Lifetrack

# PACS Hardware Requirements

**Version 1.0**

**Sep 29, 2026**

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The information contained in this document is accurate as of the date of publication. It may however become outdated quickly, because it deals with technical specifications and similar matters. For the latest information and version of Lifetrack's Platform Requirements, please visit https://lifetrackmed.com/en/platform-requirements/.

Lifetrack
Your PACS, Your Way.

# Lifetrack PACS
## Hardware Requirements

This document outlines the minimum and recommended hardware, software, and network requirements for Lifetrack PACS.

Hardware must meet the minimum specifications or better. Lifetrack's warranty, service, and support provisions are void when minimum specifications are not met. We strongly recommend meeting or exceeding the recommended specifications to use Lifetrack PACS at its highest performance.

## Servers

Considerations in choosing the type of server to install:

- Number of concurrent users
- Volume of cases
- Required level of redundancy

### Standard Rack Unit

#### Recommended

| Component | Specification |
|---|---|
| Form Factor | Rack Unit, Standard 2U Form Factor Server Case |
| Processor | Intel® Xeon® Silver 8 Processor or AMD equivalent |
| Memory | 32 GB RAM |
| Graphics | On-board Graphics Card |



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| | |
|---|---|
| Storage | Motherboard with RAID controller supporting RAID 1 / 5 / 6 / 10<br>2 identical HDDs of at least 1TB for RAID 1 archive (4 (or more) drives for RAID 6 strongly recommended)*<br>**Size of the drive may vary depending on the number of modalities, volume of studies stored and how long studies need to be stored* |
| Network Controller | Gigabit Ethernet LAN – 2 Ports |
| Operating System | Ubuntu Server (latest stable version) |
| UPS | Redundant 500W 2U Power Supply, Separate Smart-UPS 2000W, Hot-swappable Power Supply |

## Minimum

| Component | Specification |
|---|---|
| Form Factor | Rack Unit, Standard 2U Form Factor Server Case |
| Processor | Intel® Xeon® Bronze 8 Processor or AMD equivalent |
| Memory | 16 GB RAM |
| Graphics | On-board Graphics Card |
| Storage | Motherboard with RAID controller supporting RAID 1/ 5 / 6 / 10<br>2 identical HDDs of at least 1TB for RAID 1 archive (4 drives for RAID 6 strongly recommended)*<br>**Size of the drive may vary depending on the number of modalities, volume of studies stored and how long studies need to be stored* |
| Network Controller | Gigabit Ethernet LAN – 2 Ports |



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|---|---|
| Operating System | Ubuntu Server (latest stable version) |
| UPS | Redundant 500W 2U Power Supply, Hot-swappable Power Supply, Smart-UPS |

## Standard Tower Unit

### Recommended

| Component | Specification |
|---|---|
| Form Factor | Tower Unit |
| Processor | Intel® Core™ i7-10700 Processor or better, or AMD equivalent |
| Memory | 32 GB RAM |
| Graphics | On-board Graphics Card |
| Storage | Motherboard with RAID controller supporting RAID 1/ 5 / 6 / 10<br>2 identical HDDs of at least 1TB for RAID 1 archive (4 drives for RAID 6 strongly recommended)*<br>**Size of the drive may vary depending on the number of modalities, volume of studies stored and how long studies need to be stored* |
| Network Controller | Gigabit Ethernet LAN – 2 Ports |
| Operating System | Ubuntu Server (latest stable version) |
| UPS | Redundant 500W 2U Power Supply, Separate Smart-UPS 2000W, Hot-swappable Power Supply |

### Minimum



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| Component | Specification |
|---|---|
| Form Factor | Tower Unit |
| Processor | Intel® Core™ i7-10700 Processor or AMD equivalent |
| Memory | 16 GB RAM |
| Graphics | On-board Graphics Card |
| Storage | Motherboard with RAID controller supporting RAID 1/ 5 / 6 / 10<br>2 identical HDDs of at least 1TB for RAID 1 archive (4 drives for RAID 6 strongly recommended)*<br>**Size of the drive may vary depending on the number of modalities, volume of studies stored and how long studies need to be stored* |
| Network Controller | Gigabit Ethernet LAN – 2 Ports |
| Operating System | Ubuntu Server (latest stable version) |
| UPS | Redundant 500W 2U Power Supply, Hot-swappable Power Supply, Smart-UPS |

## NUC Server

### Recommended

| Component | Specification |
|---|---|
| Form Factor | NUC Platform |
| NUC Unit | Intel NUC i5 8th Generation or better |
| Memory | 32 GB RAM |
| Graphics | On-board Graphics Card |



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| | |
|---|---|
| Storage | RAID 6 (NAS) – Storage*<br>**Size of the drive may vary depending on the number of modalities, volume of studies stored and how long you want to store the studies* |
| Network Controller | Gigabit Ethernet LAN – 2 Ports |
| Operating System | Ubuntu Server (latest stable version) |
| UPS | Redundant 500W 2U Power Supply, Smart-UPS |

### Minimum

| Component | Specification |
|---|---|
| Form Factor | NUC Platform |
| NUC Unit | Intel NUC i5 8th Generation or better |
| Memory | 16 GB RAM |
| Graphics | On-board Graphics Card |
| Storage | RAID 6 (NAS) – Storage*<br>**Size of the drive may vary depending on the number of modalities, volume of studies stored and how long you want to store the studies* |
| Network Controller | Gigabit Ethernet LAN – 2 Ports |
| Operating System | Ubuntu Server (latest stable version) |
| UPS | Redundant 500W 2U Power Supply, Smart-UPS |

## HCI

### Recommended



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| Component | Specification |
|---|---|
| Processor | Single or Dual Intel Xeon, Gen 4, 64-Core/128T (2.25–3.4 GHz) |
| Memory | 64 GB RAM |
| Storage | 5 × 2.5" 4TB 6Gbps SATA Hot Swap Drive Bays; 2 × 2.5" 500 GB |
| RAID Controller | RAID levels 0, 1, 5, 6, 10 w/ non-volatile cache on board |
| NIC Ports | 4 × 1 GbE Ports |
| Operating System | Ubuntu Server (latest stable version) |
| UPS | 120–240V AC 60Hz with (1) unit UPS 1000VA (as back-up) |

### Software

- Virtualization Software (for VMs and Storage services (vSAN))
- Virtualization management console

### Technical Specifications

- Redundant/dual power supply (Hot Pluggable)
- Redundant cooling fans
- Rack-mountable with kits
- With all the required cables, connectors, and other peripherals

### Applications

- Lifetrack PACS
- Database → mysql Ver 14.14 Distrib 5.7.29

### Network

- Public IP



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- Private IP

## Workstations

Operating System – Lifetrack is agnostic and works with any operating system that can run a Chromium-based browser. For optimum performance, Lifetrack recommends using the latest version.

### Compatible Browsers

- Google Chrome
- Brave
- Chrome-based Microsoft Edge
- Chromium

### American College of Radiology (ACR) Monitor Spec Requirements

| Specification | Requirement |
|---|---|
| Graphic Bit Depth | At least 8-bit |
| Brightness | At least 350 cd/$m^2$ |
| Pixel Pitch | Approximately 0.200mm to 0.210mm |
| Aspect Ratio | 3:4 or 4:5 |

## Standard Radiology Reading Station

| Component | Recommended (Discrete GPU) |
|---|---|
| Processor | Intel Core i7-14700 or AMD Ryzen 7 7700X |
| Memory | 32 GB DDR5 RAM |
| Graphics | NVidia RTX 4060 Ti (16GB) or AMD RX 7700 XT |
| Hard Drive | 1 TB NVMe SSD or higher |



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| | |
|---|---|
| Browser | Google Chrome (Latest) |
| Operating System | Windows 11 (24H2+) / macOS 15+ |
| Dual Monitor | Single QHD (2560 × 1440) @ 60HzSingle 4K (3840 × 2160) @ 60Hz+ |
| ISP | Primary Fiber + 5G/Starlink Backup |
| Internet Speed | 100 Mbps Symmetrical or higher |

[1] *Integrated graphics suitable for diagnostic review in standard configurations.*

## NUC Radiology Reading Station

### Recommended

| Component | Specification |
|---|---|
| NUC Unit | Intel NUC 12th Generation |
| Memory | 16 GB RAM |
| Graphics | On-board Graphics Card |
| Storage | 1 TB SSD |
| Operating System | Windows, Mac OS, Linux, Android |
| Monitor Options | Two 27" QHD monitors (2560 × 1440) – OR – One 27" QHD + One 28" UHD (3840 × 2160) |

### Minimum

| Component | Specification |
|---|---|
| NUC Unit | Intel NUC 12th Generation |
| Memory | 8 GB RAM |
| Graphics | On-board Graphics Card |
| Storage | 512 GB SSD |



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| | |
|---|---|
| Operating System | Windows, Mac OS, Linux, Android |
| Monitor Options | Two 27" QHD monitors (2560 × 1440) – OR – One 27" QHD + One 28" UHD (3840 × 2160) |

## Clinical and Radiographer Workstation

### Minimum

| Component | Specification |
|---|---|
| Processor | Intel® Core™ i5 12th Generation |
| Memory | 8 GB RAM |
| Graphics | On-board Graphics Card |
| Storage | 512 GB SSD |
| Operating System | Windows, Mac OS, Linux, Android |
| Additional Devices | CD Writer, Printer |



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