Smartphone Single-Tree Field Capture Guide

Gen-4 Handheld Standard · rootedcarbon.com/calculator

Four practical framing rules for capturing consistent, field-calibrated single-tree measurements on any everyday smartphone.

Four Core Framing Rules

- 1. Step Back 10–15 Metres: Frame the complete tree from the ground root collar to the upper crown tip in vertical portrait orientation, holding the phone steady and level.
- 2. Keep the Lower Trunk Clear: Choose a vantage point where branches, signs, or dense brush do not block the main trunk and root flare.
- 3. Favor Overcast or Even Light: Soft diffuse cloud cover or even morning/afternoon light brings out crisp bark texture and uniform stem edges.
- 4. Use Your Native 1× Lens: Shoot with the primary 1× lens (avoiding 0.5× ultra-wide distortion or digital zoom) to preserve true-to-scale geometry.

Reading Your Output

- Species classification includes both common and botanical names alongside estimated height (m) and trunk DBH (cm).
- Aboveground dry biomass (kg), stored CO_2e (kg), and estimated annual sequestration (kg/yr) appear with explicit visibility indicators and calibrated ±% bounds.

Privacy Reminder

- Personal identifying details are stripped before transfer while essential technical capture metadata assists optical scaling; zero photos are stored by Rooted Carbon and results wipe cleanly on refresh.

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