

Oxford NANOPORE Technologies PromethION 24 Combined High-Throughput High-Sample Number Benchtop System



Oxford NANOPORE Technologies PromethION 24 Combined High-Throughput High-Sample Number Benchtop System User Guide

[Home](#) » [Oxford Nanopore Technologies](#) » Oxford NANOPORE Technologies PromethION 24 Combined High-Throughput High-Sample Number Benchtop System User Guide 

Contents

- [1 Oxford NANOPORE Technologies PromethION 24 Combined High-Throughput High-Sample Number Benchtop System](#)
- [2 Product Information](#)
- [3 Product Usage Instructions](#)
- [4 FAQ](#)
- [5 Power on your PromethION 24 Combined](#)
- [6 Check for updates](#)
- [7 Perform hardware check](#)
- [8 Discover the Nanopore Community](#)
- [9 Additional information](#)
- [10 Device connections](#)
- [11 Technical specification](#)
- [12 CONTACT](#)
- [13 Documents / Resources](#)
 - [13.1 References](#)
- [14 Related Posts](#)



Oxford NANOPORE Technologies PromethION 24 Combined High-Throughput High-Sample Number Benchtop System



Product Information

Specifications

- **Product Name:** PromethION 24 Combined
- **Manufacturer:** Oxford Nanopore Technologies
- **Model:** PromethION 24 Combined
- **Website:** community.nanoporetech.com/to/promethion
- **Support:** community.nanoporetech.com/to/safety

Product Usage Instructions

Powering On the Device

1. Turn on the power at the mains socket (if present) and toggle the power switch at the rear of the Sequencing Unit.
2. Wait for 3 minutes.
3. Turn on the mains power switch (if present) and press the power button on the Data Acquisition Unit.
4. The boot screen will appear on the monitor.

Logging In

1. Log in to your PromethION using the password: prom.
2. Open MinKNOW by clicking the wheel icon on the desktop and log in using your Nanopore Community account.

Checking for Updates

The latest MinKNOW software updates are essential for optimal function. Follow the steps below:

1. New software updates will be displayed automatically when opening MinKNOW.
2. To manually check and install updates, navigate to Host settings in the side bar, then Software, and finally Install update in the MinKNOW panel.

Performing Hardware Check

Before initiating your first sequencing run, perform a hardware check following steps:

1. Insert the CTCs as indicated.
2. In MinKNOW, click on the PromethION symbol, then Start in the left side panel.
3. Select Hardware check.
4. Click the white boxes under the PromethION positions panel.
5. Initiate the check by clicking Start in MinKNOW software.
6. Ensure each flow cell position displays a green tick box to pass the hardware check.
7. Remove the CTCs upon completion of the check.

Powering Down the Device

1. Ensure no experiments are running and remove all flow cells or CTCs.
2. In the sidebar, select Host settings, then click the Shutdown button in the main window.
3. Confirm shutdown in the pop-up box.
4. Only turn off the Sequencing Unit using the power switch.

FAQ

- **Q:** What should I do if my hardware check fails?
- **A:** If your hardware check fails, refer to the Support section in Additional Information or consult the user manual available at community.nanoporetech.com/to/promethion for further assistance.

STOP!

An Oxford Nanopore Technologies Engineer will unpack and install your device. You should not unpack or install your PromethION™ 24 Combined.

This Quick Start guide will tell you everything you need to do to check your hardware before you start sequencing following your device installation by an Oxford Nanopore Technologies Engineer.

Before using the device, familiarise yourself with the following:

PromethION 24 Combined user manual

community.nanoporetech.com/to/promethion



Safety and regulatory information

community.nanoporetech.com/to/safety



For detailed information and troubleshooting, view the user manual.

Power on your PromethION 24 Combined

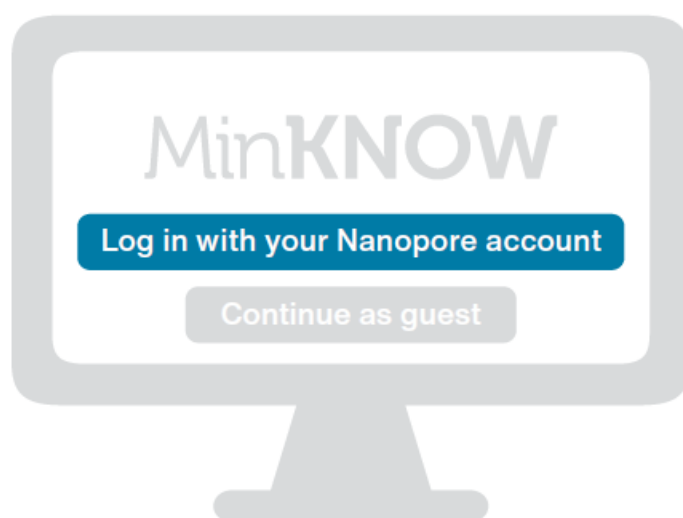
Important: Power on your device precisely following the steps below. Refer to the device diagram on page 6 of this Quick Start guide to help locate the power switches on the device units.

1. Turn on the power at the mains socket (if present) and then toggle the power switch at the rear of the Sequencing Unit.
2. Wait 3 minutes.
3. Turn the mains power switch on (if present) and press the power button on the top of the Data Acquisition Unit.

The boot screen will appear on the monitor.

Log in to your device

1. Log in to your PromethION Password: prom
2. Open MinKNOW™ Click the wheel icon on the desktop and log in using your Nanopore Community account.



Tip: View the pop-up tutorials to learn how to navigate the user interface.

Check for updates

- The latest MinKNOW is needed for optimal function and the most recent software features.
- New software updates will be displayed automatically when opening MinKNOW.
- You can also manually check and install updates following the workflow below.



Host settings
in side bar



Software
in side bar

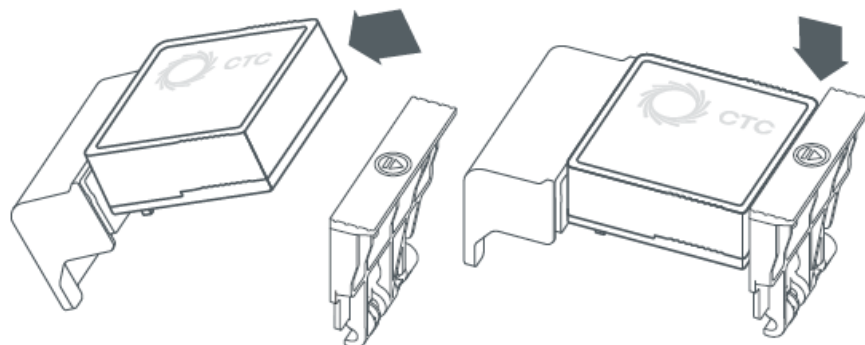



Install update in the
MinKNOW panel

Perform hardware check

A hardware check is needed before performing your first sequencing run. You will require your CTC and must follow the instructions below to do a hardware check.

1. Insert the CTCs as shown right.
2. Click on the PromethION symbol, then click Start in the left side panel.



3. Click Hardware check.
4. Click the white boxes under the PromethION positions panel.
5. Click Start in the bottom right corner of the software in MinKNOW.
6. Check that each flow cell position shows a  (green tick box) to pass the hardware check.
7. Remove the CTCs after the check is complete.

Note: See Support in Additional information if your hardware check fails.
Refer to the user manual for more information community.nanoporetech.com/to/promethion.

Power down the device

Your PromethION must be shut down according to the steps below to prevent potential device errors.
Please place the Powering on and off your PromethION 24 Combined flyer that accompanies this Quick Start guide next to your PromethION device to support other users.

1. Ensure that no experiments are running and remove all flow cells or CTCs.
2. Select Host settings in the sidebar, then click the Shutdown button in the main window. Confirm shutdown in the pop-up box.
3. **Important:** Only turn off the Sequencing Unit (using the power switch on the back of the device) once the Data Acquisition Unit has fully shut down.
4. Turn off both devices at the main power supply.

Discover the Nanopore Community

community.nanoporetech.com



- Ensure the success of your nanopore sequencing project and stay up-to-date with the latest technology and protocol updates.
- Use the web browser on your PromethION to navigate to the Nanopore Community.



Additional information

Warranty



- A license and warranty can be purchased for your device here:
store.nanoporetech.com/device-warranty.html. Flow cell warranty:
community.nanoporetech.com/to/warranty.

Recycle used flow cells



- Oxford Nanopore is committed to environmental sustainability.
- You can help by sending your flow cells for recycling.
- Find out how: community.nanoporetech.com/support/returns.

Place your next order



- Buy more consumables at the Oxford Nanopore Store: store.nanoporetech.com.

Documentation



- Documentation for your device is available on the Nanopore Community: community.nanoporetech.com/docs.

Support

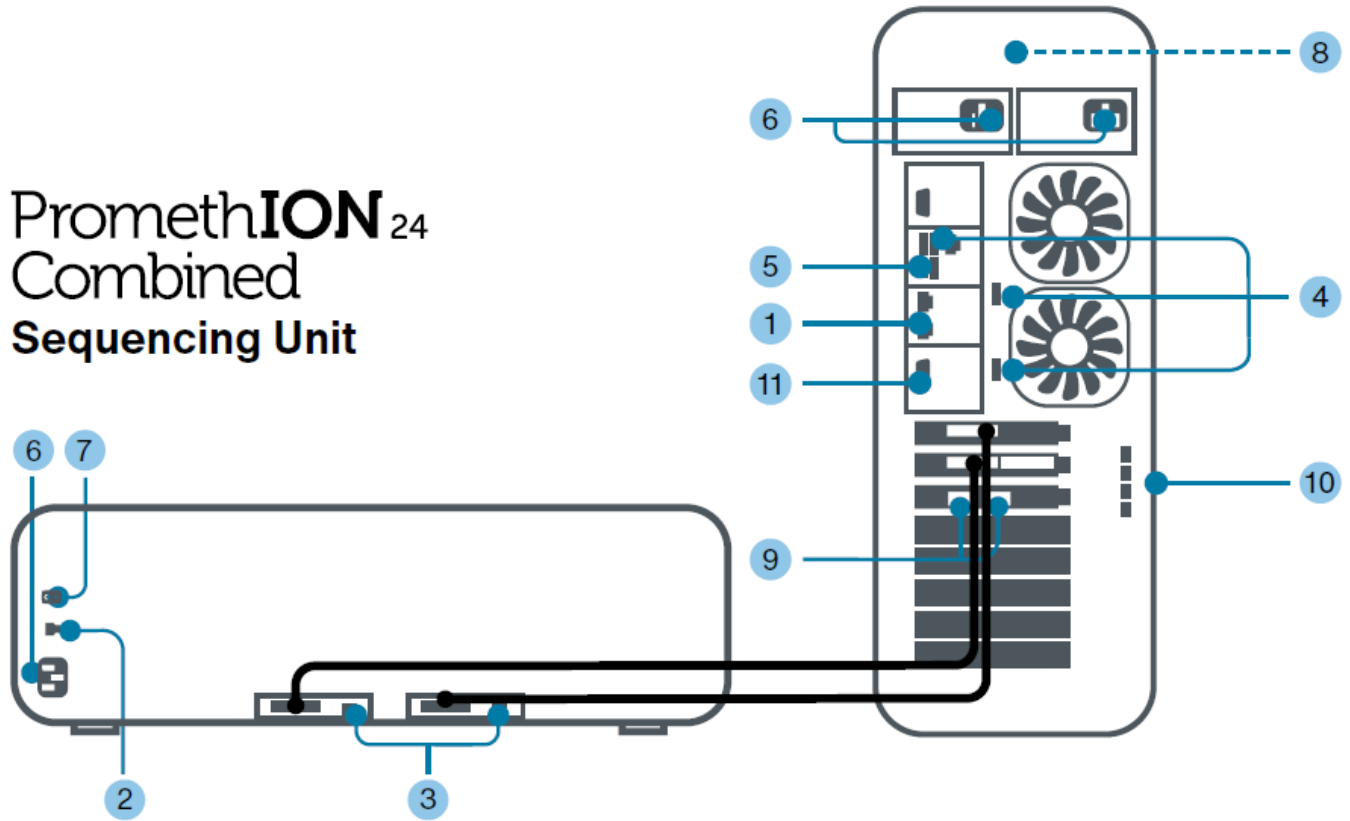


- For all of your customer and technical support needs, visit: nanoporetech.com/support or contact support@nanoporetech.com.

PromethION 24 Combined

PromethION²⁴ Combined Combined Data Acquisition Unit

PromethION²⁴ Combined Sequencing Unit



Device connections

1. 10G Ethernet ports
2. USB-B port
3. USB-Mini ports
4. USB-A ports
5. USB-C port
6. Power sockets
7. Power on/off – Sequencing Unit
8. Power on/off – Data Acquisition Unit
9. Fibre module cages
10. Mini DisplayPort
11. VGA port

Technical specification

	PromethION 24 Combined	
Model number	PRO-CMB024	
Device units	Sequencing Unit	Data Acquisition Unit
Supply voltage (V)	100-240 AC \pm 10% (50/60 Hz)	220-240 AC \pm 10% (50/60 Hz)
Maximum rated current (A)	12	12-11 A (220-240 VAC)
Maximum rated power (W)	1200	2200
Peak power performance consumption (W)	1200	2450
Size (H x W x D) (mm)	190 x 590 x 430	470 x 178 x 440
Weight (kg)	28	26
Installation ports	1 x Power socket 2 x USB mini-B port 1 x USB Type-B port	2 x 2.2kW Power sockets 4 x Mini DisplayPorts 5 x USB Type-A 1 x USB Type C 2 x 10G Ethernet Port 2 x Fibre Optic Ports 1 x VGA port
Software installed	Ubuntu, MinKNOW	
Computer specification	2 x Intel 40-core CPU, 4 x NVIDIA Ampere-architecture GPU, 60 TB SSD Storage, 512 GB Memory	
Environmental conditions	<p>Functional range of electronics is within environmental temperatures of +5°C to +40°C</p> <p>Use within 30%-75% relative non-condensing humidity limits Designed to sequence in environmental temperatures of +18°C to +22°C</p> <p>Users should allow 30 cm clearance to the rear and sides of the device</p> <p>WARNING: The rear of the instrument heats up during operation</p> <p>WARNING: Heavy equipment. Two-person lifting is required for the device. Combined weight over 50 kg</p> <p>Intended for indoor use</p> <p>Can be used up to altitudes of 2,000 m The is a Pollution Degree 2 device</p> <p>This is an Overvoltage 2 device</p> <p>1.67 x 0.77 m minimum bench space required for suitable spacing and placement.</p>	

CONTACT


Oxford Nanopore Technologies

- phone +44 (0)845 034 7900
- email support@nanoporetech.com
- @nanopore
- Oxford Nanopore Technologies plc
- Gosling Building
- Edmund Halley Road
- Oxford Science Park OX4 4DQ
- United Kingdom

www.nanoporetech.com

Oxford Nanopore Technologies, the Wheel icon, MinKNOW, and PromethiON are registered trademarks of Oxford Nanopore Technologies plc in various countries. All other brands and names contained are the property of their respective owners. © 2024 Oxford Nanopore Technologies plc. All rights reserved. Oxford Nanopore Technologies products are not intended for use for health assessment or to diagnose, treat, mitigate, cure, or prevent any disease or condition. ONT-08-01164-00 Rev 2 BR_1231(EN)_V2_01June2024

Documents / Resources

	<p>Oxford NANOPORE Technologies PromethION 24 Combined High-Throughput High-Sample Number Benchtop System [pdf] User Guide</p> <p>PromethION 24 Combined High-Throughput High-Sample Number Benchtop System, Combined High-Throughput High-Sample Number Benchtop System, Throughput High-Sample Number Benchtop System, High-Sample Number Benchtop System, Number Benchtop System, Benchtop System</p>
--	--

References

- [Oxford Nanopore Support | Oxford Nanopore Technologies](#)
- community.nanoporetech.com/docs
- [nanoporetech-customers - Sign In](#)
- [Community](#)
- [Community](#)
- [Oxford Nanopore Support | Oxford Nanopore Technologies](#)
- store.nanoporetech.com
- store.nanoporetech.com/device-warranty.html
- [Welcome to Oxford Nanopore Technologies](#)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.