

# MiSeq™ i100 Series

## The standard in sequencing **simplicity**

The MiSeq i100 Series delivers breakthrough simplicity, our fastest run times yet, comprehensive analysis, and significant sustainability advancements. Empowering every lab, everywhere.



### Simplest

Three-step setup; onboard cluster generation and onboard denaturation; no post-run washes; sample-to-analysis workflows with onboard DRAGEN™ analysis

### Fastest

Same-day results with runs as fast as 4 hr and < 2-hr onboard secondary analysis for most applications

### More sustainable

Room-temperature (RT) shipment and storage of consumables, 85% reduction in packaging waste, 35% reduction in total carbon footprint,\* compared to the MiSeq System

### MiSeq i100 Series as compared to MiSeq System

**4x**

Faster turnaround times

**4x**

Increase in data output

**60%**

Reduction in setup time

### Faster, flexible sequencing

The MiSeq i100 Series provides same-day results, with run times as low as 4 hours. There are up to 10 reagent configurations across multiple flow cells supporting scalable throughputs and deeper sequencing across multiple applications.

#### MiSeq i100 System

Max output: 25 Gb  
Max read: 25M

#### Product

MiSeq i100 System  
MiSeq i100 Plus System

#### MiSeq i100 Plus System

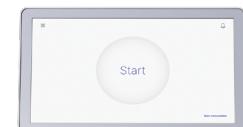
Max output: 30 Gb  
Max read: 100M

5M Flow Cell (3 Gb)

25M Flow Cell (25 Gb)

50M Flow Cell (30 Gb)

100M Flow Cell (30 Gb)



**100M**

Max reads

**30 Gb**

Max output

**100**

Small whole genomes per run

**384**

Targeted gene sequences per run<sup>†</sup>

# Impossibly simple sequencing

Sequencing is easier than ever. The MiSeq i100 Series workflow has been optimized from setup to analysis to minimize the hands-on time, expertise, and resources required to perform sequencing.

## Have confidence in your results

The MiSeq i100 Series has sample-to-analysis workflows that include library prep kits, enrichment panels (where applicable), and DRAGEN secondary analysis. Comprehensive data summaries can be generated for select infectious disease, microbiology, and oncology applications in two hours or less.

- Compatible library prep kits and probe panels streamline experiment planning
- Prebuilt DRAGEN pipelines simplify analysis, minimizing bioinformatic expertise requirements
- Public data sets available for comparison of results boost confidence



## Unprecedented sustainability

More science, less environmental impact. The MiSeq i100 Series incorporates groundbreaking sustainability innovations that enhance the user experience.

- RT shipping requires no dry ice and no ice packs
- RT storage of consumables does not require thawing, expediting setup and saving freezer space and energy
- Packaging waste reduced by 85%, facilitating 52% reduction in CO<sub>2</sub> emissions from reagent shipping compared to the MiSeq System\*
- Total carbon footprint reduced by 35% compared to the MiSeq System\*

## Leader in technology, leader in trust

Committed to enabling next-generation sequencing (NGS) in every lab, everywhere, Illumina has a relentless commitment to innovation and building future NGS capabilities and applications. Over the past decade, the MiSeq System has shipped over 10,000 units globally and been cited in over 160,000 peer-reviewed publications.<sup>‡</sup> The MiSeq i100 Series continues to demonstrate our commitment to increasing access to genomics by delivering the fastest, simplest benchtop sequencing.

## Dedicated to customer success

Illumina strives to be the best partner possible, from developing groundbreaking genomics innovations to providing the ultimate user experience and exceptional customer service. With a global presence, you can rely on our support to facilitate your success.

- Global support team to help you set up your instrument and achieve operational excellence quickly
- Access a full set of products and expertise for the entire sequencing workflow, as well as a peer network of over 20,000 Illumina NGS systems
- Worldwide tech support, 5 days a week via phone, online 24/7, and in multiple languages with rapid response times
- Global infrastructure ensuring excellent product consistency, supply, and quality



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\*Based on comparison of MiSeq reagent kits to MiSeq i100 reagent kits per one Gb of genetic code, measured in Global Warming Potential through an internal streamlined life cycle assessment (LCA) study, aligned with the methodological requirements and guidelines of the International Organization for Standardization (ISO) standards ISO 14040 (2006a) and ISO 14044 (2006b) on LCA and the Greenhouse Gas (GHG) Protocol Product Life Cycle Accounting and Report Standard (WRI/WBCSD, 2011). As a streamlined LCA study, it does not fulfill all of the reporting requirements of these standards, including third-party review.

†Reads per sample, therefore sample complexity is dependent on panel and desired coverage.

‡Data calculations on file, Illumina, Inc. 2022.