High-throughput, real-time, and on-demand sequencing for your lab
“[With the GridION] we can have more than one flow cell starting at a different time, running different samples, running the same sample and don’t forget you can multiplex on them as well.”
GridION is a cost-effective and compact benchtop system offering on-demand sequencing with integrated real-time data processing.

With the capacity to run five flow cells either concurrently or individually, GridION provides busy labs and service providers with cost-efficient access to the advantages of long-read, real-time nanopore sequencing. Integrated, high-performance data processing alleviates the need for complex IT infrastructure.

* Flongle is a flow cell adapter for MinION and GridION, designed for rapid and cost-effective analysis of smaller tests and samples. Best customer yield, 1.8 Gb.
† Based on current, internal flow cell performance (theoretical performance of up to 15 Tb).
‡ Devices may be run for longer. 48 hours used for comparison purposes only.
Streamlined sample prep, on-demand sequencing, and

**Prepare**
- Streamlined library prep — in as little as 10 minutes, with multiplexing options
- Scale according to your needs — same chemistry and kits used for Flongle, MinION, GridION, and PromethION
- Run smaller sequencing tests and experiments or cost-effectively check your sample quality using Flongle on GridION

**Sequence**
- Sequence what you need, when you need it — no sample batching required
- Control each individual flow cell independently — run as many or as few as you wish at the same time, or add more whilst others are running
- GridION sequences DNA and RNA directly — meaning no amplification bias and retained modification information
real-time analysis for rapid access to insightful results

Analyse

- High-performance data processing capability with integrated basecall accelerator delivers real-time local analysis with no burden on existing IT infrastructure
- Use intuitive cloud-based or local EPI2ME workflows for real-time analysis, including species identification, antimicrobial resistance profiling, and reference sequence alignment
- Choose to output the raw signal, or basecalled .fastq files, so you can use your own custom analysis pipelines

Applications include:

- Flexible sequencing of whole genomes, targeted regions, and full-length RNA transcripts — all on one device
- Long reads enhance analysis of repetitive regions, structural variation, phasing, metagenomics, and more
- Quantify and characterise RNA splice variants, isoforms, and fusion transcripts

EPI2ME™

<table>
<thead>
<tr>
<th>Bioinformatic capability needed:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use cloud-based or local EPI2ME platform for real-time analysis workflows. <a href="http://nanoporetech.com/analyse">nanoporetech.com/analyse</a></td>
</tr>
</tbody>
</table>

Protocol builder & analysis tutorials

<table>
<thead>
<tr>
<th><a href="http://nanoporetech.com/knowledge">nanoporetech.com/knowledge</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Get analysis recommendations and clear tutorials on the use of open-source tools.</td>
</tr>
</tbody>
</table>

Community-developed tools

<table>
<thead>
<tr>
<th><a href="http://community.nanoporetech.com">community.nanoporetech.com</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Run open-source tools written and developed by the Nanopore Community.</td>
</tr>
</tbody>
</table>

Custom analysis pipelines

<table>
<thead>
<tr>
<th><a href="http://nanoporetech.com/products">nanoporetech.com/products</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>All the data, raw or basecalled, can be used in custom analysis pipelines written by the user for specific applications.</td>
</tr>
</tbody>
</table>
Choose your GridION Mk1 plan

<table>
<thead>
<tr>
<th></th>
<th>Starter Pack</th>
<th>CapEx</th>
</tr>
</thead>
<tbody>
<tr>
<td>GridION Mk1 device</td>
<td>1</td>
<td>1*</td>
</tr>
<tr>
<td>Flow cells</td>
<td>48†</td>
<td>48†</td>
</tr>
<tr>
<td>Sequencing kits</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Wash kits</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Software licence and device warranty‡</td>
<td>4 months</td>
<td>3 years</td>
</tr>
<tr>
<td>Delivery of device and consumables</td>
<td>Included</td>
<td>Included</td>
</tr>
<tr>
<td>Remote Installation Assurance</td>
<td>Included</td>
<td>Included</td>
</tr>
</tbody>
</table>

* Device purchase.
† To be shipped within 4 months of device delivery according to user’s schedule.
‡ Subsequent charge $12,500 per annum.

$49,955

Buy now store.nanoporetech.com

Service provider certification is also available for the GridION.
Supporting your research at every step

All GridION purchase plans include Remote Installation Assurance and expert support as standard — enabling easy device setup and complete optimisation of all your nanopore sequencing projects. Our technical specialists are available to answer all your questions on nanopore technology.

Remote Installation Assurance
- Remote walk-through and an overview of nanopore sequencing with Q&A
- Remote installation and configuration assistance
- Remote platform QC check

Expert support
- Access to Nanopore Community support features
- End-to-end online protocol builder
- Customer Services initial setup call
- Technical Support experimental setup call
- Live online chat with Technical Support
- Facility to book Technical Support sessions as required
## Training options to suit your laboratory’s needs

<table>
<thead>
<tr>
<th></th>
<th><strong>Rapid Start Day Training</strong></th>
<th><strong>Advanced Nanopore Training</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Location</strong>*</td>
<td>Oxford Nanopore labs or your site</td>
<td>Oxford Nanopore labs or your site</td>
</tr>
<tr>
<td><strong>Duration</strong></td>
<td>1 day</td>
<td>2 days</td>
</tr>
<tr>
<td><strong>Participants</strong></td>
<td>Private session with up to 2 participants</td>
<td>Private session with up to 4 participants</td>
</tr>
<tr>
<td><strong>Content</strong></td>
<td>Bespoke to suit your needs</td>
<td>Bespoke to suit your needs</td>
</tr>
<tr>
<td><strong>User-provided samples processed</strong></td>
<td>1 sample</td>
<td>Multiple samples</td>
</tr>
<tr>
<td><strong>Flow cells included</strong></td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td><strong>Kits included</strong></td>
<td>1–2†</td>
<td>2–3†</td>
</tr>
<tr>
<td><strong>Data analysis</strong></td>
<td>Basic</td>
<td>Advanced</td>
</tr>
<tr>
<td><strong>Cost</strong></td>
<td><strong>$6,000</strong></td>
<td><strong>$15,000</strong></td>
</tr>
</tbody>
</table>

* Third party reagents are provided only when training at Oxford Nanopore labs.
† Depending on application.

## Nanopore Workshops

Choose the Nanopore Introduction Workshop and/or Data Analysis Overview to learn the essentials of nanopore sequencing and data analysis (up to 18 participants). From $750 per person, per workshop, or $1,250 for both workshops.

[More information](store.nanoporetech.com/services)
Simple plug-and-play setup

1. Open the box
2. Place CAREFULLY on desktop
3. Put cable in the right hole...
4. Turn it on!
Product specifications

GridION Mk1*

- Up to 5 individually addressable flow cells
- 1 min – 72 hour run time
- As much as 150 Gb total yield across the device
- 2,560 channels across the device can be sequencing at once
- Ten times greater compute performance than GridION X5 Beta – enabling real-time basecalling alongside additional analysis, including consensus sequence generation, SV detection, transcriptome profiling, and more

**Power requirements:** 650 W

**Storage:** 4 TB SSD

**Memory:** 64 GB RAM

**Weight:** 11 kg

**Dimensions:** W 370 mm, H 220 mm, D 365 mm

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GridION Flow Cells

Same flow cells as MinION device.

- 1 min – 72 hour run time
- Up to 30 Gb per flow cell (theoretical maximum up to 50 Gb)
- 512 channels

Flongle

MinION/GridION flow cell adapter for more cost-effective sequencing of smaller tests and experiments.

- Up to 24 hour run time
- Up to 1.8 Gb – customer best, November 2018 (theoretical maximum up to 3.3 Gb)
- 126 channels

* Standard computer monitor, keyboard and mouse required.