The science behind the report:

Improve user experience with a modern Dell laptop and peripherals setup

This document describes what we tested, how we tested, and what we found. To learn how these facts translate into real-world benefits, read the report Improve user experience with a modern Dell laptop and peripherals setup.

We concluded our hands-on testing on February 3, 2026. During testing, we determined the appropriate hardware and software configurations and applied updates as they became available. The results in this report reflect configurations that we finalized on December 15, 2025 or earlier. Unavoidably, these configurations may not represent the latest versions available when this report appears.

Our results

To learn more about how we have calculated the wins in this report, go to https://facts.pt/calculating-and-highlighting-wins. Unless we state otherwise, we have followed the rules and principles we outline in that document.

Table 2: Results of our testing.

	Dell Latitude 9410	Dell Pro 13 Premium	Dell Pro 13 Premium win
Productivity performance			
Time to open a large Microsoft PowerPoint file (Seconds, lower is better)	22	17	24% less time
Cinebench 2024 scores (Multi-core score, higher is better)	146	550	3.7X the productivity performance using multiple CPU scores
Cinebench 2024 scores (Single-core score, higher is better)	55	118	2.1X the productivity performance using a single CPU core
AI features			
Time to summarize a PDF with Copilot (Seconds, lower is better)	36	34	3% less time
Time to summarize an Outlook email thread with Copilot (Seconds, lower is better)	23	19	17% less time

	Dell Latitude 9410	Dell Pro 13 Premium	Dell Pro 13 Premium win
Power management			
Average power consumption for the setups without external monitors (Watts, lower is better) – While idle	17.02	13.26	22% less power consumption
Average power consumption for the setups without external monitors (Watts, lower is better) – During a Teams call	29.80	25.81	13% less power consumption
Pixels per watt			
Pixels per watt for the external monitors (Higher is better)	250,057.28	360,258.98	44% more pixels per watt

Table 3: Average ratings of setup audio and video quality during a Teams video call. Ratings are on a scale of 1 (very poor) to 5 (excellent). Source: PT.

	Dell Latitude 9410	Dell Pro 13 Premium
Call quality & clarity		
Overall call quality	3.6	4.4
Consistency of call quality throughout the Teams call	4	4.6
Smoothness of the video throughout the Teams call	4.4	4.4
Ease of understanding speech without repetition	4	4.6
Microphone & voice capture		
Clarity of the other participant's voice	3.2	4.2
Microphone effectiveness at reducing background noise	3.6	4.6
Headset & ANC		
Effectiveness of ANC in reducing surrounding noise	2.6	4.8
Impact of ANC on your ability to focus during the call	2.4	4.6
Naturalness of audio when ANC is enabled	3.4	4.6
Overall headset audio quality	3	4.4
Overall headset comfort	3	4.8
Noise, stability, & artifacts		
Presence of echo, distortion, or audio artifacts	3.2	4.4
Stability of the audio (i.e., no dropouts or interruptions)	3.8	4.6
Overall impression		
Suitability of this setup for professional calls via Teams	3	4.8
Overall satisfaction with the Teams calls experience	3	4.8

System configuration information

Table 4: Detailed information on the laptop systems we tested.

System configuration information	Dell Latitude 9410	Dell Pro 13 Premium
Processor		
Vendor and model number	Intel® Core™ i7 10610U	Intel Core Ultra 5 Processor 236V
Core frequency (GHz)	1.8-4.9	2.1-4.7
Number of cores	4	8
NPU TOPS	N/A	40
Memory		
Amount (GB)	16	16
Type	DDR4	LPDDR5
Graphics		
Vendor	Intel	Intel
Model number	UHD Graphics	Arc™ 130V GPU
Storage		
Amount (GB)	512	1,000
Connectivity/expansion		
Wireless internet	Intel AX201 and Bluetooth 5.1	Intel BE201 Wi-Fi 7 and Bluetooth® 5.4
Battery		
Rated capacity (mAh)	52	60
Display		
Size (in.)	14	13.3
Resolution	1,920 x 1,080	1,920 x 1,200
Operating system		
Vendor	Microsoft	Microsoft
Name	Windows 10 Pro	Windows 11 Pro
Build number or version	22H2 version 19045.6691	25H2 version 26200.7462
Dimensions		
Height (in)	0.59	0.71
Width (in)	12.59	11.64
Depth (in)	7.87	8.23
Weight (lbs.)	3.0	2.65

Table 5: Detailed information on the peripherals we tested. Source: PT.

Peripheral configuration information	Dell UltraSharp 32 Video Conferencing Monitor – U3223QZ (old)	Dell UltraSharp 32 6K Monitor – U3224KB (new)
Screen type	Thin-Film Transistor (TFT), Liquid Crystal Display (LCD), and LED backlight	Thin-Film Transistor (TFT), Liquid Crystal Display (LCD), and LED backlight
Display area (cm/in.)	80.01/31.5	79.94/31.5
Resolution	3,840 x 2,160 (16:9), 140 PPI	6,144 x 3,456 (16:9), 223 PPI
Color gamut	100% sRGB, 98% DCI-P3, 100% Rec.709	100% sRGB, 99% DCI-P3, 100% Rec.709, 99% Display P3
Adjustment capabilities	Tilt, swivel, and vertical extension	Tilt, swivel, pivot, and vertical extension
Built-in speakers (W)	2x 14	2x 14
Stand and mounting	Removable pedestal stand and Video Electronics Standards Association (VESA) 100 mm mounting holes for flexible mounting	Removable pedestal stand and Video Electronics Standards Association (VESA) 100 mm mounting holes for flexible mounting
I/O	USB Type-C 3.2 Gen 2 (10 Gbps) downstream port 4x Super speed USB 10 Gbps (USB 3.2 Gen 2) Super speed USB 10 Gbps (USB 3.2 Gen 2) with BC 1.2 charging capability at 2 A HDMI 2.0 DisplayPort 1.4 (in) USB Type-C 3.2 Gen 2 upstream/DisplayPort DP with MST (out) USB-C 3.2 Gen 2 upstream RJ-45 connector 3.5 mm headphone jack	2x USB Type-C downstream port (USB3.2 Gen 2) 4x Super speed USB 10 Gbps (USB 3.2 Gen 2) Super speed USB 10 Gbps (USB 3.2 Gen 2) with BC 1.2 charging HDMI 2.1 (supports up to 6K 6,144 x 3,456 60Hz 10bit FRL, HDR) mini DP 2.1 (Supports up to 6K 6,144 x 3,456 60Hz 10bit, HDR) Thunderbolt 4 downstream (suitable for video output under Daisy chain; supports up to 2x 6K monitors) USB Type-C 3.2 Gen 2 upstream Thunderbolt 4 upstream/DisplayPort RJ-45 connector
Reported power consumption (W)	0.3 in Off or Standby mode 29.90 in On mode 240 (max) 28.43 (Power on mode as defined in Energy Star 8.0 version) 97.36 kWh (Total energy consumption as defined in Energy star 8.0 version)	0.25 in Off mode 0.26 in Standby mode 3.1 in Network standby mode 56.73 in On mode 420 (max) 54.86 (Power on mode as defined in Energy Star 8.0 version) 185.85 kWh (Total energy consumption as defined in Energy star 8.0 version)
Picture by Picture (PBP) and Picture in Picture (PIP) support	PBP	PBP and PIP
Viewing Angle	178 degrees	178 degrees
Brightness (nits)	400	450
Contrast ratio	2,000 to 1	2,000 to 1

Peripheral configuration information	Dell UltraSharp 32 Video Conferencing Monitor – U3223QZ (old)	Dell UltraSharp 32 6K Monitor – U3224KB (new)
Webcam	8 mega-pixel 3,840 x 2,160 (4K UHD), up to 30 frames per second 1,920 x 1,080 (Full HD), up to 60 frames per second	8 mega-pixel 3,840 x 2,160 (4K UHD), up to 30 frames per second 1,920 x 1,080 (Full HD), up to 60 frames per second

Table 6: Detailed information on the docks we tested. Source: PT.

Dock configuration information	Dell Pro Thunderbolt 4 Dock – WD25TB4 (old)	Dell Pro Thunderbolt 4 Smart Dock – SD25TB4 (new)
Video ports	USB 3.2 Gen2 Type-C with DisplayPort 1.4 Alt mode 2x DisplayPort 1.4 HDMI 2.0 2x Type-C with Thunderbolt 4	USB 3.2 Gen2 Type-C with DisplayPort 1.4 Alt mode 2x DisplayPort 1.4 HDMI 2.1 2x Type-C with Thunderbolt 4
External displays support	Up to four 4K @ 60 Hz	Up to four 4K @ 60 Hz Up to two 6K @ 60 Hz Up to one 8K @ 60 Hz
USB ports	2x USB 3.2 Gen1 Type-A USB 3.2 Gen1 Type-A with PowerShare USB 3.2 Gen2 Type-C USB 3.2 Gen2 Type-C with DisplayPort 1.4 Alt mode 2x Type-C with Thunderbolt 4	4x USB 3.2 Gen2 Type-A USB 3.2 Gen2 Type-C USB 3.2 Gen2 Type-C with DisplayPort 1.4 Alt mode 2x Type-C with Thunderbolt 4
Ethernet	1Gbps Ethernet RJ-45 Support Wake On LAN from S0, S3, S4, or S5 sleep state with select Dell systems Support MAC Address Pass-Through with select Dell systems	2.5Gbps Ethernet RJ-45 Support Wake On LAN from S0, S3, S4, or S5 sleep state with select Dell systems and non-Dell systems with Power Delivery 3.1 capability Support MAC Address Pass-Through with select Dell and non-Dell systems
AC adapter and charging power	180W AC Adapter 130 W delivery to Dell systems 90 W delivery to non-Dell systems	180W AC Adapter 130 W delivery to Dell systems 96 W delivery to non-Dell systems

Dock configuration information	Dell Pro Thunderbolt 4 Dock – WD25TB4 (old)	Dell Pro Thunderbolt 4 Smart Dock – SD25TB4 (new)
Operating systems	Windows 10 Windows 11 Ubuntu 20.04 and later Chrome OS M107 and later	Windows 10 Windows 11 Ubuntu 24.04 Red Hat Enterprise Linux 9.6 and later Chrome OS 137 MacOS
System management	Wireless vPro supported by the notebook, tablet, or workstation Kernel Direct Memory Access (DMA) protection PXE Boot Firmware Update on Disconnect	Intel AMT over Thunderbolt with select Intel vPro systems Kernel Direct Memory Access (DMA) protection PXE Boot Port Disablement Firmware Update on Disconnect
Fleet management (Dell Device Management Console)	Dell Device Management Console: -Enrollment Management -Firmware Policy Dell System Center Configuration Manager integration	Dell Device Management Console: -Enrollment Management -Configuration Policy -Firmware Policy Dell System Center Configuration Manager integration
Dimensions	Width: 8.07 in. Height: 1.14 in. Depth: 3.54 in. Weight: 1.43 lb.	Width: 8.07 in. Height: 1.14 in. Depth: 3.54 in. Weight: 1.46 lb.

Table 7: Detailed information on the headphones/headset we tested. Source: PT.

Headphones/headset configuration information	Dell Premier Wireless ANC Headset - WL7022 (old)	Dell Pro Plus Wireless ANC Headset - WL5024 (new)	Dell Pro Premium Wireless ANC Headset - WL7024 (new)	Dell Pro Plus Earbuds - EB525 (new)
Weight (g)	155	<= 220	297	Earbuds: 6 each Charging case: 50.4
Microphone	Unidirectional	Unidirectional	Omnidirectional	Unidirectional
Speaker (mm)		40 (dynamic)	40 (dynamic)	11.6
Speaker maximum input power (mW)		50	20	10
Speaker frequency range	20Hz to 20KHz	20Hz to 20KHz	20Hz to 20KHz	20Hz to 20KHz

Headphones/headset configuration information	Dell Premier Wireless ANC Headset - WL7022 (old)	Dell Pro Plus Wireless ANC Headset - WL5024 (new)	Dell Pro Premium Wireless ANC Headset - WL7024 (new)	Dell Pro Plus Earbuds - EB525 (new)
Charging device	Charge stand included	Sold separately	Charging dock Included	Charging case included
Reported battery life (hours)	Talk time: •Up to 12 (ANC off) •Up to 10 (ANC on) Listening time: •Up to 15 (ANC off) •Up to 12 (ANC on)	Talk time: •Up to 34 (ANC/busy light off) •Up to 20 (ANC/busy light on) Listening time: •Up to 78 (ANC off) •Up to 50 (ANC on) Sleep mode turns on after 4 hours of inactivity	Talk time: •Up to 28 (ANC/busy light off) •Up to 26 (ANC on/ busy light off) Listening time: •Up to 80 (ANC off) •Up to 50 (ANC on) Sleep mode turns on after 4 hours of inactivity	Talk time: •Up to 5 (ANC on – Earbuds) •Up to 16.5 (ANC On with charging case) Listening time: •Up to 8 (ANC on – Earbuds) •Up to 33 (ANC On with charging case)
Reported battery charge time (hours to full)	2.5	2.5	< 3	< 2
Fast charging	No	Yes, 15 minutes offers about 12 hours of listening time without ANC	Yes, 15 minutes offers about 12 hours of listening time without ANC	Yes, 5 minutes offers up to 1 hour of listening time
Teams button	Yes	Yes	Yes	Yes (Single pinch left earbud)
Multilink support		Yes, users can connect to two hosts simultaneously	Yes, users can connect to two hosts simultaneously	Yes, users can connect to two hosts simultaneously

Table 8: Detailed information on the keyboard and mouse devices we tested. Source: PT.

Keyboard/mouse configuration information	Dell Pro Keyboard KB500 (old)	Dell Pro Keyboard KM726 (new)
Mouse included	No	Yes
Keyboard connection	Wireless (2.4 GHz with nano receiver)	Wireless (2.4 Ghz RF & BLE6.0)
Reported keyboard operating voltage	2 – 3.2	2 – 3
Keyboard battery type	2x AAA	2x AAA
Reported keyboard weight w/o batteries (g)	400	570
Copilot button	No	Yes
Programmable keys	12	16
Programmable buttons	0	6

Keyboard/mouse configuration information	Dell Pro Keyboard KB500 (old)	Dell Pro Keyboard KM726 (new)
Keyboard dimensions (in.)	Width: 17 Height: 1.3 Depth: 4.8	Width: 17 Height: 1 Depth: 4.5
Reported keyboard battery life (months)	Up to 36	Up to 48
Reported mouse battery life	N/A	Up to 36 months

How we tested

Setting up the systems

Setting up and updating the OEM image

1. Boot the system.
2. Follow the on-screen instructions to complete installation, using the default selections when appropriate.
3. Set the Windows (plugged in) Power Mode to Best Performance.
4. Set Screen and Sleep options to Never:

    a. Right-click the desktop, and select Display settings.
    b. From the left column, select System.
    c. Click Power & Battery.
    d. For all power options listed under Screen and Sleep, select Never.

5. Disable User Account Control notifications:

    a. Select Windows Start, type `UAC`, and press Enter.
    b. Move the slider control to Never notify, and click OK.

6. Run Windows Update, and install all available updates.
7. Run the OEM's Support Assistant utility, and install all recommended BIOS and available driver updates.
8. Verify the date and time are correct, and synchronize the system clock with the time server.
9. Pause Automatic Windows Updates:

    a. Click Windows Start.
    b. Type `Windows Update settings`, and press Enter.
    c. From the Pause updates drop-down menu, select Pause for 5 weeks.

Capturing an image

1. Connect an external HDD to the system.
2. Click Windows Menu, and type `Control Panel` in the search bar. Click Control Panel → System and Security → Backup and Restore (Windows 7) → Create a system image.
3. Verify that the external HDD is selected as the save drive, and click Next.
4. Verify that all drives are selected to back up, and click Next
5. Click Start backup.
6. When you see the prompt to create a system repair disc, select No, and close the dialogs.

Restoring an image

1. Connect an external HDD to the system.
2. Press and hold the Shift key while restarting the system.
3. Select Troubleshoot.
4. Select Advanced options.
5. Select See more recovery options.
6. Select System image recovery.
7. Select the User account.
8. Enter the system password, and click Continue.
9. At the Restore system files and settings screen, select Next.
10. Verify that the external HDD is selected, and click Next.
11. Once the recovery has completed, click Finish.

Testing with Cinebench 2024

Setting up the test

1. Download and install Cinebench 2024 from https://www.maxon.net/en/downloads/cinebench-2024-downloads.
2. Launch Cinebench 2024.
3. Select File → Advanced benchmark.
4. From the Minimum Test Duration drop-down menu, select Off.
5. Set power mode to Best Performance when testing.

Running the multi-core test

1. Launch Cinebench 2024.
2. Click Start next to CPU (Multi Core).
3. Record the result.
4. Wait 10 minutes.
5. Complete steps 1 through 4 twice more.

Running the single-core test

1. Launch Cinebench 2024.
2. Click Start next to CPU (Single Core).
3. Record the result.
4. Wait 10 minutes.
5. Complete steps 1 through 4 twice more.

Capturing boot time of systems

1. Start the timer and simultaneously boot the system.
2. Stop the timer when the system fully loads the desktop.
3. Record the result.
4. Shut down the system, and wait 5 minutes.
5. Complete steps 1 through 4 twice more.

Timing the opening of a large Microsoft PowerPoint file

1. Start the timer and simultaneously open large sample PowerPoint file.
2. Stop the timer when the PowerPoint file opens and all slide previews fully load.
3. Record the result.
4. Complete steps 1 through 3 twice more.

Timing Copilot responsiveness and summarization of PDF

1. Open the test PDF in Edge.
2. Start the timer and simultaneously click the Copilot button in Edge.
3. Within the Copilot message box, type `summarize this document.`
4. Press Enter.
5. Stop the timer when Copilot fully outputs a summary.
6. Record the results, and restart the system.
7. Complete steps 1 through 6 twice more.

Timing Copilot responsiveness and summarization of an Outlook Email thread

1. Open Outlook.
2. Open the test email thread that will be summarized.
3. Start the timer and simultaneously click the Copilot button in Edge.
4. Within the Copilot message box, type `summarize this email thread.`
5. Press Enter.
6. Stop the timer when Copilot fully outputs a summary.
7. Record the results, and restart the system.
8. Complete steps 1 through 7 twice more.

Measuring power draw of desktop setups

To measure the power draw, we measured the power output of the systems and their peripheral components in three different scenarios using an Extech 380803 power analyzer. These scenarios included:

- External monitor only at idle
- System at idle with peripherals included but no external monitor
- System in a Teams meeting with peripherals included but no external monitor

Setting up the test

1. Connect one end of a standard PC power cord into the input receptacle of the Extech Power Analyzer and the other end into a wall receptacle.
2. Connect one end of a second standard PC power cord into the output receptacle of the Extech Power Analyzer and the other end into the test setup (one of the three scenarios above).
3. Connect one end of the Extech's DC 12V power adapter into a wall receptacle and the other end into the Extech Power Analyzer.
4. Connect one end of the Extech RS-232 communications cable into the host monitoring system's COM port and the other end into the Extech Power Analyzer.
5. Turn on the Extech Power Analyzer and the host computer.
6. Install the Extech software to be able to record data.

Running the test

1. For each of the three scenarios, connect the appropriate hardware and peripherals into the Extech Power Analyzer.
2. Power on the systems and/or peripherals.
3. On the host computer, launch the Extech Power Analyzer software.
4. From the top menu, click File → Name.
5. In the Name field, type a name that appropriately describes the platform and configuration, and click OK.
6. On the host computer, from the top menu, click File → Start Recording → Now (Auto).
7. Measure the power draw for each scenario for 15 minutes.
8. For the scenario while on a Teams meeting, turn on the Standard Blur video effect and have the video and microphone on.
9. At the end of the 15 minutes, on the host computer, from the top menu click File → End Recording.
10. Take the average of the power draw over 15 minutes and record the results.
11. Repeat steps 1 through 10 twice more.

Rating Microsoft Teams call quality and Dell headset quality from a small jury study of five participants

Our jury panel consisted of five participants. In this phase, we used our legacy Dell setup and our new Dell setup with Dell Pro Plus Wireless ANC Headset WL5024. Each juror participated in a brief Teams meeting and then evaluated the audio quality, mic quality, ANC quality, and more of the call and the headset of the desktop setup they used. To guarantee a blind jury evaluation, we seated participants at a random desktop setup without providing any information for the setup they were using.

Setting up the test

1. On each desktop setup, make sure ANC is off before each participant starts.
2. Confirm that the video and microphone works in each desktop setup.
3. Join a test Teams meeting on the desktop setup under test and on a separate test system.

Running the test

1. Seat the juror at the first desktop setup, and direct them to put on the corresponding headset.
2. As the tester, move to a separate room away from the juror and test desktop setup, and join the Teams meeting on a separate test system.
3. Ensure the jury participant can see and hear you.
4. Read the test script to the participant to have them evaluate the call quality and audio quality.
5. Once finished, direct the participant to turn on ANC.
6. Read the same test script again to the participant to have them evaluate the ANC quality.
7. Return to the juror, and direct them to join the meeting using a separate test system.
8. As the tester, join the meeting on the desktop setup on which the juror began.
9. Using the microphone of the same headset the juror previously used, read the test script to the participant to have them evaluate the microphone quality of the headset.
10. Complete steps 1 through 9 for the second desktop setup.
11. Complete steps 1 through 10 for all jurors.
12. Once complete, have participants fill out the jury study questionnaire.

This project was commissioned by Dell Technologies.

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How we created this report

A PT team, which includes the contributors we've listed and others, created this report and performed the technical work behind it. We used AI to draft an outline for the report and edit text.

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