### OVERVIEW

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Power button</td>
</tr>
<tr>
<td>2.</td>
<td>PC / monitor mode switch</td>
</tr>
<tr>
<td>4.</td>
<td>Headphone / microphone combo jack (3.5mm)</td>
</tr>
<tr>
<td>5.</td>
<td>HDMI-in 2.1 TMDS</td>
</tr>
<tr>
<td>6.</td>
<td>Ethernet (RJ-45)</td>
</tr>
</tbody>
</table>

---

IdeaCentre AIO 5 24IAH7 - August 23 2022
**PERFORMANCE**

**Processor**

**Processor Family**
12th Generation Intel® Core™ i5 / i7 Processor

<table>
<thead>
<tr>
<th>Processor Name</th>
<th>Cores</th>
<th>Threads</th>
<th>Base Frequency</th>
<th>Max Frequency</th>
<th>Cache</th>
<th>Memory Support</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core i5-12500H</td>
<td>12 (4 P-core + 8 E-core)</td>
<td>16</td>
<td>P-core 2.5GHz / E-core 1.8GHz</td>
<td>P-core 4.5GHz / E-core 3.3GHz</td>
<td>18MB</td>
<td>DDR5-4800</td>
<td>Intel Iris Xe Graphics</td>
</tr>
<tr>
<td>Core i7-12700H</td>
<td>14 (6 P-core + 8 E-core)</td>
<td>20</td>
<td>P-core 2.3GHz / E-core 1.7GHz</td>
<td>P-core 4.7GHz / E-core 3.5GHz</td>
<td>24MB</td>
<td>DDR5-4800</td>
<td>Intel Iris Xe Graphics</td>
</tr>
</tbody>
</table>

**Operating System**

**Operating System**
- Windows® 11 Pro 64
- Windows 11 Home 64
- No operating system

**Graphics**

<table>
<thead>
<tr>
<th>Graphics</th>
<th>Type</th>
<th>Memory</th>
<th>Boost Clock</th>
<th>TGP</th>
<th>Connector</th>
<th>Max Resolution</th>
<th>Key Features</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel Iris Xe Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>-</td>
<td>-</td>
<td>1x HDMI® 2.1 TMDS</td>
<td>3840x2160@60Hz(HDMI)</td>
<td>DirectX® 12</td>
<td>-</td>
</tr>
<tr>
<td>Intel Arc A370M Graphics</td>
<td>Discrete</td>
<td>4GB GDDR6</td>
<td>-</td>
<td>-</td>
<td>1x HDMI 2.1 TMDS</td>
<td>3840x2160@60Hz(HDMI)</td>
<td>DirectX 12</td>
<td>-</td>
</tr>
</tbody>
</table>

**Notes:**
1. The information of integrated graphics are not applicable for the models without integrated graphics (for the details, please refer to processor section)

**Monitor Support**

**Monitor Support**
Supports up to 2 independent displays via native display and 1 external monitor; supports external monitor via HDMI

**Chipset**

**Chipset**
Intel SoC (System on Chip) platform

**Memory**

**Max Memory**
Up to 16GB DDR5-4800

**Memory Slots**
Two DDR5 SO-DIMM slots, dual-channel capable

**Memory Type**
DDR5-4800

**Memory Protection**
Non-ECC

**Notes:**
1. The max memory is based on the test results with current Lenovo® memory offerings. The system may support more memory as the technology develops.

**Storage**

---

IdeaCentre AIO 5 24IAH7 - August 23 2022
Storage Support

One drive, up to 1TB M.2 SSD

<table>
<thead>
<tr>
<th>Storage Type</th>
<th>Disk Type</th>
<th>Interface</th>
<th>RPM</th>
<th>Offering</th>
<th>Security</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe® NVMe®, PCIe 3.0 x4</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe 4.0 x4</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

RAID
No support

Notes:
1. The storage capacity supported is based on the test results with current Lenovo storage offerings. The system may support larger storage as the technology develops.

Removable Storage

Optical
None

Card Reader
No card reader

Multi-Media

Audio Chip
High Definition (HD) Audio, Realtek® ALC274-CG codec

Speakers
Stereo speakers, 5W x2, JBL®-branded

Microphone
Dual array microphone

Camera
- 5.0-megapixel, fixed focus
- 5.0-megapixel IR camera, fixed focus
- 5.0-megapixel IR camera, fixed focus, with AI chip

Power Supply

Power Supply

<table>
<thead>
<tr>
<th>Power</th>
<th>Type</th>
<th>Efficiency</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>180W</td>
<td>Fixed</td>
<td>90%</td>
<td>100V - 240V, 50-60Hz</td>
</tr>
<tr>
<td>230W</td>
<td>Fixed</td>
<td>92%</td>
<td>100V - 240V, 50-60Hz</td>
</tr>
</tbody>
</table>

DESIGN

Display

<table>
<thead>
<tr>
<th>Display</th>
<th>Size</th>
<th>Resolution</th>
<th>Touch</th>
<th>Type</th>
<th>Brightness</th>
<th>Surface</th>
<th>Aspect Ratio</th>
<th>Contrast Ratio</th>
<th>Color Gamut</th>
<th>Viewing Angle</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>23.8&quot;</td>
<td>FHD</td>
<td>(1920x1080)</td>
<td>None</td>
<td>IPS</td>
<td>250 nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>1000:1</td>
<td>72% NTSC</td>
<td>horizontal: +/-89°, vertical: +/-89°</td>
<td>Borderless design</td>
</tr>
<tr>
<td>23.8&quot;</td>
<td>FHD</td>
<td>(1920x1080)</td>
<td>Multi-touch</td>
<td>IPS</td>
<td>250 nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>1000:1</td>
<td>72% NTSC</td>
<td>horizontal: +/-89°, vertical: +/-89°</td>
<td>Borderless design</td>
</tr>
<tr>
<td>23.8&quot;</td>
<td>QHD</td>
<td>(2560x1440)</td>
<td>None</td>
<td>IPS</td>
<td>300 nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>1000:1</td>
<td>72% NTSC</td>
<td>horizontal: +/-89°, vertical: +/-89°</td>
<td>borderless, 100Hz</td>
</tr>
</tbody>
</table>
Touchscreen
- Capacitive-type multi-touch, supports 10-point touch
- Non-touch

Notes:
1. California Electronic Waste Recycling Fee
   In California, per state law, Lenovo charges an electronic waste recycling fee on this covered device at the time of sale of the product.
   For more information, go to https://www.calrecycle.ca.gov/Electronics/Consumer

Input Device
Pen
No support

Keyboard
- Euterpe Wireless Keyboard, grey
- Lenovo Calliope Keyboard (USB connector), black
- Lenovo Calliope Wireless Keyboard, black

Mouse
- Lenovo Calliope Mouse (USB connector), black
- Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black
- Euterpe Wireless Mouse, grey

Mechanical
Form Factor
AIO (23.8 inches)

Dimensions (WxDxH)
541.2 x 187.57 x 433.38 mm (21.3 x 7.38 x 17.06 inches)

Packaging Dimensions (WxDxH)
187.57 x 541 x 433.38 mm (7.38 x 21.29 x 17.26 inches)

Weight

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discrete graphic model</td>
<td>8.07 kg (17.79 lbs)</td>
</tr>
<tr>
<td>Integrated graphic model</td>
<td>7.57 kg (16.68 lbs)</td>
</tr>
</tbody>
</table>

Packaging Weight
- Discrete graphic model: 11.81 kg (26.03 lbs)
- Integrated graphic model: 11.29 kg (24.89 lbs)

Case Color
Storm grey

Bays
No bays

Expansion Slots
Two M.2 slots (one for WLAN, one for SSD)

Stand
Monitor stand, supports -5° to +25° tilt

Others
(Optional) Wireless charger 15W

CONNECTIVITY

Network
Onboard Ethernet
Gigabit Ethernet, 1x RJ-45

WLAN + Bluetooth®
• Wi-Fi® 5, 802.11ac 2x2 Wi-Fi + Bluetooth 5.0, M.2 card
• Wi-Fi 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.0, M.2 card

Notes:
1. Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitation

Ports[1]

Rear Ports[1][2]
• 1x USB 2.0
• 1x USB 3.2 Gen 2
• 1x USB-C® 2.0 Gen 2 with DisplayPort™-In function (Only for QHD models)
• 1x USB-C 3.2 Gen 2
• 1x HDMI 2.1 TMDS
• 1x HDMI-in
• 1x Ethernet (RJ-45)
• 1x headphone / microphone combo jack (3.5mm)
• 1x mode switcher
• 1x power connector

Left Ports
1x USB 3.2 Gen 1

Notes:
1. The transfer speed of following ports will vary and, depending on many factors, such as the processing speed of the host device, file attributes and other factors related to system configuration and your operating environment, will be slower than theoretical speed.
   - USB 2.0: 480 Mbit/s;
   - USB 3.2 Gen 1 (SuperSpeed USB 5Gbps, formerly USB 3.0 / USB 3.1 Gen 1): 5 Gbit/s;
   - USB 3.2 Gen 2 (SuperSpeed USB 10Gbps, formerly USB 3.1 Gen 2): 10 Gbit/s;
   - USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 Gbit/s;
   - Thunderbolt™ 3/4: 40 Gbit/s
2. For video ports on discrete graphics, please see graphics section

SECURITY & PRIVACY

Security
Security Chip
Firmware TPM 2.0 integrated in SoC

BIOS Security
• Administrator password
• Power-on password
• Hard disk password

MANAGEABILITY

System Management
System Management
None

SERVICE

Warranty
Base Warranty[1]
• 1-year mail-in service
• 1-year depot service
• 1-year limited onsite service
• 2-year depot service
• 3-year depot service
• OB
Notes:
1. More information of warranty policy, please access https://pcsupport.lenovo.com/warranty

ENVIRONMENTAL

Operating Environment

Temperature
• Operating: 5°C (41°F) to 35°C (95°F)
• Storage: -20°C (-4°F) to 60°C (140°F)

Humidity
• Operating: 20% to 80%
• Storage: 10% to 90%

Altitude
• Operating: 0 m (0 ft) to 3048 m (10,000 ft)
• Storage: 0 m (0 ft) to 12192 m (40,000 ft)

CERTIFICATIONS

Green Certifications

Green Certifications
• ErP Lot 3 and Lot 7
• RoHS compliant

Lenovo reserves the right to change specifications or other product information without notice. Lenovo is not responsible for photographic or typographical errors. LENOVO PROVIDES THIS PUBLICATION “AS IS,” WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore this disclaimer may not apply to you.

The specifications on this page may not be available in all regions, and may be changed or updated without notice.