Leica Captivate Controller
Equipment List



- when it has to be **right**

Leica Geosystems

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Field Controller

1 CS20 Field Controller

1.1 CS20 Field Controller



876 476	**CS20**	**CS20 Basic Field Controller** Ruggedized field controller with 5" WVGA touch display, 4GB eMMC Flash Memory, 2GB SDRAM, SD card slot, 5MP rear camera and LED flash. Includes internal Bluetooth/WLAN module, QWERTY keypad, stylus.
876 477	**CS20 LTE**	**CS20 LTE Field Controller** Ruggedized field controller with 5" WVGA touch display, 4GB eMMC Flash Memory, 2GB SDRAM, SD card slot, 5MP rear camera and LED flash. Includes internal Bluetooth/WLAN module, 4G GSM/UMTS/LTE module, internal TS communication module, QWERTY keypad, stylus.



876 479	**CS20 LTE (US/CA)**	**CS20 LTE Field Controller (US, CA)** Ruggedized field controller with 5" WVGA touch display, 4GB eMMC Flash Memory, 2GB SDRAM, SD card slot, 5MP rear camera and LED flash. Includes internal Bluetooth/WLAN module, 4G GSM/UMTS/LTE module, internal TS communication module, QWERTY keypad, stylus.
876 478	**CS20 LTE Disto**	**CS20 LTE Disto Field Controller** Ruggedized field controller with 5" WVGA touch display, 4GB eMMC Flash Memory, 2GB SDRAM, SD card slot, 5MP rear camera and LED flash. Includes internal Bluetooth/WLAN module, 4G GSM/UMTS/LTE module, internal TS communication module, integrated Disto-Lasermeter QWERTY keypad, stylus.
876 480	**CS20 LTE Disto (US/CA)**	**CS20 LTE Disto Field Controller (US, CA)** Ruggedized field controller with 5" WVGA touch display, 4GB eMMC Flash Memory, 2GB SDRAM, SD card slot, 5MP rear camera and LED flash. Includes internal Bluetooth/WLAN module, 4G GSM/UMTS/LTE module, internal TS communication module, integrated Disto-Lasermeter QWERTY keypad, stylus.

1.2 CGR UHF RTK Expansion Pack



798 497	**CGR4**	UHF RTK radio expansion pack for receiving GNSS RTK corrections, 403-470 MHz. GAT26 RTK radio antenna not included.
817 014	**GAT26**	UHF radio antenna for CGR4 radio, 400-470MHz.

1.3 CTR20 TS Communication Expansion Pack



6010023		**CTR20 expansion pack set** TS communication expansion pack set including CTR20 module and GAT25 radio antenna.

☞ Not available in EU countries due to EN 300 328 V.1.8.1.

☞ Recommended only for robotic applications systematically exceeding ranges beyond 400 m.

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2 Leica Captivate Software and Apps - CS20 Field Controller

2.1 Leica Captivate Software for CS20 Field Controller

827 698	Leica Captivate - Measure and Stake for CS20.

2.2 Apps included in Leica Captivate for CS20 Field Controller

The following apps are included in Leica Captivate for CS20 (827 698).

Measure includes:
- Measure
- Code points
- Automatically measure points
- Remote Heights
- Target Offset calculations

Setup includes:
- Get station coordinates from GNSS, 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
- Orientate to object

Stake points includes:
- Navigate to point using various methods: from and behind instrument, point, base line, arrow, North
- Quality control - checking of coordinate differences before storing
- Automatically select next closest point
- Graphical selection of point from map
- Edit heights and offset heights of points
- Acoustic beep getting faster when getting closer to point

COGO includes:
- Inverse
- Traverse
- Intersections
- Angle calculations
- Line & arc calculations
- Bearing & distance calculations
- Shift, Rotate, Scale (manual & matching points)
- Triangle calculations

Determine coordinate system:
- 1 step, 2 step, 3D Transformation
- All common projections

Alignment Editor:
- Horizontal alignments
- Vertical alignments
- Cross sections
- Chainage equations

Control data:
Create points and lines

Data import:
ASCII, XML, DXF, DTM, alignments

Data export:
ASCII, Custom, DXF, XML, Style Sheets, FBK, RW5, RAW and local formats

3rd party total station control:
- Topcon total station control
- Nikon total station control
- SOKKIA total station control

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2.3 Optional Apps for Leica Captivate for CS20 Field Controller

The following apps require a valid license key.

827 701	Area Division
827 702	Stake DTM
827 699	Measure and Stake to Line
827 700	Measure to Plane / Grid
827 704	Check and Stake Road
827 705	Check and Stake Tunnel
827 706	Check and Stake Rail
827 711	Sets of Angles
827 703	Volume Calculation
827 708	Hidden Point
827 709	Traverse
827 712	QuickVolume
839 679	Inspect Surfaces
836 670	Tunnel Profile Generator
855 971	RINEX Export

2.4 Optional Licences for Leica Captivate for CS20 Field Controller

827 714	Active Assist

2.5 Local Applications and licenses for CS20 Field Controller

The following apps require a valid license key.

834 295	Captivate Offset+ CS20
834 299	Captivate Zenith Line CS20
834 303	Captivate Quick Setup CS20
834 305	Captivate Auto Setup CS20
836 670	Captivate Tunnel Profile Generator CS20
839 679	Captivate Inspect Surfaces CS20
846 827	Captivate TPS Survey Streaming CS20
848 372	Captivate Inspect Road
848 374	Captivate Inspect Tunnel
848 370	Captivate TPS Monitoring for CS20
850 623	Captivate ESRI Shapefile Exporter for CS20
865 658	Captivate Compaction Control CS20
867 334	Captivate Stakeout Auto Points CS20
869 756	Captivate Structural Steel CS20
848 368	Captivate Inventory (Mtl) CS20
944 939	Captivate Custom Field Data Export CS20
834 323	Captivate Piling for CS20

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3 CS30 Tablet



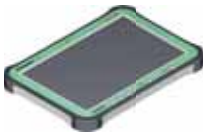
925 660	**CS30 LTE**	**CS30 LTE Tablet** Ruggedized Win10 LTSC 64-bit Tablet Computer including: 7" touch-widescreen, 64 GB eMMC hard drive, 4 GB RAM, WLAN 802.11 b/g/n/a/ac, 3G/4G Integrated Mobile Broadband module, Bluetooth v4.2, 8MP rear camera with flash, 1x GEV228 Power Supply unit, 1x GDZ80 Capacitive Stylus. Captivate pre-loaded.



926 415	**CS30 LTE LRBT**	**CS30 LTE LRBT** Ruggedized Win10 LTSC 64-bit Tablet Computer including: 7" touch-widescreen, 64 GB eMMC hard drive, 4 GB RAM, WLAN 802.11 b/g/n/a/ac, 3G/4G Integrated Mobile Broadband module, Bluetooth v4.2, 8MP Rear camera with flash, CTR30 Long-Range Bluetooth Module, 1x GEV228 Power Supply unit, 1x GDZ80 Capacitive Stylus.

4 CS35 Tablet

4.1 CS35 Tablet



875 363	**CS35-1**	**CS35-1 10" Tablet, EU, RU** Ruggedized Win10 64-bit Tablet Computer including: 10" touch-widescreen, 256 GB SSD hard drive, 8 GB SDRAM, WLAN 802.11 b/g/n/a/ac, 4G Integrated Mobile Broadband module, Bluetooth v4.1, Stylus, 1x Battery (4.1Ah), AC/DC adaptor and 8MP rear camera with flash.
875 364	**CS35-2**	**CS35-2 10" Tablet, US, CA** Ruggedized Win10 64-bit Tablet Computer including: 10" touch-widescreen, 256 GB SSD hard drive, 8 GB SDRAM, WLAN 802.11 b/g/n/a/ac, 4G Integrated Mobile Broadband module, Bluetooth v4.1, Stylus, 1x Battery (4.1Ah), AC/DC adaptor and 8MP rear camera with flash.
875 365	**CS35-3**	**CS35-3 Tablet, AUS NZ** Ruggedized Win10 64-bit Tablet Computer including: 10" touch-widescreen, 256 GB SSD hard drive, 8 GB SDRAM, WLAN 802.11 b/g/n/a/ac, 4G Integrated Mobile Broadband module, Bluetooth v4.1, Stylus, 1x Battery (4.1Ah), AC/DC adaptor and 8MP rear camera with flash.

All CS35 Tablets are delivered with stylus, tether, one GEB235 Lithium-Ion battery (11.1 V/4.1 Ah, rechargeable) and country specific AC/DC adaptor.

4.2 CTR35 Long-range Bluetooth Device



844 474	**CTR35**	Long-range Bluetooth device for CS35.

Recommended only for robotic applications requiring extended range.

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5 Leica Captivate Software and Apps

5.1 Leica Captivate Software for CS3x Tablet

827 719	Leica Captivate - Measure and Stake for CS3x.

5.2 Apps included in Leica Captivate for CS3x Tablet

The following apps are included in Leica Captivate for CS3x (827 719).

Measure includes:
- Measure
- Code points
- Automatically measure points
- Remote Heights
- Target Offset calculations

Setup includes:
- Get station coordinates from GNSS, 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
- Orientate to object

Stake points includes:
- Navigate to point using various methods: from and behind instrument, point, base line, arrow, North
- Quality control - checking of coordinate differences before storing
- Automatically select next closest point
- Graphical selection of point from map
- Edit heights and offset heights of points
- Acoustic beep getting faster when getting closer to point

COGO includes:
- Inverse
- Traverse
- Intersections
- Angle calculations
- Line & arc calculations
- Bearing & distance calculations
- Shift, Rotate, Scale (manual & matching points)
- Triangle calculations

Determine coordinate system:
- 1 step, 2 step, 3D Transformation
- All common projections

Alignment Editor:
- Horizontal alignments
- Vertical alignments
- Cross sections
- Chainage equations

Control data:
Create points and lines

Data import:
ASCII, XML, DXF, DTM, alignments

Data export:
ASCII, Custom, DXF, XML, Style Sheets, FBK, RW5, RAW and local formats

3rd party total station control:
- Topcon total station control
- Nikon total station control
- SOKKIA total station control

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5.3 Leica Captivate Software and Apps - CS3x Tablet

827 719	Leica Captivate Measure & Stakeout CS3x
827 720	Leica Captivate Measure Stake Line CS3x
827 721	Leica Captivate Measure Plane Grid CS3x
827 722	Leica Captivate Area Division CS3x
827 723	Leica Captivate DTM Stakeout CS3x
827 724	Leica Captivate Volume Calculation CS3x
827 725	Leica Captivate Road CS3x
827 726	Leica Captivate Tunnel CS3x
827 727	Leica Captivate Rail CS3x
827 728	Leica Captivate TS Hidden Point CS3x
827 729	Leica Captivate Traverse CS3x
827 730	Leica Captivate Sets of Angles CS3x
827 731	Leica Captivate QuickVolume CS3x
850 624	Leica Captivate ESRI Shapefile Exporter CS3x
889 053	Leica Captivate ADSK BIM360 Docs CS3x
889 056	Leica Captivate ADSK BIM360 1y Lic CS3x
903 363	Leica Captivate ConX 1y Lic CS3x
903 365	Leica Captivate ConX 2y Lic CS3x
903 366	Leica Captivate ConX 3y Lic CS3x
923 924	Leica Captivate Bricsys 24/7 1y CS3x
923 927	Leica Captivate Bricsys 24/7 2y CS3x
923 932	Leica Captivate Bricsys 24/7 3y CS3x

5.4 Local Applications and licenses - CS3x Tablet

834 682	Captivate Offset+ CS3x
834 686	Captivate Zenith Line CS3x
834 689	Captivate Quick Setup CS3x
834 691	Captivate Auto Setup CS3x
834 708	Captivate Piling for CS3x
836 671	Captivate Tunnel Profile Generator CS3x
839 681	Captivate Inspect Surfaces CS3x
846 828	Captivate TPS Survey Streaming for CS3x
848 369	Captivate Inventory (Mtl) for CS3x
848 371	Captivate TPS Monitoring for CS3x
848 373	Captivate Inspect Road CS3x
848 375	Captivate Inspect Tunnel CS3x
865 659	Captivate Compaction Control CS3x
867 336	Captivate Stakeout Auto Points CS3x
869 757	Captivate Structural Steel for CS3x
937 674	Captivate Inspect Layer for CS3x
944 940	Captivate Custom Field Data Export CS3x

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Accessories for Field Controller

6 Accessories for CS20 Field Controller

6.1 Internal Batteries



799 190	**GEB331**	Li-Ion battery, 11.1 V / 2.8 Ah, rechargeable, for CS20.

6.2 Battery Chargers



799 185	**GKL311**	Single-bay Charger Professional 3000. Charger for one Li-Ion battery (GEB211, GEB212, GEB221, GEB222, GEB241, GEB242 and GEB331), including AC/DC adaptor and cigarette lighter cable.
799 187	**GKL341**	Multi-bay Charger Professional 5000. Charges up to 4 batteries (GEB211, GEB212, GEB221, GEB222, GEB241, GEB242 and GEB331), including power cable.
734 389	**GDC221**	Car adapter for the GKL341 charger. Allows the use of the GKL341 with a cigarette lighter; 12V/24V DC/DC converter. Can also be used to power CS10/CS15 field controller directly from a cigarette lighter.

6.3 Memory Devices



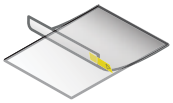
767 856	**MSD1000**	SD memory card 1 GB for total stations, GNSS receivers and field controllers, industrial grade.
789 139	**MSD08**	SD memory card 8 GB for total stations, GNSS receivers and field controllers, industrial grade.
765 199	**MS1**	USB memory stick, 1 GB, for total stations and field controllers, industrial grade.

6.4 Card Reader & Adapter



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

6.5 Pen and Screen Protections Foils



Pen		
813 914	**GDZ71**	Pen with tether clip interface for CS20 field controller and TS16/MS60/TS60 instruments.
813 582	**GHT76**	Tether to connect GDZ71 Pen to CS20 field controller.
Screen Protection Foil set		
813 781	**SPF05**	5" WVGA screen protection foils for CS20 field controller and TS16/MS60/TS60 instruments.

6.6 Additional Power Accessories



822 787	**GEV276**	Power supply unit for CS20, for indoor use only. Input 100-240 VAC to output 15.0 VDC, 40 W.

6.7 Pole Accessories



807 157	**GHT66**	Holder attaching a CS20 with a GHT63 clamp to a pole. GHT63 is not included.
767 880	**GHT63**	Clamp arrangement for attaching the GHT66 and GHT78 to all poles.

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6.8 Utility Hook and Hand Strap



Utility hook		
807 245	**GHT68**	Utility hook for CS20 field controller for attaching to belt or tripod.
845 832	**GHT70**	Clamp arrangement for attaching the GHT66 and GHT78 to all tripods.
Hand strap		
807 158	**GHT67**	Hand strap for CS20 field controller.

7 Accessories for CS30 Tablet

7.1 Internal Batteries



925 663	**GEB260**	Battery int Li-Ion 11.4V/3000mAh.

7.2 Battery Chargers



926 459	**GKL260**	Multi-Bay Charger for GEB260.

☞ Country specific AC power cable needs to be ordered with every GEV288 or GKL260.

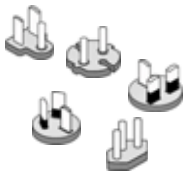
7.3 Power Supplies



925 661	**GEV288**	Power Supply unit for CS30 and CCS02.

☞ Country specific AC power cable needs to be ordered with every GEV288 or GKL260.

7.4 AC Power cables



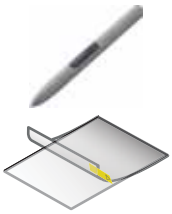
926 054	AC Power cable C5 / Type_B: US/CAN/JP.
926 055	AC Power cable C5 / Type_F: EU.
926 056	AC Power cable C5 / Type_G: UK/HK.
926 057	AC Power cable C5 / Type_I: AUS/NZ/CN.
926 058	AC Power cable C5 / Type_J: CH.

7.5 Memory Devices



765 199	**MS1**	USB memory stick, 1 GB, for total stations and field controllers, industrial grade.

7.6 Pen and Screen Protection Foils



Pen		
925 666	**GDZ80**	Stylus for CS30.
Screen Protection Foil set		
925 662	**SPF10**	Screen protection foil for CS30.

☞ All CS30 Tablets come with a GDZ80 Stylus and are fitted with a Screen Protection Foil from factory.

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7.7 Pole Accessories



925 664	**GHT81**	Tablet holder for attaching a CS30 Tablet with a GHT63 clamp to a pole. GHT63 is not included.
767 880	**GHT63**	Clamp arrangement for attaching the GHT66, GHT78, and GHT81 to all poles.

8 Accessories for CS35 Tablet

8.1 Internal Batteries



832 119	**GEB235**	Lithium-Ion battery, 11.1 V/4.1 Ah, rechargeable, for CS35 Tablet.
832 120	**GEB236**	Lithium-Ion battery, 10.8 V/8.7 Ah, rechargeable, for CS35 Tablet.

☞ All CS35 Tablets are delivered with one GEB235 Lithium-Ion battery.

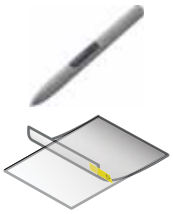
8.2 Battery Chargers



832 118	**GKL235**	Charger for CS35 batteries GEB235 and GEB236. Country specific AC/DC adaptor (GEV280-x) not included.
832 113	**GEV280-1**	AC/DC adaptor, EU. Power Supply for CS35 Tablet.
832 114	**GEV280-2**	AC/DC adaptor, UK. Power Supply for CS35 Tablet.
832 115	**GEV280-3**	AC/DC adaptor, US. Power Supply for CS35 Tablet.
832 116	**GEV280-4**	AC/DC adaptor, AUS. Power Supply for CS35 Tablet.
832 117	**GEV280-5**	AC/DC adaptor, CH. Power Supply for CS35 Tablet.
842 648	**GEV280-6**	AC/DC adaptor, JP, Power Supply for CS35 Tablet.

☞ Country specific AC/DC adaptor (GEV280-x) is delivered with CS35 Tablet.

8.3 Pen and Screen Protection Foils



Pen		
832 121	**GDZ75**	Digitiser Pen for CS35 Tablet.
851 539	**GDZ76**	Digitiser Pen for CS35 Tablet, MK4 models.
832 122	**GHT77**	Tether to tie GDZ75 Digitiser Pen to CS35 Tablet.
Screen Protection Foil set		
832 126	**SPF06**	Screen protection foils for CS35 Tablet.

☞ All CS35 Tablets are delivered with one GDZ75 Digitiser Pen and a GHT77 Tether.

8.4 Pole Accessories



832 127	**GHT78**	Tablet holder for attaching a CS35 Tablet with a GHT63 clamp to a pole. GHT63 is not included.
767 880	**GHT63**	Clamp arrangement for attaching the GHT66 and GHT78 to all poles.

8.5 Hand Strap



833 343	**GHT79**	Hand strap for CS35 Tablet. Including 4 high corner guards.

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Care Packages

9 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.

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- when it has to be **right**

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