



PromethION

Flexible, high-output, real-time sequencing for every lab



ASK BOLDER QUESTIONS

Delivering any read length, ultra-rich datasets, and real-time insights, nanopore sequencing answers the bigger, bolder research questions that you always wanted to ask. Welcome to sequencing without compromise.



Unrestricted read length
From short to ultra-long (>4 Mb)



Direct sequencing
No amplification bias plus built-in methylation detection



Real-time analysis
Immediate access to actionable results



Scalable
Portable to ultra-high throughput



Accessible and affordable
Low-cost starter packs with no upfront capital cost

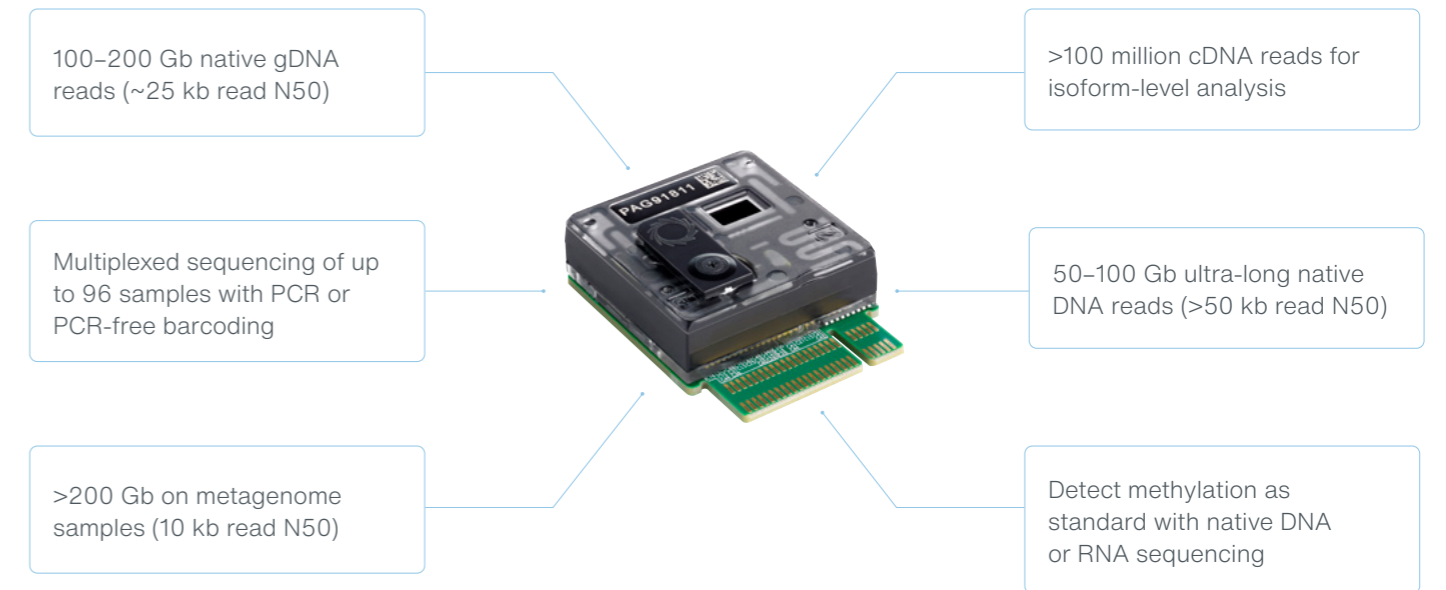


Rapid and simple
From 10-minute library prep and end-to-end workflows

MAKE NO COMPROMISES

What could you do with one PromethION™ Flow Cell?

Only nanopore sequencing combines real-time data delivery with the ability to reveal accurate, rich biological data through the analysis of short to ultra-long fragments (20 bases to >4 million bases) of native DNA or RNA.



Assembly



SNPs & phasing



Structural variants



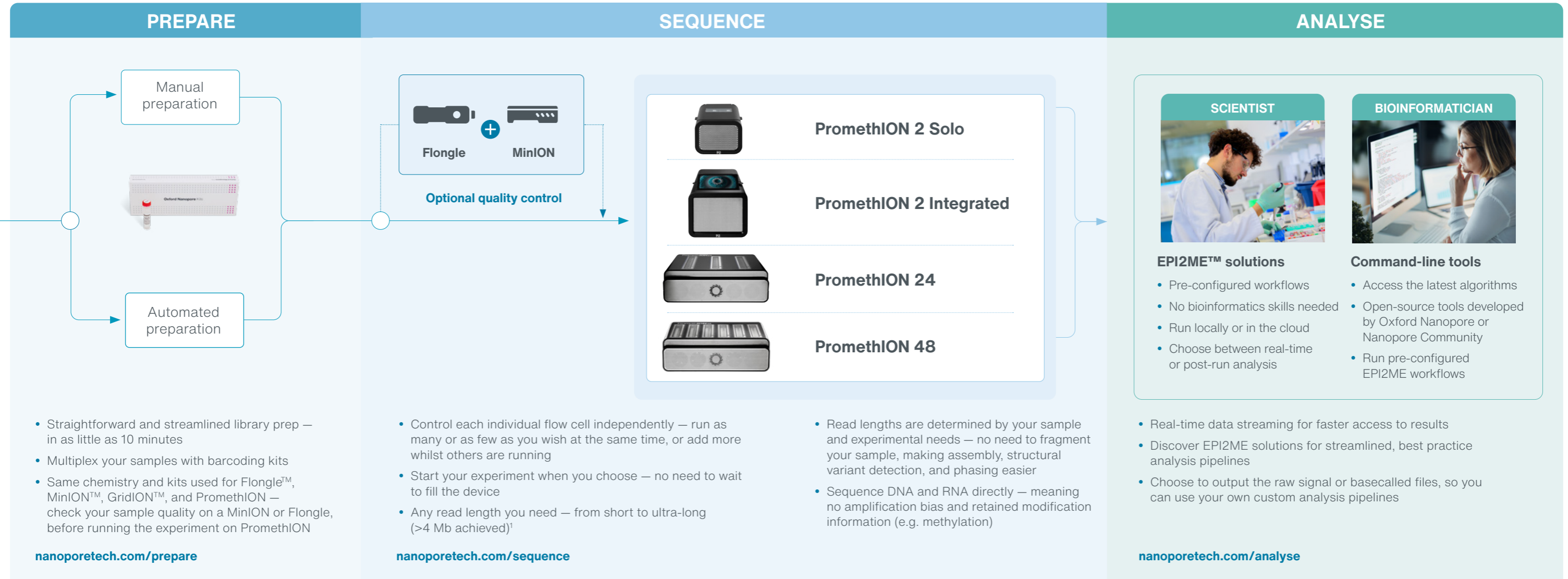
Methylation



Gene expression & single cell

[View applications](#) nanoporetech.com/applications

A streamlined end-to-end sequencing workflow — real-time insights at any scale



- Straightforward and streamlined library prep — in as little as 10 minutes
- Multiplex your samples with barcoding kits
- Same chemistry and kits used for Flongle™, MinION™, GridION™, and PromethION — check your sample quality on a MinION or Flongle, before running the experiment on PromethION

nanoporetech.com/prepare

- 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
- Start your experiment when you choose — no need to wait to fill the device
- Any read length you need — from short to ultra-long (>4 Mb achieved)¹

nanoporetech.com/sequence

- Read lengths are determined by your sample and experimental needs — no need to fragment your sample, making assembly, structural variant detection, and phasing easier
- Sequence DNA and RNA directly — meaning no amplification bias and retained modification information (e.g. methylation)

- Real-time data streaming for faster access to results
- Discover EPI2ME solutions for streamlined, best practice analysis pipelines
- Choose to output the raw signal or basecalled files, so you can use your own custom analysis pipelines

nanoporetech.com/analyse

1. Internal data generated using the Ultra-Long DNA Sequencing Kit.

PromethION 2 Solo and PromethION 2 Integrated

Low-cost access to high-output PromethION sequencing

Offering the flexibility of two independent, high-output PromethION Flow Cells, the compact PromethION 2 devices deliver the benefits of high-coverage nanopore sequencing to users with lower sample processing requirements. Get fully integrated sequencing and analysis with PromethION 2 Integrated or utilise your GridION/existing compute infrastructure with PromethION 2 Solo.

Two high-output flow cells can be operated individually or together for flexible, on-demand sequencing

Connect to GridION or existing compute infrastructure



Service provider certification is available for PromethION devices



High-resolution touchscreen display allowing complete device control

Standalone, fully integrated device with powerful GPU for onboard data analysis

PromethION 2 Solo

PromethION 2 Integrated

Specification		
Weight 1.5 kg	Size W 110 mm H 87 mm D 152 mm	Compatible with PromethION Flow Cells

Specification		
Weight 10.6 kg	Size W 180 mm H 225 mm D 430 mm	Compatible with PromethION Flow Cells

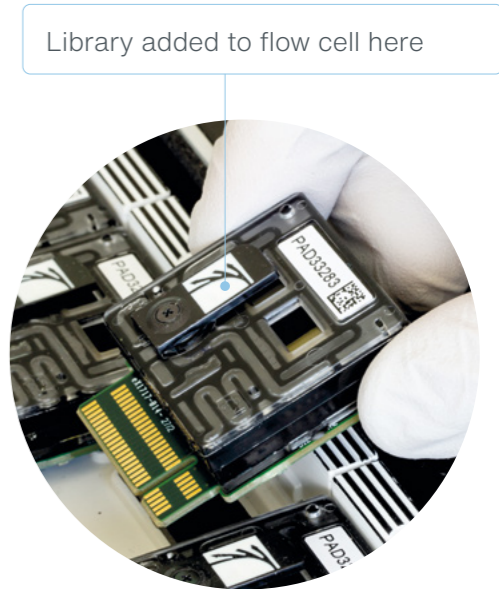
Order now store.nanoporetech.com

PromethION 24 and PromethION 48

Flexible DNA/RNA high-throughput nanopore sequencers

Offering the flexibility of 24 independently controllable, high-output flow cells and leveraging state-of-the-art algorithms and GPU technology, PromethION 24 (P24) provides single or multiple users with on-demand access to terabases of sequencing data. PromethION 48 (P48), our most powerful sequencing device, delivers twice the capacity and output of P24 — ideal for large- and production-scale sequencing projects.

24 (P24) or 48 (P48) flow cells can be operated individually or together for flexible, on-demand sequencing



Service provider certification is available for the PromethION devices



Specification			
	Weight	Size	Compatible with
Sequencing Unit	28 kg	W 590 mm H 190 mm D 430 mm	PromethION Flow Cells
Data Acquisition Unit	26 kg	W 178 mm H 440 mm D 470 mm	

Order now store.nanoporetech.com

Choose your PromethION purchase plan



	PromethION 2 Solo			PromethION 2 Integrated		PromethION 24			PromethION 48	
	Starter Pack*	Project Pack*	CapEx†	Project Pack*	CapEx††	Project Pack XL*	Project Pack XXL*	CapEx††	Project Pack XXXL*	CapEx††
PromethION device	1	1	1	1	1	1	1	1	1	1
Flow cells	8	64		96		512	1,024		1,264	
Sequencing kits	2	12		16		12 (XL kits)	24 (XL kits)		28 (XL kits)	
Wash kits	1	6		8		6 (XL kits)	12 (XL kits)		14 (XL kits)	
Licence and warranty§	12 months	12 months	12 months	12 months	12 months	12 months	12 months	12 months	12 months	12 months
Assurance and familiarisation		✓ Remote		✓ Remote	✓ Remote	✓ On site	✓ On site	✓ On site	✓ On site	✓ On site
Advanced Nanopore Training (see page 13)						✓	✓	✓	✓	✓
	\$9,555	\$61,555	\$23,000	\$97,000	\$100,000	\$436,000	\$734,500	\$449,500	\$975,000	\$675,000

* Loan device.

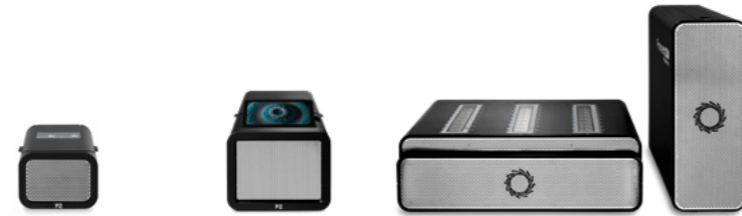
† Device purchase.

‡ Additional discounted consumable Intro Packs available. Must be purchased at time of device purchase. One time only offer. View store.nanoporetech.com for details.

§ Extended warranties available.

Get started quickly with comprehensive support

Our experienced technical services team are dedicated to supporting your success and will be with you every step of the way as you set up and start using your PromethION device.



Nanopore Community <ul style="list-style-type: none"> • Available to all our customers • Access the latest protocols and product updates • Post questions to other users 			
Pre-delivery remote consultation <ul style="list-style-type: none"> • PromethION installation assistance • PromethION configuration assistance • Experimental workflow discussion and guidance 			
Assurance and familiarisation <ul style="list-style-type: none"> • Installation and configuration review • Hardware check • Continued project and technical discussions • Confirmation of consumable shipment schedules 	Project pack only Remote	 Remote	 On site
Post-assurance follow-up <ul style="list-style-type: none"> • Project progress review • Q&A 			

PromethION Advanced Training

All PromethION 24 and 48 purchase plans include PromethION Advanced Nanopore Training – a comprehensive, personalised course for up to four attendees. An Oxford Nanopore expert will provide in-depth technology training with practical hands-on experience, running up to four of your own samples.

	PromethION Advanced Nanopore Training
Location*	Oxford Nanopore labs, your site, or online
Duration	2.5 days
Experimental design and QC	
Library preparation	1x control + up to 4 user samples
Flow cell priming and loading	
Configuring and running the PromethION	
Introduction to basecalling, analysis tools, and resources	
Flow cells included	8
Sequencing kits included	2

* Third party reagents are provided only when training at Oxford Nanopore labs.

Training also available as a standalone package for new starters and PromethION 2 users.

Product specifications

PromethION 24/48

Sequencing Unit

- Up to 24 (P24) or 48 (P48) independent flow cells
- Up to 72 hour run time

Weight	Dimensions
28 kg	W 590 mm H 190 mm D 430 mm

Data Acquisition Unit

- 4 x NVIDIA Ampere GPUs, enabling real-time basecalling
- 60 TB SSD data storage
- 512 GB RAM
- Preloaded with Ubuntu OS and MinKNOW™
- Dual 10 Gbps fibre or ethernet connection

Weight	Dimensions
26 kg	W 178 mm H 440 mm D 470 mm

PromethION 2 Solo

- Up to two independent flow cells
- Up to 72 hour run time
- Use GridION or existing compute infrastructure

See recommended compute at:
community.nanoporetech.com/to/techspec

Weight	Dimensions
1.5 kg	W 110 mm H 87 mm D 152 mm

PromethION 2 Integrated

- Up to two independent flow cells
- Up to 72 hour run time
- 1 x NVIDIA Ampere GPU, enabling real-time basecalling
- 15 TB SSD data storage
- 64 GB RAM
- Preloaded with Ubuntu OS and MinKNOW
- 2.5 Gbps ethernet connection

Weight	Dimensions
10.6 kg	W 180 mm H 225 mm D 430 mm



PromethION Flow Cell

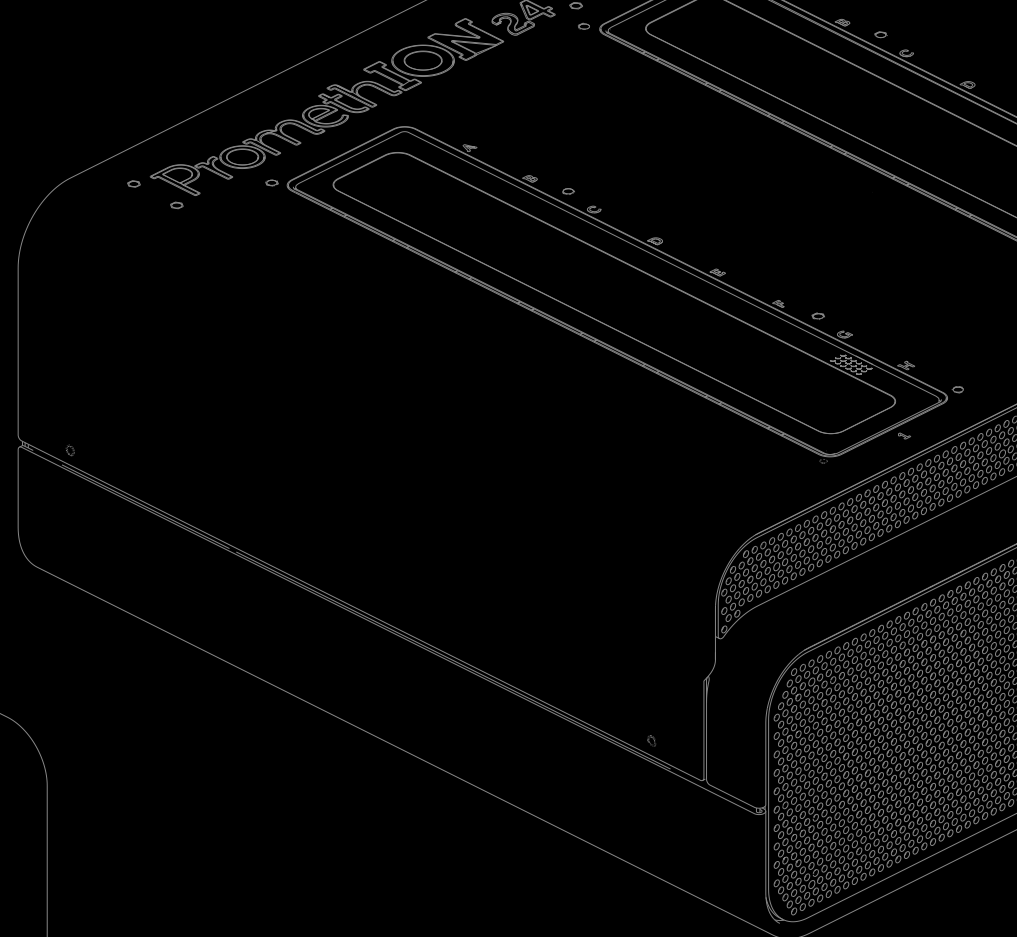
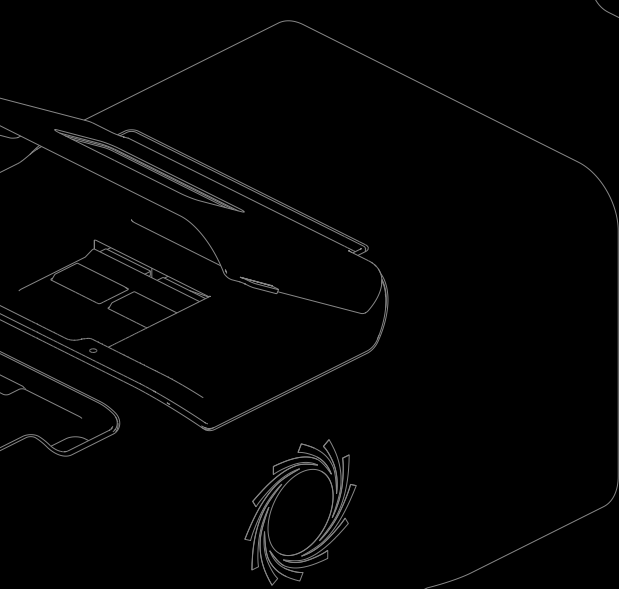
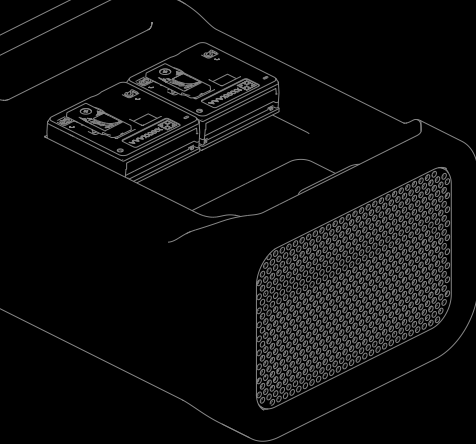
- Each flow cell delivers approximately six times the sequencing capacity of a MinION Flow Cell
- 100–200 Gb native gDNA reads per flow cell (read N50 ~25 kb)
- Suitable applications include whole mammalian genomes, complete metagenomes, targeted sequencing, and isoform-level whole transcriptomes at single-cell resolution
- Choose between DNA, direct RNA, and high duplex flow cells

“Oxford Nanopore’s long-read sequencing capability creates a window into parts of the genome that have been out of reach, as well as giving us a much better handle on structural variants that confer risk of a wide variety of diseases.”

Kári Stefánsson
CEO, deCODE Genetics

“Gotta love the plug and play nature of the @nanopore #PromethION. Very convenient with many users in the lab.”

Rasmus Kirkegaard
Aalborg University



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