

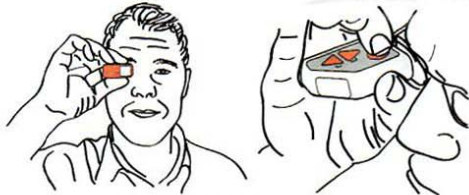


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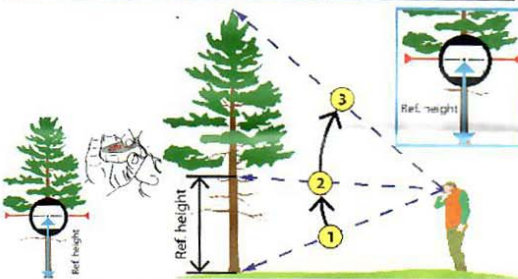
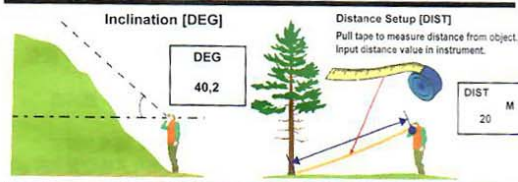
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EC II D

Digital Clinometer with Distance Calculation

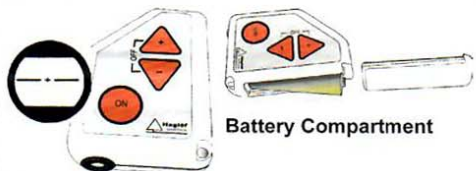
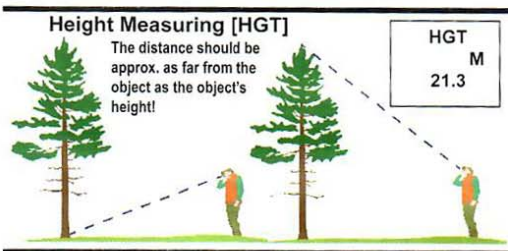


- Hold the EC II instrument as shown on images.
- Aim with both eyes open



Calculate Distance to Object [HGT]

Mark reference on object at 2m/6ft. Measure angle to ref mark. Continue to measure angle to base and top for height result.



Storage, Care, Maintenance and Safety

Handle the instrument with care. Do not expose to excessive temperatures or ultraviolet rays. Store cool and dry. Wipe off with dry clean cloth if exposed to moist, dirt or other, immediately after exposure. Do not use alcohol, benzene, thinner or other organic agents to clean instrument body. Remove battery for longer periods of inactivity. Do not swing instrument by its strap. Keep instrument and any of its parts out of reach from children. Immediately consult a doctor if a small child has swallowed any parts of instrument or its packing. Keep away from fire and water. Do not disassemble instrument or battery. Do not attempt to recharge battery. Any signs of corrosion or leaking on batteries should result in changing the battery. Do not throw defective batteries or instruments in trash.

Check out our complete range of digital clinometers and rugged measurement instrument systems for foresters, surveyors, constructors and other professional users at www.haglofsweden.com



English

The Haglöf EC II D is a digital instrument designed to measure inclination and heights of objects. Heights can be measured from any optional distance and placing in relation to the object's position in the field. The EC II D model can calculate heights with manually input distances, or calculate the distance with the help of trigonometry.

Function

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

- 1 press: DIST Distance setup, height measuring (m/ft)
- 2 presses: HGT Height Measuring (m/ft) Calculates distance to object at set height of 2m/6ft (see below).
- 3 presses: DEG Inclination (%/°)

Distance Setup/Measure Height and Inclination

Working with known/fixed distance, or when other instrument/method is used to measure the distance

The distance equals the distance from the eye to the centre of the diameter on the object at base/ground level. Any distance from 0 to 999m/ft can be registered. Use a measuring tape or thread meter to measure the distance to the object. The distance should be approx. as long as the object's height. Input (increase and decrease) with '+' and '-' buttons. A single press increases or decreases value by 1. Hold '+' or '-' down to increase distance with 5. Release the button to fix the distance value. Press the 'ON' button to register the value. The instrument will use last input distance value as default.

Proceed to measure the angle to the base of the tree by aiming with the horizontal lines --- + --- in the instrument display. Press 'ON' one time and a short signal is heard. IMPORTANT! Aim with both eyes!

To measure the height, aim at the top (or other height) and press 'ON' until the short signal is heard. To measure more heights on the same object, aim and press the 'ON' button at your selected height.

How to use the EC II D to calculate the distance to the object

The distance is calculated with trigonometry. Use spray paint, roll flagging or other visible mark to mark the reference position of 6ft/2meter on the object. Step back from the object until you have a vision of the height to measure on the object as well as your 6ft/2m height mark on the object.

1. Press two times quickly and concurrently on the 'ON' button. 'HGT' appears in the display
2. Aim and measure at the base of the object. Press and hold 'ON' depressed and wait for the signal. IMPORTANT! Aim with both eyes. The horizontal lines --- + --- in the display should be at the base level.
3. Aim at your 6ft/2m ref.mark and press 'ON' until you hear a short signal. IMPORTANT! Aim with both eyes. The horizontal lines --- + --- in the display should be at the marked position on the object to measure.
4. After the signal, the distance to the object will be briefly displayed, and then disappear. This is to verify that a distance has been calculated.
5. Proceed to measure the top (or other position) of the object. Aim, press and hold the 'ON' button until you hear the signal. The total height between the base and the other position is displayed.

To measure inclination with the EC II D

Select function DEG to measure angle/inclination.

Battery

bAt is displayed to indicate low battery.

Technical Specification

Size	20x63x44mm/0,8x2,5x1,7"
Weight	50g/1,8oz incl battery
Display	LCD, backlit
Signal	Yes, beep
Battery	1 ea AA. Warns when low.
Consumption	15mW
Distance	0-999m/ft
Max height	0-999m/ft
Res. height	0,1m/ft<100m/ft; 1m/ft>100m/ft
Angle	%/° (degrees), -55 °< angle <+85 °
Accuracy angle	+0.2 °
Res. angle	0.1 °