Leica iCON robot
Equipment List

- when it has to be **right**

Leica Geosystems

Table of Contents

iCON robot Packages 5

1 iCON robot 50 5
- 1.1 Models 5
- 1.2 iCR50 Packages with iCON build 5
- 1.3 iCR50 Packages with iCON site 6
- 1.4 iCR50 Kits for Machine Control 7

Additional Total Station Options 8

2 iCON robot 50 Options 8

Accessories for Total Station 9

3 Communication Handles 9

4 Power Supply 9
- 4.1 Internal Batteries 9
- 4.2 External Batteries 9
- 4.3 Battery Cables 9
- 4.4 Battery Chargers 9

5 Data Storage and Data Transfer 9
- 5.1 Memory Devices 9
- 5.2 Card Reader 9
- 5.3 Data Transfer Cables 10

6 Optical Accessories 10
- 6.1 Eyepiece 10
- 6.2 Autocollimation Set 10
- 6.3 Objective 10

7 Instrument Height Meter 10

8 Tribrachs 10

9 Tripods 11

10 Reflector Poles 11
- 10.1 Standard Poles 11
- 10.2 Hidden Point Pole 11
- 10.3 Mini Pole 11
- 10.4 Bi-pods 11

11 Reflectors 12
- 11.1 Circular Reflectors 12
- 11.2 360° Reflectors 12
- 11.3 Precision Reflectors 12
- 11.4 Mini Reflectors 12
- 11.5 Reflector Tapes 12

12 Additional Containers 12

Remote Control 13

13 Remote Control 13
- 13.1 CC50 & CC60/61 Field Controller 13
- 13.2 CC50 Communication Cap 13
- 13.3 Remote Control Packages with iCON Software 13

14 iCONstruct Field Software and Applications 14
- 14.1 iCON build 14
- 14.2 iCON site 14
- 14.3 Applications included in iCONstruct Field Software 15
- 14.4 Applications and Functions included in iCON build plus / iCON site plus 16

Accessories for Remote Control 17

15 Accessories for CC50 iCON Controller 17
15.1 HW Options for CC50 iCON Controller 17
15.2 Accessories for CC50 iCON Controller 17
15.3 Pole Mounts for CC50 iCON Controller 17

16 CC60/61 iCON Controller and Accessories 17
16.1 CC60/61 iCON Controller 17
16.2 HW Options for CC60 iCON Controller 17
16.3 Accessories for CC60/CC61 iCON Controller 17
16.4 Pole Mounts for CC60/CC61 iCON Controller 17
16.5 TCPS28/TCPS29 Modems 18
16.6 TCPS Accessories 18

Care Packages 19

17 Customer Care Packages 19

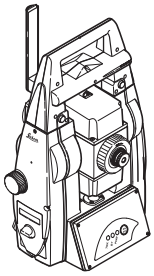
Suggested Equipment Setups 20

18 One-person robotic application 20
19 Machine control application 21

iCON robot Packages

1 iCON robot 50

1.1 Models



	iCR52 / iCR55
Angle measurement	●
Distance measurement to prism	●
Distance measurement to any surface (reflectorless)	●
Motorised	●
Automatic Target Aiming	●
PowerSearch (PS)	●
RS232 and CF card interface	●
Bluetooth	●
Hotshoe interface for CommunicationHandle	●
Guide Light (EGL)	●
3D Machine Control ready	●

● Standard

☞ iCR50 instruments can only be ordered as part of a predefined default package. Please refer to the chapters 1.2 and 1.3 for further details.

1.2 iCR50 Packages with iCON build

	iCON robot 50 & iCON build							
	5" CC50 WLAN	**2" CC50 WLAN**	**5" CC50 LRBT**	**2" CC50 LRBT**	**5" CC60 WLAN**	**2" CC60 WLAN**	**5" CC61 LRBT**	**2" CC61 LRBT**
	6006677	6006678	6006679	6006680	6006681	6006682	6006683	6006684
Sensors								
iCR52, iCON robot 52 Total Station 2"		●		●		●		●
iCR55, iCON robot 55 Total Station 5"	●		●		●		●	
CC50, Rugged 3.5" Controller, WM6.1	●	●	●	●				
CCD3, long-range BT Cap for CC50			●	●				
CC60, Rugged 7" Tablet PC, Win7					●	●		
CC61, Rugged 7" Tablet PC, Win7 w/ LR BT							●	●
Software								
CSW101, iCON build	●	●	●	●				
CSW201, iCON build					●	●	●	●
CSW600, PowerSearch for iCR50	●	●	●	●	●	●	●	●
CSW601, Reflectorless for iCR50	●	●	●	●	●	●	●	●
Accessories								
CCD1, WLAN CommunicationHandle, black	●	●			●	●		
CCD2, LR-BT CommunicationHandle, black			●	●			●	●
GDF221 Professional Tribrach w/o plummet	●	●	●	●	●	●	●	●

	iCON robot 50 & iCON build							
	5" CC50 WLAN	2" CC50 WLAN	5" CC50 LRBT	2" CC50 LRBT	5" CC60 WLAN	2" CC60 WLAN	5" CC61 LRBT	2" CC61 LRBT
GST120-9, Wooden tripod, telescopic	●	●	●	●	●	●	●	●
CRP1, Construction Pole, telescopic	●	●	●	●	●	●	●	●
GSR115, Bi-Pod, for all GLS	●	●	●	●	●	●	●	●
2x GEB221, Battery, Internal, 4Ah, Li-Ion	●	●	●	●	●	●	●	●
GKL211, Charger Li-Ion+User Manual	●	●	●	●	●	●	●	●
MCF256, Compact-Flash card 256MB	●	●	●	●	●	●	●	●
GVP658, Carry Case for iCON Robot	●	●	●	●	●	●	●	●
GVP657, Carry Case for iCON Accessories	●	●	●	●	●	●	●	●
LABEL "INSTR. LEVELING TIP"	●	●	●	●	●	●	●	●
CMB1, Pole Clamp for CC50	●	●	●	●				
CMB2, Pole/Vehicle Mount for CC60/61					●	●	●	●
CMB5, Pole Clamp for CMB2					●	●	●	●
Documentation								
User Manual iCON build	●	●	●	●	●	●	●	●
Quick Guide iCON robot 50	●	●	●	●	●	●	●	●
Quick Guide iCON CC60/61					●	●	●	●
Leica iCONstruct Portfolio DVD	●	●	●	●				
Leica iCONstruct Portfolio DVD/USB Stick Kit					●	●	●	●

1.3 iCR50 Packages with iCON site

	iCON robot 50 & iCON site			
	5" CC50 LRBT	2" CC50 LRBT	5" CC61 LRBT	2" CC61 LRBT
	6006685	6006686	6006687	6006688
Sensors				
iCR52, iCON robot 52 Total Station 2"		●		●
iCR55, iCON robot 55 Total Station 5"	●		●	
CC50, Rugged 3.5" Controller, WM6.1	●	●		
CCD3, long-range BT Cap for CC50	●	●		
CC61, Rugged 7" Tablet PC, Win7 w/ LR BT			●	●
Software				
CSW102, iCON site	●	●		
CSW202, iCON site			●	●
CSW600, PowerSearch for iCR50	●	●	●	●
CSW601, Reflectorless for iCR50	●	●	●	●
CSW604, MC license for iCR50	●	●	●	●
Accessories				
CCD2, LR-BT CommunicationHandle, black	●	●	●	●
GDF221 Professional Tribrach w/o plummet	●	●	●	●
GST120-9, Wooden tripod, telescopic	●	●	●	●

	iCON robot 50 & iCON site			
	5" CC50 LRBT	2" CC50 LRBT	5" CC61 LRBT	2" CC61 LRBT
CRP1, Construction Pole, telescopic	●	●	●	●
GSR115, Bi-Pod, for all GLS	●	●	●	●
2x GEB221, Battery, Internal, 4Ah, Li-Ion	●	●	●	●
GKL211, Charger Li-Ion+User Manual	●	●	●	●
MCF256, CompactFlash card 256MB	●	●	●	●
GVP658, Carry Case for iCON Robot	●	●	●	●
GVP657, Carry Case for iCON Accessories	●	●	●	●
LABEL "INSTR. LEVELING TIP"	●	●	●	●
CMB1, Pole Clamp for CC50	●	●		
CMB2, Pole/Vehicle Mount for CC60/61			●	●
CMB5, Pole Clamp for CMB2			●	●
Documentation				
User Manual iCON site	●	●	●	●
Quick Guide iCON robot 50	●	●	●	●
Quick Guide iCON CC60/61			●	●
Leica iCONstruct Portfolio DVD	●	●		
Leica iCONstruct Portfolio DVD/USB Stick Kit			●	●

1.4 iCR50 Kits for Machine Control

	Machine Control Kits	
	5"	2"
	6006690	6006689
Sensors		
iCR52, iCON robot 52 Total Station 2"		●
iCR55, iCON robot 55 Total Station 5"	●	
Software		
CSW600, PowerSearch for iCR50 *1	●	●
CSW604, MC license for iCR50	●	●
Accessories		
GDF221 Professional Tribrach w/o plummet	●	●
2x GEB221, Battery, Internal, 4Ah, Li-Ion	●	●
GKL211, Charger Li-Ion+User Manual	●	●
MCF256, CompactFlash card 256MB	●	●
GVP658, Carry Case for iCON Robot	●	●
LABEL "INSTR. LEVELING TIP"	●	●
Documentation		
Quick Guide iCON robot 50	●	●
Leica iCONstruct Portfolio DVD	●	●

*1 PowerSearch is only active when coupled with Leica 3D Machine Control

These are recommended default configurations.

iCON robot 50 & iCONstruct Field Software CCPs have to ordered as part of the packages.

For more accessories and options, please refer to chapter 2 and "Accessories for Total Station".

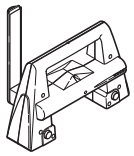
Additional Total Station Options

2 iCON robot 50 Options

792 696	**CSW600**	PowerSearch option for iCR50
792 697	**CSW601**	Reflectorless option for iCR50
792 704	**CSW604**	MC license for iCR50

Accessories for Total Station

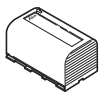
3 Communication Handles



790 050	**CCD1**	WLAN Communication Handle, black.
790 051	**CCD2**	Long-range Bluetooth Communication Handle, black.

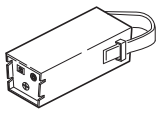
4 Power Supply

4.1 Internal Batteries



733 270	**GEB221**	Lithium-Ion battery, 7.4V/4.4Ah, rechargeable. To be used with iCR50.
793 973	**GEB222**	Lithium-Ion battery, 7.4V/6.0Ah, rechargeable. To be used with iCG60 receiver.

4.2 External Batteries

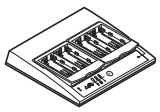


727 367	**GEB171**	External universal battery, NiMH, 12V/9Ah, rechargeable.
749 279	**GEV208**	External power supply unit. To connect iCR50 instructments to mains power (220V to 12V). ☞ Requires a GEV52 or GEV187 cable.

4.3 Battery Cables

439 038	**GEV71**	Car battery cable 4m, to connect 12V car battery.
409 678	**GEV52**	Cable, connects iCR50 to external battery.
734 697	**GEV186**	Y-cable, connects iCR50 to TCPS28 and external battery.
734 698	**GEV187**	Y-cable, connects iCR50 to PC (9-pin RS232 serial) and external battery, 2m.
707 525	**GK1**	Lemo Canon converter 30°, for PC (Lemo to RS232) to be used with GEV186 cable.

4.4 Battery Chargers



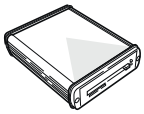
733 271	**GKL221**	Charger, to be used with up to two charging adapters GDI221 or GDI222, charger cable and net adapter included.
733 323	**GDI221**	Adapter for GKL221 for charging 2 Li-Ion batteries GEB241, GEB221, GEB211 or GEB212.
734 389	**GDC221**	Car adapter for the GKL221 charger. Allows the use 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.
734 752	**GKL211**	Charger, for Li-Ion batteries GEB221, GEB211 and GEB212, car adapter cable and net adapter included.

5 Data Storage and Data Transfer

5.1 Memory Devices

733 257	**MCF256**	CompactFlash card 256MB.
745 995	**MCF1000**	CompactFlash card 1GB.

5.2 Card Reader



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

5.3 Data Transfer Cables

563 625	**GEV102**	Data transfer cable, connects iCR50 to PC (9-pin RS232 serial), 2m.
734 697	**GEV186**	Y-cable, connects iCR50 to TCPS28 and external battery.
734 698	**GEV187**	Y-cable, connects iCR50 to PC (9-pin RS232 serial) and external battery, 2m.
734 700	**GEV189**	Data transfer cable, Lemo to USB connector (incl. USB electronics), 2.0m. Connects iCR50 to PC for data transfer. PC driver and user manual included on CD.
707 525	**GK1**	Lemo Canon converter 30°, for PC (Lemo to RS232) to be used with GEV186 cable.

6 Optical Accessories

6.1 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.

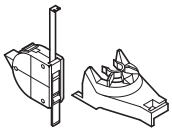
6.2 Autocollimation Set

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.

6.3 Objective

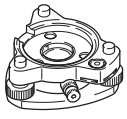
743 504	**GVO13**	Objective solar filter for TPS instruments.

7 Instrument Height Meter



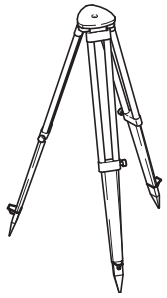
667 718	**GHM007**	Instrument height meter.
722 045	**GHT196**	Distance holder for height meter.

8 Tribrachs



762 323	**GDF221**	Professional Tribrach w/o plummet.
783 100	**GUS85**	Tribrach shiftable, black.

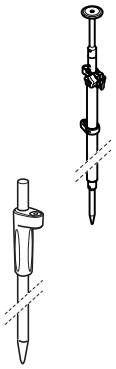
9 Tripods



296 632	**GST20**	Tripod, telescopic, with accessories (plumb bob, carrying strap and side clamp screws), with pouch.
394 752	**GST20-9**	Tripod, telescopic, with accessories.
667 301	**GST120-9**	Tripod, telescopic, selfclosing, with accessories.
332 200	**GST4**	Tripod-star, for setting up tripods on hard and slippery surfaces.

10 Reflector Poles

10.1 Standard Poles

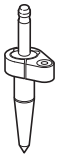


794 336	**CRP1**	Construction Pole, telescopic, cm-graduation, for MPR122 or GNSS antenna, upside-down use incl. plate. Carbon and aluminium, 2x 5/8" screws, 2x circular bubble, extendable.
795 054	**CRP2**	Construction Pole, telescopic, ft-graduation, for MPR122 or GNSS antenna, upside-down use incl. plate. Carbon and aluminium, 2x 5/8" screws, 2x circular bubble, extendable.
796 130	**CRP3**	Construction Pole, telescopic, ft-decimal graduation, for MPR122 or GNSS antenna, upside-down use incl. plate. Carbon and aluminium, 2x 5/8" screws, 2x circular bubble, extendable.
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.
667 309	**GLS111**	Reflector pole, with bull's-eye bubble, cm/ft graduation, extends to 2.60m, with red/white 0.20m graduations.

10.2 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.

10.3 Mini Pole



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

10.4 Bi-pods

774 612	**GSR115**	Bi-Pod, for all GLS.

11 Reflectors

11.1 Circular Reflectors

362 830	**GPR1**	Circular prism, in black housing.
641 618	**GPR111**	Circular prism, with holder and target plate.
753 492	**GPR113**	Circular prism, with red holder.
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.

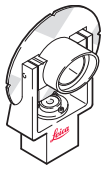
11.2 360° Reflectors

756 637	**MPR122**	360° Reflector PRO
667 217	**GAD31**	Screw to stub adapter.
644 327	**GRZ101**	360° mini prism with 1/4" thread fitting. Not supported by PowerSearch.
742 006	**GAD103**	Adapter for attaching GRZ101 to all poles with Leica Geosystems stub.
754 384	**GRZ122**	360° Reflector
639 985	**GRZ4**	360° Reflector

11.3 Precision Reflectors

555 631	**GPH1P**	Single-prism precision reflector.

11.4 Mini Reflectors

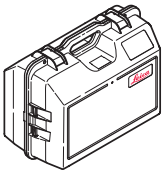


761 712	**CPR111**	BUILDER prism, true-zero offset, incl. Bubble.
641 662	**GMP101**	Mini prism, incl. bubble, target plate and spike, in bag, also suitable for GLS11/GLS12 and GRT144 (same height as GPH1, additive constant +17.5mm).
641 762	**GMP104**	Mini prism, with L-bar, for fixed installations.
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.

11.5 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.

12 Additional Containers



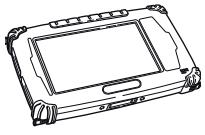
790 125	**GVP658**	Carry Case for iCON Robot.
790 052	**GVP657**	Carry Case for iCON Accessories.

Remote Control

13 Remote Control

13.1 CC50 & CC60/61 Field Controller

790 046	**CC50 Field Controller**	Ruggedized Windows Mobile 6.1 controller with 3.5" touch screen, 256MB NAND Flash Memory, 128MB RAM, 8GB extended storage, internal WLAN module, Bluetooth, numeric keypad, 2x stylus, long-range Bluetooth ready, Altimeter, e-compass, SiRF Star III GPS, AC/DC adaptor, 5.6Ah Battery, USB cable, protection film, hand strap and 3MP Camera.



790 048	**CC60 Tablet PC**	Ruggedized Win7 (Ultimate Edition) Tablet Computer with 7" touch-widescreen, 64 GB SSD hard drive, 2 GB SDRAM, WLAN 802.11 b/g/n, Bluetooth v2.0, Stylus, Integrated Mediatek GPS, 2x Batteries (each 2.6Ah), AC/DC adaptor and 2MP camera with flash.
790048	**CC61 Tablet PC**	Ruggedized Win7 (Ultimate Edition) Tablet Computer with 7" touch-widescreen, 64 GB SSD hard drive, 2 GB SDRAM, WLAN 802.11 b/g/n, integrated EDGE/HSPDA/GSM/UMTS/CDMA module, integrated long-range Bluetooth, Stylus, Integrated Mediatek GPS, 2x Batteries (each 5.2Ah), AC/DC adaptor and 2MP camera with flash.

13.2 CC50 Communication Cap

790 047	**CCD3**	Long-range Bluetooth Cap for CC50.

13.3 Remote Control Packages with iCON Software

	iCON build				iCON site	
	CC50 WLAN	**CC50 LRBT**	**CC60 WLAN**	**CC61 LRBT**	**CC50 LRBT**	**CC61 LRBT**
	6006691	6006692	6006693	6006694	6006695	6006696
Sensors						
CC50, Rugged 3.5" Controller, WM6.1	●	●			●	
CCD3, long-range BT Cap for CC50		●			●	
CC60, Rugged 7" Tablet PC, Win7			●			
CC61, Rugged 7" Tablet PC, Win7 w/ LR BT				●		●
Software						
CSW101, iCON build	●	●				
CSW201, iCON build			●	●		
CSW102, iCON site					●	
CSW202, iCON site						●
Documentation						
User Manual iCON build	●	●	●	●		
User Manual iCON site					●	●
Quick Guide iCON CC60/61			●	●		●
Leica iCONstruct Portfolio DVD	●	●			●	
Leica iCONstruct Portfolio DVD/USB Stick Kit			●	●		●

iCONstruct Field Software CCPs have to be ordered as part of the packages

14 iCONstruct Field Software and Applications

14.1 iCON build

For CC50 iCON Controller		
793 112	**CSW101**	iCON build
Applications for iCON build on CC50 iCON Controller		
793 115	**CSW104**	iCON app "Volumes"
793 118	**CSW107**	iCON app "Points & Lines"
793 122	**CSW109**	iCON app "Cut & Fill"
793 132	**CSW116**	Extension iCON build plus
For CC60/CC61 iCON Controller		
793 853	**CSW201**	iCON build
Applications for iCON build on CC60/CC61 iCON Controller		
793 855	**CSW204**	iCON app "Volumes"
793 850	**CSW207**	iCON app "Points & Lines"
793 849	**CSW209**	iCON app "Cut & Fill"
793 841	**CSW216**	Extension iCON build plus

14.2 iCON site

For CC50 iCON Controller		
793 113	**CSW102**	iCON site
Applications for iCON site on CC50 iCON Controller		
793 114	**CSW103**	iCON app "Sketch"
793 116	**CSW105**	iCON app "Control Line"
793 120	**CSW108**	iCON app "Lines"
793 131	**CSW115**	Extension iCON site plus
For CC60/CC61 iCON Controller		
793 852	**CSW202**	iCON site
Applications for iCON site on CC60/CC61 iCON Controller		
793 857	**CSW203**	iCON app "Sketch"
793 859	**CSW205**	iCON app "Control Line"
793 851	**CSW208**	iCON app "Lines"
793 842	**CSW215**	Extension iCON site plus

14.3 Applications included in iCONstruct Field Software

	iCON build	iCON site
General:		
• Graphical selection of point from map	●	●
• Graphical navigation to point	●	●
• StatusBar+ with shortcuts	●	●
• MaxMap with button transparency	●	●
• Map OPS with intelligent map controls	●	●
• IntuiNav with traffic light quality checks	●	●
Sketching includes:		
• Point Pilot quick point creation	●	-
• Close figure	●	-
• Radius Point & long/short radius	●	-
• Point Projection	●	-
• Point & Line calculations	●	●
• Arc calculations	●	●
• Offset calculations	●	●
• Point Computation (intersections, ...)	●	●
• Patterns	●	-
• Trace	●	-
As-Built / Measure includes:		
• Data Collection	●	●
• Coding	●	●
• Auto points logging	●	●
• Target Shift calculations	●	●
• Auto line drawing	●	●
• Auto arc creation	●	●
Layout Points includes:		
• Graphical layout guidance	●	-
• In-map line/offset data	●	-
• Two tape layout	●	-
• Layout based on reference line	●	-
• Guiding telescope line	●	-
Layout Lines includes:		
• Start/end line flag	●	-
• Flip line	●	-
• Parallels & perpendiculars	●	-
• Create lines with 2 points	●	-
• Create arc (3 points or 2 points + radius)	●	-
• Line/arc offsets	●	-
• Graphical infinite line support	●	-
Stakeout includes:		
• Graphical navigation to point	-	●
• Create & edit points	-	●
• Create polylines & arcs	-	●
• 3D offset	-	●
• Define chainage	-	●
• Create points & lines with bearing and distance	-	●
• Devide lines	-	●
Cut & Fill includes:		
• Define vertical offset	-	●
• Colour indication of Cut vs. Fill, same as Machine Control	-	●
• Graphical coloured visualisation of cut/fill areas	-	●
• Several terrain models usable in parallel	-	●
• Select reference line as visual guidance	-	●
Volumes includes:		
• Create surfaces in the field	-	●
• Edit surfaces in the field	-	●
• Stockpile calculation	-	●
• Various volume calculations (to point, to elevation, to 2nd surface)	-	●
• Apply compaction factor	-	●

	iCON build	iCON site
Setup inlcudes:		
• Control line setup	●	-
• Setup anywhere	●	●
• Setup over known point	●	●
• Set orientation	-	●
• Height Transfer	●	-
• Over height benchmark	●	●
• Get station coordinates from map, from GPS or enter manually	●	●
Coordinate system:		
• Small area, large area, 3D transformation	●	●
• All common projections	●	●
Others:		
• User Levels	-	●
• Multiview	-	●
• Auto bulls-eye view	●	-
• Custom measure bar	●	●
• Custom info panel	-	●
• Favourites	-	●
• Setup within applications	●	-
Data import: ASCII, DXF	●	●
Data export: Custom ASCII (e.g. CSV, TXT), DXF, GSI, GEO	●	●

● All options and functionality available

- Not available

14.4 Applications and Functions included in iCON build plus / iCON site plus

	iCON build plus	iCON site plus
Applications:		
• iCON app "Volumes"	●	-
• iCON app "Stakeout"	●	-
• iCON app "Cut&Fill"	●	-
• iCON app "Sketch"	-	●
• iCON app "Control Line"	-	●
• iCON app "Layout Lines"	-	●
Functionality:		
• Multiview	●	-
• Custom info panel	●	-
• HotSwap Button for MC	●	-
• Point Pilot	-	●
• Bay Windows	-	●
• Patterns	-	●
• Trace	-	●
• WLAN support	-	●
• Height Transfer	-	●

● All options and functionality available

- Not available

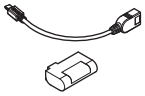
Accessories for Remote Control

15 Accessories for CC50 iCON Controller

15.1 HW Options for CC50 iCON Controller

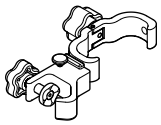
790 047	**CCD3**	Long-range Bluetooth Cap for CC50.

15.2 Accessories for CC50 iCON Controller



793 159	**CCD5**	USB Stick Adaptor for CC50.
796 682	**CCD10**	RS232 DB9 Adapter
793 160	**CBA1**	Battery for CC50.
793 161	**CBC1**	Charger for separate CC50 battery.
793 162	**CBC2**	Vehicle Charger for CC50.
793 163	**CA8**	LCD Protection UV Film for CC50.

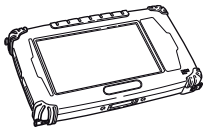
15.3 Pole Mounts for CC50 iCON Controller



793 164	**CMB1**	Pole Clamp for CC50.

16 CC60/61 iCON Controller and Accessories

16.1 CC60/61 iCON Controller



790 048	**CC60 Tablet PC**	Ruggedized Win7 (Ultimate Edition) Tablet Computer with 7" touch-widescreen, 64 GB SSD hard drive, 2 GB SDRAM, WLAN 802.11 b/g/n, Bluetooth v2.0, Stylus, Integrated Mediatek GPS, 2x Batteries (each 2.6Ah), AC/DC adaptor and 2MP camera with flash.
790 049	**CC61 Tablet PC**	Ruggedized Win7 (Ultimate Edition) Tablet Computer with 7" touch-widescreen, 64 GB SSD hard drive, 2 GB SDRAM, WLAN 802.11 b/g/n, integrated EDGE/ HSPDA/GSM/ UMTS/CDMA module, integrated long-range Bluetooth, Stylus, Integrated Mediatek GPS, 2x Batteries (each 5.2Ah), AC/DC adaptor and 2MP camera with flash.

16.2 HW Options for CC60 iCON Controller

793 158	**CCD4**	Long-range Bluetooth Upgrade Kit for CC60.

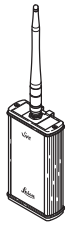
16.3 Accessories for CC60/CC61 iCON Controller

785 413	**ALG7-08B**	Lithium Polymer battery for tablet computer e.g. CC60/61, 5.2 Ah, chargeable.
785 414	**HH-12V**	DC-12V Car charger for tablet computer e.g. CC60/61. Can be used to power and charge the CC60/61 directly from a cigarette lighter.
785 415	**GDZ70**	Pen with screw-driver and string for CC60/61.
785 416	**ALG7-10A**	Charger for Li-Polymer batteries ALG7-08B, net adapter included.
785 417	**ALG7-13A**	AC/DC-adapter EU, AUS, US and UK, for power supply CC60/61 and charging the plugged-in batteries ALG7-08B.
785 418	**SPF07**	Anti-glare display foils for CC60/61.

16.4 Pole Mounts for CC60/CC61 iCON Controller

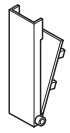
793 165	**CMB2**	C-shape Pole/Vehicle Mount for CC60/61 with ball double socket arm and ball mount.
795 492	**CMB5**	Pole Clamp for CMB2 bracket for CC60/61.
784 918	**GHT72**	Pole holder and arrangement for attaching tablet computer, incl. hook for tripod mounting.

16.5 TCPS28/TCPS29 Modems



TCPS28		
772 301	**TCPS28B**	Radio modem (base) with antenna, user manual. Used as radio modem for iCR50 instruments to communicate with 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).
TCPS29		
788 854	**TCPS29**	Bluetooth radio modem with antenna and user manual. Used as external radio modem for TS total stations or PC. (frequency range 2402 - 2480MHz).
793 111	**TCPS29-S**	Rugged long-range Bluetooth Module with Status LEDs, Cannon ITT connector and mounting bracket.

16.6 TCPS Accessories



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

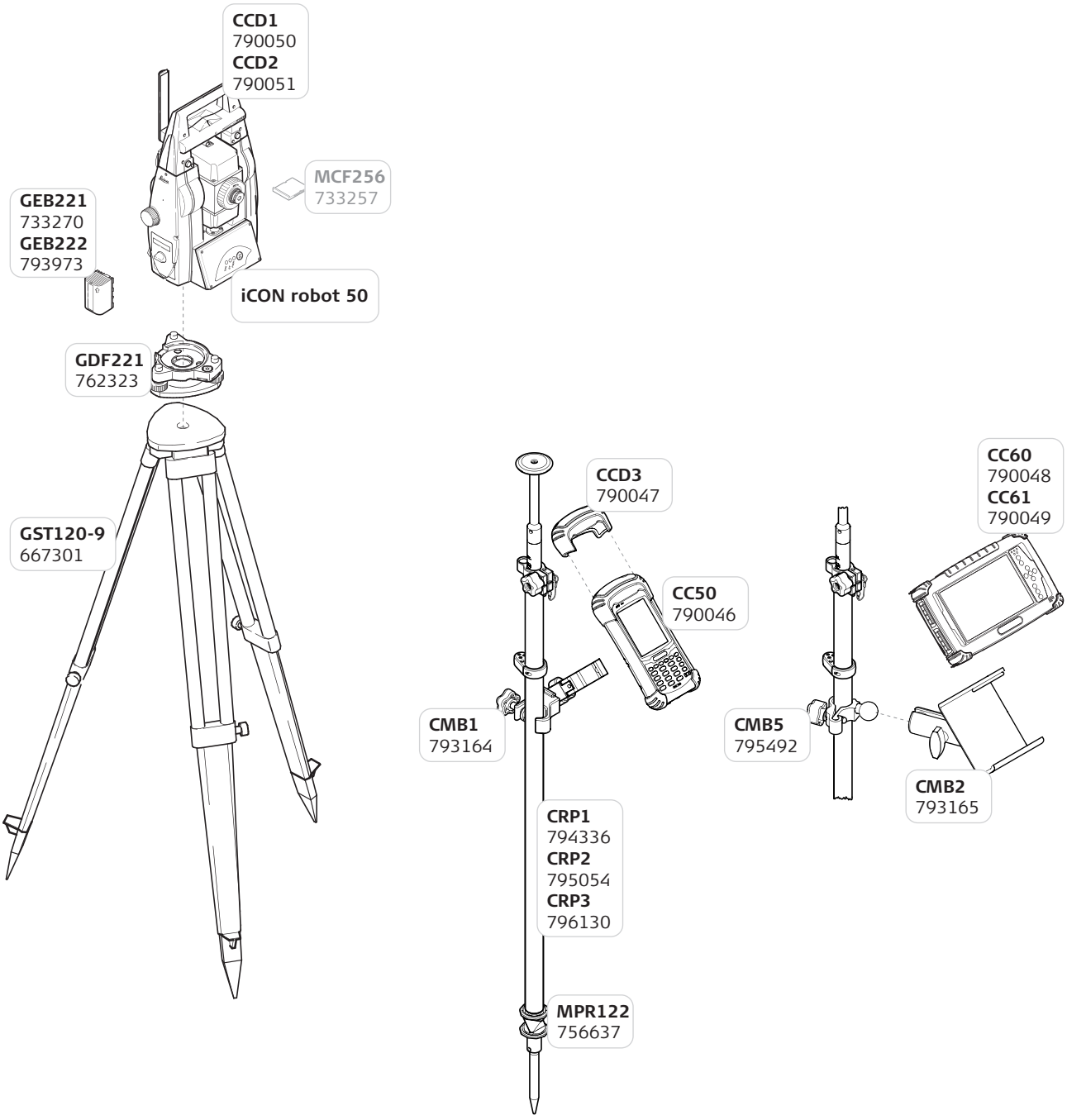
Care Packages

17 Customer Care Packages

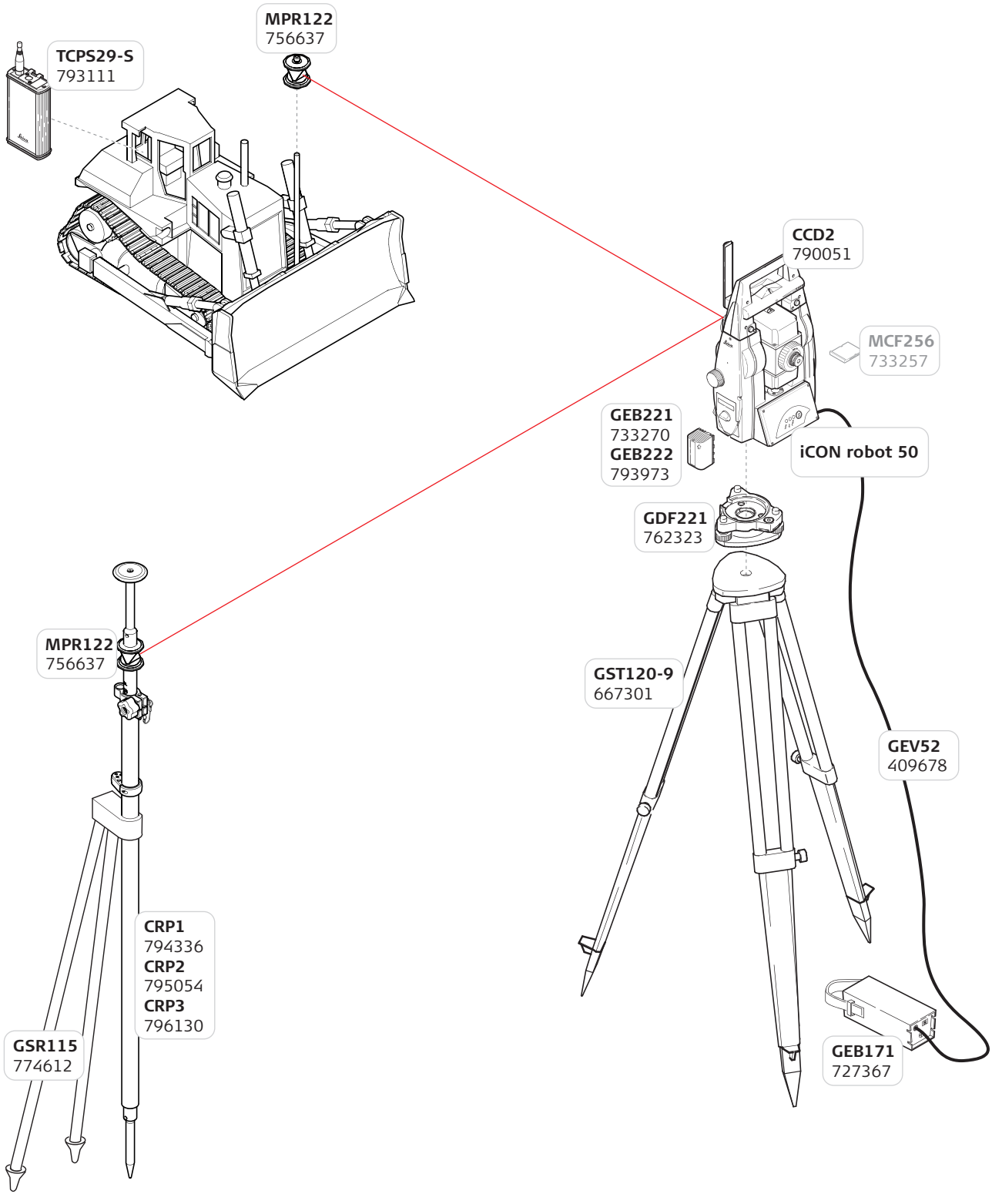
A wide selection of comprehensive Customer Care Packages (CCPs) is available bundling Hardware Maintenance, Software Maintenance, Customer Support and Extended Warranty.
For more information about the CCP offering in your country please contact your local Leica Geosystems organization or distribution partner.

Suggested Equipment Setups

18 One-person robotic application



19 Machine control application



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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

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Leica Geosystems AG
Heinrich-Wild-Strasse
CH-9435 Heerbrugg
Switzerland
Phone +41 71 727 31 31
www.leica-geosystems.com

- when it has to be **right**

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