



GridION GRD-MK1 Sequencing Device User Guide

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GridION

GridION GRD-MK1 Sequencing Device



Pre-installation

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

GridION user manual

community.nanoporetech.com/to/gridion



Safety and regulatory information

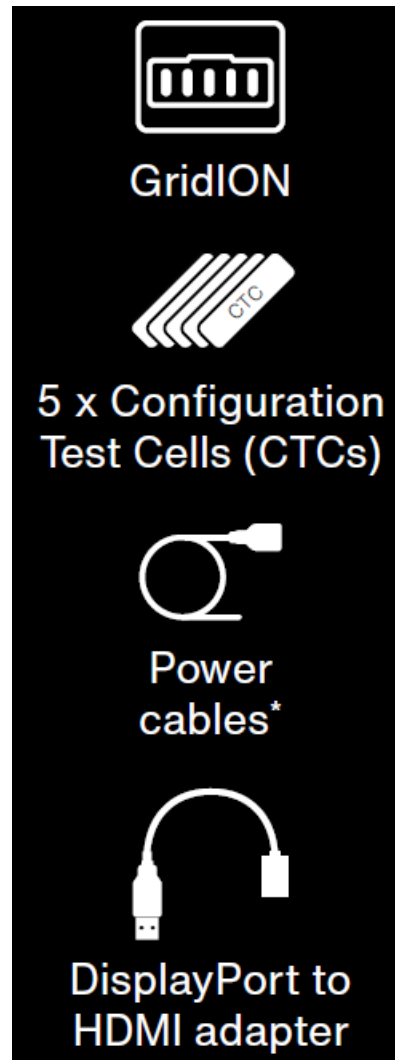
community.nanoporetech.com/to/safety



For detailed information and troubleshooting, view the user manual.

*The GridION Mk1 ships with 5 x power cables (1 US, 1 UK, 1 EU, 1 CN, 1 AUS) for international use.

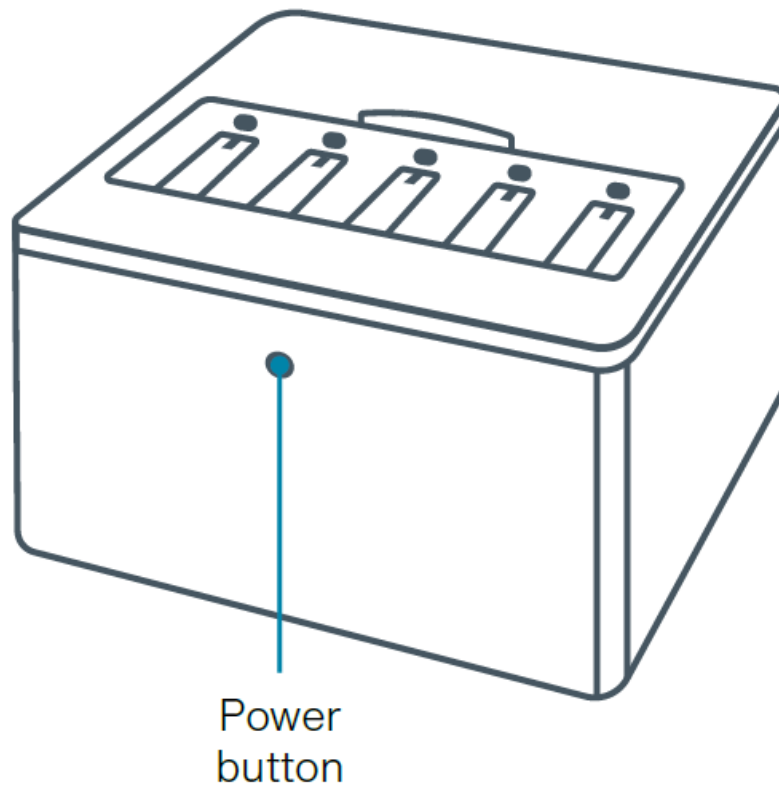
What's in the box



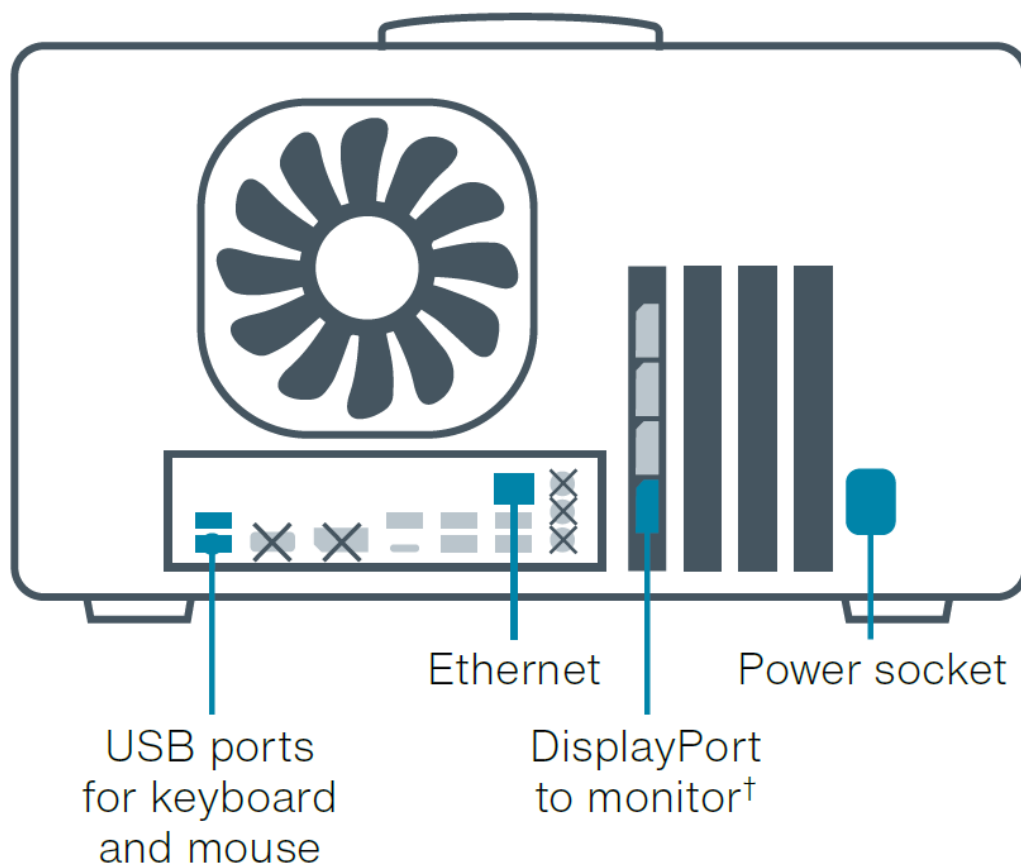
Set up your device

1. Unpack your GridION device*.
2. Attach the cables and peripherals as shown opposite.
3. Connect the power supply.

4. Press the power button.



Rear input/output



Only use the ports and connections coloured in blue for installation.

* Place device on a well-supported, strong, clean bench. Allow 30 cm clearance rear and sides, and do not cover ventilation grilles. See user manual for detailed installation advice.

† If using a HDMI-only monitor, use the included DisplayPort-to-HDMI adapter.

Log in to MinKNOW™

1. Log in to your GridION Password: grid.

2. Open MinKNOW

Click the wheel icon on the desktop to load MinKNOW, the device operating software.

3. Log in to MinKNOW

Use your Oxford Nanopore account details.

Note: follow the pop-up tutorials in MinKNOW to familiarise yourself with the software.



Update software

For the latest sequencing features, update MinKNOW:



Host settings
in side bar



Software
in side bar



Get update
in main panel

Power off the device (step 4).

Power off

Follow the workflow below to correctly power off your device:



Host settings
in side bar



Shutdown
in main panel



Shutdown
in pop-up box

When powering on the device again, wait 10 seconds before pressing the power button.
Repeat step 2 (Log in to MinKNOW) and then proceed to step 5 (Perform a hardware check).

Oxford Nanopore Technologies

phone +44 (0)845 034 7900

email support@nanoporetech.com

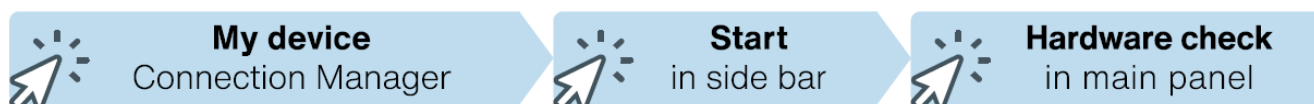
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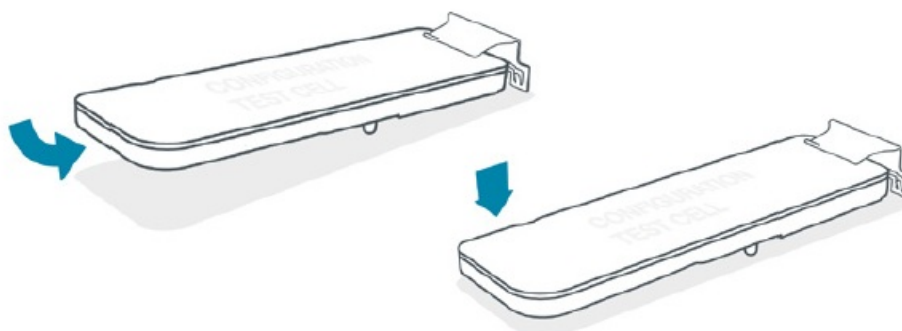
Perform a hardware check

A hardware check is required before performing your first GridION sequencing run. To run a hardware check, follow the on-screen instructions in MinKNOW, then follow the instructions below. You will require your five GridION Configuration Test Cells (CTCs).



Hardware check overview:

1. Insert the CTCs into the device as shown and close the lid of the device.
2. In the MinKNOW software, the flow cell status indicators (the five boxes) will change colour from grey to white.



3. Press Select all available. This will change the colour of the flow cell status indicators (the five boxes) on the MinKNOW hardware check panel to dark blue.
4. Press Start in the bottom right.
5. Check the flow cell positions show a to pass the hardware check.
6. Remove the CTCs from the flow cell positions after you complete the hardware check.

Note: If your hardware check fails, see Support in the Additional information section.

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.



Tip: Learn how to analyse your nanopore data at: nanoporetech.com/analyse



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: [community.nanoporetech.com/support](#)

Technical specification

	GridION Mk1	
Model number	GRD-MK1	
Supply voltage (V)	100-240 AC \pm 10% (50/60Hz)	
Maximum rated current (A)	6.5	
Maximum rated power (W)	650	
Size (H x W x D) (mm)	220 x 365 x 370	
Weight (kg)	14.4	
Installation ports	1 x Ethernet port (1 Gbps) 1 x HDMI/DisplayPort to monitor 1 x USB for keyboard	1 x USB for mouse 1 x Power socket
Software installed	Ubuntu, GridION OS, MinKNOW	
Compute specification	7 TB SSD storage, 64 GB RAM, minimum 8 core Intel CPU, 1 x Nvidia GV100	
Environmental conditions	<p>Functional range of electronics is within environmental temperatures of +5°C to +40°C. Users should allow 30 cm clearance to the rear and sides of the device.</p> <p>Designed to sequence in environmental temperatures of +18°C to +25°C. Intended for indoor use.</p> <p>Can be used up to altitudes of 2,000 m.</p> <p>Use within 30%–75% relative non-condensing humidity limits. The device has a Pollution Degree 2.</p> <p>WARNING: Rear of instrument heats up during operation.</p>	

Documents / Resources

	GridION GRD-MK1 Sequencing Device [pdf] User Guide GridION Mk1, GRD-MK1 Sequencing Device, GRD-MK1, Sequencing Device, Device
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References

- community.nanoporetech.com/docs
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- [Oxford Nanopore technologies data analysis solutions](#)
- [Oxford Nanopore technologies data analysis solutions](#)
- store.nanoporetech.com
- store.nanoporetech.com/device-warranty.html
- [Welcome to Oxford Nanopore Technologies](#)
- [User Manual](#)

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