC 60825-1 resp. EN 60825-1

Laser plummet:
Laser class 2 in accordance with IEC 60825-1 resp. EN 60825-1

Distance meter (Non-Prism):
Laser class 3R in accordance with IEC 60825-1 resp. EN 60825-1

3R

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