

ThinkCentre^{NEO}

Smarter
technology
for all

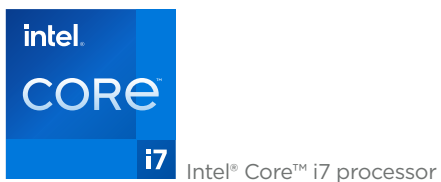
Lenovo

Exceptionally intuitive for smarter performance

ThinkCentre neo 50a 24 All-in-One Desktop

ThinkCentre neo 50a is built around modern business users, incorporating AI-based technology that offers the best in smart desktop technology. You can alleviate the rigors of a demanding workday by providing a confident work environment. It offers seamless experiences across multiple functionalities and enhanced performance for both daily and intensive tasks—design work, extensive spreadsheets, visually-demanding tasks, and even data analytics, and easily surmounts them.

Armed with powerful 12th Gen Intel® Core™ processors and discrete Intel® graphics, there is no task that these devices can't stand up to. The Smart Camera provides unmatched privacy and picture quality along with human presence detection (HPD). The 24-inch, 16:9 display wide-viewing angle monitor offers an immersive experience. Its sleek, streamlined look with the distinctive Terrazzo design on the front and back cover, offset by the deep raven black color, lends it a premium feel.



ThinkCentre neo 50a 24

All-in-One Desktop

An intelligent device for immersive work experiences



Lenovo



EMPOWERED PERFORMANCE: modern businesses need devices that keep up with their needs—from performance to security. When it comes to all-round performance, nothing beats the ThinkCentre neo 50a. Powered by the latest 12th Gen Intel® Core™ i7 H series processor and discrete Arc™ A370M graphics¹, it delivers a dazzling performance for business analysts, content creators, and data management in every industry imaginable. Paired with up to 2TB of storage and up to 16GB of high-responsive DDR5 memory, the ThinkCentre neo 50a is effortless to run applications and handle heavy-duty work all day.



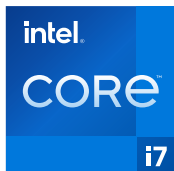
INNOVATIVE SMART CAMERA: the smart AI-chip-controlled IR camera¹ delivers many features, including human presence detection, adaptive screen dimming, ambient light sensor, and face orientation, apart from providing unmatched privacy and picture quality. Moreover, the hidden camera protects meeting privacy as well.



UNMATCHED DISPLAY: brilliant businesses need a display that matches their needs. The ThinkCentre neo 50a delivers a vivid display experience, thanks to its Full-HD screen with a 16:9 aspect ratio. It sports Wide Viewing Angles, so your work is always visible, no matter where you are seated. The 88.6% screen-to-body ratio and 3-side borderless panel with just a 4mm bezel lend a sleekly professional look to the device—perfect for any office.



ACTIVE COLLABORATION: the ability to collaborate is vital to the modern workplace. Working with colleagues and others from remote geographies helps businesses immensely. ThinkCentre neo 50a is an all-in-one system with numerous features that enhance teamwork, like Lenovo Smart Appearance, smart camera, noise cancellation, AI Meeting Manager, and voice interaction (Alexa) also help users intuitively work together. Moreover, combining it with the Smart Cable¹ will allow you to operate two devices on one screen.



Intel® Core™ i7 processor

¹Optional

Why you should buy the ThinkCentre neo 50a 24

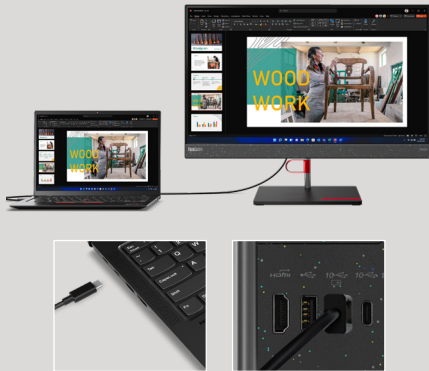
HUMAN-CENTRIC DESIGN: The ThinkCentre neo 50a delivers an intelligent user experience with its intuitive features. The display on the device tilts to accommodate different work modes, the adjustable stand¹ adds or lowers height as needed, and it comes with a built-in mobile holder so important messages aren't missed. Smart noise-cancelling and improved audio quality are excellent, especially during meetings.

MAXIMIZED SECURITY: Rapidly evolving computer viruses, increasing malware and Distributed Denial-of-Service (DDoS) attacks have turned business and data security into a battle to stay one step ahead of hackers. ThinkCentre neo 50a is armed with high-security features designed to protect in case of malicious network attacks. fTPM-based security, BIOS-level protection, and port security cover multiple vulnerabilities and aid recovery and post-attack.

IMPROVED VERSATILITY: ThinkCentre neo 50a works effortlessly, yet tirelessly through long days at work. Its powerful processor and graphics card keep up with demanding tasks. The Intelligent Cooling Engine (ICE 5.0) on the ThinkCentre desktop allows users to prioritize their performance or silent running systems. It runs more than 6% faster in performance mode and 4 decibels (dB) quieter in silent mode.

www.lenovo.com

Solutions for a cohesive experience



SMART CABLE¹

(PN: TBA)

This portable plug-and-play cable enhances desktop computing and storage sharing capability to work seamlessly between two computing devices. Smoothly operate two devices within one device screen—switch each device within the same screen with full right to access, copy, move, delete, edit, save, and close applications. Transfer pictures, videos, and files with a simple drag-and-drop, using just one keyboard and mouse.



LENOVO PROFESSIONAL WIRELESS COMBO²

(PN: 4X30M39xxx)

Connect both keyboard and mouse seamlessly using a wireless 2.4 GHz dongle. The spill-resistant, wireless keyboard with low profile island-style keys and adjustable tilt leg is responsive and easy to use. The full-size wireless mouse accommodates left and right-handed users with an ambidextrous design, and 1200 DPI resolution gives more precision and control. It comes with a one-year warranty.



LENOVO GO WIRED ANC HEADSET²

(PN: 4XD1C99223)

Designed to enhance communication and collaboration in the modern workplace, the Lenovo Go Wired ANC Headset brings several must-have features to the table. With Microsoft Teams Certification and cutting-edge noise cancellation technology, both office and remote workers will have the tools they need to tune-out distractions and tune-in to their work - all in one headset.

¹Optional
²Recommended accessories

ThinkCentre neo 50a 24 All-in-One Desktop

PERFORMANCE

Processor

Up to 12th Gen Intel® Core™ i7
H series processor

Operating System

Up to Windows 11 Pro

Memory

Up to 16GB DDR5; 4800Hz
2 x SODIMM

Storage

Up to 2TB HDD
Up to 1TB M.2 PCIe SSD

Graphics

Intel Iris Xe Graphics
Intel® Arc™ A370M¹

Power Supply

180W Built-In

Camera & Mic

5MP / 5MP IR/ 5MP IR+AI Camera
Dual-array Mic

Speaker

2 x 3W harman® speakers

CONNECTIVITY

WLAN

Wi-Fi 5
Wi-Fi 6
Bluetooth® 5

LAN

1000M

Ports

USB-C 2.0 (supports rapid-charge
technology & power delivery 45W/100W)
2 x USB C 3.2 Gen 2 (1x supports keyboard
power on)
USB-A 3.2 Gen 1
USB-A 3.2 Gen 2
USB-A 2.0
HDMI-in

HDMI-out (2.1, TMDS mode only)
Ethernet (RJ45)
Kensington Security Slot™
Headphone / mic combo

HDD Bay

2.5" HDD SATA Bay

ODD Bay

9.0mm tray-in

DESIGN

Form Factor

23.8" 1920x1080 16:9 WVA
250nits, 72% NTSC

Color

Raven Black

Resolution

1920 x 1080

Panel Type

WVA

Bezel

3-side borderless display

Luminance

250cd/m²

Contrast Ratio

1000:1

Response Time

14ms

Color Depth

16.7 Million

Surface Treatment

Anti-glare 3H

Interface

LVDS
Touch²

Refresh Ratio

60Hz

Bezel width

4mm (left and right)

Dimensions (W x D x H)

With Lift Stand
482.1mm x 541mm x 220mm
11.88kg / 26.19lbs.

With Non-Lift Stand

433.7mm x 541mm x 209.9mm
11.04kg / 24.33lbs.

Without Stand

433.7mm x 541mm x 56.6mm

SECURITY

Zero-touch login with Face ID²
Human Presence Detection²
Anti-Peeping Privacy Protection²
Firmware TPM 2.0
Kensington™ lock slot

DEVICE COLLABORATION

Smart Cable¹

USER EXPERIENCE

Intelligent Cooling Engine (ICE 5.0)
Multi-touch¹
Ambient Light Sensor²
Screen Adaptive Dimming²
Auto Face Orientation
for rotatable display²

SOFTWARE

AI Meeting Manager
Lenovo Smart Appearance
Voice Interaction (Alexa)
Modern Standby

CERTIFICATION

Energy Star® 8.0
EPEAT™ Silver
TÜV Low Blue Light

TÜV Low Noise

Low Frequency Flash
IEC 62368-1
CEC
ErP
TED (Eco-declaration)

RECOMMENDED SERVICES

Lenovo offers a comprehensive portfolio of services to support and protect your investment—so you can focus on your work, not your IT. Our portfolio of services supports the full lifecycle of your Lenovo IT assets. From initial strategic planning to customized configuration, deployment, support, protection, security, and asset recovery—Lenovo has solutions to help you embrace new workplace technologies.

Premier Support

No matter where you or your employees are located, you have direct, 24x7x365 access to elite Lenovo engineers, unscripted troubleshooting, comprehensive hardware, and OEM software support, priority on service delivery, repair parts, and more.

Lenovo Device as a Service

Combine hardware, services, and software into a single, flexible solution to maintain predictable monthly costs. This innovative, fully managed model drives down capital IT expenses while ensuring your employees experience the latest technology to keep them secure and productive.

Warranty Extension (1-year base, up to 4 years)

This fixed-term, fixed-cost service helps you accurately budget for desktop expenses, protect your valuable investment, and lower the cost of ownership over time.

Lenovo CO₂ Offset Service

Make offsetting carbon emissions simple and within your control. You can use this service to compensate for environmental impact based on realistic emissions over an average product lifecycle. It is offered as an option at point of purchase, with tangible proof of CO₂ emission that offset.



¹Optional

²Zero-touch login, Human Presence Detection, Ambient Light Sensor, Screen Adaptive Dimming, and Auto Face Orientation features are enabled in models with the AI-chip camera

Depending on many factors such as the processing capability of peripheral devices, file attributes, and other factors related to system configuration and operating environments, the actual transfer rate using the various USB connectors on this device will vary and is typically slower than the data rates as defined by the respective USB specifications: - 5 Gbit/s for USB 3.1 Gen1; 10 Gbit/s for USB 3.1 Gen2 & 20 Gbit/s for USB 3.2.

©2022 Lenovo. All rights reserved. Depending on many factors such as the processing capability of peripheral devices, file attributes, and other factors related to system configuration and operating environments, the actual transfer rate using the various USB connectors on this device will vary and is typically slower than the data rates as defined by the respective USB specifications: - 5 Gbit/s for USB 3.1 Gen1; 10 Gbit/s for USB 3.1 Gen2 & 20 Gbit/s for USB 3.2. Prices shown are subject to change without notice. For any questions concerning price, please contact your Lenovo Account Executive. Lenovo is not responsible for photographic or typographic errors. Warranty: For a copy of applicable warranties, write to: Warranty Information, 500 Park Offices Drive, RTP, NC 27709, Attn: Dept. ZPYA/B600. Lenovo makes no representation or warranty regarding third-party products or services. Trademarks: Lenovo, the Lenovo logo, Rescue and Recovery, ThinkPad, ThinkCentre, ThinkStation, ThinkVantage, and ThinkVision are trademarks or registered trademarks of Lenovo. Microsoft, Windows, and Vista are registered trademarks of Microsoft Corporation. Intel, the Intel logo, Intel Inside, Intel Core, and Core Inside are trademarks of Intel Corporation in the U.S. and/or other countries. Other company, product and service names may be trademarks or service marks of others.

Intel® Core™ i7 processor



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