

Pihta – User Guide

GPS marking device. Greyford Atlas Oy. pihta.fi

Pihta is a battery-powered handheld device that marks a tree's location, height and series (for example the species) with a single button press, directly out in the field. Points are stored in the device memory and transferred to a computer over USB-C. The device needs no network connection in the field.

Device buttons

Red trigger	Records a point: location, height and series.
Button X	Sets the tree height. During setup, scrolls through setting values.
Button Y	Changes the series (e.g. by species).

Safety and use

- Use three new AA alkaline batteries of the same brand. Observe the polarity markings (+/-).
- Do not mix old and new batteries or different types and brands. Do not attempt to recharge single-use batteries.
- For cold conditions, AA lithium batteries are recommended. Rechargeable NiMH batteries are not recommended, because their lower voltage (1.2 V) makes the charge indicator read incorrectly and shortens the run time.
- Remove the batteries if the device is unused for a long time. This prevents damage from leaking batteries.
- Keep the device and batteries out of reach of children.
- The battery compartment cover is held by five screws. Open it only to change batteries. There are no user-serviceable parts inside.
- Operating temperature -10 °C ... +40 °C. The enclosure is not waterproof. Protect the device from sustained wetness and immersion.
- Do not expose the device to open flame, high heat or hard impact.
- Stop using the device and remove the batteries if it is damaged, becomes hot or emits an unusual smell.
- Pihta is intended for marking trees and objects. It is not intended for emergency or safety-critical navigation. GPS accuracy is about 2 metres; do not rely on the coordinates as the only source of information in safety-critical situations.
- Stay aware of your surroundings in the field and do not let the device distract you from hazards.

How to use the device

01 Installing the batteries

Turn the device over. Undo the five screws of the battery compartment cover with a flat-head screwdriver and lift the cover off. Insert three AA batteries according to the polarity markings (+/-). Close the cover and tighten the screws.

02 First start-up

On first start-up the device asks for two settings. The settings are saved to memory and are not asked again unless the device is reset.

Maximum height – the greatest height that can be marked with the device. The screen shows MAKS. PITUUS and a numeric value. Scroll with button X and confirm with the trigger. A lower maximum gives a finer step interval for button X.

Number of series – how many different series can be marked (1–10). Usually one species is marked per series. The screen shows SARJOJEN MÄÄRÄ and a numeric value. Scroll with button X and confirm with the trigger. The series are named later in the map application.

03 Acquiring a GPS signal

The screen shows HAETAAN GPS... until a signal is found. In open areas this usually takes 30–60 seconds. In forest or dense growth it may take longer. Do not mark points before a signal has been found.

Once the device has found a signal, it will find it again almost immediately after power-on, as long as the batteries stay in place. If the batteries are removed, the device forgets the stored satellite data and the next acquisition again takes 30–60 seconds.

04 Marking a tree

- 1 Walk up to the tree.
- 2 Set the tree height with button X.
- 3 Change the series with button Y (e.g. by species) if needed.
- 4 Press the large red trigger. The point is stored in the device memory.
- 5 Move to the next tree and repeat.

05 Transfer to a computer

- 1 Open pihta.fi/kartta in Google Chrome or Microsoft Edge.
- 2 Connect Pihta to the computer with a USB-C cable.
- 3 Press Connect device and select TinyUSB CDC from the list.
- 4 The points transfer to the map automatically, series by series.

USB transfer works only in Chrome or Edge, not in Safari. The map application itself works in all browsers.

06 Naming series and printing

On the map page you can name the series as you like, usually by species (e.g. A = Norway spruce, B = Serbian spruce). Press PDF to get a satellite map with a coordinate list. More detailed instructions for the map application are available directly in the app behind the Ohje (Help) button.

Technical data

Positioning	GNSS receiver (GPS L1, approx. 1575 MHz), accuracy approx. 2 m
Radio transmission	Does not transmit radio signals (receiver)
Power	3 × AA battery, approx. 40 h
Connection	USB-C (appears as TinyUSB CDC)
Display	1.3" OLED
Operating temperature	-10 °C ... +40 °C
Weight	approx. 125 g
Enclosure	3 parts: two parts ASA, one part PETG

Disposal

The device carries the crossed-out wheeled bin mark (WEEE). Electrical and electronic equipment must not be disposed of with household waste. Take the device and batteries separately to a designated collection point. This allows the materials to be recycled and environmental harm to be avoided.

Manufacturer

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This product is covered by statutory liability for defects under Finnish consumer protection law.

Conformity

Hereby, Greyford Atlas Oy declares that the radio equipment type Pihta is in compliance with Directive 2014/53/EU (RED). The full text of the EU declaration of conformity is available at: pihta.fi/ohjeet