

**MinION**  
MinION Mk1D Portable  
Nanopore Sequencing  
Device



# MinION Mk1D Portable Nanopore Sequencing Device User Guide

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**MinION**

**MinION Mk1D Portable Nanopore Sequencing Device**



### **Specifications:**

- Model number: MIN-101D
- Supply voltage (V): 130
- Maximum rated current (A): 5 DC
- Installation ports: USB-C

### **Product Usage Instructions**

#### **Pre-installation**

Before using the MinION Mk1D, make sure to review the IT requirements, user manual, safety, and regulatory information provided.

#### **Installation and Setup**

1. Check your computer meets the IT requirements.
2. Install the latest MinKNOW software for MinION Mk1D and P2 Solo from the official website.
3. Log in to MinKNOW using your Oxford Nanopore account details.v

#### **Setup Your MinION Mk1D**

1. Connect the MinION to your computer using the provided USB-C cable.
2. Insert the Configuration Test Cell (CTC) by following the provided instructions.

#### **Performing a Hardware Check**

1. Initiate a hardware check within the MinKNOW software.
2. Follow the on-screen instructions to complete the hardware check.
3. Ensure the flow cell position in MinKNOW shows “Hardware check passed” after completion.

## Additional Information

Explore the Nanopore Community for further support, protocols, forums, and downloads. Utilize available resources for warranty, recycling, ordering consumables, documentation, and support.

## FAQ

- **Q: What should I do if the hardware check fails?**

A: If the hardware check fails, ensure the CTC is fully inserted and repeat the hardware check. If issues persist, contact technical support using the details provided in the guide.

- **Q: How can I recycle used flow cells?**

A: Oxford Nanopore promotes environmental sustainability by accepting used flow cells for recycling. Visit the Nanopore Community to learn how to send your flow cells for recycling.

## Pre-installation

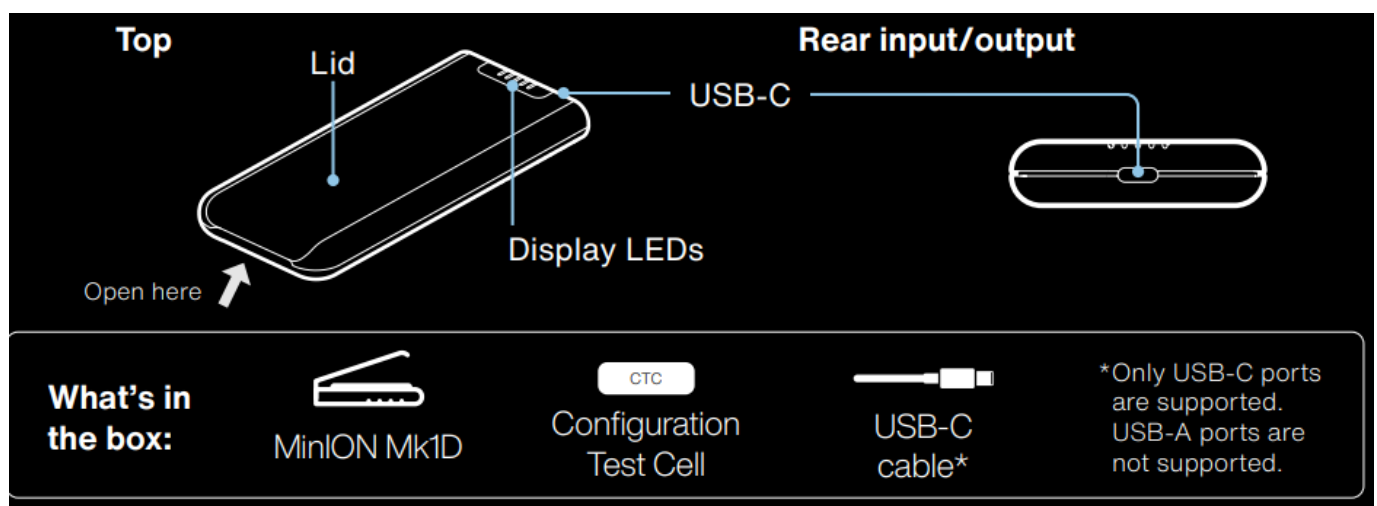
This Quick start guide contains everything you need to set up your MinION™ Mk1D and to check that the device is ready for use.

Before using the device, familiarise yourself with the following:

- IT requirements [community.nanoporetech.com/to/minion-it](https://community.nanoporetech.com/to/minion-it)
- MinION Mk1D user manual [community.nanoporetech.com/to/minmk1d](https://community.nanoporetech.com/to/minmk1d)
- Safety and regulatory information [community.nanoporetech.com/to/safety](https://community.nanoporetech.com/to/safety)

For detailed information and troubleshooting, view the user manual.

## MinION Mk1D



## Install and log in to MinKNOW™

1. Check your computer meets the IT requirements.
2. Install the latest MinKNOW for the MinION Mk1D and P2 Solo from [community.nanoporetech.com/downloads](https://community.nanoporetech.com/downloads). Once installed, open MinKNOW.
3. Log in to MinKNOW using your Oxford Nanopore account details.

## Set up your MinION Mk1D

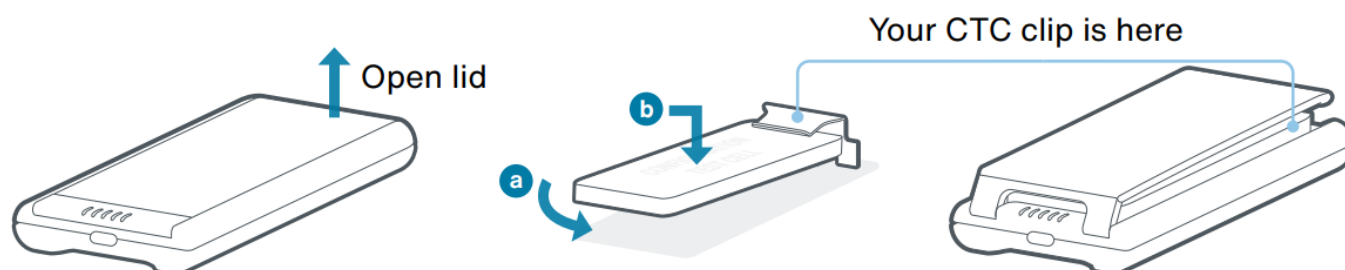
Connect the MinION to your computer using the USB-C cable\*.



## Insert your CTC

1. Lift the lid of the MinION.
2. Insert the Configuration Test Cell (CTC) a .

Ensure you press down firmly on the CTC b . Then close the MinION lid.



## Perform a hardware check

A hardware check is needed before your first sequencing run. To run a hardware check, follow the instructions below:

1. Click Start in the left side bar.
2. Click hardware check.
3. Click Start in the bottom right corner of MinKNOW. Wait for the hardware check to complete.
4. Check the flow cell position in MinKNOW shows “Hardware check passed” ✓.
5. Remove the CTC after you’re finished.

\*If the hardware check fails, ensure your CTC is fully inserted, then repeat the hardware check. Use the details in Additional information in this guide to contact technical support if your hardware check fails again.

## Discover the Nanopore Community

[community.nanoporetech.com](https://community.nanoporetech.com)

Discover the Nanopore Community to find protocols, forums, support and downloads for your experiments.

**Tip:** Learn how to analyse your nanopore data at: [nanoporetech.com/analyse](https://nanoporetech.com/analyse)

## Additional information

### Warranty

A license and warranty can be purchased for your device here: [store.nanoporetech.com/device-warranty.html](https://store.nanoporetech.com/device-warranty.html)

Flow cell warranty: [community.nanoporetech.com/to/warranty](https://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](https://community.nanoporetech.com/support/returns)

### Place your next order

Buy more consumables at the Oxford Nanopore Store: [store.nanoporetech.com](https://store.nanoporetech.com)

### Documentation

Documentation for your device is available on the Nanopore Community: [community.nanoporetech.com/docs](https://community.nanoporetech.com/docs)

### Support

For all of your customer and technical support needs, visit: [community.nanoporetech.com/support](https://community.nanoporetech.com/support)

## Technical specification

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              |               |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------|
| <b>Model number</b>              | MIN-101D                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Weight (g)</b>            | 130           |
| <b>Supply voltage (V)</b>        | 5 DC                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Installation ports</b>    | 1 x USB-C     |
| <b>Maximum rated current (A)</b> | 1.5                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Software installed</b>    | MinION driver |
| <b>Maximum rated power (W)</b>   | 7.5                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Compute specification</b> | N/A           |
| <b>Size (H x W x D) (mm)</b>     | 13 x 55 x 125                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |               |
| <b>Environmental conditions</b>  | Designed to sequence in environmental temperatures of +10°C to +35°C.<br><br>Functional range of electronics is within environmental temperatures of +5°C to +40°C.<br><br>5 cm clearance around the device is needed (for ventilation and temperature control) when in use. Use within 30%–75% relative non-condensing humidity limits.<br><br>Intended for indoor use.<br><br>Can be used up to altitudes of 2,000 m. The device has a Pollution Degree 2. |                              |               |

## Oxford Nanopore Technologies


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## Documents / Resources

|                                                                                   |                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b><a href="#">MinION Mk1D Portable Nanopore Sequencing Device</a></b> [pdf] User Guide<br>Mk1D Portable Nanopore Sequencing Device, Mk1D, Portable Nanopore Sequencing Device, Nanopore Sequencing Device, Sequencing Device, Device |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## References

- [Oxford Nanopore Support | Oxford Nanopore Technologies | Oxford Nanopore Technologies](#)
- [nanoporetech-customers - Sign In](#)
- [Oxford Nanopore Support | Oxford Nanopore Technologies | Oxford Nanopore Technologies](#)
- [nanoporetech-customers - Sign In](#)
- [MinION Mk1B IT requirements | Oxford Nanopore Technologies](#)
- [Oxford Nanopore Support | Oxford Nanopore Technologies | Oxford Nanopore Technologies](#)
- [Flow Cell Check \(PQE\\_1004\\_v1\\_revAJ\\_06Jan2016\) | Oxford Nanopore Technologies](#)
- [Oxford Nanopore technologies data analysis solutions | Oxford Nanopore Technologies](#)
- [Nanopore store: Store home](#)
- [Nanopore store: Device warranty](#)
- [Welcome to Oxford Nanopore Technologies | Oxford Nanopore Technologies](#)
- [User Manual](#)

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