

Field mini

90-day
free trial

The powerline survey collector in the surveyor's pocket

An Android app that collects poles, conductors and clearances with the surveyor's own total station and GNSS receiver, and hands the finished job straight to nPoles.

Weather with every sag shot

The moment a mid-span height goes in, the air temperature, solar radiation and wind at the pole are recorded against that circuit and travel with the job.

Poles measured from the ground

Reflectorless shots to the top, the crossarm and every conductor. Three sights with the total station give the pole's diameter, and a shot to the top gives its lean.

Bluetooth to the instrument

Total stations and RTK GNSS receivers connect over Bluetooth or Wi-Fi. Touch a box, take the shot, and the reading lands in it.

The map in the field, offline

Property boundaries, easements, survey marks, contours and aerial imagery as data packs that need no signal. Walk to a permanent mark with the phone guiding you.

The surveyor's calculations

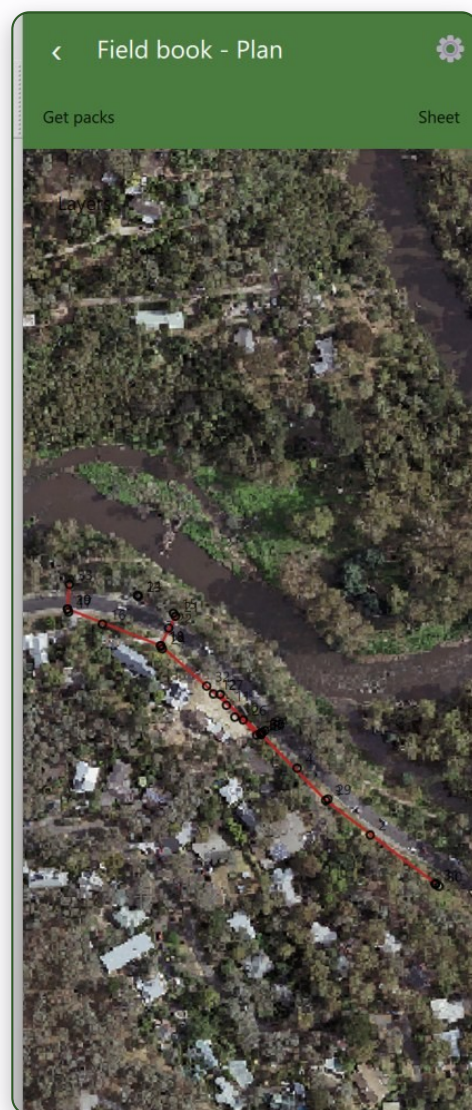
Comps, intersections, set out, swaps, stake out; split and join conductor strings; a chart finder that names the stringing chart from measured sags.

One job, everywhere, instantly

Send the job to nPoles on the desktop or to another phone in seconds, and get it straight back.

Undo, always

Every edit, shot, clone and delete can be undone, fifty steps back, even after the job has been closed and opened again.



The job on the state's aerial imagery, every point in place



Try it free for 90 days

Scan the code on an Android phone, or go to <https://portal.npoles.com/fieldmini/download>. Install, open a job, and start collecting. No account, no card. Register when you are ready to keep it.

Already an nPoles customer?

Every nPoles Field or Desktop subscription you hold earns a Field mini licence free for 12 months.

Measure it once, from the ground

Point 18 Save

Point

J1 — T-Off

Remark

Air temp 21.8

°C at the shot, as a height finder reads it with the conductor height

String 3 New

Status EXISTING Copy...

Pole

Pole no. 2 Asset ID

Top (m) 11.83 Year

Type WOOD

The air temperature is kept with the point, the way a height finder reads it with the conductor height

Sag shots with the weather that made them

When a mid-span height is entered, the air temperature, solar radiation and wind at the pole are recorded against that circuit, from the nearest weather station and the Bureau, corrected to the pole's own height. Everything needed to work the sag back to a conductor temperature is on the record, not in somebody's memory.

Why the weather matters

A measured sag only means something with the conductor temperature it was measured at, and a remark of "warm day" is not a temperature. Field mini stamps the circuit with the conditions at the moment of the shot, so the sag can be reduced to the conductor's real temperature later, in nPoles, and the stringing chart it implies can be trusted.

Point 73 Save Undo

Pole top measured: RL 1.664, 0.729 m above the point's level 0.935 (E 355522.033, N 5816732.728)

Type

Len Str

Gnd (m) Girth

Diameter at groundline, and girth round the outside

lean -0.10m(-8°11'14"), Brg:331° (approx)

Photos

Footing & hardware none recorded

Circuits & stays

— string — Ht (m) 0.840

Left Centre Right

Ins

Off

One reflectorless shot to the top gives the height above the point and the lean, with its direction

Poles measured from the ground

Reflectorless shots to the pole top, the crossarm and each conductor give heights, insulator drops and offsets in one visit, left, centre and right. Three sights with the total station give the pole's diameter, and a shot to the top gives its lean. Nothing climbed, nothing taped.

Total station — 36 William rd Undo

Instrument

SOKKIA · Bluegiga module device — Connect Disconnect

Station setup

Instrument on 1 — B1 HI (m) 1.600

Backsight 12 Orient

Oriented ✓ — back bearing 302°59'11.11"

Reflectorless Target (m), not used 0.000

Read

SD 11.954 m Hz 302°59'11" V 92°35'48"

E 355518.096 N 5816728.941 RL 1.058

× N1 — Spot 1 1 ...

Remark as found, top of kerb...

☐ Edit the point after accepting (to read heights)

Successful (job has no scale factor — 1.0 used)

A total station on Bluetooth: set up on a known point, orient, and read. The reading goes to whichever box was touched last

Total stations and GNSS over Bluetooth

The instrument connects over Bluetooth or Wi-Fi, an RTK receiver with NTRIP corrections and its antenna height. Touch the pole top, a circuit height or a stay on the form, take the shot, and the reading lands there. A base station of your own is supported too.

The centre of the pole

A pole's position is the centre of the pole, not the point where the prism was held against it. Touch the rover to two faces across the pole, or take three sights with the total station, and the app works out the centre and the diameter; a shot to the top gives the lean. The plan shows the pole where it actually stands.

Know where you stand

Dataset layers, switched on when you need them

Survey marks, property boundaries, road easements, street names, cadastral points, coastline and contours are each a layer in the plan, on or off with a tap, drawn over the job. Underneath, OpenStreetMap or the state's own aerial imagery.

Downloaded once, no signal needed

Data packs bring the layers onto the phone before you leave the office: Victoria, New South Wales, Queensland, Tasmania and the ACT, New Zealand and Switzerland, and the survey marks. Out of range, everything still draws.

Find the permanent mark

Tap a survey mark or a cadastral corner and walk to it with the phone's own GNSS guiding you: distance and direction, updated every second, to the nail in the footpath. The same guide stakes out any point in the job.

Start at the address

Type the address of the job and the app sets the datum and zone, frames the plan there and names the distributor whose area it is in, interstate too, so the right company profile and its conductors and poles are loaded before the first shot.

Elsewhere, still on the map

National base maps and aerial imagery for 17 countries, Swiss survey marks for the whole country, and interstate marks and boundaries when the work is over the border.

Real levels from the receiver

A data pack carries the geoid grid for the job's datum: AUSGeoid2020 for AHD, NZGeoid2016 in New Zealand, CHGeo2004 in Switzerland. A GNSS height becomes a real level on the phone, antenna height taken off, and the datum, zone and scale factor are set once for the job.

Where it comes from

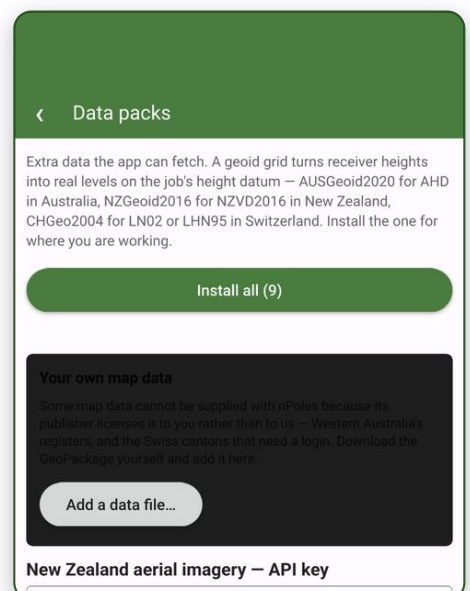
Vicmap and SMES in Victoria, each state's published survey marks and cadastre, LINZ in New Zealand, swisstopo in Switzerland, OpenStreetMap everywhere. The packs are rebuilt as the authorities publish, and the phone tells you when a newer one is ready.

The same map as the desktop

The job file is nPoles' own format. A job started on the phone opens on the desktop with the same points, strings, marks and imagery, ready for the design, the clearances and the pole loads.



The pole line on the aerial layer, every point numbered



Data packs: geoid grids, company profiles and map layers, installed in one tap and kept up to date

Calculate, share, undo

Comps and intersections, on the phone

From any point: bearing and distance to another; chainage and offset from a line; radiate by bearing and distance; set out along a line and offset from it. Intersect two bearings, two distances, a bearing and a distance, two lines, or a bearing onto a line, and keep the answer as a point. Typed distances are ground, read ones are grid, reduced the way a total station shot is.

Points and strings

Clone a point, swap two numbers or two positions, back a point up before a change, stake it out. Split and join conductor strings, check their order along the line, see every span and its mid-span height in the string editor, and let the chart finder name the stringing chart from the sags you measured.

One job, everywhere, instantly

Pair the phone with nPoles on the desktop or with another phone and send the job across in seconds. It comes back with the changes. The same job file end to end, nothing re-typed, nothing e-mailed.

Undo, always

Every edit, shot, clone, delete, swap and batch add can be undone from the header, fifty steps back, and the history survives closing the job. A wrong reading on a wet afternoon costs one tap.

An idea or a bug, straight from the phone

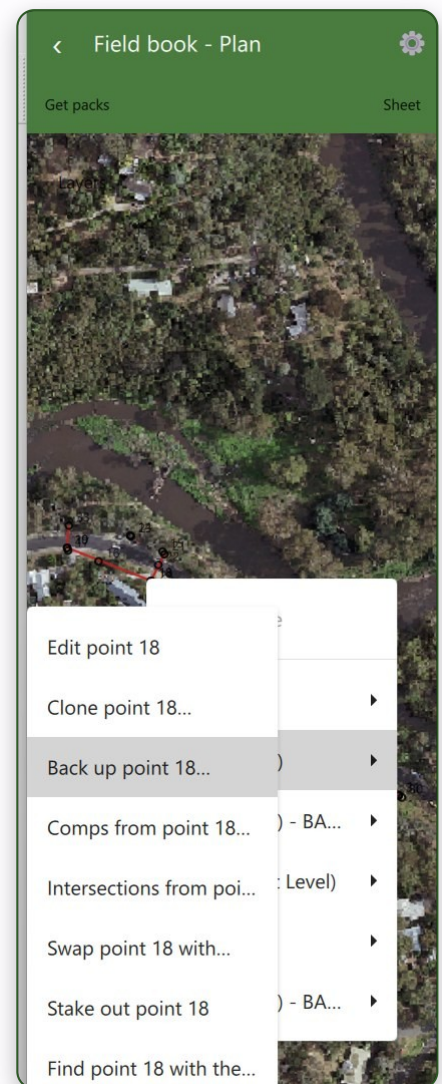
Settings has a report button: describe it, attach screenshots, send. The report lands with nPoles, and the answer comes back to the phone when it is done.

Works with

Sokkia total stations, and Leica over GeoCOM, on Bluetooth or Wi-Fi. RTK GNSS receivers that speak NMEA over Bluetooth, with NTRIP corrections through the phone, tilt compensation where the receiver reports it, and a base station of your own. LandXML and CSV in and out for any controller. Android 9 or later, phone or tablet.

What the office gets

The job arrives in nPoles as its own file: points, circuits, strings, photos, the weather on every sag shot, the pole tops and leans. Straight into the design, the clearances, the pole loads and the CAD export. One visit, one file, nothing re-typed.



Tap a point on the plan: edit, clone, back up, comps, intersections, swap, stake out, find it with the phone



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