Install Nanopore EPI2ME Software on Windows computer

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Utrecht University

World Health Organization

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

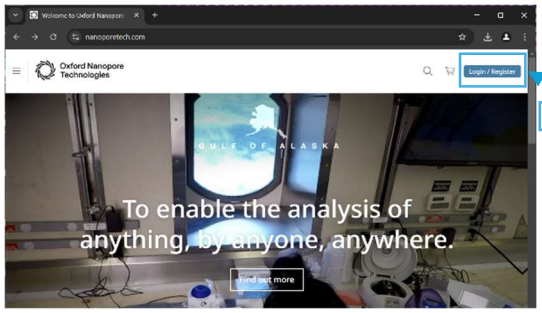
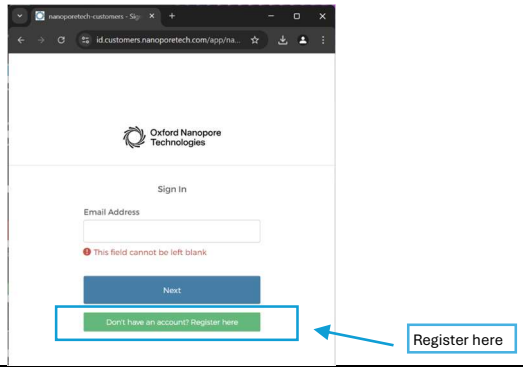
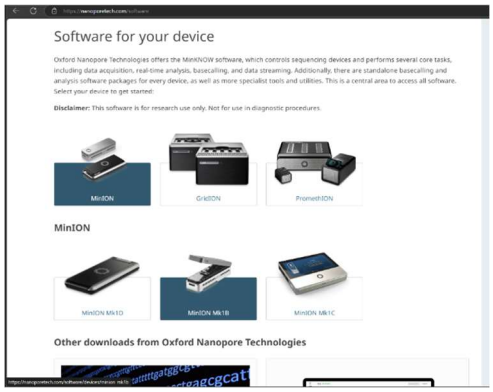
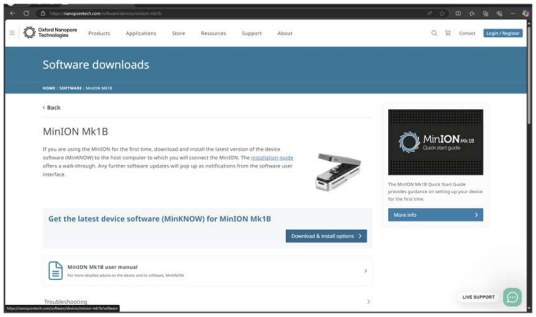
Host computer specification

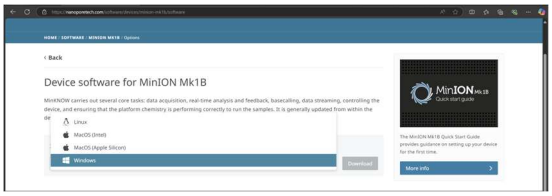
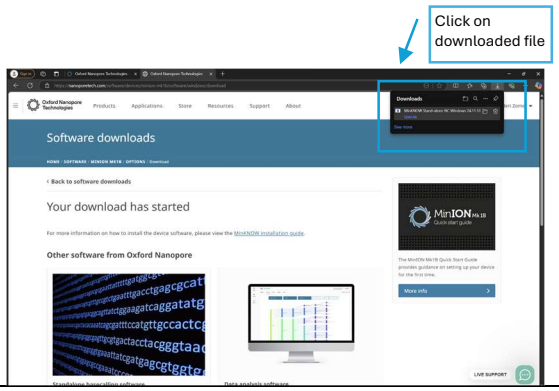
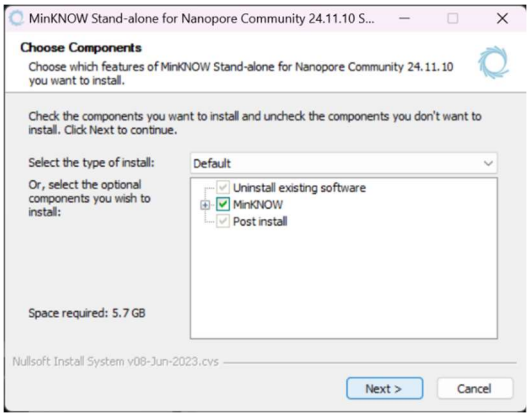
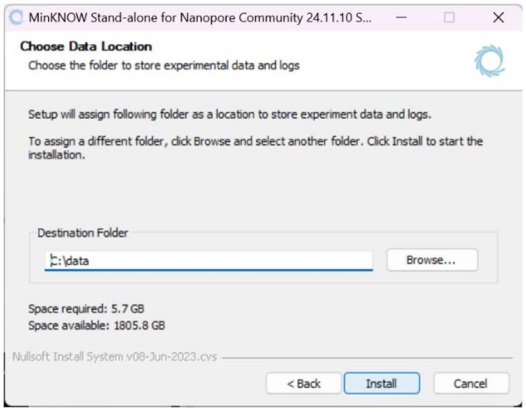
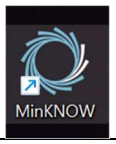
From MinKNOW v23.07 onwards, our new basecaller Dorado is integrated into MinKNOW. This enables accelerated basecalling on both NVIDIA GPUs and Apple Silicon. We strongly recommend using an NVIDIA GPU or Apple Silicon Mac if you want basecalling to keep up with the rate of data generation.

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.

Install Nanopore MinKNOW software on Windows computer

Navigate to Nanoporetech website: https://nanoporetech.com/ Click on Login / Register	
Login with an existing account Or Create a new account by clicking "Don't have an account? Register here" After registration, login with the new account	
Go to software subpage Software downloads | Oxford Nanopore Technologies or https://nanoporetech.com/software Select your device - MinION - MinION Mk1B	
On Nanoporetech Software website for MinION Mk1B, get the latest device software: - Click on "Download & install options" Additional On this webpage, more information can be found: - the MinION Mk1B user manual - troubleshooting Q&As - MinION Mk1B IT requirements - MinION Mk1B technical specifications	

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

MinKNOW software can be started by clicking on Desktop Shotcut Icon