# Leica
# ScanStation P50/P40/P30
## Equipment List

HDS™

- when it has to be **right**

Leica Geosystems

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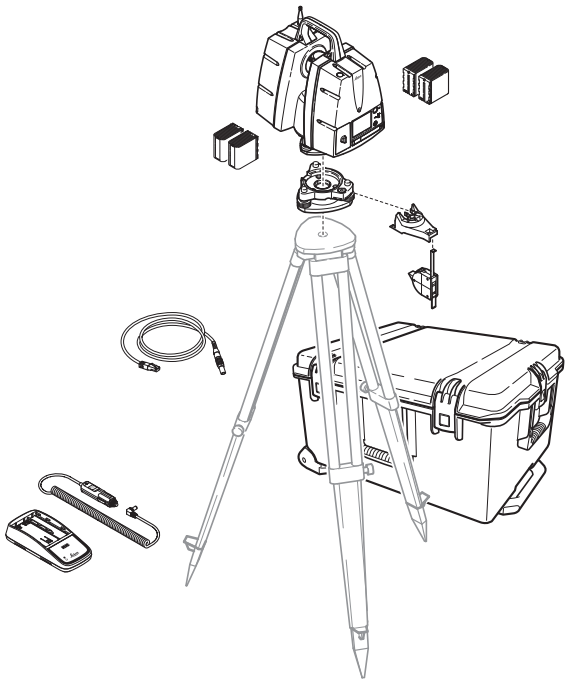
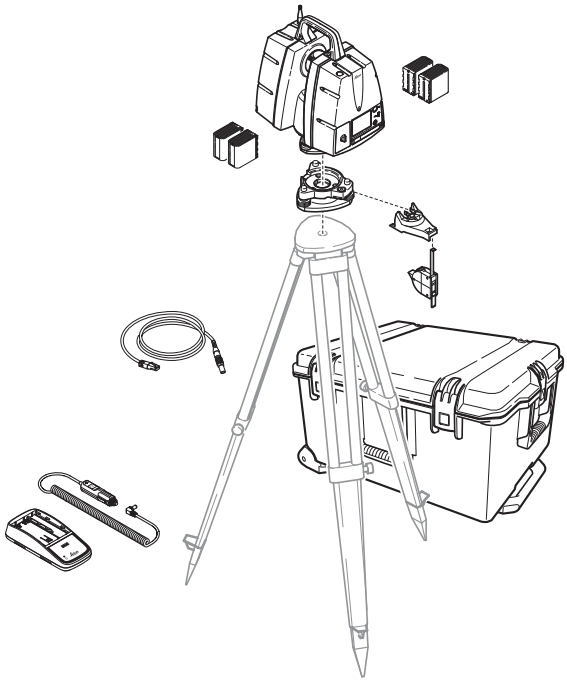
# ScanStation P50/P40/P30

## 1 Scanner Set ScanStation P30



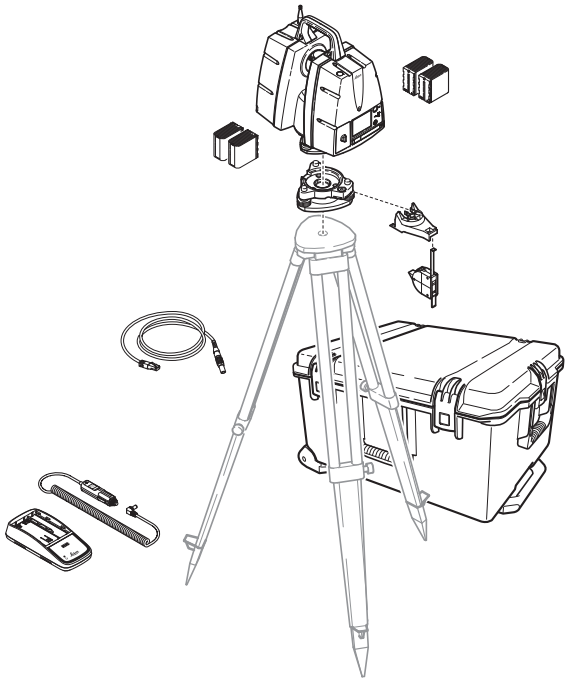
| | | |
|---|---|---|
| 6009376 | **P30** | Leica ScanStation P30 Standard Package, consisting of:<br>• 1x ScanStation P30 Laser scanner (808 687)<br>• 1x GVP645 Transport box (769 625)<br>• 1x GDF323 Tribrach without optical plummet (777 970)<br>• 4x GEB242 Lithium-Ion Battery (793 975)<br>• 1x GKL311 Single Charger Prof 3000 (799 185)<br>• 1x GEV228 Data cable (766 567)<br>• 1x GHM008 Scanner height meter (772 829)<br>• 1x GHT196 Distance holder for height meter (722 045)<br>• 1x ScanStation P50/P40/P30 Quick Guide<br>• 1x ScanStation P50/P40/P30 System USB stick<br>• 1 year CCP Basic contract (6009442) |

## 2 Scanner Set ScanStation P40



| | | |
|---|---|---|
| 6009377 | **P40** | Leica ScanStation P40 Standard Package, consisting of:<br>• 1x ScanStation P40 Laser scanner (827 494)<br>• 1x GVP645 Transport box (769 625)<br>• 1x GDF323 Tribrach without optical plummet (777 970)<br>• 4x GEB242 Lithium-Ion Battery (793 975)<br>• 1x GKL311 Single Charger Prof 3000 (799 185)<br>• 1x GEV228 Data cable (766 567)<br>• 1x GHM008 Scanner height meter (772 829)<br>• 1x GHT196 Distance holder for height meter (722 045)<br>• 1x ScanStation P50/P40/P30 Quick Guide<br>• 1x ScanStation P50/P40/P30 System USB stick<br>• 1 year CCP Basic contract (6009442) |

# 3 Scanner Set ScanStation P50



| | | |
|---|---|---|
| 6012700 | **P50** | Leica ScanStation P50 Standard Package, consisting of:<br>• 1x ScanStation P50 Laser scanner (867984)<br>• 1x GVP645 Transport box (769 625)<br>• 1x GDF323 Tribrach without optical plummet (777 970)<br>• 4x GEB242 Lithium-Ion Battery (793 975)<br>• 1x GKL311 Single Charger Prof 3000 (799 185)<br>• 1x GEV228 Data cable (766 567)<br>• 1x GHM008 Scanner height meter (772 829)<br>• 1x GHT196 Distance holder for height meter (722 045)<br>• 1x ScanStation P50/P40/P30 Quick Guide<br>• 1x ScanStation P50/P40/P30 System USB stick<br>• 1 year CCP Basic contract (6009442) |

# Accessories for ScanStation P50/P40/P30

## 4 Power Supply

### 4.1 Internal Power Supply

| | | |
|---|---|---|
| 793 975 | **GEB242** | Lithium-Ion battery, 14.8V/5.8Ah, rechargeable. |
| 799 187 | **GKL341** | Charger Prof 5000. Charges up to 4 batteries, 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. |
| 799 185 | **GKL311** | Single Charger Prof 3000. Charger for one Li-Ion battery including AC/DC adapter and car adapter cable. |

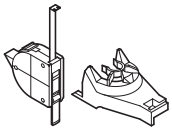
### 4.2 AC Power Supply

| | | |
|---|---|---|
| 864 640 | **GEV282** | AC power supply. For indoor use only. |

## 5 Data Transfer

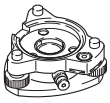
| | | |
|---|---|---|
| 766 567 | **GEV228** | ScanStation Pxx data cable, 2.5m, standard ethernet jack to Lemo (8pin). Connects ScanStation Pxx with computer. |
| 812 212 | **GEV281** | Synchronisation Cable. |

## 6 Instrument Height Meter



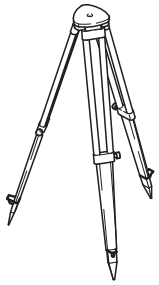
| | | |
|---|---|---|
| 772 829 | **GHM008** | Scanner height meter. |
| 722 045 | **GHT196** | Distance holder for height meter. |

## 7 Tribrachs



| | | |
|---|---|---|
| 777 508 | **GDF321** | Tribrach, without optical plummet, pale green. |
| 777 509 | **GDF322** | Tribrach, with optical plummet, pale green. |
| 777 970 | **GDF323** | Tribrach, without optical plummet, black. |

## 8 Tripods



| | | |
|---|---|---|
| 670 238 | | Fibreglass tripod with quick clamp. |
| 332 200 | **GST4** | Tripod-star, for setting up tripods on hard and slippery surfaces. |

# 9 Targets

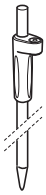
## 9.1 Targets

| | | |
|---|---|---|
| 822 694 | **GZT21** | 4.5" circular black/white tilt &turn target for ScanStation. Leica standard stub fitting to mount on e.g. GLS12 pole. Centre height at Leica standard reflector height. |
| 6009743 | | Target package, consisting of:<br>• 4x GZT21 Scanning target (822 694)<br>• 4x GAD50 Stub-to-Screw adapter (823 044)<br>• 4x Flat magnet mount (670 229)<br>• 1x GVP703 Soft bag (790 314) |

## 9.2 Target Accessories

| | | |
|---|---|---|
| 670 223 | | Target tripod. |
| 670 224 | | Target tripod bag. |
| 790 314 | **GVP703** | Soft bag, for 4.5" circular black/white tilt & turn targets. |
| 667 319 | | Dual Strut Support. With 2 telescopic legs, for rapid set-up. Suitable for poles of all diameters. |

## 9.3 Target Pole

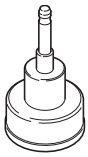


| | | |
|---|---|---|
| 385 500 | | Reflector pole with stub. Quick release clamp for easy and rapid height adjustment. Graduated in cm and ft, minimum length 1.24 m (4.07 ft), extendible to 2.15 m (7.05 ft), weight 940 g (2.07 lb). |

## 9.4 Magnetic Mount for Targets

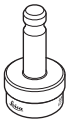
| | | |
|---|---|---|
| 670 228 | | V-block magnetic mount for targets with 5/8" x 11 threaded post, for mounting on steel pipes. |
| 670 229 | | Flat magnetic mount for targets with 5/8" x 11 threaded post, for mounting on flat steel surfaces. |

## 9.5 Reflector Carriers



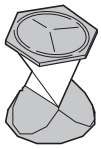
| | | |
|---|---|---|
| 667 313 | **GRT144** | Carrier with stub, pale green. |

## 9.6 Adapter



| | | |
|---|---|---|
| 823 044 | **GAD50** | Adapter for mounting reflectors and target plates with stub fitting on 5/8" carriers. |
| 850 569 | **GAD51** | Stub-to-Screw Adapter. In combination with GZT21 and GRT247 the scanner height of 250mm is reached. |

# 10 Reflectors



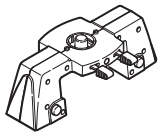
| | | |
|---|---|---|
| 639 985 | **GRZ4** | 360° reflector. |
| 754 384 | **GRZ122** | 360° reflector with 5/8" thread. |
| 774 700 | **GAD111** | GAD104-to-Stub adapter. Adapter to mount Leica reflectors on GAD104 SmartAntenna adapter. |
| 779 082 | **GAD112** | GAD110-to-Stub adapter. Adapter to mount Leica reflectors on GAD110 SmartAntenna adapter. |

# 11 GNSS (Global Navigation Satellite System)

## 11.1 GNSS SmartAntenna

| | | |
|---|---|---|
| 851 142 | **GS16** | Leica GS16 Basic SmartAntenna. |

## 11.2 SmartAntenna Adapter



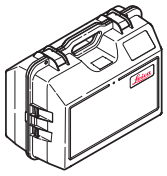
| | | |
|---|---|---|
| 767 802 | **GAD110** | SmartAntenna adapter to mount GS16 SmartAntenna. |

## 11.3 Controller for GNSS SmartAntenna

| | | |
|---|---|---|
| 823 165 | **CS20 3.75G** | **CS20 3.75G Field Controller**<br>Ruggedized WinEC7 field controller with 5" WVGA touch display, 2 GB eMMC Flash Memory, 1 GB SDRAM, SD card slot, 5MP camera and LED flash.<br>Includes internal Bluetooth/WLAN module, 3.75G GSM/UMTS module, internal TS communication module, QWERTY keypad, stylus. |

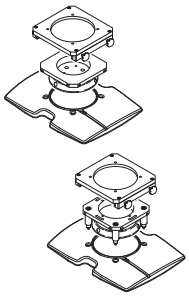
For details about additional required products and accessories to use the GNSS option or other antenna and controller configurations please refer to the Leica Viva GNSS or Leica Viva TPS equipment lists.

# 12 Additional Containers



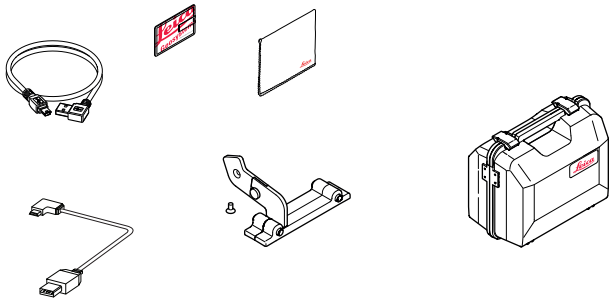
| | | |
|---|---|---|
| 769 625 | **GVP645** | ScanStation Pxx transport container. |
| 805 221 | **GVP710** | Transport box light for ScanStation Cxx/Pxx.<br>**Note:** For careful transportation only. Not designed for substantial shipping! |

# 13 Mounting Adapters



| | |
|---|---|
| 6007705 | Upside Down Adapter Set, consisting of:<br>• 1x Upside Down Mounting Plate (799 138)<br>• 1x Upside Down Mounting Adapter (799 724)<br>• 1x Water cover (798 536) |
| 6007742 | 2D Profiling Adapter Set, consisting of:<br>• 1x Upside Down Mounting Plate (799 138)<br>• 1x 2D Profiling Scanner Adapter (799 729)<br>• 1x Water cover (798 536) |

## 14 External Camera Kit



| | | |
|---|---|---|
| 6009173 | **External camera kit for ScanStation Pxx** | External camera kit for ScanStation Pxx, consisting of:<br>• 1x Transport box for Canon EOS 60D/70D/80D/90D camera (780 900)<br>• 1x Bracket for Canon EOS 60D/70D/80D/90D camera (795 373)<br>• 1x USB cable for Canon EOS 60D/70D/80D camera (795 668)<br>• 1x USB cable for Canon EOS 90D camera (938 473)<br>• 1x ScanStation Pxx System USB card |

Does not include Canon EOS 60D/70D/80D/90D camera and fish eye lens!
Does not include license for ScanStation Pxx external camera option (822 999).

## 15 License Options

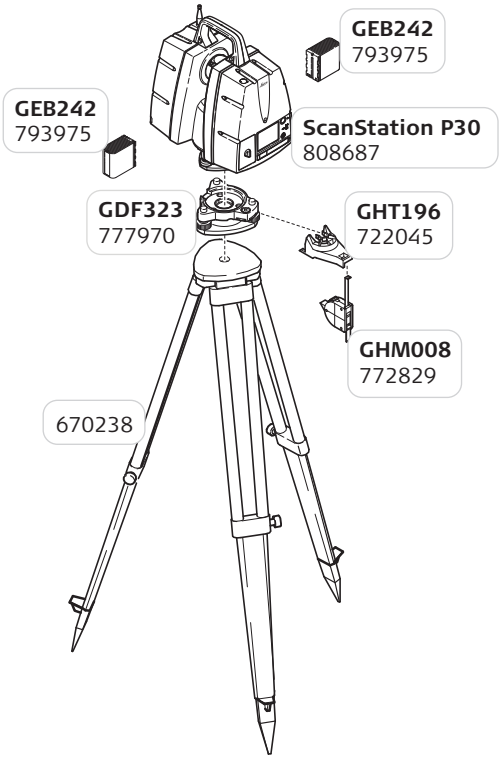
| | |
|---|---|
| 807 280 | API Data Access Option.<br>Enables access to ScanStation Pxx 3D point cloud data in 3rd party software packages. |
| 822 999 | ScanStation Pxx external camera option. |

## 16 Upgrade Options

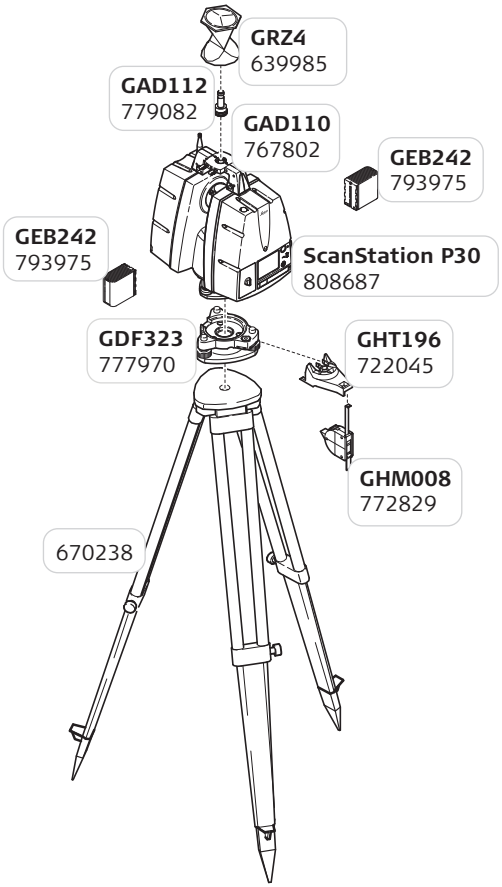
| | |
|---|---|
| 865 023 | Upgrade of Leica ScanStation P30 to Leica ScanStation P40.<br>This upgrade can only be done in selected Leica Service Workshops. |
| 868 266 | Upgrade of Leica ScanStation P40 to Leica ScanStation P50.<br>This upgrade can only be done in selected Leica Service Workshops. |

# Suggested Equipment Setups

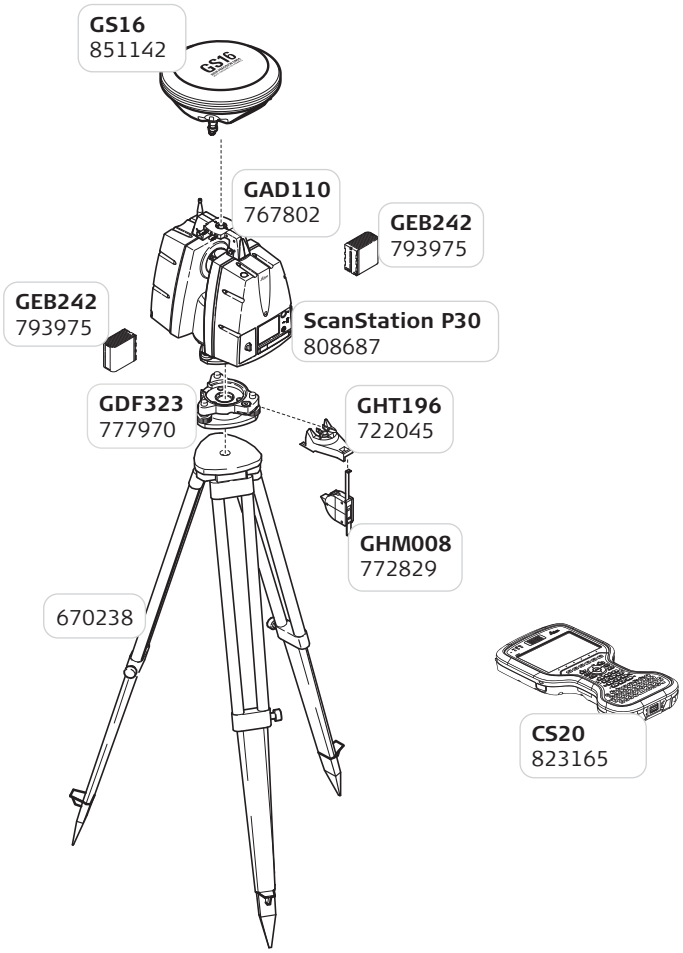
## 17 Configuration stand alone/internal Battery



## 18 Configuration stand alone/internal Battery with Reflector on top



# 19 Configuration stand alone/internal Battery with GPS Antenna on top




For details about additional required products and accessories to use the GNSS option or other antenna and controller configurations please refer to the Leica Viva GNSS or Leica Viva TPS equipment lists.

# Software and Care Packages

## 20 Software

| | |
|---|---|
| 807 280 | API Data Access Option.<br>Enables access to ScanStation Pxx 3D point cloud data in 3rd party software packages. |

## 21 Customer Care Packages (CCP)

The ScanStation P30 standard package (6009376), the ScanStation P40 standard package (6009377) and the ScanStation P50 standard package (6012700) include a 1 year CCP Basic contract. Multi-Year CCP contracts are available for ScanStation P30, ScanStation P40 and ScanStation P50, but can only be ordered with the initial purchase of an instrument.

BASIC CCP

| | |
|---|---|
| 6009443 | 2 year CCP Basic. |
| 6009444 | 3 year CCP Basic. |

BLUE CCP

| | |
|---|---|
| 6009445 | 1st year CCP Blue. |
| 6009446 | 2 year CCP Blue. |
| 6009447 | 3 year CCP Blue. |

BRONZE CCP

| | |
|---|---|
| 6009448 | 2 year CCP Bronze. |
| 6009449 | 3 year CCP Bronze. |

SILVER CCP

| | |
|---|---|
| 6009451 | 1st year CCP Silver. |
| 6009452 | 2 year CCP Silver. |
| 6009453 | 3 year CCP Silver. |

GOLD CCP

| | |
|---|---|
| 6009455 | 1st year CCP Gold. |
| 6009456 | 2 year CCP Gold. |
| 6009457 | 3 year CCP Gold. |

| | Customer Support | Firmware/ Software Maintenance | Extended Warranty | Hardware Maintenance incl. Calibration | Loaner Instrument |
|---|---|---|---|---|---|
| **Basic** | ✓ | ✓ | | | |
| **Blue** | ✓ | ✓ | | ✓ | |
| **Bronze** | ✓ | ✓ | ✓ | | |
| **Silver** | ✓ | ✓ | ✓ | ✓ | |
| **Gold** | ✓ | ✓ | ✓ | ✓ | ✓ |

For further details about HDS Customer Care Packages refer to document 767 474 (Active Customer Care - Leica Customer Care Packges for HDS Hardware and Software).

# Trademarks & Technical Data

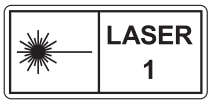
## 22 Trademarks

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

## 23 Technical Data

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

**Scanner:**
Laser class 1 in accordance with IEC 60825-1 resp. EN 60825-1



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829112-3.1.0en - IX.21

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- when it has to be **right**

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