

Collecting high accuracy geospatial data on your tablet or smartphone has never been easier

Leica Zeno GG04 Plus

The latest Smart Antenna in the Leica Zeno range can pair with a wide range of Android, iOS or Windows smart devices, bringing centimetre accuracy into the hands of all.

Key Features

- Uses RTK technology and Precise Point Positioning (PPP) that makes real-time, high-accuracy data collection possible in most demanding environments without the need for a mobile data connection.
- Day-long operation with onboard battery and a Bluetooth connection that ensures cable free operation
- Have confidence in your measurements with 555 channels for more GNSS signals (GPS, Glonass, BeiDou, Gallileo, QZSS, SBAS), faster acquisition and higher sensitivity.

Not only will the Zeno GG04 Plus smart antenna work with Leica Zeno Mobile on the Zeno 20 GIS/GNSS handheld, but also with other popular data collection apps and software, like Geolantis.360, ESRI Collector for ArcGIS and others.

C.R. Kennedy Proudly Partnering





Zeno



Supports Android, iOS or Windows

smart devices

Call 1300 886 982 for more information survey.crkennedy.com.au/gis



Technical Specifications

LEICA ZENO GG04 PLUS I GNSS TECHNOLOGY

LEICA ZENU GGU4 PLUS I GNSS TECHNOLOGI			
Number of channels	555 channels (more signals, fast acquisition, high se	555 channels (more signals, fast acquisition, high sensitivity)	
Satellite signal tracking	GPS (L1, L2, L2C, L5), Glonass (L1, L2), BeiDou (B1, B2, B3 ¹), Galileo (E1, E5a, E5b, Alt-BOC, QZSS, SBAS (WAAS, EGNOS, MSAS, GAGAN), L-band	BeiDou (B1, B2, B3 ¹), Galileo (E1, E5a, E5b, Alt-BOC, E6 ¹),	
Real-time and post-processing	Support of real-time correction service and post-processing to achieve positioning accuracy		
Output data protocols		 Android: position provided by Location Service and NMEA² output possible, both via Zeno Connect iOS: position provided by iOS Location Feature and NMEA² output possible (via EA protocol) via Zeno Connect 	
Update rate	20 Hz (0.05 sec) ³	20 Hz (0.05 sec) ³	
Post-processing accuracy static mode	Horizontal: 3 mm + 0.5 ppm (rms) ⁴ Vertical: 6 mm + 0.5 ppm (rms) ⁴		
Horizontal real-time accuracy (SBAS or external source)	SBAS, L1 only Spot Lite, PPP (Multi-frequency option needed) DGNSS, L1 only Spot Prime, PPP (Multi-frequency option needed) RTK, Multi-frequency	< 0.9 m ⁴ < 60 cm ⁴ after approximately 7 minutes of converging < 40 cm ⁴ < 10 cm ⁴ after approximately 30 minutes of converging < 1 cm + 1 ppm ⁴	
Vertical real-time accuracy	RTK (Multi-frequency): 2 cm + 1 ppm ⁴	RTK (Multi-frequency): 2 cm + 1 ppm ⁴	
Real-time protocols	RTCM 2.x, RTCM 3.0, RTCM 3.1, RTCM 3.2, RTCM MSA	RTCM 2.x, RTCM 3.0, RTCM 3.1, RTCM 3.2, RTCM MSM, CMR, CMR+	
Integrated real-time	SBAS⁵ (EGNOS, WAAS, MSAS, GAGAN), or PPP via L-b	SBAS ⁵ (EGNOS, WAAS, MSAS, GAGAN), or PPP via L-band (requires a valid Spot option)	
Time for initialisation	Typically 6 sec ⁶	Typically 6 sec ⁶	
INTERFACE & COMMUNICATION			
User interface	On/Off key Status indicator (LED): satellite tracking, Bluetooth®	On/Off key Status indicator (LED): satellite tracking, Bluetooth® communication and battery power	
Communication port	Bluetooth® 4.1 class 1 & sealed and protected 8-pin Lemo combined USB / Serial232 port		
Field controller connection	By Bluetooth® (3 ports available), RS232 or USB cable		
POWER MANAGEMENT			
Removable battery	GEB212 (7.4 V / 2600 mAh Li-Ion rechargeable)		
Battery charging time	2 hours to full charge with GKL341		
Power	Nominal 12 V DC Range 10.5 – 28 V DC		
Operating time	7.5 h (RTK) ⁷ , 10 h (GNSS only) ⁷	7.5 h (RTK) ⁷ , 10 h (GNSS only) ⁷	
PHYSICAL SPECIFICATIONS			
Weight and dimensions	0.8 kg with all-day battery Height: 0.071 m x Diameter: 0.186 m		
Proof against water, sand and dust	IP68 (IEC60529): dust and water-resistant for all conditions: Temporary submersion into water (2 hours in 1.40 m depth) and protected against blowing rain and dust		
Operating / Storage temperature range	Operation: -40 to 65 °C (-40°F to +149°F) (ISO 9022-10-08, MIL-STD-810G CHG1 Method 502.6-II & ISO 9022-11-04, MIL-STD-810G CHG1 Method 501.6-II) Storage: -40 to 80 °C (-40°F to +176°F) (ISO 9022-10-08, MIL-STD-810G CHG1 Method 502.6-I & ISO 9022-11-06, MIL-STD-810G CHG1 Method 501.6-I)		
Humidity	100% (ISO9022-12-04, ISO9022-13-06, ISO9022-16-02, N	100% (ISO9022-12-04, ISO9022-13-06, ISO9022-16-02, MIL-STD-810G CHG1 Method 507.6-1)	
Drop	Withstands topple over from a 2 m survey pole onto Withstands 1 m drop onto hard surface	Withstands topple over from a 2 m survey pole onto hard surface Withstands 1 m drop onto hard surface	
Vibration	Withstands strong vibration (ISO9022-36-05)	Withstands strong vibration (ISO9022-36-05)	
ACCESSORIES & OPTIONAL FEATURES			
Accessories	 External battery charger Backpack kit Hard carry case 2 meter range pole Universal pole mounts for different sized 3rd party 	Backpack kit Hard carry case	
Optional field and office software	 Leica Zeno Field Leica Zeno Mobile Leica Zeno Connect Leica Zeno Office and Leica Zeno Office on ArcGIS 	• Leica Zeno Mobile • Leica Zeno Connect • Leica Zeno Office and Leica Zeno Office on ArcGIS	
Optional field computers	Android: most phones and tablets with Android ver	 Leica CS25 plus rugged tablet computer or with the following 3rd party HW in combination with Leica Zeno Connect: Android: most phones and tablets with Android version > 4.1 Windows[®]: tablets/pcs/handhelds with Windows[®] 10/8/7 or WEH 	

¹Believe to comply, but subject to availability of BeiDou ICD and Galileo commercial service definition.

Leica Geosystems AG is part of Hexagon AB. 867461en - 12.17

¹Believe to comply, but subject to availability of BelDou ICD and Galleo commercial service definition.
 Beliobu B3 and Galleio E5 will be provided through future firmware upgrade.
 ² Supported NMEA-0183 messages: GGA, VTG, GLL, GSA, GGQ, GSV, RMC, LLQ (Windows[®] only), GST
 ³ 20 Hz supported for selected NMEA messages on Windows[®] only.
 ⁴ Measurement precision, accuracy and reliability depends upon various factors including number of available satellites, geometry proximity to base station, multipath effects, ionospheric conditions, etc.
 ⁵ WAAS available in North America only, EGNOS available in Europe only, MSAS available in Japan only, GAGAN available

in India only.

¹ May vary due to atmospheric conditions, multipath, obstructions, signal geometry and number of tracked satellites.
 ² May vary with temperature, battery age, usage etc.
 ⁸ Check compatibility list.

Copyright Leica Geosystems AG, 9435 Heerbrugg, Switzerland. All rights reserved. Printed in Switzerland - 2017.



Swiss Technology

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. Microsoft, Windows® and the Windows logo are either registered trademarks or trademarks of Microsoft Corporation in the United States and / or other countries. Other trademark and trade names are those of their respective owners.

iPad and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries. iPad Air, iPad Pro, and iPad mini are trademarks of Apple Inc. IOS is a trademark or registered trademark of Cisco in the U.S. and other countries

and is used under license.

"Made for iPhone." and "Made for iPad" mean that an electronic accessory has "Made for iPhone," and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPhone or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPhone, or iPad may affect wireless performance.

Leica Geosystems AG Heinrich-Wild-Strasse 9435 Heerbrugg, Switzerland +41 71 727 31 31

- when it has to be right

