

Install Nanopore MinKNOW Software on Windows computer

Version: March 2025



Install Nanopore MinKNOW software

Minimal Requirements for Computer/Laptop to install and run MinKNOW:

Host computer specification

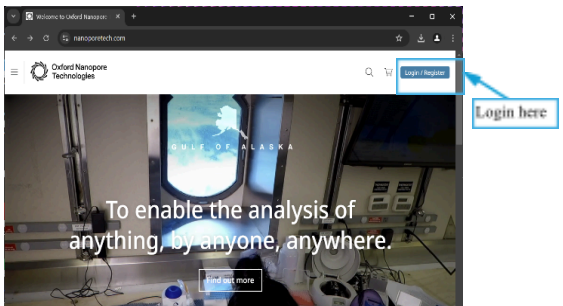
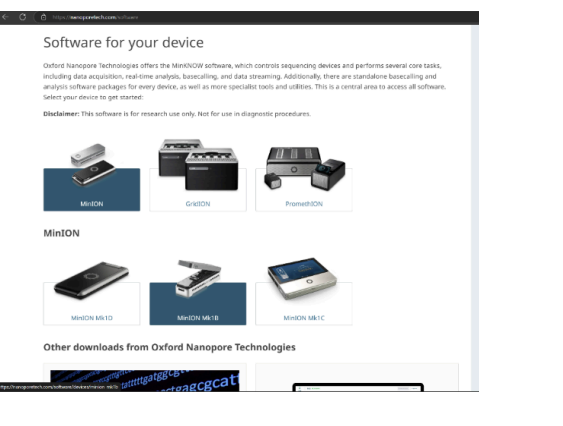
From MinKNOW v23.07 onwards, our new basecaller Dorado is integrated into MinKNOW. This enables accelerated basecalling on both NVIDIA GPUs and Apple Silicon. We strongly recommend using an NVIDIA GPU or Apple Silicon Mac if you want basecalling to keep up with the rate of data generation.

| Component | Required specification: GPU high-accuracy basecalling | Required specification: data acquisition/CPU basecalling (note: CPU basecalling performance is limited - a GPU is recommended) |
|------------------|---|--|
| Operating system | Windows – 11 and 10 macOS – Sonoma (14), Ventura (13), Monterey (12) Linux – Ubuntu 22.04 and 20.04 | Windows – 11 and 10 macOS – Sonoma (14), Ventura (13), Monterey (12) Linux – Ubuntu 22.04 and 20.04 |
| Memory/RAM | 16 GB RAM or higher | 16 GB RAM or higher |
| CPU | Intel i7, i9, Xeon, or better, with at least 4 cores/8 threads Ryzen 5, 7, or better, with at least 4 cores/8 threads Apple silicon (M1, M2) | Intel i7, i9, Xeon, or better, with at least 4 cores/8 threads Ryzen 5, 7, or better, with at least 4 cores/8 threads Apple silicon (M1, M2) |
| GPU | NVIDIA GPU RTX 2060 SUPER or better, with at least 8 GB of GPU memory. Technical information can be found on various websites, for example https://www.techpowerup.com/gpu-specs/ . Widely-available examples include the RTX 2060 SUPER, RTX 2070, RTX 3060, RTX 3070. Ampere-based GPUs (the 3000 series, A series etc.) are particularly recommended for optimal performance. Apple silicon (M1, M2) If you are working with a different type of GPU than the models listed above, please ensure that it has a CUDA Compute Capability >6.1 (for more information about CUDA-enabled GPUs, see the NVIDIA website). | - |
| Storage | 1 TB internal SSD or higher | 1 TB internal SSD or higher |
| Ports | USB3.0 | USB3.0 |

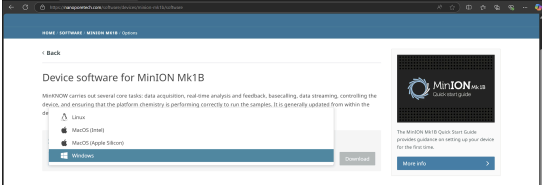
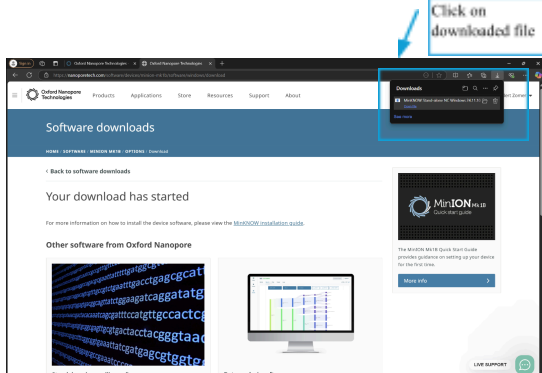
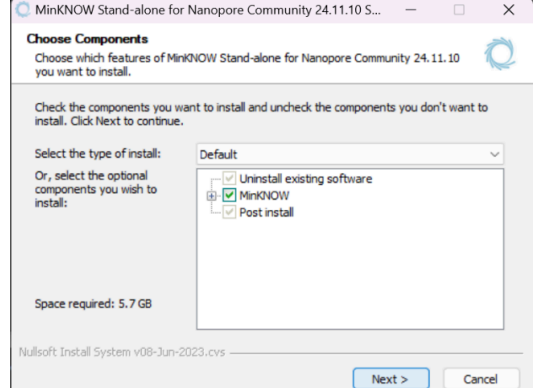
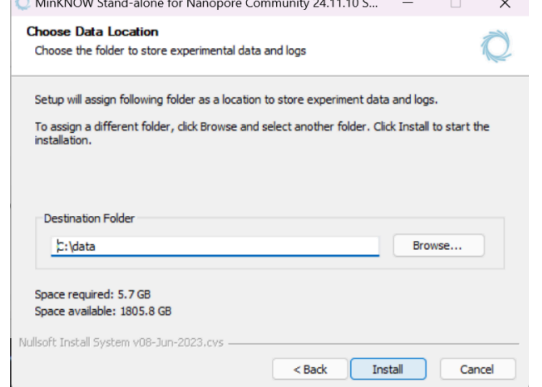

We recommend internal solid-state storage for MinKNOW installation as well as data output/acquisition. Solid-state drives are much faster than traditional hard drives and are able to keep up with the flow of data generated during a sequencing run.

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| | |
|---|--|
| <p>Navigate to Nanoporetech website:</p> <p>https://nanoporetech.com/</p> <p>Click on Login / Register</p> |  |
| <p>Login with an existing account</p> <p>Or</p> <p>Create a new account by clicking “Don’t have an account? Register here”</p> <p>After registration, login with the new account</p> |  |
| <p>Go to software subpage</p> <p>Software downloads Oxford Nanopore Technologies</p> <p>or</p> <p>https://nanoporetech.com/software</p> <p>Select your device</p> <ul style="list-style-type: none">- MinION- MinION Mk1B |  |
| <p>On Nanoporetech Software website for MinION Mk1B, get the latest device software:</p> <ul style="list-style-type: none">- Click on “Download & install options” <p>Additional</p> <p>On this webpage, more information can be found:</p> <ul style="list-style-type: none">- the MinION Mk1B user manual- troubleshooting Q&As- MinION Mk1B IT requirements- MinION Mk1B technical specifications |  |

Install Nanopore MinKNOW software

| | |
|--|--|
| <p>Select device software for MinION Mk1B</p> <p>“Windows” And click “Download”</p> |  |
| <p>Wait till download has finished and click on the downloaded file</p> |  |
| <p>Do not change default settings: All components are checked and will be installed.</p> <p>Click “next”</p> |  |
| <p>Choose data location.</p> <p>If no preference, keep default folder</p> <p>Click “install”</p> |  |
| <p>After installation, the MinKNOW software is available and a desktop shortcut is created</p> |  |

Install Nanopore MinKNOW software

MinKNOW software can be started by clicking on Desktop Shortcut Icon

