The Postex® System

- The Postex instrument solution is a versatile system for individual positioning in coordinate systems on sample plots.
- The Postex is often used together with Haglöf Sweden computer caliper models DP II and Digitech Professional and software Postax
- Data can be exported as a CSV file, which can be easily consumed for visualization and analysis in, for example, ArcGIS Online.
- Gather more field data in less time and using reliable technology.
- Developed in collaboration with leading scientists

The Postex® System is used to position trees and objects, mainly in sample plots. Individual positioning of trees with the Postex® System is a proven reliable work method for moderate accuracy demands as when connecting "ground truth" measurements to aerial LiDAR surveys. Postex® is an excellent system solution to follow up individual trees in long term study projects on permanent sample plots. One person can measure and electronically capture all of the tree/object data and position calculations. Postex® is available in different system configurations. The solution has been developed in cooperation with leading scientists and foresters, always based on proven durable instruments and functional software from Haglöf Sweden®.

If you choose to work with the Postex® Laser System 1, you will have a versatile field instrument that includes both ultrasound and laser technology for easy and accurate height measuring of individual trees. The Postex Laser has a user friendly and rugged exterior combined with a smart interior and advanced functionality. With ultrasound you will not be limited to line of sight measurements, and not bound to targets. Seedlings may not make for good laser targets, but with ultrasound, you can position them precisely. One person can measure and electronically capture all of the tree data and position calculations.

SYSTEM 1 Postex Laser Art no 15-103-1040

System 1 Postex Laser is the most common Postex system model, often used together with a Haglöf Sweden computer caliper such as the DP II or Digitech Professional.

The Postex Laser instrument includes both ultrasound and laser technology for easy and accurate height measuring of individual trees. The instrument has a user friendly and rugged exterior combined with a smart interior and advanced functionality. With ultrasound you will not be limited to line of sight measurements.

System 1 includes the Postex Laser ultrasound and laser measuring instrument programmed and customized for the Postex specifications, transponders A, B and C with Postex custom rack, adapters for the transponders and a libel (for alignment). Charging cable, charger and aluminum transport case also included on delivery.

TECHNICAL SPECIFICATION POSTEX LASER

Bluetooth®

Size:	93x63x72mm/3.7x2.5x2.8".
Weight:	243 g/8.6oz.
Battery & consumption:	Rechargeable Li-Ion 3.7V, built-in, approx. 9000 measurings. Charging time max 3.5h. USB mini B interface wall charger 110/220AC/5VDC; car charger adapter 12VDC. Cable Usb mini B Male/ Usb Type A Male, 0.5m. Consumption max 0.9W.
Communication:	IR, Bluetooth® class 2, Spp (serial profile), pincode 12345.
Temperature:	-20° to +45° C/ -4°F-113°F.
Height:	0-999 m/ft. Resolution height: 0.1 m/ft.
Angle:	-55° - 85°. Unit: Degrees 360°, Grads 400° and %. Resolution: 0.1°. Accuracy: 0.1°.
ULTRASOUND:	Distance: 20m/60ft: Accuracy distance: 1% or better. Resolution distance: 0.01m/0.1ft.
LASER:	Distance: 46cm/1.5ft - 700m/2000ft depending on target. Accuracy: 4cm/0.1ft. Resolution: **0.1m/ft (0.01m/0.1ft in DME-mode).**
Shock/Vibration/Moist/ Laser Classification:	MIL-STD-810E. Housing frame material glass filled poly carbonate, IP67, NEMA6, Laser class 1, 7mm (FDA, CFR21) Class 1m (IEC 60825-1:2001).
Sight:	LED crosshairs 1 x magnification.
Display:	Graphic LCD 100x60pixles.
Dataformat:	Nmea or Ascii.
Other:	Aluminum transport/storing case. See user manual for more details.

TECHNICAL SPECIFICATION TRANSPONDERS & RACK

Size:	Diameter 70 mm/2.8" per transponder.
Weight:	85g/5oz (incl battery) per transponder.
Battery:	1.5V AA Alkaline per transponder.
Consumption:	max 9mW.
Rack:	Complete with adapters, approx. weight 4.85kg/194oz. Adapter/TRP at 115cm/44.85" from centre, arm extending to 125cm/48.75". Rack expandable.

The Postex System can have different configurations depending on your requirements and which equipment you have and work with. Below are some examples - contact us for your custom Postex System!

SYSTEM 2 DP Postex with DP II Caliper and L5 Laser Art no 15-103-1041

System 2 DP Postex L5 is an adapted and complete solution recommended for users that prefer for the ultrasound technology to be available in the DP II computer caliper with a custom programmed Postex add-on. In system 2, tree heights are measured with the L5 laser instrument. The DP Postex is installed on the DP II caliper and used for distance measuring - the basis for the individual positioning of trees and other objects in permanent sample plots. The DP II caliper and software Postax handle calculations and processing of all input information.

System 2 includes: DP II caliper with Bluetooth and Radio Enter Button (scale length must be specified), Postax software for DP II; L5 Laser instrument, DP Postex module, transponders A, B and C with Postex custom rack, adapters for the transponders and a libel (alignment). Charging cable, charger and aluminum transport case included on delivery.

NOTE! *DP II Computer caliper and Postax software license are mandatory for Postex System 2. For technical details on the L5, the DP II caliper and software options, see separate product leaflets.*

SYSTEM 3 DP Postex with DP II Terminal Art no 15-103-1042

Postex System 3 is suitable when the positioning work does not involve height or diameter measurements, for example in plantations, research and follow-up work.

Ultrasound technology is useful to position, for example, seedlings. In System 3, the DP Postex add-on is installed on the DP II computer terminal. The DP II Terminal is programmed with Postax software license. The DP II terminal is used as a stand-alone computer in this case, and no measuring scale for diameter measuring is included in System 3.

System 3 includes: DP II Bluetooth terminal with wrist holder, Postax software license; DP Postex module for DP II computer terminal, transponders A, B and C with Postex custom rack, adapters for the transponders and a libel. Charging cable, charger and aluminum transport case also included on delivery.

NOTE! *DP II Terminal and Postax software license are mandatory for System 3. For technical details on the DP II terminal and software, see separate product leaflet.*

DP POSTEX

Dimensions:	57x30x30mm, 2.28"x1.2"x1.2".
Weight:	25g, 1oz.
Power supply:	3.3V external feed. Consumption: 7mA.
Ultrasonic frequency:	25kHz
Unit:	cm / set in receiving software.
Accuracy:	1% or better.
Distance:	>15m w 360° adapter
Protocol:	NMEA
Interface:	RS232 19200,8,N,1.
Accessories:	Transponders, adapters, Postex rack, DP II computer terminal, software

