

Run Nanopore MinION sequencer till “end of life” of flowcell

Version: March 2025



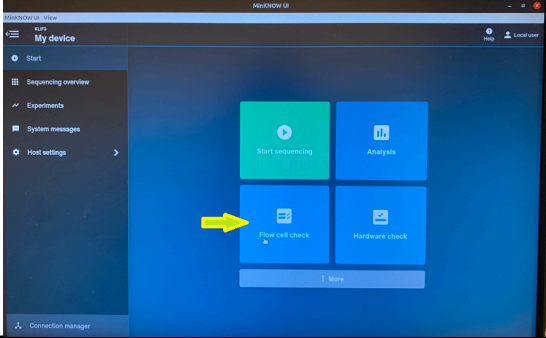
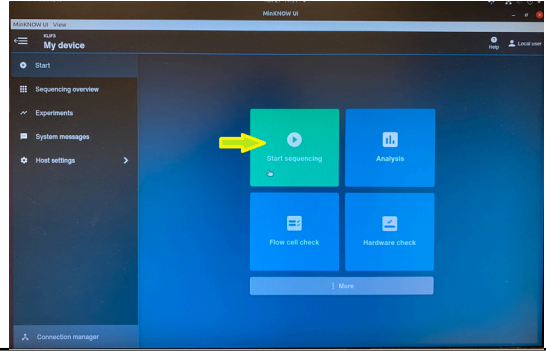
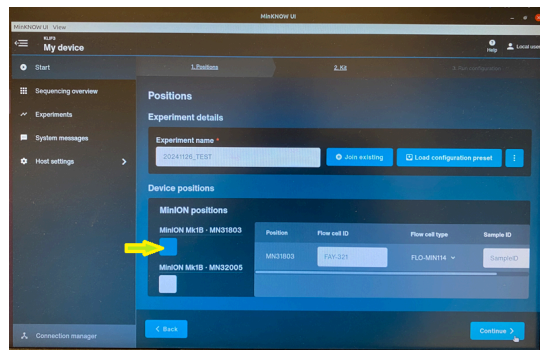
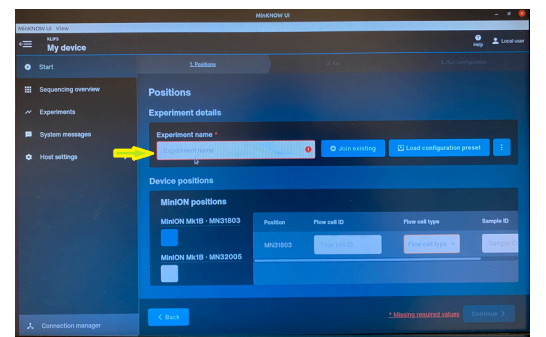
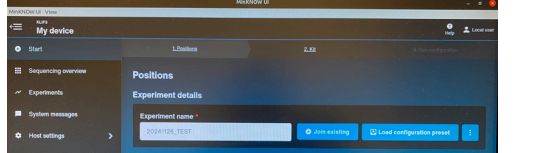
Run Nanopore MinION sequencer

Before Nanopore sequencing:

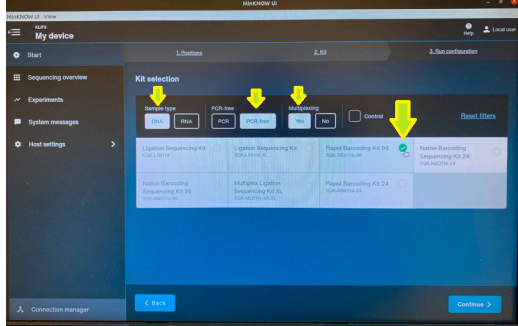

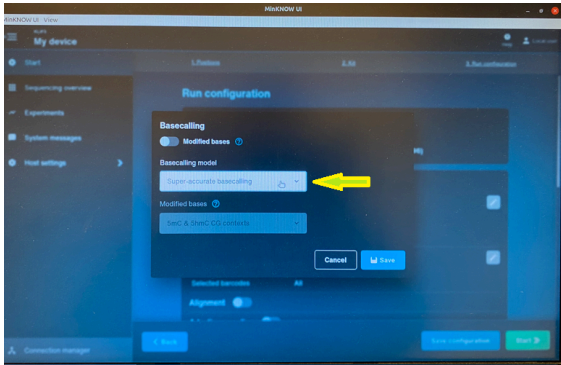
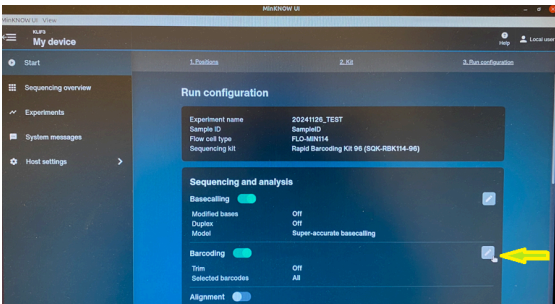
- Use most recent Nanopore sequencing protocol on Nanopore website
 - Protocol for Rapid Barcoding Kit 96
 - Link for V14: [Nanopore store: Rapid Barcoding Kit 96 V14](#)
- Link how to load a Flow cell: [Priming and loading your flow cell](#)
- Flowcell check: Check Flowcell at arrival, minimal 800 pores
- Check disc space before starting the sequence run (1 TB SSD):
 - If data stored as fast5 and fastQ format: every 1 Gbase of sequence data takes up ~6,5 Gbytes of space
 - If data stored as fastQ only: every 1 Gbase of sequence data takes up ~0,5 gbytes of space
- Useful tips: Nanopore learning (account is necessary): [Getting Started](#)

Run Nanopore MinION sequencer

Manual to run Nanopore MinION sequencer

<p>Insert Flow cell in device</p> <p>Start software</p> <p>Select <Flow cell check></p> <p>The flowcell should have minimal 800 pores</p>																
<p>Select <Start Sequencing></p>																
<p>Select MinION device</p>	 <table border="1"><thead><tr><th>MinION positions</th><th>Position</th><th>Flow cell ID</th><th>Flow cell type</th><th>Sample ID</th></tr></thead><tbody><tr><td>MinION Mk1B - MN31503</td><td></td><td></td><td></td><td></td></tr><tr><td>MinION Mk1B - MN32005</td><td></td><td></td><td></td><td></td></tr></tbody></table>	MinION positions	Position	Flow cell ID	Flow cell type	Sample ID	MinION Mk1B - MN31503					MinION Mk1B - MN32005				
MinION positions	Position	Flow cell ID	Flow cell type	Sample ID												
MinION Mk1B - MN31503																
MinION Mk1B - MN32005																
<p>Fill in your experiment name</p>																
<p>Select <continue></p>																

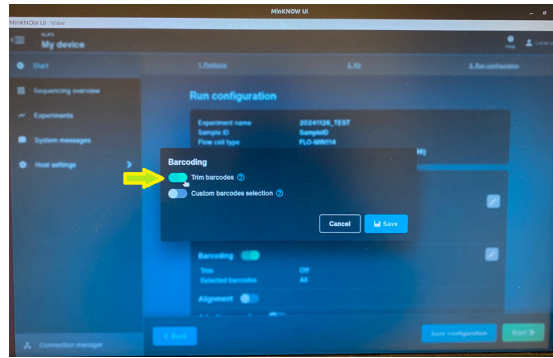
Run Nanopore MinION sequencer

<p>Select <DNA></p> <p>Select <PCR-free></p> <p>Select Multiplexing <Yes></p> <p>Select <Rapid Barcoding Kit 96 SQK-RBK114-96></p> <p>Select <Continue></p>	
<p>Go to “Run Configuration”</p> <p>Go to “Sequencing and analysis”</p>	
<p>Go to Basecalling Model: Select <Super Accurate> instead of Fast basecalling</p>	
<p>Go to Barcoding in Run configuration</p>	

Run Nanopore MinION sequencer

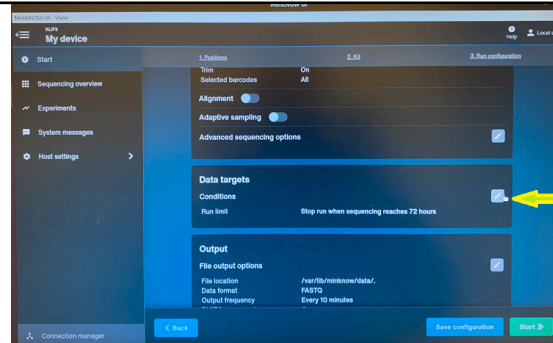
For Barcoding:
Select Trim barcodes **<On>**

<Save>

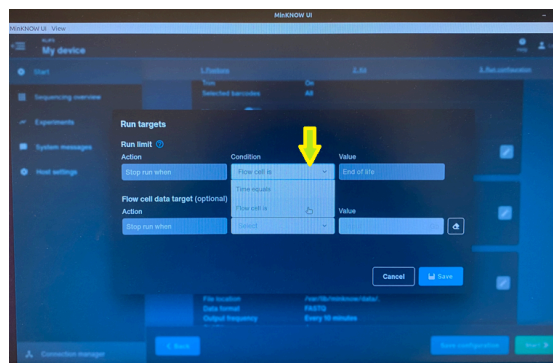


Change Run limit/Action

Go to Data targets



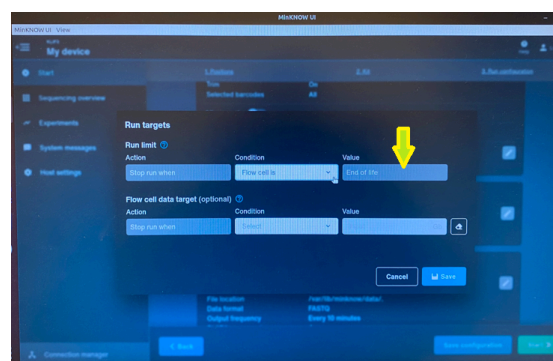
For Data targets:
Select Condition: stop run when....
<Flow cell is>



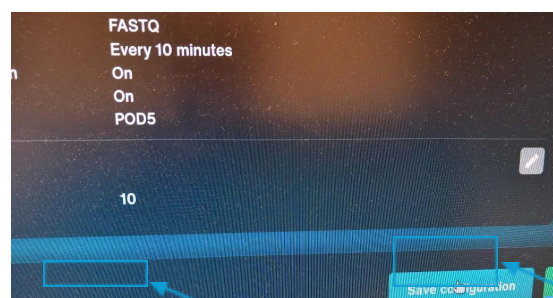
At Run limit:

Select Value: **<End of life>**

<Save>



Save configuration



Run Nanopore MinION sequencer

Select <**Start run**>

Run will stop automatically when
Flowcell is fully used.

This will be approx. 3 days.

Flowcell can't be used again after it has
run until 'end of life' (it is also no
option to wash and use it again).

