* Theoretical max output when system is run for 72 hours at 400 bases / second. Outputs may vary according to library type and run conditions.

Why MinION?

About the technology >

Powerful

Get up to 48 Gb data from a single flow cell*.

* Theoretical max output when system is run for 72 hours at 400 bases / second. Outputs may vary according to library type and run conditions.

Active temperature control

Reliable and robust sequencing in a wide range of environmental temperatures (10-35°C)

Sleek new design

Complete redesign of MinION architecture with a focus on user experience. Status LEDs provide a visual indicator of run status with a glance

Palm sized

Sequence in the lab or field

Real-time data

Immediate data streaming for rapid, actionable results.

Unrestricted read length

Sequence any length fragment from short to ultra-long.

Mk1D Specifications

Read length

Nanopore sequencing reads the entire length of DNA or RNA fragment included in the libraries from short to ultralong (longest >4Mb)

6. Nuskaitomas sekos ilgis

Dimensions

- Size: W 125mm H 13 mm D 55mm

Temperature control

New for Mk1D Peltier based temperature control enables reliable and robust sequencing at ambient temperatures between 10-35° C

5. peltier

Suitable applications

MinION Flow Cells provide output up to 48Gb* making them ideal for small genome and targeted application sequencing such as:

- Bacterial metagenomics

- Bacterial isolate
- Bacterial whole genome
- Viral amplicon
- Full length 16s rRNA
- Whole exome
- Whole transcriptome (cDNA)
- Smaller transcriptomes (direct RNA)

* Theoretical maximum output when system is run for 72 hours at 400 bases/second outputs may vary according to library type and run conditions.

Connectivity

Weighs 130 g and plugs into a laptop or MacBook® using a high-speed USB-C cable

Cost-effective

MinION Mk1D pack from $4,950 including sequencing consumables and 5 MinION Flow Cells

- $990 per Flow Cell
- Multiplexing kits for higher sample throughput

Ultra-fast deep-learned CNS tumour classification during surgery

Researchers in the Netherlands investigate the potential future utility of MinON for real-time, intraoperative methylation-based classification of brain tumour samples.

Read more View all applications

Product documentation