

CPE Auto Test Tool

User Manual

Version v1.0.6 · 2026-10-11

Compare the speed and signal of two (or more) CPEs in the field. The software reads the network parameters from each device's web page (RSRP, SINR, Band, PCI, cell info), runs Speedtest, records results per angle, shows the **Test unit** and the **Ref unit** side by side, and builds Excel / PDF reports in one click. This manual is written as "follow along and it works" - Chapter 1 is enough to get started.

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1. Quick start (3 steps)

This chapter takes you through your first speed test in about 10 minutes.

Before you start

Two devices (the Test unit and the Ref unit), network cables, a 64-bit Windows 10 / 11 laptop and your license code. Activation, speed tests and update checks need an internet connection.

1 Install

- Double-click **CPE-AutoTestTool-Setup-1.0.6.exe** (the number is the version) and wait a few seconds. No administrator rights are needed. A "CPE Auto Test Tool" shortcut appears on the desktop and in the Start menu.
- If Windows shows "Unknown publisher", click **More info → Run anyway**.

2 First launch: accept the terms and activate

- Read the **terms**: scroll to the last item, tick **I have read and agree to the terms above**, then click **Agree & continue**.
- Enter your **license code** (4 groups of 5 characters, case-insensitive, you can paste the whole code) and click **Activate**. A code can be activated only once and is bound to this computer; later launches need no activation.

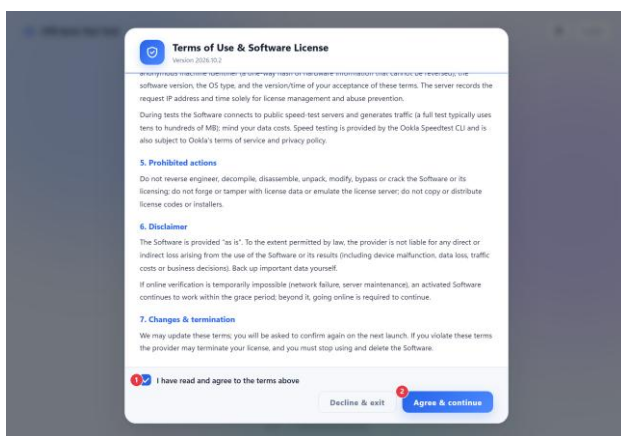


Figure 1 Terms: scroll to the end before you can tick and continue

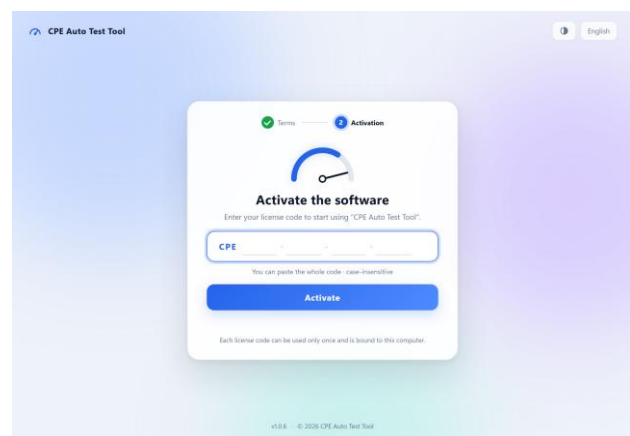


Figure 2 Enter the license code to activate

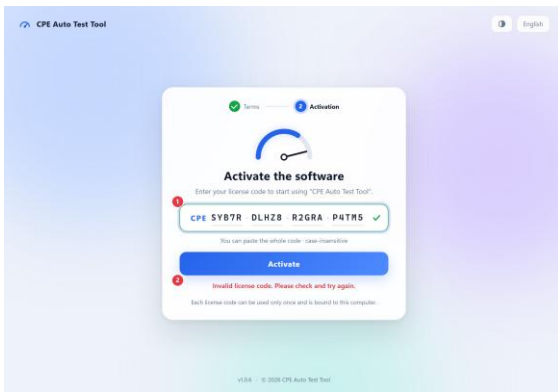


Figure 3 What you see when the code is invalid (1 code field, 2 message)

Invalid license code? Check for typos first (the format is checked as you type). If it still says the code is invalid, contact the provider.

License expired? The page says "Your license has expired. Please activate with a new code." - activate again with a new code.

3 Connect a device and test

- Connect the Test unit to the computer with a cable, click **Connect**, then click **Start test**. The full workflow is in Chapter 3.

2. The screen at a glance

This chapter names the areas of the main screen; the later chapters use these names again and again.

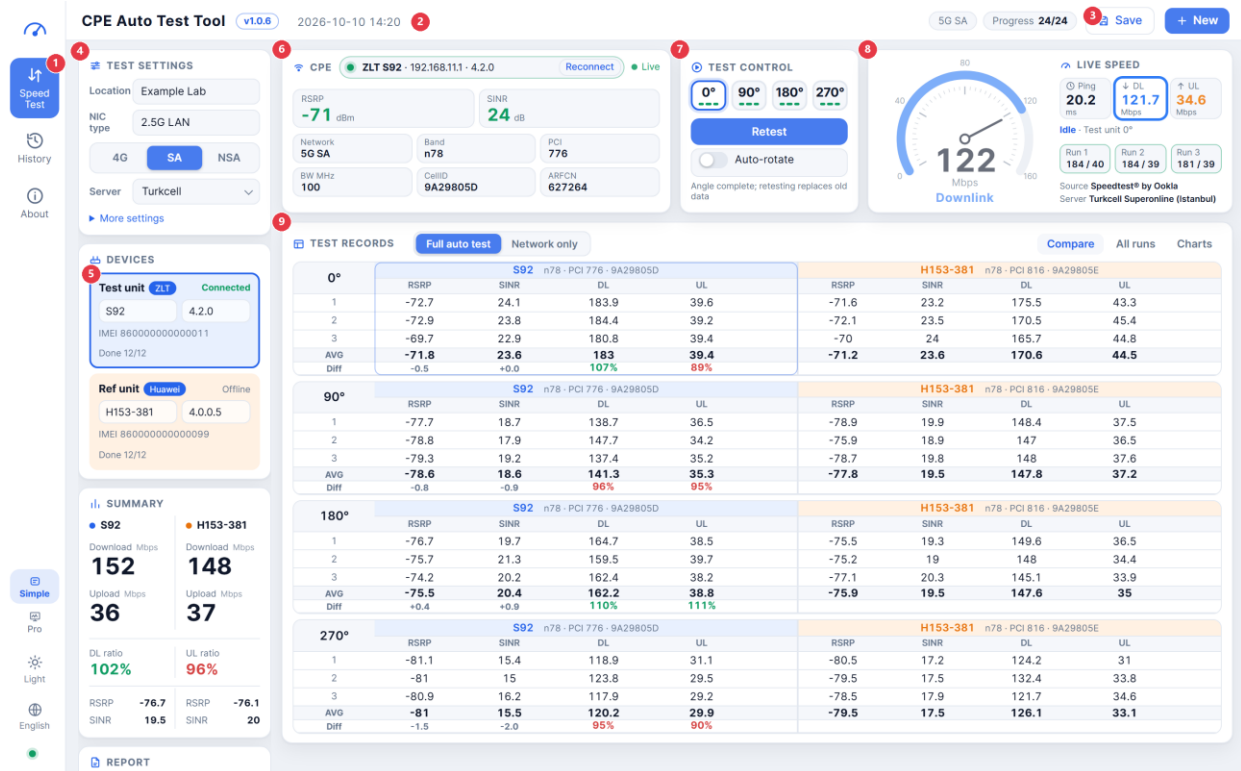


Figure 4 The main screen (numbers match the table below)

- | | | | |
|----------|--|----------|--|
| 1 | Speed Test: the current test (there are also History and About) | 6 | CPE: the connected device and its live signal |
| 2 | Test name: named by date and time; click to rename | 7 | Test control: pick an angle, start the test, auto-rotate |
| 3 | Save (Ctrl+S) and New: top right | 8 | Live speed: the gauge and the readings of every run |
| 4 | Test settings: location, NIC type, network type, server (left column; Summary and Report are below) | 9 | Test records: the Compare table by angle (also All runs and Charts) |
| 5 | Devices: Test unit / Ref unit cards; click a card to choose the one to test | | |

Left navigation and top bar

Name	What it does
Speed Test	The current test: run speed tests, read results and build reports here
History	Past tests: view, load and continue, restore, merge, delete (Chapter 7)
About	Version, updates, this manual, logs and feedback (Chapter 8); a red dot appears when a new version is available

Name	What it does
Simple / Pro	Interface style; Pro mode also shows Band, PCI, CellID, Server and Ping columns and a status bar (Chapter 9)
Light / Dark / Auto	Color theme
中文 / English	Interface language, applied immediately
Save	Saves a restore point (Ctrl+S); restore it later from History
New	Starts a new test with the settings of the last one

3. Testing with this computer

The usual way: the software runs Speedtest for download / upload / latency and reads the device's signal and cell info at the same time, so one click produces one complete record.

Before you start

Test over a cable: let the computer use only this cable for internet (turn Wi-Fi off) and close downloads, video and cloud sync, otherwise results fluctuate.

Use the same server for both units: keep the default "Auto"; after the first test the software pins the server and uses it for the other unit too.

Closing the window quits the program; do not close it while a test or a report is running.

3.1 Fill in the test settings

1 Fill in the test info, network type and server

- **Location:** free text, written into the report and History (optional).
- **NIC type:** filled in automatically when you connect (for example 2.5G LAN, 5G WIFI); you can edit it or pick from the list.
- **4G / SA / NSA:** 4G and SA record one RSRP / SINR set per run; **NSA** records 4G and 5G RSRP, SINR, Band and PCI separately. The screen warns you when the device's real network differs from your choice.
- **Server:** keep "Auto"; to choose by hand open the list (it refreshes every time and shows the distance).

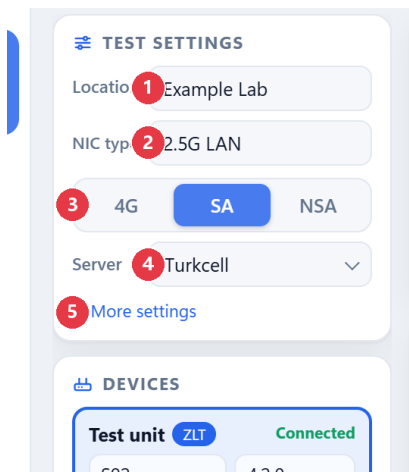


Figure 5 Test settings

- ① Location
- ② NIC type
- ③ Network type: 4G / SA / NSA
- ④ Speed-test server
- ⑤ More settings (opens the panel shown next)

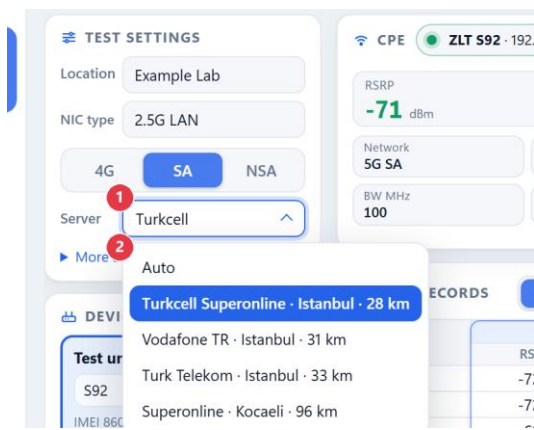


Figure 6 The server list

- ① Open the list; it refreshes every time.
- ② Each entry is name · city · distance. With "Auto", the software measures the latency of the nearest servers before the first test, picks the lowest and keeps it, so both units are comparable.

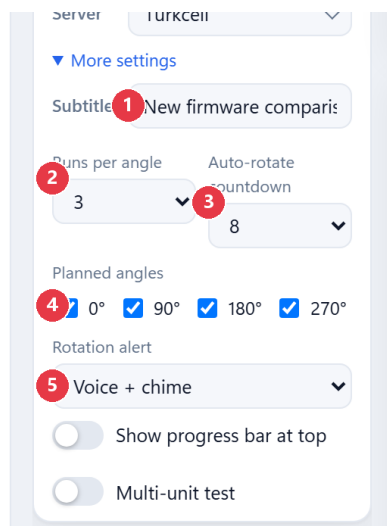


Figure 7 More settings

- ① Subtitle: shown under the chart title in the report (optional).
- ② Runs per angle: 3 by default, 1–10 allowed.
- ③ Auto-rotate countdown: seconds counted down after each angle when auto-rotate is on (8 s by default).
- ④ Planned angles: 0° / 90° / 180° / 270° by default; untick the ones you do not need (they can still be tested by hand).
- ⑤ Rotation alert: Voice + chime / Two beeps / Silent.
- ⑥ Show progress bar at top (see Chapter 11).
- ⑦ Multi-unit test (see Chapter 5).

3.2 Connect the Test unit

2 Connect the Test unit

- Cable the Test unit to the computer and click **Connect** in the **CPE** card (the list next to it is the network adapter: **Auto** / Wired 1–3 / Wi-Fi; choose one by hand only if the device is not found and the computer has several adapters).

- When connected, the CPE card shows the model, IP, firmware and live signal, and the "Test unit" card on the left is filled with model, firmware and IMEI.

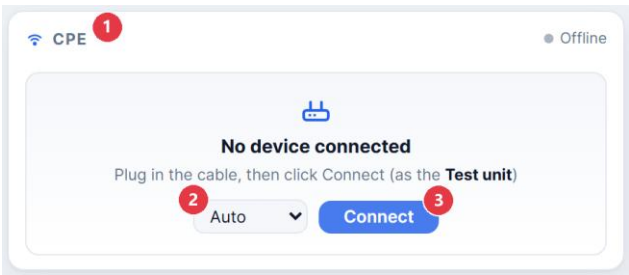


Figure 8 Not connected: click Connect (1 title, 2 adapter, 3 Connect)

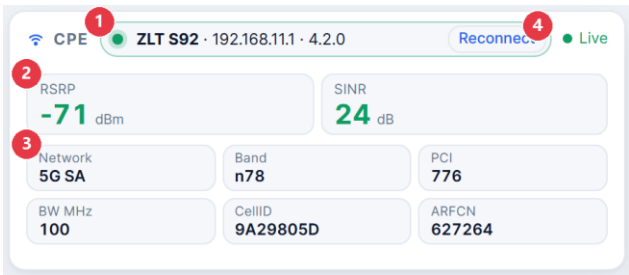


Figure 9 Connected: model and live signal (1 device bar, 2 RSRP / SINR, 3 network info, 4 Reconnect)

Signal colors show quality: green good, orange fair, red poor. Use **Reconnect** after the device restarted or the cable was re-plugged.

Prompts you may see while connecting

Prompt	What to do
Needs the web login (Huawei, ZLT, etc.)	Enter the device's web account and password and click Log in & connect . It is needed once and stored on this PC. Do not keep trying wrong passwords : repeated failures lock the device login.
The connected device is not the Test unit	You plugged in a different unit (for example the registered Ref unit). Swap in the Test unit and click Connect again.
The connected device is already the Ref unit...	The same device is already registered as the other role. Swap the device, or click "use it as the Test unit anyway (self-test)" in the message.
No device connected / device not found	Check the cable and power; make sure the computer got an address from the device through this cable; click Connect again.
A device was found, but the software does not recognise it yet	See Chapter 10.

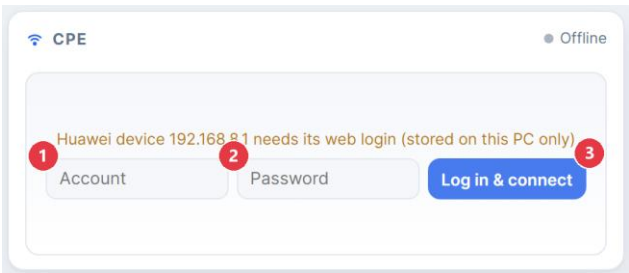


Figure 10 The device needs its web login

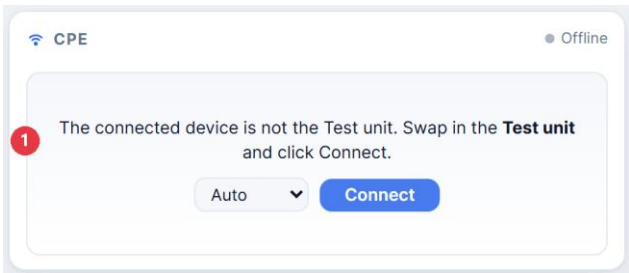


Figure 11 The connected device is not the one you selected

3.3 Pick an angle and start

3 Pick an angle and start the test

- The small bars under an angle button show how many runs it already has. Rotate the device to that angle, wait until the signal is stable, then click **Start test**.
- For a complete angle the button becomes **Retest** (it replaces the old data of that angle and asks first); for a partial angle it reads **Continue (N left)**.

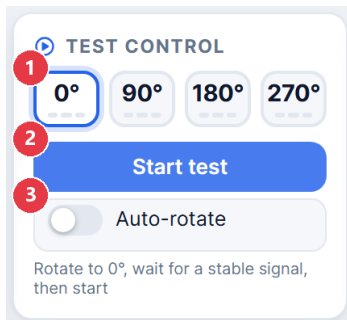


Figure 12 Test control

① Angle buttons: click to choose the angle.

② Start test.

③ The **Auto-rotate** switch (see 3.4).

The grey line under the button tells you what to do next.

During a test the gauge shows the speed live, and the right side shows latency / download / upload and the progress of every run. **Do not move the device while testing**; the angle buttons and device cards are greyed out. A run takes about a minute; when a group finishes you hear a chime and see "Group done: DL ... / UL ... Mbps". Click **Stop** to cancel (auto-rotate stops too).

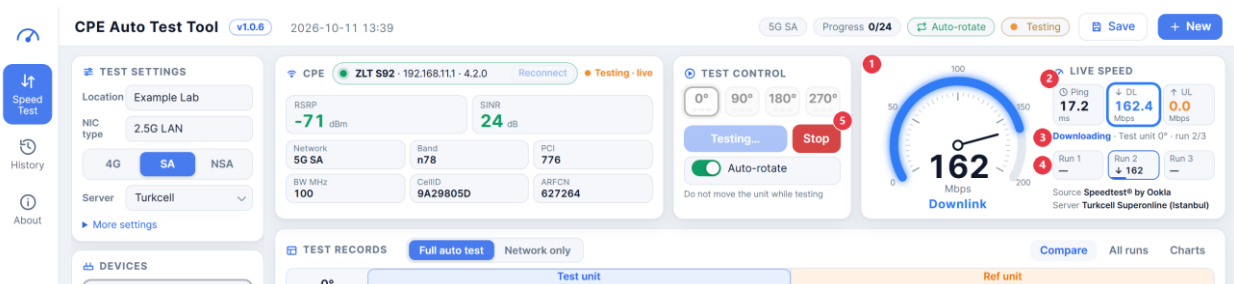


Figure 13 During a test (1 gauge, 2 latency / download / upload, 3 current stage, 4 progress of each run, 5 Stop)

Tip

While testing, the latency shown is the median of the samples so far; after the run the gauge and the table show the same number.

3.4 Rotating: manual and automatic

4 Manual rotation: finish an angle, rotate, start again

- With auto-rotate off, the cursor jumps to the next incomplete angle when one is done; rotate the device and click **Start test**.

5 Auto-rotate (recommended): test all angles in one go

- Turn **Auto-rotate** on and start once. After each angle you get an alert and a countdown "Rotate the Test unit to 90°"; when it reaches zero the next angle starts by itself.
- During the countdown click **Start now** (you are ready) or **Cancel** (you want to control it by hand).

- If a run fails, auto-rotate pauses; check and continue by hand.

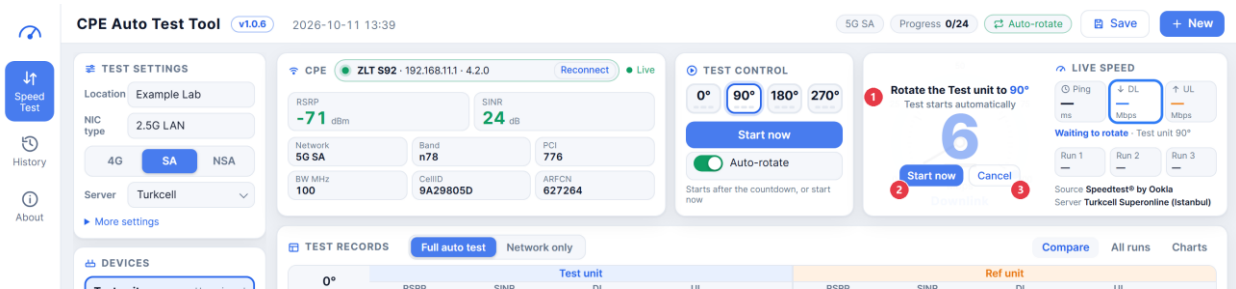


Figure 14 The rotation countdown (1 which angle to rotate to, 2 Start now, 3 Cancel)

Pick the alert in More settings → **Rotation alert**: Voice + chime, Two beeps or Silent. Even without auto-rotate you hear a short chime after every run; choose "Silent" to mute everything.

3.5 Swap in the Ref unit and test the same way

6 Swap in the Ref unit

- When all angles of the Test unit are done the software says "All angles of the Test unit are done - swap in the Ref unit and click Connect". Plug in the Ref unit, click its **Ref unit** card on the left, then click **Connect**.
- The steps are exactly the same. **Keep the Ref unit's angles and runs the same as the Test unit's** so the two are comparable.
- When everything is done you see "All angles done - you can build the report now".

3.6 Read the results and fix data

7 Read the results

- In **Test records** every angle has a block: the Test unit on the left, the Ref unit on the right. Each run shows **RSRP, SINR, DL and UL**, followed by **AVG** (average) and the **Diff** row (the ratio row).
- The **Diff** row: DL / UL is Test unit ÷ Ref unit as a percentage ($\geq 100\%$ green, $< 100\%$ red); RSRP / SINR show the difference.
- The block header shows the model and the cell info (Band · PCI · CellID).

TEST RECORDS

1 Full auto test

Network only

2 Compare

All runs

Charts

3

0°

S92 n78 - PCI 776 - 9A29805D

H153-381 n78 - PCI 816 - 9A29805E

	RSRP	SINR	DL	UL	RSRP	SINR	DL	UL
1	-72.7	24.1	183.9	39.6	-71.6	23.2	175.5	43.3
2	-72.9	23.8	184.4	39.2	-72.1	23.5	170.5	45.4
3	-69.7	22.9	180.8	39.4	-70	24	165.7	44.8
AVG	-71.8	23.6	183	39.4	-71.2	23.6	170.6	44.5
Diff	-0.5	+0.0	107%	89%				

5

6

90°

S92 n78 - PCI 776 - 9A29805D

H153-381 n78 - PCI 816 - 9A29805E

	RSRP	SINR	DL	UL	RSRP	SINR	DL	UL
1	-77.7	18.7	138.7	36.5	-78.9	19.9	148.4	37.5
2	-78.8	17.9	139.5	34.2	-75.9	18.9	147	36.5
3	-79.3	19.2	137.4	35.2	-78.7	19.8	148	37.6
AVG	-78.6	18.6	138.5	35.3	-77.8	19.5	147.8	37.2
Diff	-0.8	-0.9	94%	95%				

4

180°

S92 n78 - PCI 776 - 9A29805D

H153-381 n78 - PCI 816 - 9A29805E

	RSRP	SINR	DL	UL	RSRP	SINR	DL	UL
1	-76.7	19.7	164.7	38.5	-75.5	19.3	149.6	36.5
2	-75.7	21.3	159.5	39.7	-75.2	19	148	34.4
3	-74.2	20.2	162.4	38.2	-77.1	20.3	145.1	33.9
AVG	-75.5	20.4	162.2	38.8	-75.9	19.5	147.6	35
Diff	+0.4	+0.9	110%	111%				

270°

S92 n78 - PCI 776 - 9A29805D

H153-381 n78 - PCI 816 - 9A29805E

	RSRP	SINR	DL	UL	RSRP	SINR	DL	UL
1	-81.1	15.4	118.9	31.1	-80.5	17.2	124.2	31
2	-81	15	123.8	29.5	-79.5	17.5	132.4	33.8
3	-80.9	16.2	117.9	29.2	-78.5	17.9	121.7	34.6
AVG	-81	15.5	120.2	29.9	-79.5	17.5	126.1	33.1
Diff	-1.5	-2.0	95%	90%				

Figure 15 The Compare table (1 Full auto test / Network only, 2 Compare / All runs / Charts, 3 angle, 4 an edited value, 5 average, 6 ratio)

- **Edit by hand:** click a value and type; press Enter to confirm. Edited cells turn yellow and show the original value on hover.
- **Retest / clear one run:** hover over the end of a row;  retests this run (the device must be connected),  clears it.
- **Clear or swap angles:** hover over a unit's angle header; drag the grip on the left onto another angle of the same unit to swap them (for data recorded at the wrong angle), and use  on the right to clear that angle. Other units are not affected.
- **Undo / redo:** Ctrl+Z undoes, Ctrl+Y (or Ctrl+Shift+Z) redoes - manual edits, clears, retests, swaps and test results, up to 60 steps. Not available while testing.

1		S92 n78 - PCI 776 - 9A29805D				2	
		RSRP	SINR	DL	UL		
		-72.7	24.1	183.9	39.6		
		-72.9	23.8	184.4	39.2		
		-69.7	22.9	180.8	39.4		
		-71.8	23.6	183	39.4		
		-0.5	+0.0	107%	89%		

Figure 16 Angle header: the grip on the left swaps angles by dragging (1), the  on the right clears the angle (2)

- **All runs:** one row per run with Band, PCI, CellID, ARFCN, server, Ping and more; filter by unit, and tick "More columns" to add RSRQ / RSSI / network / BW / TAC.
- **Charts:** a download and an upload bar chart with every angle and ALL (average of all angles) side by side, ratios on top.

TEST RECORDS

Full auto testNetwork only

CompareAll runsCharts

ShowAllMore columns (RSRQ / RSSI / network / BW / TAC)

Unit	Angle	Run	Time	Band	PCI	RSRP	SINR	CellID	ARFCN	Server	Ping	DL	UL	Source
Test unit	0°	1	10-10 14:21	n78	776	-72.7	24.1	9A29805D	627264	Turkcell Supero...	19.2	183.9	39.6	Auto ×
Test unit	0°	2	10-10 14:23	n78	776	-72.9	23.8	9A29805D	627264	Turkcell Supero...	18.1	184.4	39.2	Auto ×
Test unit	0°	3	10-10 14:24	n78	776	-69.7	22.9	9A29805D	627264	Turkcell Supero...	17.4	180.8	39.4	Auto ×
Test unit	90°	1	10-10 14:26	n78	776	-77.7	18.7	9A29805D	627264	Turkcell Supero...	21.6	138.7	36.5	Auto ×
Test unit	90°	2	10-10 14:27	n78	776	-78.8	17.9	9A29805D	627264	Turkcell Supero...	20.9	139.5	34.2	Auto ×
Test unit	90°	3	10-10 14:29	n78	776	-79.3	19.2	9A29805D	627264	Turkcell Supero...	20.5	137.4	35.2	Auto ×
Test unit	180°	1	10-10 14:31	n78	776	-76.7	19.7	9A29805D	627264	Turkcell Supero...	18.4	164.7	38.5	Auto ×
Test unit	180°	2	10-10 14:32	n78	776	-75.7	21.3	9A29805D	627264	Turkcell Supero...	17.4	159.5	39.7	Auto ×
Test unit	180°	3	10-10 14:34	n78	776	-74.2	20.2	9A29805D	627264	Turkcell Supero...	20.4	162.4	38.2	Auto ×
Test unit	270°	1	10-10 14:35	n78	776	-81.1	15.4	9A29805D	627264	Turkcell Supero...	21	118.9	31.1	Auto ×
Test unit	270°	2	10-10 14:37	n78	776	-81	15	9A29805D	627264	Turkcell Supero...	17.3	123.8	29.5	Auto ×
Test unit	270°	3	10-10 14:39	n78	776	-80.9	16.2	9A29805D	627264	Turkcell Supero...	19.3	117.9	29.2	Auto ×
Ref unit	0°	1	10-10 14:40	n78	816	-71.6	23.2	9A29805E	627264	Turkcell Supero...	19.6	175.5	43.3	Auto ×

Figure 17 All runs

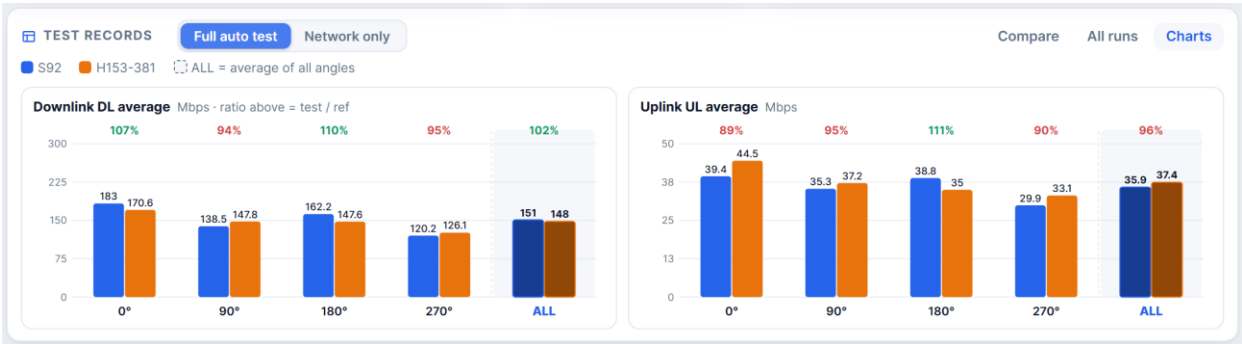


Figure 18 Charts

SUMMARY

S92

H153-381

Download Mbps

151

Download Mbps

148

Upload Mbps

36

Upload Mbps

37

DL ratio

102%

UL ratio

96%

RSRP

-76.7

RSRP

-76.1

SINR

19.5

SINR

20

Figure 19 Summary

Test unit on the left, Ref unit on the right, each with average download and upload; below are the overall DL / UL ratios and the average RSRP / SINR (four values for NSA).

The Summary is in the left column; scroll down to see it.

4. Network only

Use this when speeds come from another tool (a phone, a dedicated tester, a site requirement) but you still need the cell and signal info of every test recorded accurately. The software **does not run a speed test**; one click writes the current network info into a run and you type the speeds yourself.

1 Switch to "Network only"

- Next to the **Test records** title, choose **Network only** in the **Full auto test | Network only** switch. **Start test** turns grey and a note says "Network only: click Write in the table; enter speeds by hand".

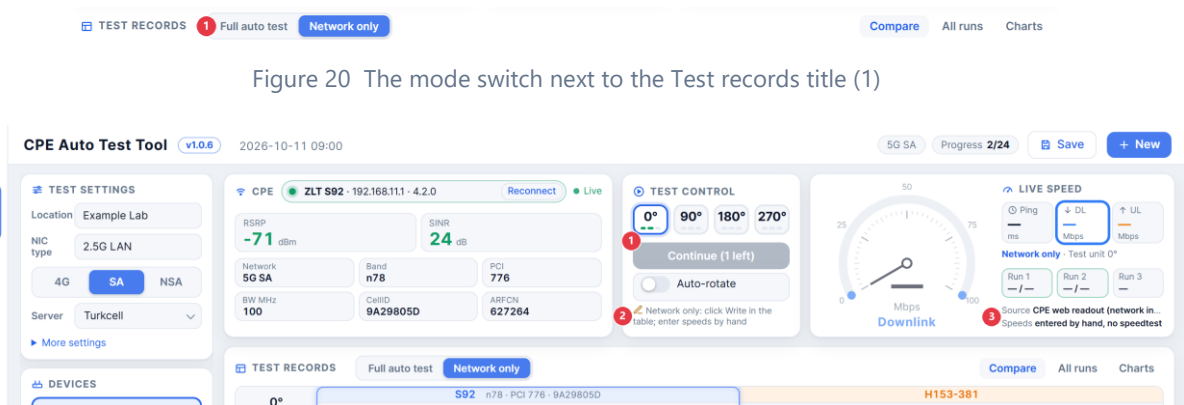


Figure 20 The mode switch next to the Test records title (1)

2 Connect, pick an angle and click Write

- Connect the device and pick the angle as usual. Then click the **Write icon at the end of the run's row**: the current signal and cell info is written to that row (no speeds). "Runs per angle" decides how many rows there are; click once per row. The Ref unit works the same way.

3 Measure with another tool, then type the speeds in

- Click the **DL / UL** cells of the row and type; yellow means entered by hand. AVG, ratios, Summary, charts and reports are calculated as usual.

0°	S92 n78 - PCI 776 - 9A29805D				RSRP
1	RSRP	SINR	DL	UL	
2	-71.5	23.6	178.2	40.8	
3	-72	23.2	181.6	41.3	
AVG	-71.8	23.4	179.9	41	
Diff					

Figure 22 Rows with network info written and speeds typed in (1 Write icon, 2 typed speeds)

Tip

You can mix both modes in one test: just flip the switch, nothing is lost. In the detailed report the "source" column marks these rows as network-only or manual.

5. Multi-unit test

Compare several Test units in one test: up to **4 Test units + 1 Ref unit**; every Test unit is compared with that single Ref unit.

1 Turn on Multi-unit test

- Open **More settings**, turn on **Multi-unit test** and choose the total number of units next to it: **3 / 4 / 5 units** (including the Ref unit).
- The device list shows **Test unit 1, Test unit 2 ...**, each with its own color (1 blue, 2 green, 3 purple, 4 pink, Ref unit orange). A unit that already has data is never removed when you reduce the count; start a new test first.

2 Connect and test every unit in turn

- Click a unit's card to select it, connect and test as in Chapter 3; then swap in the next unit.
- The Compare table shows all units side by side with the **Ref unit first**; every Test unit's ratio row is relative to the Ref unit.

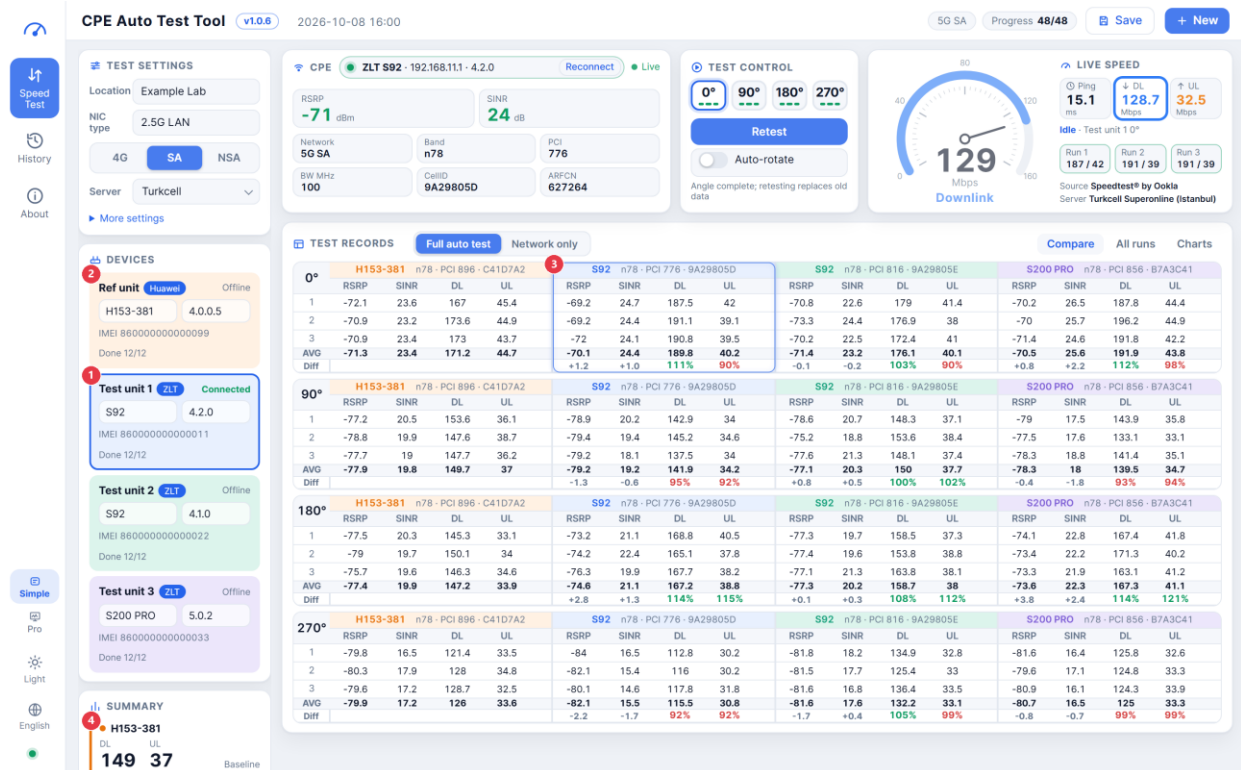


Figure 23 Comparing 4 units (1 Test unit 1, 2 Ref unit, 3 each unit's header, 4 per-unit DL / UL ratio against the Ref unit in the Summary)

Tip

Pro mode has many columns; scroll sideways when the table is wider than the window. Three units fit at 100% zoom.

6. Build a report

When you are done (or have a partial test), click **Build report** in the **Report** block of the left column.

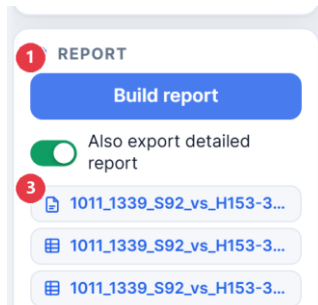


Figure 24 The Report block

① **Build report**: creates an **Excel** workbook (with charts; the SA or NSA sheet is chosen automatically) and a one-page **PDF**.

② **Also export detailed report**: one more Excel file with the details of every run (Band, PCI, cell, server, Ping), laid out like the on-screen detail view.

③ **File list**: click to open; all files are saved in this test's folder.

A report cannot be built without data. If an angle has more than 3 runs, the table shows the first 3, while **averages, ratios and charts use all runs**.

本表格适用于4G或者5G SA网络下的CPE对比测试。

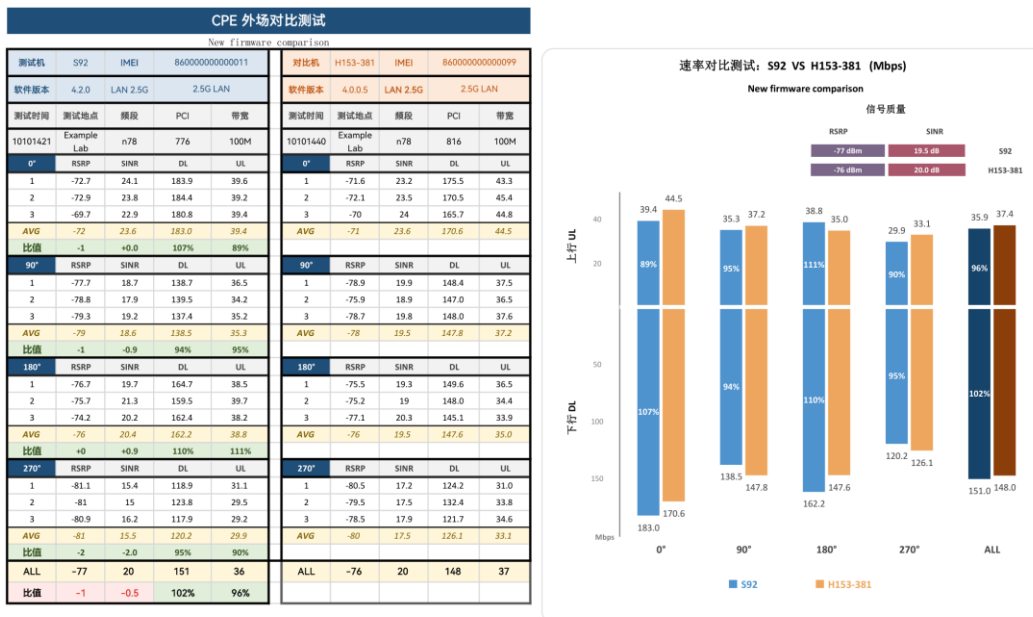


Figure 25 The generated PDF report (the Excel report has the same content and can be edited)

- The last row of the report is **ALL** (the average of all angles) and its ratio.
- Multi-unit tests: one sheet per Test unit (table and charts), plus a **Summary** sheet; the detailed report also has one sheet per unit and the PDF contains all sheets.
- File names look like MMDD_HHMM_TestModel_vs_RefModel. The PDF is exported by Microsoft Excel on this computer; without Excel only the Excel file is produced.

7. History

All past tests are here: view them, load one to continue, restore a save point, merge several into a summary, or delete. A test without any speed data is not saved and never appears here.

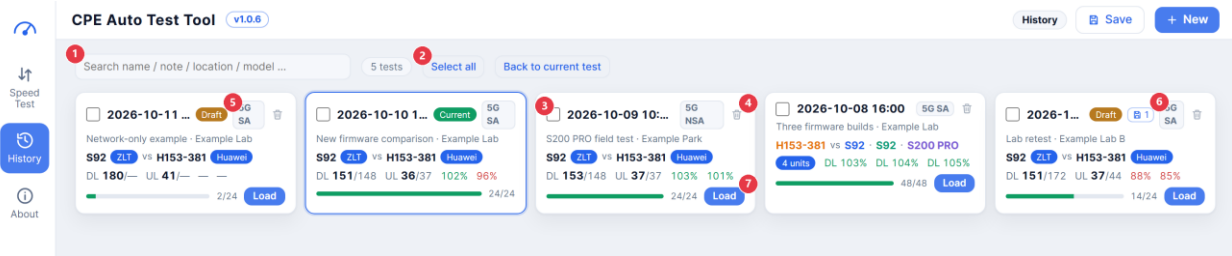


Figure 26 History (1 search, 2 Select all, 3 tick box, 4 delete, 5 Draft tag, 6 number of save points, 7 Load)

What a card shows

- The name (date and time, or the name you gave it), a **Current** tag (the one in use) or **Draft** tag (not finished), the number of save points and the network type;
- Subtitle · location, Test unit vs Ref unit models, average download / upload and ratios, and progress (done / total).
- **Search** by name, note, location or model.

Common actions

I want to...	How
See the details	Click the card; a panel slides in with the Compare table / All runs / Charts, save points and report files.
Load and continue	Click Load on the card or Load & continue in the details; you return to Speed Test and carry on.
Restore a save point	In the details click Restore next to a save point and confirm: a new test is created and opened, the original stays untouched. Save points are created with Save (Ctrl+S).
Delete	Click the trash can on the card and confirm. It cannot be undone and also deletes that test's report files. The test in use cannot be deleted.
Delete several / merge	Tick several cards; N selected , Clear , Delete selected and Merge into summary appear; Select all ticks everything.

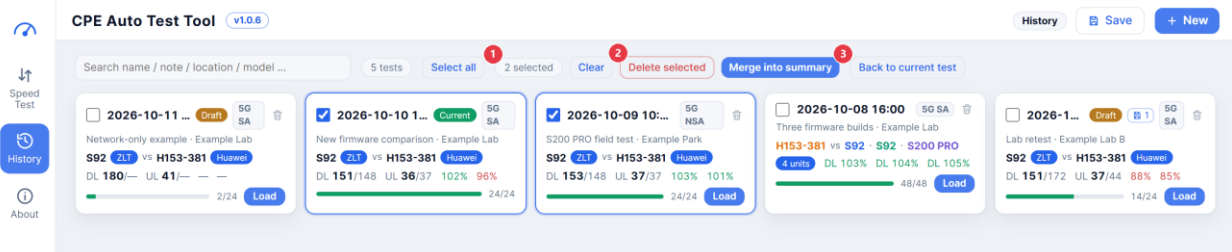


Figure 27 The action bar after ticking cards (1 count, 2 Delete selected, 3 Merge into summary)

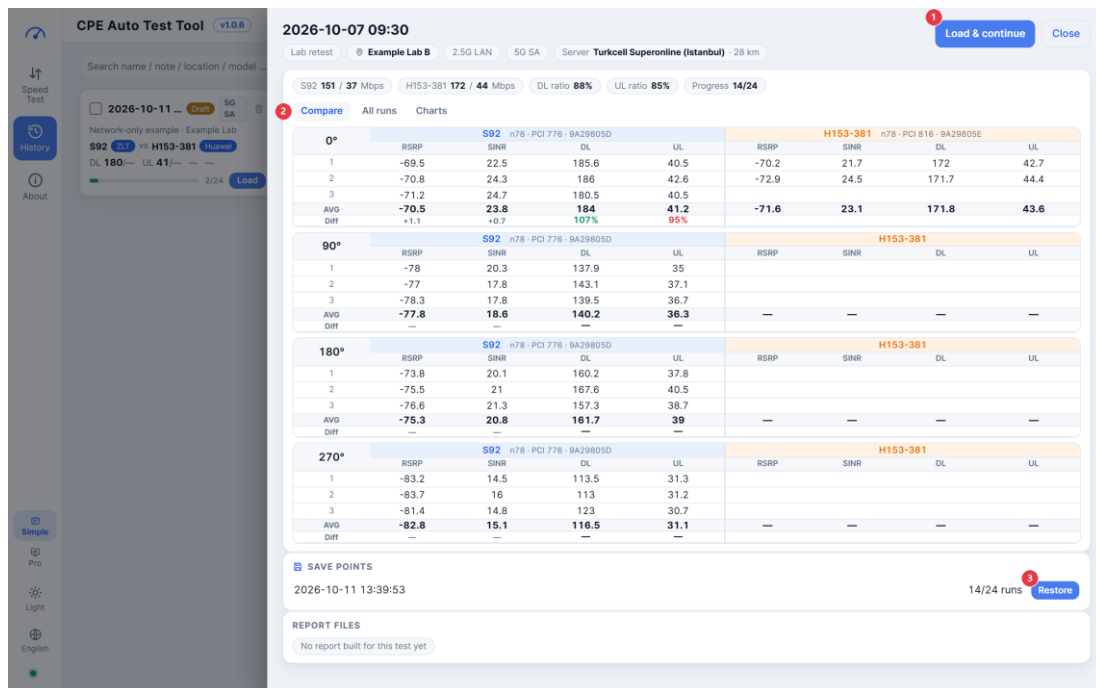


Figure 28 The details panel (1 Load & continue, 2 view tabs, 3 Restore)

Merging into a summary workbook

Merge several field tests into one workbook: the first sheet is **Summary**, followed by one sheet per test named date-location-Ref PCI.

- Tick the tests and click **Merge into summary**. The selected tests must have **identical Test unit and Ref unit names** and the same number of Test units.
- If names differ, edit them in the dialog (or click **Use the first test's names for all**) and click **Save & check**; when they match click **Export**, optionally with **Also export PDF**.

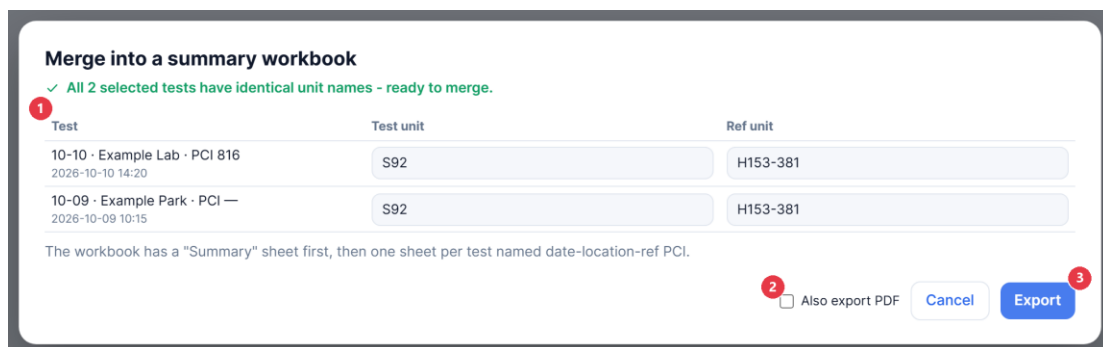


Figure 29 Merging into a summary (1 tests and unit names, 2 Also export PDF, 3 Export)

Save and New

- **Save** (top right or Ctrl+S): stores a restore point against mistakes. The data itself is saved automatically after every run.
- **New**: starts a new test with the settings of the last one (location, server, angles, runs...). If the current test is unfinished you are asked: **Keep draft & start new** (load it later from History), **Discard & start new** or **Cancel**.

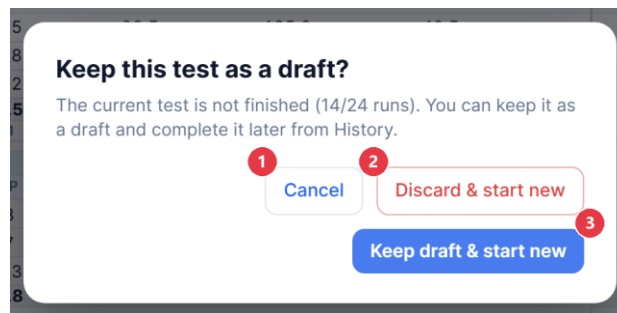


Figure 30 The confirmation when you click New on an unfinished test (1 Cancel, 2 Discard, 3 Keep draft)

8. The About page

Click **About** on the left: see the version and license status, check for updates, open this manual, export / upload logs and send feedback.

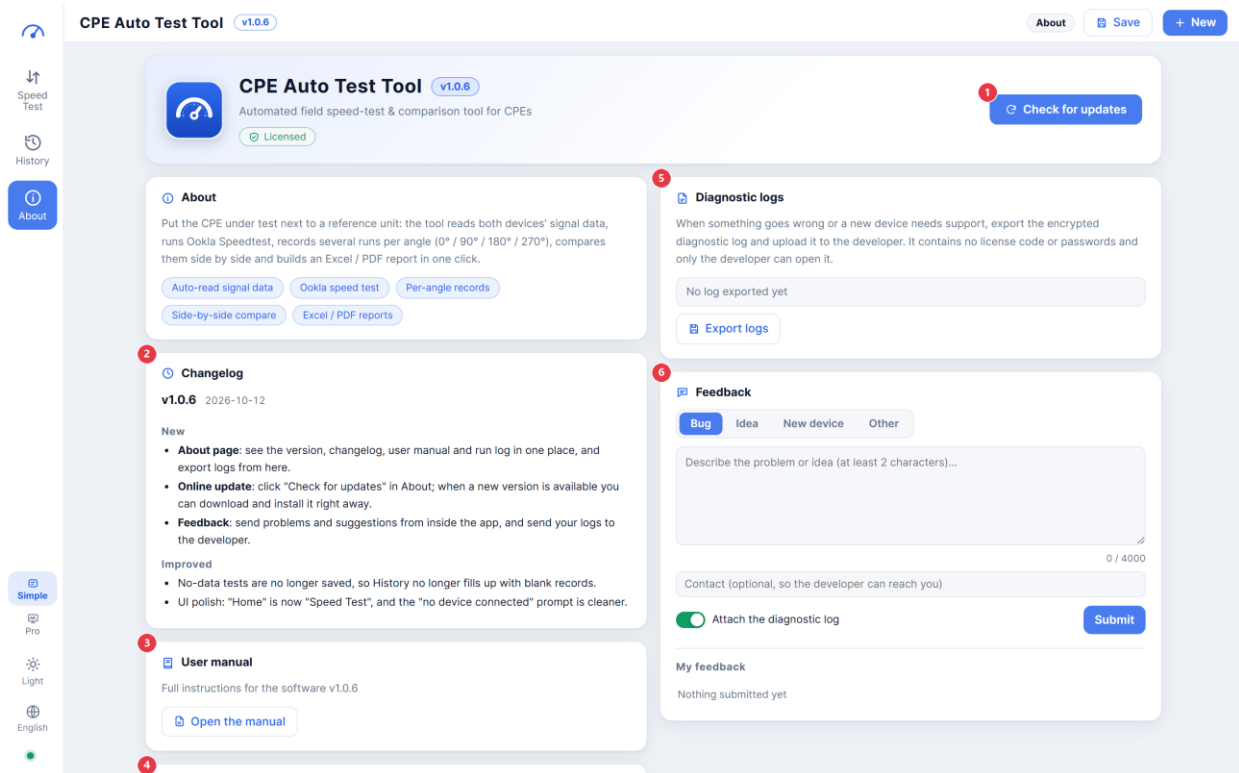


Figure 31 The About page (1 Check for updates, 2 Changelog, 3 User manual, 4 Run log, 5 Diagnostic log, 6 Feedback, 7 data and log folders)

Check for updates

- Click **Check for updates**; the software only looks online when you ask. It says "You are up to date", or shows the new version, its size and notes, and a red dot appears on the About icon.
- Click **Download & install** to download in the background (cancelable). When the download is verified, click **Install & restart**: the software saves the current test, closes, and reopens when the installation finishes.
- If the update fails, click **Retry**.

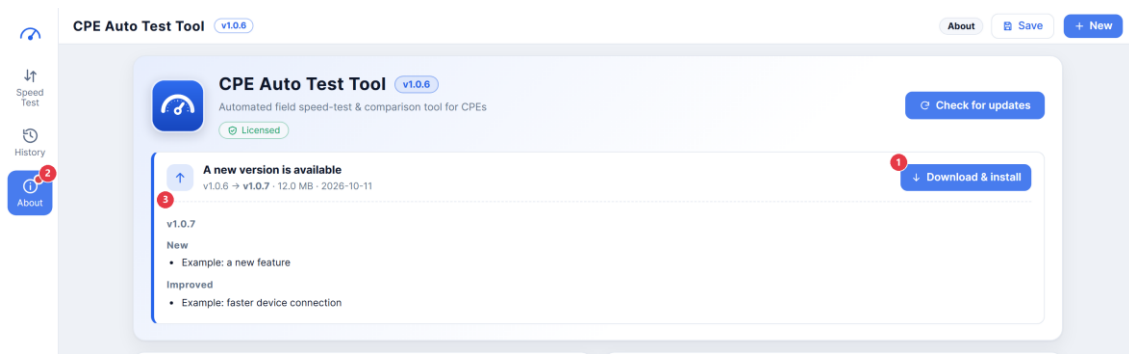


Figure 32 A new version is available (1 Download & install, 2 red dot, 3 notes)

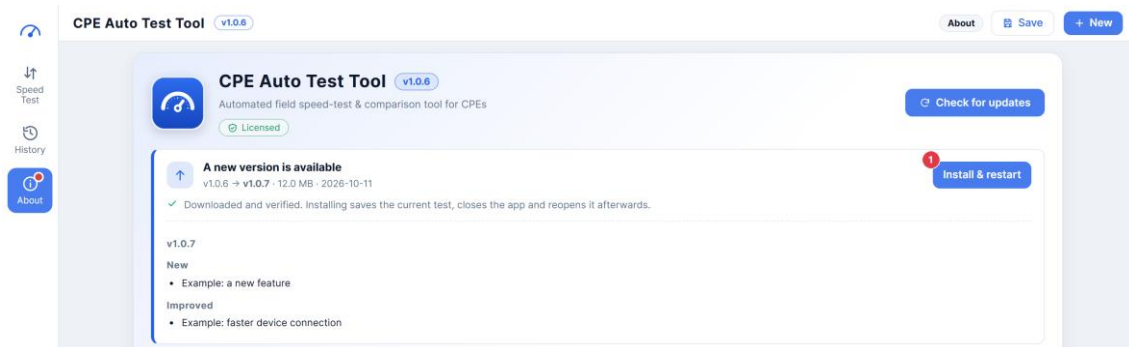


Figure 33 After the download (1 Install & restart)

User manual and run log

- **User manual:** click **Open the manual** to open this manual (PDF). In English mode the English edition opens.
- **Run log:** expand it to see what the software did recently (connections, tests, reports); a good first place to look when something goes wrong.

Export and upload logs (for the developer)

When something goes wrong, a device cannot connect or a new device needs support: click **Export logs** to create an encrypted diagnostic file (.cpelog), then **Upload log** to send it to the developer, or send the file to your provider by hand. The log is encrypted, contains no license code or passwords, and only the developer can open it.

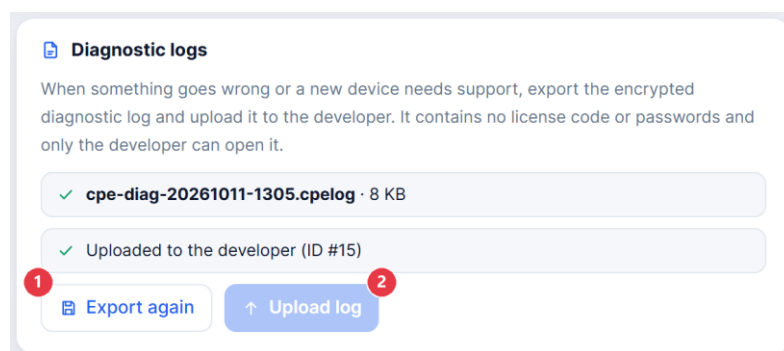
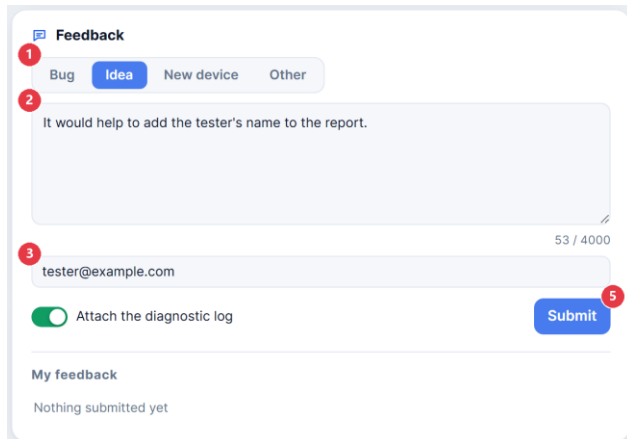


Figure 34 Export and upload a log (1 Export logs / Export again, 2 Upload log)

Feedback

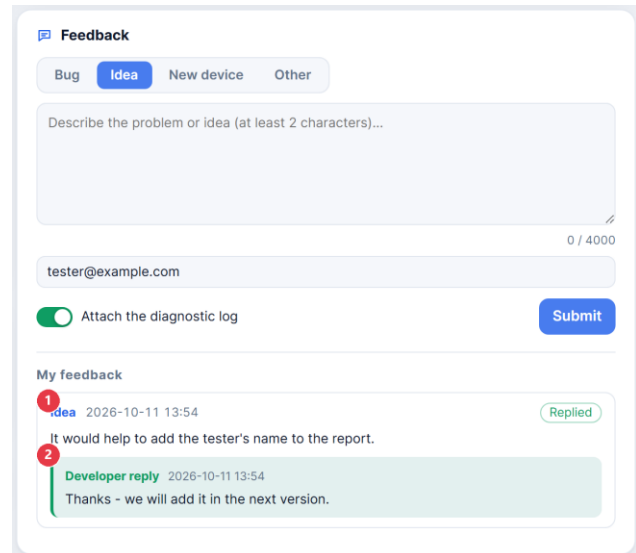
- Choose a type (**Bug** / **Idea** / **New device** / **Other**), write your message (at least 2 characters), add a contact if you like (so the developer can reply), and keep **Attach the diagnostic log** on to send the log along. Click **Submit**.
- Submitted items appear under **My feedback** with a status (Sent / Replied / Done), and the developer's reply shows there too. Unsent text is kept automatically.



The screenshot shows the 'Feedback' form with the following elements:

- 1** Type selector: Bug, **Idea** (selected), New device, Other.
- 2** Message input field: "It would help to add the tester's name to the report." (53 / 4000 characters).
- 3** Email input field: "tester@example.com".
- 5** Toggle switch: "Attach the diagnostic log" (checked).
- Submit** button.
- My feedback** section: "Nothing submitted yet".

Figure 35 Writing feedback



The screenshot shows the 'Feedback' form with the following elements:

- 1** Type selector: Bug, **Idea** (selected), New device, Other.
- 2** Message input field: "Describe the problem or idea (at least 2 characters)..." (0 / 4000 characters).
- Email input field: "tester@example.com".
- Submit** button.
- My feedback** section:
 - 1** **Idea** 2026-10-11 13:54 (Status: Replied)
 - 2** It would help to add the tester's name to the report.
 - Developer reply** 2026-10-11 13:54: "Thanks - we will add it in the next version."

Figure 36 My feedback and the developer's reply

9. Pro mode

Switch **Simple / Pro** to **Pro** in the left navigation: the same data is shown in a denser, instrument-style layout with the detail columns expanded. Nothing else changes and you can switch back any time.

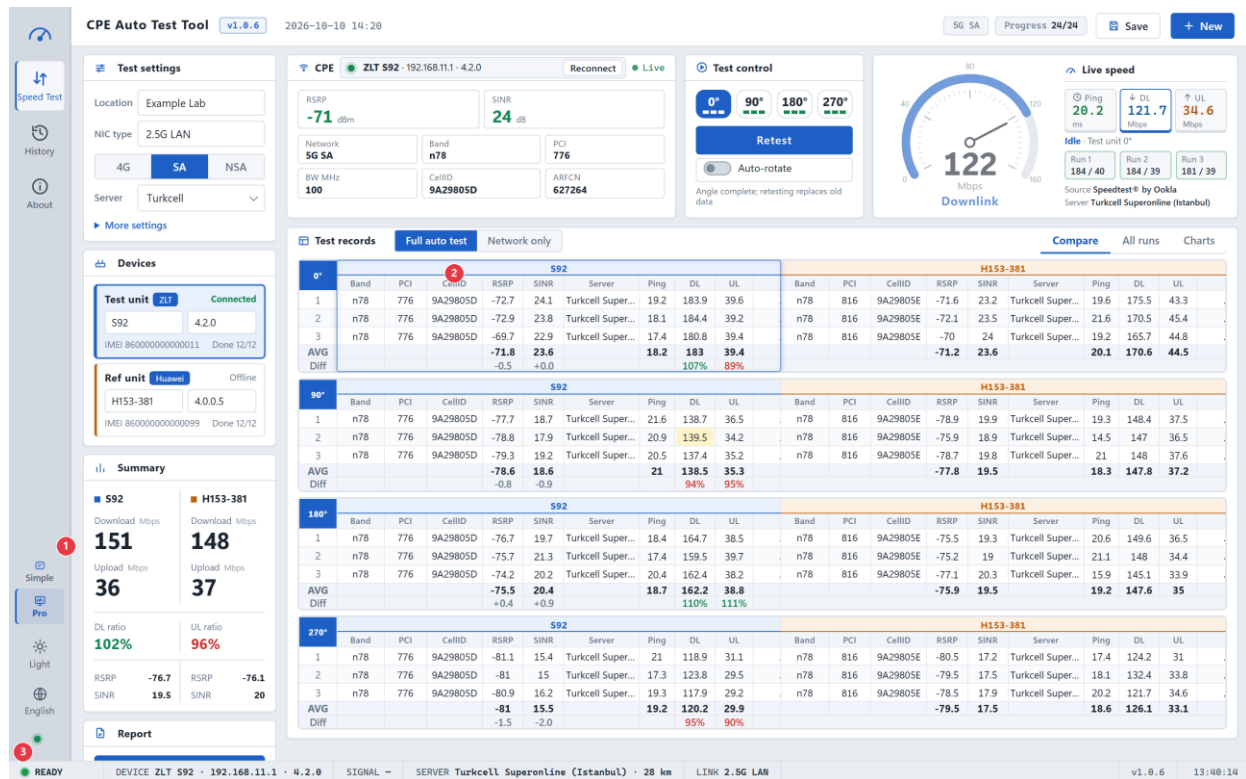


Figure 37 Pro mode (1 Simple / Pro switch, 2 the extra Band / PCI / CellID / Server / Ping columns, 3 the status bar)

- The **Compare table** adds Band, PCI, CellID, Server and Ping for every run.
- The **status bar** shows: run state, device, live signal, server, connection type, version and clock.
- The top progress bar is not shown in Pro mode and its switch is greyed out; your choice is restored in Simple mode.

10. When the software does not recognise a device

The software currently supports Huawei and ZLT devices. When you connect another brand (ZTE, Nokia...), Connect says "Found a device at x.x.x.x that this software does not recognise yet". Use **device collection** to hand the device's information to the developer so the next version can support it.

1 Enter the device's web login and click "Collect device info"

- The collection is **read-only** and changes nothing on the device; it tries to log in at most 3 times and takes up to about 100 seconds. If you would rather not log in, click **Without login**.

2 Export the log and send it

- When the collection finishes click **Export logs** (it jumps to **About** and exports at once), then **Upload log**, or send the .cpelog file to your provider. Click **Collect again** to run it once more.

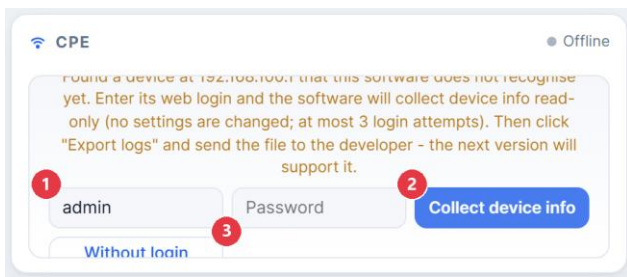


Figure 38 An unrecognised device (1 account, 2 Collect device info, 3 Without login)

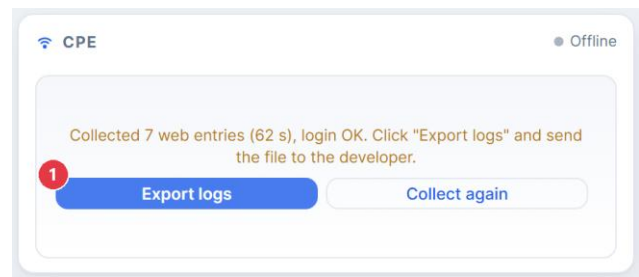


Figure 39 Collection finished (1 Export logs)

11. Other features

Top progress bar

Turn on **Show progress bar at top** in More settings: a bar under the title shows every unit's progress (Test unit blue, Ref unit orange), advancing one step per run, with a small celebration when a unit is done. When it is off, each device card shows "Done n/m".



Figure 40 The top progress bar (1 Test unit, 2 Ref unit)

Sound alerts

- By default a short chime plays after each run and a three-note chime after each angle; with **Rotation alert** set to "Voice + chime" it also speaks, and "Silent" mutes everything.
- Make sure the computer volume is on if you want the alerts.

Language and theme

- Switch **中文 / English** and **Light / Dark / Auto** theme at the bottom left (Auto follows Windows). Switching does not reopen the window.



Figure 41 Dark theme

Renaming a test

- Click the test name in the top bar to rename it (the default is the date and time); History shows this name.

12. FAQ

Q Activation says "Invalid license code"?

- Check for typos (4 groups of 5 characters, case-insensitive). If it is still invalid, contact the provider.

Q "Your license has expired. Please activate with a new code"?

- Enter a new license code on the activation page. A license that expires while the software is running does not interrupt the current test; you only need to re-activate the next time you open it.

Q The page says "License needs to be verified again" or "System time is earlier than last use"?

- Connect to the internet and click [Verify now](#); if the system clock is wrong, correct Windows' date and time first.

Q Cannot activate after changing the computer or reinstalling Windows?

- A code is bound to one computer. On a new computer the old code is reported as invalid; contact the provider.

Q Connect cannot find the device?

- Check the cable and power; make sure the computer got an address from the device over this cable; with several adapters pick one in the list next to Connect; enter the web login once if asked. Do not keep trying wrong passwords - the device may lock.

Q "The connected device is not the Test unit"?

- You connected another unit (for example the one registered as the Ref unit). Swap in the right device and click Connect.

Q The test fails, or the speed-test service says "Too many requests"?

- The official speed-test service limits request counts. Wait a few tens of minutes, do not retry repeatedly, and switch network if needed. Auto-rotate stops by itself when this happens.

Q Speeds are low or fluctuate a lot?

- Use a cable, close other bandwidth-heavy programs, keep both units on the same server and let the device settle at each angle before starting.

Q I edited or cleared the wrong data?

- Press **Ctrl+Z** to undo (Ctrl+Y to redo); to go further back, restore a save point in **History**.

Q Can I close the software during a test or report?

- No - wait until it finishes. At other times closing the window quits the program; your data is already saved.

Q There is an Excel file but no PDF?

- The PDF is exported by Microsoft Excel on this computer; without Excel only the Excel file is created. The reason is in **About → Run log**.

Q No sound?

- Check the computer volume and whether More settings → **Rotation alert** is set to "Silent".

Q Update check or download fails?

- Make sure the computer is online and click **Retry**; if it still fails, ask your provider for the new installer.

Q How do I send logs to the developer?

- Click **Export logs** and then **Upload log** on the **About** page, or send the exported .cpelog file to your provider.

Q Where are the data and reports stored?

- See Appendix B.

Q Windows says "Unknown publisher" / antivirus blocks it?

- The software is not commercially code-signed, so the first run may be flagged. Click **More info → Run anyway**, or add the install folder to your antivirus' trusted list.

Appendix

A Keyboard shortcuts

Keys	Action
------	--------

Keys	Action
Ctrl+S	Save a restore point
Ctrl+Z	Undo (edits, clears, retests, swaps, test results)
Ctrl+Y / Ctrl+Shift+Z	Redo
Enter	Confirm a value typed in the table; in the device password box it clicks "Log in & connect"

While typing in a text box, Ctrl+Z is that box's own undo.

B Where data is stored

What	Where
Test data and reports	%LOCALAPPDATA%\CPEAutoTest\data\runs\ - one folder per test (named by date and time) with the test data and the generated Excel / PDF
Run logs	%LOCALAPPDATA%\CPEAutoTest\logs\
The software is the reference	The bottom of the About page shows the real data and log folders on this computer

Paste the path into the File Explorer address bar to open it.

C Glossary

Term	Meaning
Test unit / Ref unit	The device under test / the device used as the baseline; with multi-unit tests up to 4 Test units and 1 Ref unit
Angle	The device's orientation 0° / 90° / 180° / 270°, used to compare antenna directivity
Speed-test server	The server that runs the test; both units must use the same one
License code	The code that activates the software, one code per computer
Compare / All runs / Charts	The three views of the Test records
Detailed report	An extra Excel file with every detail of every run
Save point / Draft	A manually saved restore point / an unfinished test
RSRP / SINR	Signal strength (dBm) / signal quality (dB); higher is better
SA / NSA	5G standalone / non-standalone (NSA uses 4G and 5G together)
Band / PCI / CellID	Frequency band / physical cell ID / cell identity
DL / UL / Ping	Download / upload speed (Mbps) / latency (ms)
Diff (ratio)	DL / UL: Test unit ÷ Ref unit as a percentage; RSRP / SINR: the difference