

GeneTitan MC Fast Scan Instrument

Expand your reach and optimize without compromise

Bring fast, automated, sample-to-report microarray research testing to your lab with the Applied Biosystems™ GeneTitan™ MC Fast Scan Instrument.

The GeneTitan MC Fast Scan Instrument is a fully integrated solution for automated microarray research genotyping—now with enhanced scanning speed and throughput.

Experience the power of streamlined array processing for discovery, exploration, and screening research. The new GeneTitan MC Fast Scan Instrument seamlessly integrates hybridization, washing, and imaging into a single solution for automated array processing. Experience even greater efficiency by pairing the Applied Biosystems™ Axiom™ Propel workflow with a GeneTitan MC Fast Scan Instrument.



Reduce turnaround time by up to 2 hours



Increase sample processing volume by up to 50%

Contact us to learn more about discounts and trade-in offers available to you at [thermofisher.com/genetitan](https://www.thermofisher.com/genetitan)

Fully integrated for hands-free array processing

The GeneTitan MC Fast Scan Instrument enables high throughput and helps increase laboratory productivity per technician by minimizing user intervention and allowing for unattended, overnight processing of large numbers of samples in parallel. This unique degree of hands-free automation means that your data will be consistently reproducible, your lab can be

more productive, and you can spend less time acquiring and managing data, giving you more time for science. By combining a hybridization oven, fluidics processing, and a state-of-the-art imaging device, the GeneTitan MC Fast Scan Instrument transforms your research lab.

Advanced fluidics

Arrays are washed and stained by the fluidics system. Clean dry air (CDA), which is free of moisture, oils, particles, and other contaminants, is used to transport wash buffers between the reagent bottles and array plates. This utilization of CDA helps reduce the number of moving components needed, resulting in a robust instrument that is both easy and cost-effective to maintain. Finally, the plate gripper automatically transfers the arrays to the imaging device.

Key benefits

- **Fast**—condenses hands-on processing time to as little as 30 minutes, images an array in less than 3 minutes, and operates unattended overnight
- **Scalable**—meets both medium- and high-throughput needs, enables fast time to data, and requires minimal manual intervention
- **Flexible**—supports genotyping studies on multiple array plate formats
- **Accurate**—enables high-quality, consistent data by processing multiple samples under identical conditions
- **Adaptable**—creates flexible workflows and sample registration via Applied Biosystems™ GeneChip™ Command Console™ Software

The flexibility you want

Multiple formats and customized solutions for genotyping studies

Use the GeneTitan MC Fast Scan Instrument with Applied Biosystems™ high-throughput (HT) array plates to get an automated solution for microarray processing. With a broad selection of array plate formats (Figure 1), you can easily transition from discoveries through genome-wide single-nucleotide polymorphism (SNP) genotyping to comprehensive explorations of biological phenotypes for disease or drug response (Figure 2).



Figure 1. Multiple array plate formats. Predesigned and customizable array plates, shown in 24-, 96-, mini-96, and 384-array formats, give you the highest productivity with a scalable throughput.



Figure 2. Broad range of applications. The GeneTitan MC Fast Scan Instrument and the HT array plates enable a wide menu of applications in genetic variation studies. Blue: genotyping; gray: pharmacogenomics; and orange: reproductive genomics.

Multiple formats

Applied Biosystems™ Axiom™ genotyping array plates

Available in multiple formats; able to process 24–384 samples per plate

Applied Biosystems™ CarrierScan™ array plates

Available in 96-sample format

Scalable throughput

Process up to 3,000–9,000 samples per week

Increase throughput without additional manpower or instrumentation

Achieve high productivity

Array plates condense hands-on processing time, minimize user intervention, and are processed unattended overnight

Applied Biosystems™ Axiom™

myDesign™ custom genotyping array plates

Genomic coverage tailored for human and agrigenomics genotyping, focusing on the SNPs of interest to you

Applied Biosystems™ CarrierScan™ custom array plates

Custom content for scalable, expanded carrier screening research

Discover how you can help maximize your lab's productivity at thermofisher.com/genetitan

applied biosystems