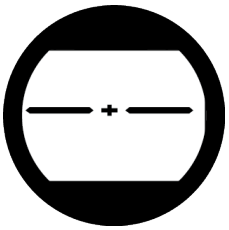
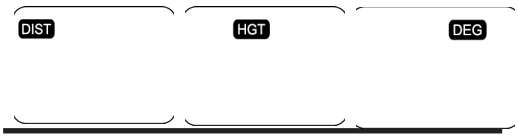
Haglöf ECII

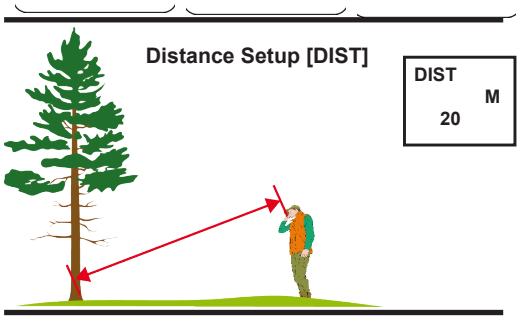
- **Hold the EC II instrument as in the picture.**
- **Aim with both eyes**

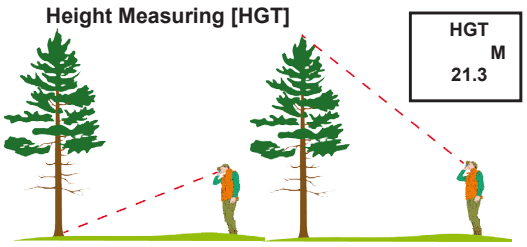


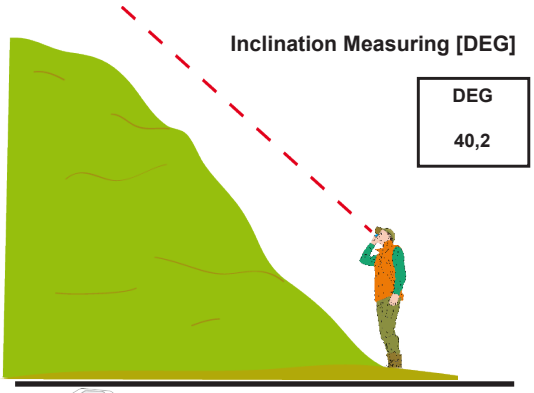
Function

1. DIST Distance setup and height measuring (m/ft)
2. HGT Height Measuring (m/ft)
3. DEG Inclination/Angle (%/°)

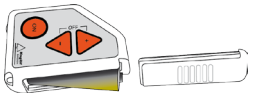








1. Aim



2. Battery Compartment

3. How to hold the ECII instrument.

English

The Haglof ECII is an easy to use field instrument that offers accurate measuring results on inclination and heights of objects, usually trees. Heights are measured from any optional distance and placing in relation to the object's position in the field. The ECII uses one AA battery that is removed by sliding open the battery lid (See image 2). Battery consumption is low and a battery often lasts for several months.

Function

Select function with a quick press on the 'ON' button one or several times. To turn off, press '+' and '-' buttons simultaneously.(Automatic turnoff after approx. 30 sec's of inactivity.)

1 press: DIST Distance setup, height measuring (m/ft)
2 presses: HGT Height Measuring (m/ft)
3 presses: DEG Inclination (%/°)

Distance Setup / Measure Height and Inclination

Input distance with the '+' and '-' buttons. The distance equals the distance from the eye to the centre of the tree's (object's) diameter at the bottom (ground level). Step up (increase) with the '+' button and down (decrease) with the '-'button. Optional distance from 0 to 999m/ft can be registered. A single press increases or decreases distance by 1. Hold the button '+' or '-' down to scroll distance by 5. Release the button when the required distance is reached.

Press the 'ON' button to register the distance. The Haglof ECII will use the last input distance as default also if the instrument is turned off. NOTE! The ECII will not measure distances. Use a measuring tape or thread meter to determine the correct distance to the measuring object.

Measure the angle to the bottom of the tree by aiming with the horizontal lines in the instrument display and pressing 'ON' one time. NOTE! Use both eyes when aiming!
Measure height by aiming at the top (or other height) and press 'ON'. To measure more heights on the same tree simply aim and press the 'ON' button at your selected heights. Go straight to height measuring without registering a new distance at HGT. Select DEG to measure angles and inclination.

Battery

The display features bAt to indicate low battery.

Technical Specification

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Size	20x63x44mm/0,8x2,5x1,7"
Weight	50g/1,8oz incl battery
Battery warning	Yes
Display	LCD
Backlit display	Yes
Summer	Yes
Battery	1ea AA
Consumption	15mW
Distance	0-999m/ft
Max height	0-999m/ft
Resolution height	0,1m/ft<100m/ft; 1m/ft>100m/ft
Angle	%/deg, -85deg...+85deg
Accuracy angle	+-0.2deg
Resolution angle	0.1deg

Español

El Clinómetro Haglöf ECII es un instrumento profesional de medición de alturas y ángulos de tamaño de bolsillo. Las alturas, normalmente de árboles en el bosque, pueden medirse de cualquier distancia o posición que usted seleccione haciendo este pequño aparato especialmente útil en condiciones adversas. El ECII utiliza una batería AA. Para cambiar la batería, ver imágen no. 2 a la izquierda. Una batería puede durar una estación entera.

Función

Seleccione una function presionando el botón 'ON' una o un número de veces. Para apagar, presione '+' y '-'. Tiempo de apagar automático: aprox. 30 segundos.

1 presione del botón: **DIST** Setup (introducción) de Distancia y Medida de alturas (m/ft)
2.presiones **HGT** Medida de la altura (m/ft)
3 presiones **DEG** Medida inclinación (%/°)

Setup (Introducción) de Distancia / Medir Alturas

La última distancia introduzida en el ECII es utilizado como el valor por defecto/Default. Para cambiar esta distancia, utiliza los botónes '+' o '-'. La distancia se debe medir del centro y fondo del objeto (el árbol) arriba a la altura del ojo. La distancia puede ser entre 0m/ft hasta 999m/ft. Presione el botón ('+' o '-') para cambiar este valor con 1. Mantenga el botón apretado para cambios mayores, y 5 posiciónes al la vez. Cuando aparezca el número deseado para la distancia correcta en la pantalla, suelte el botón. Mida la distancia del objeto con una cinta métrica. ¡NOTA! ¡El ECII no mide las distancias! ¡Para obtener los valores exactos de la altura, una entrada exacta de la distancia actual es importante! Reconozca la nueva distancia con una presión rápida en el botón 'ON'.
Mida el ángulo hacía la parte más baja apuntando la línea horizontal del objeto y apriete el botón 'ON'. Es importante mantener los dos ojos abiertos durante la medición.

Medida de la Altura

Cuando el resultado (el ángulo) se muestra en la pantalla, apunte hacia lo más alto (u otra altura preferida). Presione el botón 'ON' hasta que se muestra el resultado en la pantalla. Repita esta operación sí se necesita más de una altura (del mismo objeto, desde la misma distancia y con el mismo ángulo de la base).Seleccione HGT para medir la altura sin introducir distancia. El ECII utiliza la distancia por defecto (la última distancia introduzida).
Seleccione DEG para medir ángulos. Apunte con la línea horizontal hacía el ángulo y presione el botón y mantengalo presionado hasta que un resultado se muestra en la pantalla. Repita para medir más ángulos.

Batería

Cuando la batería está baja aparecerá en la pantalla la señal bAt.

Especificaciones Técnicas

Tamaño:	20x63x44mm/0,8x2,5x1,7"
Peso:	50g/1,8oz incl battery
Pantalla:	LCD, iluminado de atrás
Zummer:	Sí
Batería:	1AA
Consumo:	15mW
Distancia:	0-999m/ft
Altura:	0-999m/ft
Resolución altura:	0,1m/ft<100m/ft; 1m/ft>100m/ft
Ángulo:	-%/deg, 85deg...+85deg
Exactitud Ángulo:	+-0,2deg
Resolución Ángulo:	0,1deg

DECLARATION OF CONFORMITY

According to the EMC Directive with amendment 92/31/EEC, Low Voltage Directive 73/23/EEC and CE Marking Directive 93/68/EEC Type of equipment Clinometer, Brand name or trade mark Haglöf. Manufacturer Haglöf Sweden AB, Klockargatan 8, SE-882 21 Långsele, Sweden.
The following standards and/or technical specifications, which comply with good engineering practice in safety matters in force within the EEA, have been applied: Test report/ technical construction file/ normative document
Ref.no 03087/Issued by Haglöf Sweden AB
Standards EMC Emission EN61000-6-3: 2001, EN 55022 Class B EMC Immunity EN61000-6-2: 2001, EN 6100-4-2, -3, The H EC Product was CE marked 2003 As manufacturer established within EEA, we declare under our sole responsibility that the equipment follows the provisions of the Directives stated above.

WARRANTY AND SERVICE INFORMATION

Haglöf Sweden AB warrants that this product shall be free from defects in materials and workmanship, under normal intended use, for a period of 12 months after date of shipment. The warranty excludes the battery, the accessories and any written materials. The warranty does not apply if the product has been improperly installed, improperly calibrated or operated in a manner not in accordance with the user guide. Warranty is also automatically expired if the product has been opposed to external force and warranty is not applicable for cosmetic defects. The one-year limited warranty time covers obvious fabrication defects. Defects in the electronic components that are impossible for the manufacturer to detect prior to assembling and shipping of the product may occur. Haglöf Sweden can in no case be responsible for problems of this nature and has no liability for any loss of business, profits, savings, consequential damages or other damages resulting from use of the products described. Signs of misuse, cosmetic damage, accidents or equal automatically withdraw the warranty. The warranty is valid in the country where your Haglöf product has been purchased. A product covered by warranty will be object to exchange, service, and repair or according to special agreement between seller and buyer, within the frames of the limited warranty. Haglöf Sweden reserves the right to determine which option will be most suitable for each separate case after having examined and evaluated the product.

- For a valid warranty, a copy of invoice or dated receipt of your purchase must be presented. The serial number of the returned product has to be clearly stated upon return. Go to http://www.haglofsweden.com/PDF/HaglofRMA.pdf for return form/turn to your supplier for assistance.
- The return freight to us is on buyer's expense. After warranty repair or exchange, the return freight to you is on our expense. If warranty has expired or is null and void, all freights are on buyer's expense.
- •If no original invoice can be presented upon shipment, or if two years have passed from date of purchase, a customs fee will be added by the applicable customs authorities and possibly in receiving country as well. These fees are on buyers account.
- •We perform repair and service of products where warranty has expired when possible. Cost estimation will be sent to you after evaluating the returned product for cost approval. Please also see above paragraph on customs fees.
- Please do not hesitate to contact us or any Haglöf Sweden AB representative for questions or comments!

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