ThermoFisher SCIENTIFIC

Life sciences solutions

Benchtop instruments and reagents

Contents

Sample isolation and purification

KingFisher purification systems

Save valuable time without sacrificing performance
Optimize and automate your nucleic acid, cell and protein purification with Thermo Scientific™ KingFisher™ automation systems. The KingFisher instruments help reduce hands-on time while maintaining high yields and excellent reproducibility. Protocols for nucleic acids (Applied Biosystems™ MagMAX™ kits), immunoprecipitation (IP), and protein purification (Thermo Scientific™ Pierce™ and Invitrogen™ Dynabeads™ magnetic beads) come preloaded.

Thermo Scientific™ KingFisher™ Flex system*

Semi-automated for high-throughput workflows:

- Run 24 or 96 samples per batch
- Thermo Scientific™ BindIt™ Software allows instrument control, protocol creation/upload, and modification
- Volume range of 20–5,000 µL

60 x 60 x 38 cm (W x D x H)

Automation-ready

Thermo Scientific™ KingFisher™ Duo Prime system**

Semi-automated for mid-throughput workflows:

- Run 6–24 samples per batch
- BindIt Software allows instrument control, protocol creation/upload, and modification
- Volume range of 20–5,000 µL

40 x 46 x 36 cm (W x D x H)

Find the right consumables for your KingFisher instruments at **thermofisher.com/kingfisherplastics** and **thermofisher.com/kingfisherkits**

Find out more at **thermofisher.com/kingfisher**

* For Laboratory Use.
** For Research Use Only. Not for use in diagnostic procedures.

Thermo Scientific™ KingFisher™ Presto system*

Fully automated for ultrahigh-throughput workflows:

- Integrate with robotic liquid handlers
- Run 24 or 96+ samples per batch
- Volume range of 50–5,000 µL

36 x 46.5 x 40 cm (W x D x H)

Automation-ready

Thermo Scientific™ KingFisher™ Apex system*

Combining superior instrument capabilities with complete touchscreen-based control to deliver exceptional flexibility and performance.

- Large touchscreen display and intuitive interface
- Elute in storage tubes and revisit samples later
- Run 24 or 96 samples in 25–65 min
- Control heating and cooling to maintain sample integrity
- Safeguard against contamination with UV lights
- Volume range of 10–5,000 µL

45 x 78 x 59 cm (W x D x H)

Cloud-enabled

Find the right consumables for your KingFisher instruments at **thermofisher.com/kingfisherplastics** and **thermofisher.com/kingfisherkits**

Find out more at **thermofisher.com/kingfisher**

* For Laboratory Use.

CTS Rotea system

A closed cell processing system for cell therapy manufacturing

The multipurpose Gibco™ CTS™ Rotea™ Counterflow Centrifugation System offers exceptional flexibility. This highly versatile system features user-programmable software, a broad range of cell processing applications, and utility from research through commercial manufacturing.

40 x 29 x 50.8 cm (W x D x H)

Find the right accessories for your Rotea system at **thermofisher.com/roteaaccessories**

Accuracy and reliability	• High cell recovery and viability—gentle processing enables >95% cell recovery while maintaining cell viability
Efficiency and time savings	• Low output volumes—proprietary technology can deliver as little as 5 mL of concentrate
Safety and social distancing	• The CTS Rotea closed system operates in a Class C manufacturing facility, thus reducing the need to have multiple operators in the same room at the same time to process multiple samples

Find out more at **thermofisher.com/rotea**

For Research Use or Manufacturing of Cell, Gene, or Tissue-Based Products.

PCR

ProFlex PCR System

Ultimate flexibility and throughput

The Applied Biosystems™ ProFlex™ PCR System combines flexible configuration and control features to fit how you work today—and will work tomorrow—with the reliability you've come to expect from Applied Biosystems™ products. Interchangeable block formats allow you to maximize your throughput or run independent experiments concurrently.

The ProFlex PCR System is cloud-enabled, giving you the freedom to design and share your methods, schedule an instrument, start or stop a run, and check run status from any mobile device or desktop computer with the cloud-based Thermo Fisher™ Connect Platform.

33 x 56.5 x 27.2 cm (W x D x H)

Cloud-enabled

Select the right plastics for your thermal cycler at **thermofisher.com/findplastics**
Find any PCR kit for your workflow at **thermofisher.com/pcressentials**

Accuracy and reliability	• Precise temperature control with Applied Biosystems™ VeriFlex™ Blocks
Efficiency and time savings	• Multiuser access—run three different cycling conditions, at three different times, by one or multiple users • Flexibility—interchangeable block formats allow you to maximize throughput and adjust to changes in workflows
Safety and social distancing	• Remote access—check run status and design protocols anytime, anywhere with the Connect Platform • Fleet control—view and control multiple instruments, users, and methods securely with Thermal Cycler Fleet Control Software

Find out more or request a demo at **thermofisher.com/proflex**

For Research Use Only. Not for diagnostic procedures.

VeritiPro Thermal Cycler

Ultimate performance with advanced temperature control technology and connectivity

The Applied Biosystems™ VeritiPro™ Thermal Cycler delivers proven reliability with advanced temperature control technology and connectivity. Take advantage of next-level PCR optimization with the precision offered by Applied Biosystems™ VeriFlex™ Blocks technology. Connect to the cloud-enabled VeritiPro Thermal Cycler remotely to conveniently design and securely upload your methods, monitor runs, and check instrument availability from any mobile device or desktop computer using the cloud-based Connect Platform.

24.5 x 46.5 x 21.7 cm (W x D x H)

Cloud-enabled

Select the right plastics for your thermal cycler at **thermofisher.com/findplastics**
Find any PCR kit for your workflow at **thermofisher.com/pcressentials**

Accuracy and reliability	• Precise temperature optimization—6-zone VeriFlex Block allows different annealing temperatures in the same PCR run
Efficiency and time savings	• Easy to switch—simulation modes make switching from another instrument worry-free
Safety and social distancing	• Remote access—check run status and design protocols anytime, anywhere with the Connect Platform • Fleet control—view and control multiple instruments, users, and methods securely with Thermal Cycler Fleet Control Software

Find out more or request a demo at **thermofisher.com/veritipro**

SimpliAmp Thermal Cycler

Elegantly simple and precise

The Applied Biosystems™ SimpliAmp™ Thermal Cycler is an easy-to-use, compact, and accurate thermal cycler designed to fit every lab's essential PCR workflow. The SimpliAmp Thermal Cycler is cloud-enabled, giving you the freedom to design and share your methods, schedule an instrument, start or stop a run, and check run status from any mobile device or desktop computer with the Connect Platform.

24 x 46 x 21 cm (W x D x H)

Cloud-enabled

Select the right plastics for your thermal cycler at **thermofisher.com/findplastics**
Find any PCR kit for your workflow at **thermofisher.com/pcressentials**

Accuracy and reliability	• Precise temperature control with VeriFlex Blocks
Efficiency and time savings	• Easy to implement—simulation modes making switching from another instrument worry-free • Intuitive interface—large, easy-to-use, color touchscreen for easy programming and quick status checks
Safety and social distancing	• Remote access—check run status and design protocols anytime, anywhere with the Connect Platform • Fleet control—view and control multiple instruments, users, and methods securely with Thermal Cycler Fleet Control Software

Find out more or request a demo at **thermofisher.com/simpliamp**

MiniAmp Thermal Cyclers

Routine PCR, elevated

Applied Biosystems™ thermal cyclers have a reputation for reliability, accuracy, and user-friendly interfaces. The Applied Biosystems™ MiniAmp™ and MiniAmp™ Plus Thermal Cyclers offer all this but with only the features you need for routine PCR. With their small size and entry-level price, MiniAmp Thermal Cyclers are perfect for every lab bench.

The MiniAmp Plus Thermal Cycler adds VeriFlex Blocks technology to the innovative, compact design of the MiniAmp Thermal Cycler for astonishingly easy PCR optimization.

19 x 39 x 20 cm (W x D x H)

Cloud-enabled

Select the right plastics for your thermal cycler at **thermofisher.com/findplastics**
Find any PCR kit for your workflow at **thermofisher.com/pcressentials**

Accuracy and reliability	• VeriFlex Block or isothermal block option—the MiniAmp Plus Thermal Cycler features a VeriFlex Block with 3 independent temperature zones for easy PCR optimization; if optimization is not part of your routine PCR, the MiniAmp Thermal Cycler has an isothermal block for basic PCR
Safety and social distancing	• Remote access—check run status and design protocols anytime, anywhere with the Connect Platform • Fleet control—view and control multiple instruments, users, and methods securely with Thermal Cycler Fleet Control Software

Find out more or request a demo at **thermofisher.com/miniamp**

Automated Thermal Cycler

Designed for easy robotic integration

Looking to automate your PCR workflow? The Applied Biosystems™ Automated Thermal Cycler offers the flexibility, reliability, and performance needed in a complete PCR automation system. It can be used as a stand-alone thermal cycler or fully integrated with any robotic system.

The small, easy-to-integrate format of the Automated Thermal Cycler enables hands-free PCR results.

18 x 31.8 x 13.4 cm (W x D x H)

Automation-ready

Select the right plastics for your thermal cycler at **thermofisher.com/findplastics**
Find any PCR kit for your workflow at **thermofisher.com/pcressentials**

Accuracy and reliability	• When used on a robotic platform there are less manual steps reducing opportunity for human error and increasing consistency/reliability
Efficiency and time savings	• Compact design—small footprint and modular design saves space on robotic platform • Hands-free operation—automated lid and plate ejector for robotic loading or unloading of plates • Flexible software solutions—available with desktop software as a stand-alone thermal cycler, predeveloped drivers for popular robotic platforms, and SILA coding for full robotic integration • Plug-and-play drivers and Standardization in Lab Automation (SiLA) compatibility—for easy integration on your liquid handler of choice
Safety and social distancing	• Remote access—check run status and design protocols anytime, anywhere with the Connect Platform • Fleet control—view and control multiple instruments, users, and methods securely with Thermal Cycler Fleet Control Software

Find out more or request a quote at **thermofisher.com/atc**

qPCR

QuantStudio 1 Real-Time PCR System

40 x 27 x 50 cm (H x W x D)

Cloud-enabled

Ever better at the entry level

The Applied Biosystems™ QuantStudio™ 1 Real-Time PCR System is a basic instrument for new and experienced users looking for a quality product at an affordable price. With a large interactive touchscreen and pre-optimized protocol templates, set up is easy.

Run reactions of up to 100 µL and detect differences as small as 1.5-fold in singleplex reactions, with results in approximately 40 minutes. The QuantStudio 1 system is also equipped with Connect, Thermo Fisher Scientific's cloud-based platform, allowing you to remotely monitor your runs in real time, analyze sophisticated data sets in minutes, securely store data, and share results online with colleagues across institutions and around the world.

For solutions across the full qPCR experimental workflow, we recommend you explore:

- Our qPCR Plastics selection tool at **thermofisher.com/pcrplastics**
- Our RT solutions at **thermofisher.com/ssiv**
- Our sample preparation solutions on pages 4 and 5
- Our qPCR assays at **thermofisher.com/taqman**
- Our qPCR reagents and master mixes at **thermofisher.com/mastermix**

Learn more about the quantitation of proteins with qPCR at **thermofisher.com/proquantum**

Accuracy and reliability	• Detects differences as small as 1.5-fold quantities in singleplex reactions • Dye compatibility - three filters calibrated for FAM/SYBR Green/SYTO 9, VIC/HEX/TET/JOE, JUN/ROX/Texas Red dyes • Multiplexing capability - offers the three most commonly used excitation and emission filters: FAM, VIC, and ROX
Efficiency and time savings	• Small footprint • Cloud enabled and intuitive touchscreen • Preoptimized protocol templates minimize new user training
Safety and social distancing	• Allows you to access, analyze, and share data anytime, anywhere • Remote instrument diagnostics • Access to remote service engineer

Find out more at **thermofisher.com/quantstudio1**

For Research Use Only. Not for diagnostic procedures.

QuantStudio 3 and 5 Real-Time PCR Systems

40 x 27 x 50 cm (W x D x H)

Cloud-enabled

Just the right everything—simplicity and flexibility

The Applied Biosystems™ QuantStudio™ 3 and 5 Real-Time PCR Systems are designed to deliver exactly what you need whether you are a new or experienced user. You get high-quality, plug-and-play systems with the features you need, plus modern upgrades such as cloud connectivity.

For solutions across the full qPCR experimental workflow, we recommend you explore:

- Our qPCR Plastics selection tool at **thermofisher.com/pcrplastics**
- Our RT solutions at **thermofisher.com/ssiv**
- Our sample preparation solutions on pages 4 and 5
- Our qPCR assays at **thermofisher.com/taqman**
- Our qPCR reagents and master mixes at **thermofisher.com/mastermix**

Learn more about the quantitation of proteins with qPCR at **thermofisher.com/proquantum**

Accuracy and reliability	• Obtain results you can trust—detect differences in target quantities as small as 1.5-fold in singleplex reactions, and obtain 10 logarithmic units of linear dynamic range
Efficiency and time savings	• Access, analyze, and share data anytime, anywhere—monitor your runs remotely, quickly analyze sophisticated data sets, store results in a secure space, and share them online with colleagues across campus and around the world with web browser–based software supported by the Connect Platform
Safety and social distancing	• Maximize benchtop space—this compact instrument can be configured as a stand-alone instrument or with a computer to fit any lab's needs

Find out more or request a quote at **thermofisher.com/quantstudio3-5**

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QuantStudio 6 and 7 Pro Real-Time PCR Systems

Smarter productivity and improved workflow
The Applied Biosystems™ QuantStudio™ 6 and 7 Pro Real-Time PCR Systems are designed with features that deliver a smart workflow experience to suit your changing throughput needs.

Automation-ready
(QuantStudio 6 and 7 Pro systems can be upgraded to support automation)

Cloud-enabled

54.7 x 33.8 x 52.5 cm (W x D x H)

For solutions across the full qPCR experimental workflow, we recommend you explore:

- Our qPCR Plastics selection tool at **thermofisher.com/pcrplastics**
- Our RT solutions at **thermofisher.com/ssiv**
- Our sample preparation solutions on pages 4 and 5
- Our qPCR assays at **thermofisher.com/taqman**
- Our qPCR reagents and master mixes at **thermofisher.com/mastermix**

Learn more about the quantitation of proteins with qPCR at **thermofisher.com/proquantum**

Accuracy and reliability	• Simple—streamlined workflow directly from touchscreen; simple, tool-free block changes
Efficiency and time savings	• Personalized—automatically load your settings and plate setup, log in with facial authentication, and get started quickly with SmartStart Orientation, which includes on-site training covering basic instrument operation and maintenance and a choice of hands-on application training • Efficient—minimize hands-on time with voice commands; eliminate manual steps to obtain plate layout, protocol, and assay information when using Applied Biosystems™ TaqMan® Array Plates with RFID; and help maximize uptime and reduce downtime with Smart Help and Smart Remote Support features
Safety and social distancing	• Productive—access data anytime and anywhere with cloud-enabled service, view built-in help videos, and enjoy improved ergonomics

Find out more or request a quote at **thermofisher.com/quantstudiopro**

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Digital PCR

QuantStudio Absolute Q Digital PCR System

Powerfully Simple
The Applied Biosystems™ QuantStudio™ Absolute Q™ Digital PCR System is a plate-based digital PCR (dPCR) platform powered by proprietary microfluidic array plate (MAP) technology. Together with MAP16 dPCR plates, all necessary steps for dPCR can be conducted on a single instrument.

62 x 60 x 54 cm (W x D x H)

dPCR overcomes variability and low accuracy by eliminating the need for a standard curve. With digital PCR, researchers can go beyond measuring Ct to detecting individual DNA molecules—gaining additional sensitivity and precision for a variety of experiments, including but not limited to:

- Rare cancer mutation quantification (liquid biopsy, solid tumor cDNA, fusion transcripts)
- Copy number variation (CNV) analysis
- Genotyping Single Nucleotide Polymorphisms (SNPs)
- Library quantification for next generation sequencing (NGS)
- Characterization of low-fold changes in mRNA and miRNA expression
- Viral vector quantification in cell and gene therapy production
- Residual DNA quantification in cell and gene therapy production
- Pathogen detection and microbial load determination
- Absolute quantification of standards

Learn more about our digital PCR solutions at **thermofisher.com/absoluteq** and **thermofisher.com/digitalpcr**

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QuantStudio Absolute Q Digital PCR System

Accuracy and reliability	• TaqMan real-time PCR assays are now compatible with the new Absolute Q dPCR system. • Additionally, a portfolio of equally robust Absolute Q dPCR assays, backed by a performance guarantee**, has been developed,
Efficiency and time savings	• Only one hands-on step to complete (<5 min.), minimal technical skills required. • All necessary steps for dPCR have been integrated into a single instrument, single plate one step qPCR like workflow: digitization, thermal cycling, and data acquisition. • Load the sample into the system and run it to obtain your results in under 90 minutes.
Safety and robustness	• Rely on IQ-OQ-PQ SAE software –CFR11 compliant.

Learn more about our digital PCR solutions at **thermofisher.com/absoluteq** and **thermofisher.com/digitalpcr**

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** Find out more at thermofisher.com/taqmanguarantee and thermofisher.com/absoluteqassaysguarantee

Nucleic acid quantification

NanoDrop spectrophotometers

14 x 20.3 x 38.1 cm (W x D x H)

Sample intelligence for DNA, RNA, and protein

Prevent costly delays with an enhanced understanding of sample quality. Innovative Thermo Scientific™ Acclaro™ Sample Intelligence technology is built into every Thermo Scientific™ NanoDrop™ instrument for improved measurement accuracy and contaminant identification. Quantify and qualify DNA, RNA, and protein samples in seconds.

Intelligent analysis, streamlined workflows

The Thermo Scientific™ NanoDrop™ One/OneC UV-Vis Spectrophotometer* is part of our NanoDrop microvolume instrument family which has been helping scientists around the world do their best work.

Accuracy and reliability	• Identifies contaminants, and monitors sample column for optimal read conditions • Evaluates quantity and quality of nucleic acid and protein samples from only 1–2 µL
Efficiency and time savings	• Fast and easy measurements • No consumables required • Full-spectrum microvolume UV-Vis measurements with a cuvette option in a single instrument

Find out more at **thermofisher.com/nanodrop**

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* Available in selected countries in EMEA.

Qubit fluorometers with Wi-Fi

For precious samples and demanding applications

Invitrogen™ Qubit™ fluorometers were developed to work optimally with Invitrogen™ Qubit™ assays. Together, they quickly and specifically quantify DNA, RNA, or protein. It is easier than ever to determine if you have sufficient nucleic acid or protein for your experiment. Receive accurate quantitation data through the use of a fluorescent dye that emits a signal only when bound to the target, minimizing the effects of contaminants—such as degraded DNA or RNA—on the result.

Qubit Flex device dimensions: 18.6 x 28.2 x 10.3 cm (W x D x H)

Qubit 4 device dimensions: 13.6 x 25 x 5.5 cm (W x D x H)

Find the right assays for your Qubit instruments at **thermofisher.com/qubitassays**

Accuracy and reliability	• High sensitivity—more sensitive than UV absorbance–based quantification • Accuracy and speed—accurately quantifies DNA, RNA, or protein in less than 3 seconds • Ideal for precious samples—uses as little as 1 µL of sample
Efficiency and time savings	• Flexible, improved throughput—measure up to 8 samples per run with the Invitrogen™ Qubit™ Flex Fluorometer • Integrated reagent calculator determines amount of dye and buffer needed
Safety and social distancing	• Touchscreen can be operated with a single gloved finger • Fully sealed casing allows easy cleaning with 70% EtOH solution • Compact size for personal or use in biosafety cabinet, no waste of bench space • Portable - when physical distancing is required • Access the Connect Platform with Wi-Fi; no USB or paper transfer in and out of the lab

Did you know?

When used together, the NanoDrop One UV-Vis Spectrophotometer* and the Invitrogen™ Qubit™ 4 Fluorometer with Wi-Fi provide the ability to obtain the most complete information about the concentration and quality of your DNA, RNA, or protein sample, to help prevent costly troubleshooting and rework downstream.

Find out more at **thermofisher.com/qubit**

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* The NanoDrop system is available in selected countries in EMEA.

Nucleic acid electrophoresis

E-Gel Power Snap Electrophoresis System

Simplify DNA electrophoresis with the only integrated platform for the running and imaging of gels

The Invitrogen™ E-Gel™ Power Snap Electrophoresis System combines rapid, real-time nucleic acid analysis with high-resolution image capture for exceptional convenience.

12.7 x 25.9 x 15.2 cm (W x D x H)

Features and benefits

The integrated design helps reduce workflow time and accelerate discovery.

Find the right agarose gels for your E-gel Power Snap Plus Electrophoresis System at **thermofisher.com/egel**

Efficiency and time savings	• Faster analysis—go from sample loading to image capture in as little as 15 minutes • Simple operation—intuitive user interface, with a large touchscreen and integrated operating system • Safer handling—minimize handling of hazardous chemicals when used with Invitrogen™ E-Gel™ precast gel cassettes
Safety and social distancing	• Small footprint and low price means more individuals can have their own

Find out more at **thermofisher.com/powersnap**

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Electroporation

Neon Transfection System

Superior transfection efficiency
The Invitrogen™ Neon™ Transfection System offers an innovative electroporation method that utilizes a proprietary, biologically compatible pipette tip chamber to generate a more uniform electric field for a significant increase in transfection efficiency and cell viability.

23.4 x 30 x 22 cm (W x D x H)

Accuracy and reliability	• Single reagent kit for all cell types • Simplistic instrument and reliable performance • Easily transfect as few as 2 x 10^4 cells to as many as 6 x 10^6 cells per reaction at 10 µL or 100 µL reaction volumes
Efficiency and time savings	• Superior performance and workflow simplicity, which helps get to good results quickly • Users can rely on >140 cell-specific protocols and >10,000 peer-reviewed publications for optimized parameters, cutting down on the time needed for exploratory optimization
Safety and social distancing	• The Neon system is so portable that it fits in a biosafety cabinet • Friendly price point that allows each user or lab to afford their own personal instrument to minimize sharing

Find out more at **thermofisher.com/neon**

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Xenon Transfection System

Closed, scalable electroporation system for GMP-compliant cell therapy manufacturing
The Gibco™ CTS™ Xenon™ Electroporation Instrument offers reliably high transfection performance in 1 or 5-25 mL with exceptional cell viability and recovery. The intuitive, programmable interface, process flexibility, sterile single-use consumables, and available software upgrade that helps enable 21 CFR Part 11 compliance allow the system to seamlessly scale with your cell therapy workflow from process development through clinical manufacturing.

109.5 x 67.4 x 53.9 cm (H x W x D)

Find the right accessories for your Xenon transfection system at **thermofisher.com/xenonaccessories**

Accuracy and reliability	• Up to 90% gene knockout and 80% cell viability • Gibco™ Xenon™ MultiShot Electroporation Cartridge helps enable sterile welding to PVC or C-Flex tubing
Efficiency and time savings	• Transfect up to 2.5 x 109 T cells/25 mL in less than 25 minutes

Find out more at **thermofisher.com/xenon**

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Cell analysis

EVOS cell imaging systems

Image beautifully

Powerful Invitrogen™ EVOS™ digital microscopes allow you to capture publication-quality images and data with just a few clicks. The EVOS line of products offers versatile, compact, and ideal instruments for a broad range of imaging applications at an exceptional value.

45.7 x 58.4 x 45.7 cm (W x D x H)

Find the right reagents for your EVOS imaging systems at **thermofisher.com/imagingreagents**

Check our antibodies at **thermofisher.com/antibodies**

Accuracy and reliability	• Power and accuracy—automated functionality with little to no contact • LED light cube technology—helps raise signal-to-noise, minimizes photobleaching, offers >50,000 hours of illumination, and permits precise intensity adjustments
Efficiency and time savings	• Time savings—quick, publication-quality results without warm-up or cooldown • Ease of use—no maintenance, assembly, alignment, or calibration
Safety and social distancing	• Affordable price point is ideal for individual labs to perform imaging, rather than outsourcing to a core facility • Integrated casing design makes instruments easy to wipe down • Semi- or fully automatic functionality for less manual contact • LCD screen with no oculars eliminates risk of touching microscope with eyes and face • Compact size is ideal for use in a biosafety cabinet • Allows easy movement in and out of shared lab spaces to accommodate physical distancing

Find out more or request a quote at **thermofisher.com/evos**

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Countess 3 Automated Cell Counters

Automate your cell counting

Experience the convenience and power of Invitrogen™ Countess™ 3 Automated Cell Counters designed to meet the needs of any lab. The Countess 3 Automated Cell Counter (with brightfield) and Countess 3 FL Automated Cell Counter (with brightfield and fluorescence) have counting capabilities that offer advanced algorithms to allow you to quickly and accurately count cells from the bench while avoiding user variation normally associated with manual cell counting.

22.9 x 14 x 22.9 cm (W x D x H)

Find the right reagents and consumables for your Countess 3 cell counter at **thermofisher.com/countessaccessories**

Accuracy and reliability	• Accuracy—advanced algorithm with autofocus and auto-lighting eliminates subjectivity in cell counting, even for challenging cell sample types
Efficiency and time savings	• Time savings—counts cells in a matter of seconds • Disposable or reusable slide option available for both units
Safety and social distancing	• No oculars to clean or become contaminated • Touchscreen can be operated with a single gloved finger • Preset protocols for specific cell types offer less contact • Disposable slides offer added convenience and safety • Fully sealed casing allows easy cleaning with 70% EtOH solution • Compact size for personal use or use in a biosafety cabinet • Allows easy movement in and out of shared lab spaces to accommodate physical distancing

Find out more or request a quote at **thermofisher.com/countess**

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Attune flow cytometers

49 x 58 x 43 cm (W x D x H)

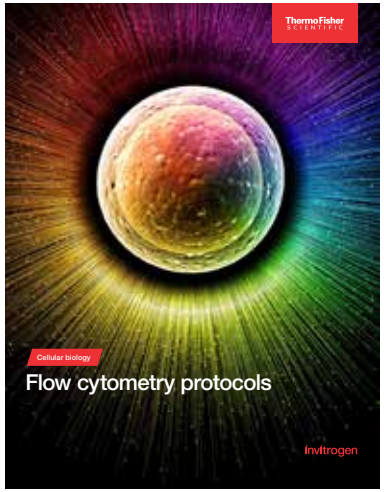
Automation-ready

Efficient, flexible, transformative

Invitrogen™ Attune™ flow cytometers employ acoustic-assisted hydrodynamic focusing to align cells prior to interrogation. They are configurable with up to 4 spatially separated lasers for your multicolor flow cytometry analysis (up to 14 colors) and enable accurate data acquisition at sample throughput rates 10 times faster than traditional cytometers. The Invitrogen™ Attune™ CytPix™ model adds a high-speed camera that captures brightfield images of events passing through the flow cell to verify cell morphology.

Find the right consumables for your Attune Flow Cytometer at **thermofisher.com/flowantibodies**

Get your personal flow cytometry protocols handbook at **thermofisher.com/flowhandbook**



Find out more or request a quote at **thermofisher.com/attune**

For Research Use Only. Not for diagnostic procedures.

Accuracy and reliability	• High sensitivity at all sample rates—maintains precise alignment due to the acoustic focusing, even at sample rates of up to 1,000 µL/min
Efficiency and time savings	• Save time—10x faster than traditional hydrodynamic focusing systems with no loss in data quality • Clog-resistant—easily handles larger, clumpy cell samples that other flow cytometers can't • 21 CFR Part 11 software features—access control, auditing trail, and digital signing to streamline your regulatory filing • Less work—a flow cytometry analyzer with brightfield imaging capabilities • Rapid time-to-results—obtain images while maintaining standard acquisition speeds for flow cytometry

Did you know?

You can automate your flow cytometry workflow with Invitrogen autosamplers?

- Automatically analyze samples from microtube racks or 96- and 384-well plates (standard and deep-well)
- Process 96-well plates in as little as 22 minutes with the Invitrogen™ CytKick™ Max Autosampler or 42 minutes with the Invitrogen™ CytKick™ Autosampler
- Intelligent probe design to minimize carryover and prevent damage to the instrument
- Automated cleaning upon shutdown – ideal for multi-user environments of varying experience levels

Find out more or request a quote at **thermofisher.com/attune**

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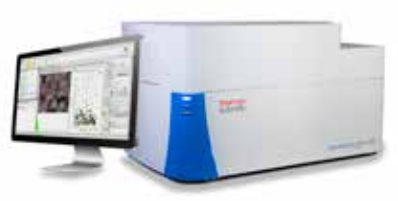
CellInsight high-content screening (HCS) platforms

Multiplexed, quantitative cell imaging and analysis

Thermo Scientific™ CellInsight™ high-content screening (HCS) platforms combine fluorescence microscopy, image processing, automated cellular measurements, and informatics tools. Our instruments enable fundamental discoveries in basic research where multiple parameters of cells need to be imaged, measured, and quantitated simultaneously.



50.8 x 81.3 x 45.7 cm (W x D x H)

Automation-ready

Find the right reagents for your CellInsight HCS platform at **thermofisher.com/hcsreagents**

Accuracy and reliability	• Superior illumination—the LED light engine for Thermo Scientific™ CellInsight™ CX5 and CX7 platforms reduces intensity fluctuations and optimizes imaging times • Laser-based illumination—the Thermo Scientific™ CellInsight™ CX7 LZR Pro HCS platform offers 7-channel laser-based illumination for fast fluorescent and confocal imaging, ideal for imaging spheroids, organoids, and more
Efficiency and time savings	• Precise image capture—the highly sensitive CCD camera with enlarged pixel array captures quantitative data with high quantum efficiency across the spectrum • Rapid data analysis—Thermo Scientific™ HCS Studio™ Software analyzes your images in real time • Live-cell imaging—optional Thermo Scientific™ Onstage Incubator enables environmental control for long-term live-cell imaging
Safety and social distancing	• Enclosed digital imaging system—ocular-free for safe imaging in the lab

Did you know?

Pair with the Thermo Scientific™ Orbitor™ RS2 Microplate Mover (see page 42) and the instruments work together to seamlessly maximize your assay throughput and consistency.

Find out more or request a quote at **thermofisher.com/hcs**

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Varioskan LUX Multimode Microplate Reader

Versatility simplified for a range of applications

Designed for bioscience researchers with a wide variety of needs, the Thermo Scientific™ Varioskan™ LUX Multimode Microplate Reader comes equipped with a flexible range of measurement technologies including absorbance, fluorescence intensity, luminescence, AlphaScreen™ technology, and time-resolved fluorescence.

58 x 53 x 51 cm (W x D x H)

Automation-ready

Find the right reagents for your microplate readers and washers at **thermofisher.com/platereaderreagents**

Explore our high-quality Invitrogen™ ELISA kits at **thermofisher.com/elisa**

Accuracy and reliability	• Environmental control for live-cell analysis—temperature control and an optional integrated gas module, designed to precisely and simultaneously control CO_2 and O_2 concentrations, enable scanning plates with live cell samples • Intuitive PC software—Thermo Scientific™ SkanIt™ Software offers easy protocol setup, data analysis, and an extensive library of ready-made protocols with a truly user-friendly interface
Efficiency and time savings	• Caters to all applications and skill sets—configure the instrument to your needs, then upgrade when your research focus changes • Flexible wavelength selection—the instrument selects the measurement wavelength using optimal filters or monochromators for each measurement technology • Simplified setup—automatic dynamic range selection and smart safety controls ease your workflow to help you avoid experimental errors

Find out more or request a quote at **thermofisher.com/varioskanlux**

For Research Use Only. Not for diagnostic procedures.

Additional microplate readers and washers

A comprehensive portfolio of readers to meet your lab's needs

In addition to the Varioskan LUX Multimode Microplate Reader (previous page), our line of Thermo Scientific™ microplate readers provide flexibility, performance, and ease of use for virtually any microplate assay. Whether you need to measure absorbance, fluorescence, luminescence, or any combination of these technologies, we offer a microplate reader solution that suits your lab's unique needs.

26.5 x 29.5 x 44.5 cm (W x D x H)

Automation-ready

Find the right reagents and assays for your Thermo Scientific™ microplate readers and washers at **thermofisher.com/platereaderreagents** and **thermofisher.com/elisa**

Accuracy and reliability	• Ideal for multi-user environments where a variety of assay types are processed
Efficiency and time savings	• Adaptable for a broad range of applications and assays • Automated smart features that operate in multiple languages
Safety and social distancing	• Touchscreen is designed to be liquid-proof for easy and thorough decontamination; can be operated with a single gloved finger • Measurements can be done using lids or seals, enabling less exposure to samples • Compact size for personal use or use in a biosafety cabinet • Allows easy movement in and out of shared lab spaces • Compatible with robotic integration, so experiments can be performed without human contact

See other options for each system or request a quote at **thermofisher.com/platereaders** or **thermofisher.com/wellwash**

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SkanIt Software 7.0 for microplate readers

All of our readers come with unlimited licenses so members of your lab can use our powerful and easy-to-learn SkanIt Software. Choose either the research edition for life sciences or the drug discovery edition with two audit trail systems for FDA 21 CFR Part 11 compliance.

Efficiency and time savings	• New built-in calculation tools allow the utilization of parallel line analysis and enzyme kinetics (Km and Vmax) for extended data analysis • The Cloud library enables you to browse our constantly updated, vast collection of ready-made validated sessions and protocols • Automatic measurement parameter settings help you get it right the first time, minimizing time needed to handle samples • Automatic adjustment of plate movement speeds enables minimal risk for sample spilling
Safety and social distancing	• Experiments can be designed and tested in the office or from home without requiring instrument and sample contact • Data analysis can be performed from your office or home by transferring the data to network or cloud services • Accessible through a personal PC to design, run, and analyze experiments, eliminating the need to use shared lab PCs

Learn more about the SkanIt Software for microplate readers at **thermofisher.com/skanit**

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Protein analysis

Luminex instruments

Instruments for the Luminex platform that fit your multiplex research needs

Our Luminex® instrument portfolio consists of the Invitrogen™ Luminex® 200™, Invitrogen™ FLEXMAP 3D® and the Invitrogen™ xMAP® INTELLIFLEX® instruments. Luminex® xMAP® technology combines advanced fluidics, optics, and digital signal processing with fluorescently dyed microspheres to enable the quantitation of multiple nucleic acid or protein targets from a single sample. We offer Invitrogen™ QuantiGene™ Plex assays for nucleic acid quantitation and Invitrogen™ ProcartaPlex™ multiplex immunoassays for measurement of protein expression.

61 x 58.4 x 76.2 cm (W x D x H)

Automation-ready

Accuracy and reliability	• Established assays on a trusted platform—hundreds of peer-reviewed publications have cited ProcartaPlex and QuantiGene Plex assays for the Luminex platform, demonstrating their value to researchers
Efficiency and time savings	• Multiplex biomarkers with less starting sample—quantitate up to 80 analytes simultaneously with the Luminex 200, FLEXMAP 3D or xMAP INTELLIFLEX instruments; all ProcartaPlex assays are compatible with as little as 25 µL of plasma or serum, or 50 µL of cell culture supernatant • High-throughput analysis—QuantiGene Plex and ProcartaPlex assays are available in 96-well and 384-well formats for high-throughput analysis

Find out more at **thermofisher.com/luminex**

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Western blotting

Mini Gel Tank

One tank, 181 gels

The improved Invitrogen™ Mini Gel Tank allows for increased usability so you can run a variety of different Invitrogen™ mini gel types in this unique tank design, including Invitrogen™ NuPAGE™ gels, Bolt™ Bis-Tris Plus gels, Novex™ Tris-Glycine mini gels (WedgeWell™ format), or pour-your-own gels from the Invitrogen™ SureCast™ Gel Handcast System.

32 x 11.5 x 16 cm (W x D x H)

Find the right protein gels and ladders for your Mini Gel Tank at **thermofisher.com/proteingels** and **thermofisher.com/proteinladders**

Accuracy and reliability	• Durable polycarbonate construction—the Mini Gel Tank is built to last
Efficiency and time savings	• Easy sample loading—with the new forward-facing well configuration • Less running buffer required—two separate gel chambers; just add buffer for each gel up to the marked fill line • Simultaneous visualization of both gels—streamlined, side-by-side tank configuration • Simplified monitoring of prestained protein markers—with new white tank background stand • Versatile—optional two blot modules for in-tank wet gel transfer using 1/4 the transfer buffer of traditional wet transfer techniques

Find out more at **thermofisher.com/minigeltank**

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SureLock Tandem Midi Gel Tank and Blot Modules

Run or transfer 2 Invitrogen midi gels in the same tank

Increase your output with the Invitrogen™ SureLock™ Tandem Midi Gel Tank, designed for easy and consistent vertical protein gel electrophoresis of 1 or 2 Invitrogen™ midi gels. When paired with the Invitrogen™ SureLock™ Tandem Midi Transfer Module, this tank performs efficient, room-temperature, wet protein transfers for downstream western blot analysis.

25 x 18 x 17 cm (W x D x H)

Find the right protein gels and ladders for your SureLock Tandem Mini Gel Tank at **thermofisher.com/proteingels** and **thermofisher.com/proteinladders**

Find the right buffers for your western transfer at **thermofisher.com/westernbuffers**

Accuracy and reliability	• Durable polycarbonate construction—the SureLock Tandem Midi Gel Tank is built to last
Efficiency and time savings	• 2-in-1 midi gel electrophoresis and transfer tank—run and transfer high-performance Invitrogen midi gels using the same tank • Two separate gel chambers—run 1 or 2 gels or transfers using only the necessary amount of buffer for each gel, minimizing buffer cost and waste • User-friendly—designed for easy setup and use • Optimal performance with fast transfer protocols—efficient, room-temperature transfers in 30 minutes

Find out more at **thermofisher.com/surelocktandem**

Protein gels welcome packs, Mini or Midi Gel Tank included

Choose the right gel chemistry option for your protein type

Try high-performance Invitrogen™ precast mini or midi protein gels without paying extra for a Mini Gel Tank or SureLock Tandem Midi Gel Tank. Invitrogen™ protein gels welcome packs are bundled for each of the Invitrogen™ protein gel chemistries (Bis-Tris, Tris-acetate, tricine, and Tris-glycine) to save you money compared to purchasing the individual components separately.

Welcome packs contain the components you need for outstanding protein separation—from the gel running tank to the protein ladder, we have you covered.

Find out more about protein gels and ladders at **thermofisher.com/proteingels** and **thermofisher.com/proteinladders**

Protein gels welcome packs contain:

- Mini Gel Tank or SureLock Tandem Midi Gel Tank
- Invitrogen precast protein gels
- Running buffer
- SDS sample buffer
- Sample reducing agent
- Prestained protein ladder or standard

Find out more at **thermofisher.com/proteingelwelcome**

PowerEase Touch Power Supply

Next-generation power supply for your high-throughput electrophoresis needs

From gel electrophoresis and western transfers to more demanding applications, we offer a range of powerful, easy-to-use electrophoresis power supplies. Invitrogen™ PowerEase™ Touch 120W and 350W Power Supplies bring a new level of convenience to your electrophoresis experiments. With a bright, LCD touchscreen interface, you can enter in custom programs, or use the preprogrammed protocols for Invitrogen protein gels and gel transfers. Get started with our welcome pack bundles.

58.4 x 80 x 25.9 cm (W x D x H)

Accuracy and reliability	• Precise outputs for voltage, current and power—get reproducible results time after time
Efficiency and time savings	• LCD touchscreen display—easily program with clear menu prompts and view run progress • Pre-programmed modes for Invitrogen gels and applications—save time and minimize errors • Easy programming and storage of multi-step methods—streamline your processes
Safety and social distancing	• Automatic safety features—no load, over temperature, over voltage, over current, load change, and ground leak detection help ensure safety

Find out more at **thermofisher.com/powerease**

iBlot 2 Gel Transfer Device

Fast and reproducible gel transfer

Perform western blotting simply, efficiently, and reliably, within 7 minutes and without the need for liquid buffers. The Invitrogen™ iBlot™ 2 device uses ready-to-use transfer stacks that contain the required buffers and a transfer membrane (nitrocellulose or PVDF).

37 x 20 x 11 cm (W x D x H)

Find the right transfer stacks for your iBlot 2 Gel Transfer Device at **thermofisher.com/iblot2**

Accuracy and reliability	• High-detection sensitivity and even transfers • Increased blotting reliability and reproducibility
Efficiency and time savings	• Complete protein transfer in 7 minutes or less • A simple, user-friendly system • Flexible gel size formats and membrane types • Options to create new custom programs • High-quality transfer stacks that are more compact than before
Safety and social distancing	• Compact benchtop system—get a personal unit for each member of the lab; minimizing equipment sharing can help reduce risk of exposure to infectious agents

Find out more at **thermofisher.com/iblot2**

Power Blotter

Cost-effective, high-efficiency protein transfer

The Invitrogen™ Power Blotter is designed specifically for rapid semidry transfer of proteins from polyacrylamide gels to nitrocellulose or PVDF membranes in 5–10 minutes with ultimate flexibility. The Power Blotter allows for economical, high-efficiency protein transfer using homemade nitrocellulose or PVDF membrane transfer stack reagents, as well as pre-made Invitrogen™ Power Blotter Select Transfer Stacks.

16.3 x 27.9 x 16.5 cm (W x D x H)

Find the right pre-cut filter papers with membranes and transfer buffer reagent or transfer stacks for your Power Blotter at **thermofisher.com/powerblotter**

Efficiency and time savings	• Efficient—achieve high transfer efficiencies with a broad range of protein sizes compared to conventional semidry or wet (tank) transfer methods • Fast—transfer proteins in 5–10 minutes when used with Power Blotter Select Transfer Stacks or Power Blotter 1-Step Transfer Buffer • Easy-touch programming—access preprogrammed transfer protocols or create, save, and run customized transfer protocols • Flexible—simultaneously transfer 1–4 mini gels or 1–2 medium-sized gels • Versatile—compatible with Power Blotter Select Transfer Stacks, Thermo Scientific™ Pierce™ 1-Step Transfer Buffer for rapid blotting programs, or Towbin transfer buffer for conventional semidry transfer methods
Safety and social distancing	• Compact benchtop system—get a personal unit for each member of the lab; minimizing equipment sharing can help reduce risk of exposure to infectious agents

Find out more at **thermofisher.com/powerblotter**

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iBind Automated Western Systems

Simple and easy automated western blot processing

Load it, walk away, and return three hours later to blots that are ready for further visualization and analysis. Invitrogen™ iBind™ and iBind™ Flex Automated Western Systems improve upon manual western blot processing by helping to reduce hands-on time, enabling more consistent results, and using less primary antibody.

30 x 30 x 7.6 cm (W x D x H)

Find the right reagents for your iBind system at **thermofisher.com/ibind** and check our antibodies at **thermofisher.com/antibodies**

Accuracy and reliability	• Reproducibility—automated processing enables improved blot-to-blot consistency
Efficiency and time savings	• Automated—hands-free western detection with only 15 minutes of initial setup time required • Flexibility—process up to one midi blot, two mini blots, or six vertically cut strips using the same or different conditions with the iBind or iBind Flex devices • Cost savings—use up to 80% less primary antibody than with traditional tray-based incubation steps for western blotting • Simplicity—the system processes solutions using passive sequential lateral flow technology; no batteries or electricity required • Compatibility—use nitrocellulose or PVDF membranes, directly labeled primary or secondary antibody detection (AP, HRP, or fluorescent dye–labeled)
Safety and social distancing	• Compact benchtop system—get a personal unit for each member of the lab; minimizing equipment sharing can help reduce risk of exposure to infectious agents

Find out more at **thermofisher.com/ibind**

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Bandmate Automated Western Blot Processor

Programmable automated western blot processor which frees-up your lab time

The Invitrogen™ Bandmate™ Automated Western Blot Processor is a programmable blot-rocking system that automates the tedious hands-on blocking, washing, and antibody incubation steps of western blot processing. Minimal effort is required to set up the Bandmate device to process up to 2 midi blots or 4 mini blots using your current optimized reagents and protocols for blot processing, freeing up time for other important tasks.

61 x 39 x 42 cm (W x D x H)

Check our primary and secondary antibodies at **thermofisher.com/antibodies**

Accuracy and reliability	• Consistency day-to-day and person-to-person—with programmable processing steps, the precision of the steps can be improved compared to manual hands-on western blot processing
Efficiency and time savings	• Reduced hands-on-time—automatically performs the otherwise hands-on blocking, washing, and antibody incubation steps • Process 1–4 mini blots or 1–2 midi blots simultaneously to help maximize throughput • Processing and collection trays are also easy to remove for quick cleanup • Helps save precious antibodies—more than 90% of the starting antibody volume can be collected and recovered for future reuse

Find out more and get the right reagents for your Bandmate processing system at **thermofisher.com/bandmate**

iBright Imaging Systems

Stunningly easy western blot imaging

Capture images and analyze data from your western blots and gels efficiently and easily using Invitrogen™ iBright™ Imaging Systems. These high-performance instruments enhance the western blotting experience through advanced automation features and an interface that is easy to use for researchers of all experience levels.

63 x 38 x 60 cm (W x D x H)

- **Flexible imaging options**—capture visible and near-infrared fluorescence-based western blots and gels, chemiluminescent western blots, and colorimetric-stained protein and DNA gels
- **Bring your blots to life**—multiplex with the five fluorescence channels of the Invitrogen™ iBright™ FL1500 system; capture up to four proteins in a single blot for more meaningful experiments
- **Small footprint**—all capabilities are packed into a conveniently sized benchtop instrument with a large area for imaging multiple blots or gels simultaneously

Find the right reagents for your iBright system at **thermofisher.com/westernreagents**

Accuracy and reliability	• Powerful 9.1 MP cooled CCD camera—high sensitivity and dynamic range to help enable the detection of subtle differences in samples
Efficiency and time savings	• Load and go—logical user interface and workflows, and automated zoom, focus, and sample rotation • Smart Exposure auto-exposure, which speeds up image capture and minimizes time and hands-on input needed for optimizing imaging settings before capture • Large field of view for high-throughput imaging (image up to four mini or two midi blots at a time) • Data analysis and normalization in seconds—overlay molecular weight markers, perform densitometry analysis, and perform western blot normalization using housekeeping proteins or total lane protein • Account management feature saves user-specific settings to reduce setup time
Safety and social distancing	• Green LED-based transilluminator: effectively excite popular DNA dyes such as ethidium bromide and Invitrogen™ SYBR™ Green dyes with an alternative to UV-based transilluminators • Touchscreen can be operated with a single gloved finger • Flexible connectivity: export captured images via ethernet connection, Wi-Fi (with optional accessory), USB, or directly to the Connect Platform • Desktop and cloud-based analysis software allows users to analyze post-image capture results at personal spaces/desks, or even at home

Find out more and request a live demo at **thermofisher.com/ibright**

Sequencing

SeqStudio Genetic Analyzer

49.5 x 64.8 x 44.2 cm (W x D x H)

Cloud-enabled

Skip the complex instrument setup and get results faster

The Applied Biosystems™ SeqStudio™ Genetic Analyzer is a low-throughput, easy-to-use, and convenient benchtop system that delivers gold-standard Sanger sequencing technology and fragment analysis with just a simple click. It is easily used across a broad range of applications, as well as by multiple users of all skill levels, and offers a modernized experience at an affordable price.

Identify the right applications for your SeqStudio system at **thermofisher.com/seqstudioapplications**

- **Convenience and speed**—just click. That's it. Integrated cartridge for minimal hands-on time (polymer, array, pump, anode buffer—all in one unit). Fast turnaround - 4 min. of instrument hands on time, 30 min. run time.
- **Flexibility**—combine both Sanger sequencing and fragment analysis runs on the same plate, at the same time. Maximize your time by removing the need to batch samples.
- **Traceability and data security**—the data collection software contains an optional Security, Audit, and Electronic Signature (SAE) module that offers an electronic chain of custody to help ensure integrity of your data by defining security settings for each user account.
- **Connected anywhere, anytime**—remotely monitor runs, analyze sophisticated datasets in minutes, store data in a secure space, and share results online with colleagues using web browser–based software; monitor your runs in real time from mobile devices.
- **Maximize benchtop space**—this compact instrument can be configured as a stand-alone system or with a computer to fit most laboratory needs.

Find out more or request a quote at **thermofisher.com/seqstudio**

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SeqStudio Flex Genetic Analyzer

70 x 67.5 x 86.5 cm (W x D x H)

Cloud-enabled

Reliable performance and the freedom to work how you want to

Applied Biosystems™ SeqStudio™ Flex Genetic Analyzer provides the flexibility and ease to reach your goals faster.

Available in both 8- and 24-capillary configurations, it is the only mid-throughput genetic analyzer for Sanger sequencing and fragment analysis to deliver the high-quality data and reliable performance needed.

Find the right applications for your SeqStudio Flex Genetic Analyzer at **thermofisher.com/seqstudioapplications**

Flexibility

- **Freedom to access**—continuously load plates and reprioritize urgent samples without having to terminate the current run.
- **Increased walk-away capacity**—four plate positions accommodating 8-tube strips, and 96-well and 384-well sample plates.
- **Any application, any time**—perform Sanger sequencing and fragment analysis runs on a single plate using Applied Biosystems™ POP-7™ Polymer.
- **Work when and where you want**—set up your experiment, monitor progress, or analyze data from anywhere using the Thermo Fisher™ Connect Platform.

Ease of use

- **Expertise not required**—simple one-button startup, autocalibration, and onscreen step-by-step routine maintenance instructions, integrated Alexa™ voice control.
- **Simplified capillary array installation**—redesigned, more robust arrays with "click-and-slide" retractor tab and enhanced detection cell housing provide improved capillary protection, ease of handling, insertion, and positioning.
- **Integrated touchscreen computer**—intuitive software, walk-through wizards, and Applied Biosystems™ Plate Manager 2.0 Software for simplified plate setup and instrument operation.

Find out more or request a quote at **thermofisher.com/seqstudioflex**

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Lab automation

Orbitor RS2 Microplate Mover

Orbitor mover:
39.1 x 39.1 x 72.6 cm (W x D x H)

Full workspace:
88.1 x 57.4 cm (W x H)

The perfect solution to automate a variety of workflows

The easy-to-use and robust Thermo Scientific™ Orbitor™ RS2 Microplate Mover is a collaborative benchtop mover that provides superior reliability and improved process efficiency. Its innovative bidirectional telescoping arm, coupled with its expansive 360-degree workspace, provides exceptional reach and precision. Make the Orbitor RS2 mover your trusted laboratory productivity partner.

Accuracy and reliability	• The Orbitor RS2 mover can evolve with your lab's needs and can be upgraded in the field by adding devices to increase the capability and/or capacity of the system; choose from flexible storage options and a wide range of compatible labware.
Efficiency and time savings	• The integrated barcode scanner enables sample tracking and inventory management, while plate detection in the gripper helps eliminate labware handling errors and reduces the risk of lost samples.
Safety and social distancing	• The Orbitor RS2 mover can work alongside you without guarding or shielding—the overhead gripper design is inherently safe and built-in control stops all movement at the slightest unexpected contact. Whether you are a novice or experienced automation user, you will appreciate the range of integrated safety features.

Many of our instruments are designed to work in partnership with the Orbitor RS2 mover. Look for the automation-ready icon throughout this brochure to identify the instruments with automation capabilities.

Find out more or request a quote at **thermofisher.com/orbitorrs2**

Services and support

Accelerate scientific advancement with a direct line to superior services and support

More than 1,400 service and support specialists worldwide partner with you to enable your scientific success through:

Service plans—fast-track your repairs with a service plan that meets your budget, productivity, uptime, and regulatory requirements

Compliance services—receive timely, audit-ready qualification documentation (IQ/OQ) managed by a compliance specialist to help ensure your instrument is installed, operating, and performing to the manufacturer's specifications

Education services—train on applications and instruments through a combination of virtual and in-person classroom instruction, built to match your schedule, budget, and learning preferences

Find out more about our services and support at **thermofisher.com/instrumentservices**

Ordering information

Sample isolation and purification

Product	Cat. No.
KingFisher Flex Purification System with 24 Deep-Well Head	5400640
KingFisher Flex Purification System with 96 Deep-Well Head	5400630
KingFisher Duo Prime Purification System	5400110
KingFisher Apex Purification System with 96 PCR Head	5400910
KingFisher Apex Purification System with 96 Combi Head	5400920
KingFisher Apex Purification System with 96 Deep-Well Head	5400930
KingFisher Apex Purification System with 24 Combi Head	5400940

PCR

Product	Cat. No.
ProFlex 96-well PCR System	4484075
ProFlex 3 x 32-well PCR System	4484073
ProFlex 2 x 96-well PCR System	4484076
ProFlex 2 x flat PCR system	4484078
ProFlex 2 x 384-well PCR System	4484077
VeritiPro 96-Well Thermal Cycler	A48141
SimpliAmp Thermal Cycler	A24811
MiniAmp Thermal Cycler	A37834
MiniAmp Plus Thermal Cycler	A37835
Automated Thermal Cycler, 96-well, laptop, 1 m cable	A31486
Automated Thermal Cycler, 96-well, 1 m cable	A31489
Automated Thermal Cycler, 384-well, laptop, 1 m cable	A33977
Automated Thermal Cycler, 384-well, 1 m cable	A33980

qPCR

Product	Cat. No.
QuantStudio 3 Real-Time PCR System, 96-well, 0.1 mL block*	A28136
QuantStudio 3 Real-Time PCR System, 96-well, 0.2 mL block*	A28137
QuantStudio 5 Real-Time PCR System, 96-well, 0.1 mL block*	A28138
QuantStudio 5 Real-Time PCR System, 96-well, 0.2 mL block*	A28139
QuantStudio 5 Real-Time PCR System, 384-well*	A28140
QuantStudio 6 Pro Real-Time PCR System, 96-well, 0.1 mL block*	A43160
QuantStudio 6 Pro Real-Time PCR System, 96-well, 0.2 mL block*	A43159
QuantStudio 6 Pro Real-Time PCR System, 384-well*	A43161
QuantStudio 7 Pro Real-Time PCR System, 96-well, 0.1 mL block*	A43163
QuantStudio 7 Pro Real-Time PCR System, 96-well, 0.2 mL block*	A43162
QuantStudio 7 Pro Real-Time PCR System, 384-well*	A43164
QuantStudio 7 Pro Real-Time PCR System, TaqMan Array Card block	A43165
ProQuantum High-Sensitivity Immunoassays	thermofisher.com/proquantum

* Does not include computer. Additional Cat. Nos. are available that include laptop or desktop computers.

Digital PCR

Product	Cat. No.
QuantStudio Absolute Q Digital PCR System	A52864

Nucleic acid quantification

Product	Cat. No.
NanoDrop One Spectrophotometer with Wi-Fi and Qubit 4 Fluorometer	A38190
NanoDrop One Spectrophotometer with Wi-Fi	ND-ONE-W
NanoDrop One Spectrophotometer with Wi-Fi	ND-ONEC-W
NanoDrop Lite Spectrophotometer	ND-LITE
NanoDrop Lite Spectrophotometer with Printer	ND-LITE-PR
NanoDrop 8000 Spectrophotometer	ND-8000-GL
Qubit 4 Fluorometer with Wi-Fi	Q33238
Qubit 4 Quantitation Starter Kit with Wi-Fi	Q33239
Qubit 4 NGS Starter Kit with Wi-Fi	Q33240
Qubit 4 RNA IQ Starter Kit with Wi-Fi	Q33241
Qubit Flex Fluorometer	Q33327
Qubit Flex NGS Starter Kit	Q45893
Qubit Flex Quantitation Kit	Q45894

Nucleic acid electrophoresis

Product	Cat. No.
E-Gel Power Snap Electrophoresis Device	G8100
E-Gel Power Snap Camera	G8200
E-Gel Power Snap System	G8300
E-Gel Imager System with UV Light Base	4466611
E-Gel Imager System with Blue-Light Base	4466612
E-Gel Imager System with E-Gel Adaptor	4466613

Electroporation

Product	Cat. No.
Neon Transfection System Starter Pack	MPK5000S
Neon Transfection System	MPK5000
CTS Xenon Electroporation Instrument	A52727

Cell analysis

Product	Cat. No.
EVOS M7000 Imaging System (fully automated fluorescence)	AMF7000
EVOS M5000 Imaging System (automated focusing and fluorescence)	AMF5000
EVOS FLoid Imaging Station (fixed fluorescence)	4471136
EVOS XL Core Imaging System (brightfield)	AMEX1000
Primary and secondary antibodies	thermofisher.com/antibodies

Cell analysis (continued)

Lasers	Laser colors	Parameters	Cat. No.
Attune CytPix Flow Cytometer configuration options			
4	Blue/red/yellow/violet 6	16	A51849
4	Blue/red/yellow/violet	16	A51848
3	Blue/red/violet 6	14	A51847
3	Blue/red/violet	13	A51844
3	Blue/violet/yellow	13	A51846
3	Blue/red/yellow	12	A51845
2	Blue/violet 6	11	A51843
2	Blue/violet	10	A51841
2	Blue/red	9	A51840
2	Blue/yellow	9	A51842
Attune NxT Flow Cytometer configuration options			
4	Blue/red/yellow/violet 6	16	A29004
4	Blue/red/yellow/violet	16	A24858
3	Blue/red/violet 6	14	A29003
3	Blue/red/violet	13	A24860
3	Blue/violet/yellow	13	A24859
3	Blue/red/yellow	12	A28993
2	Blue/violet 6	11	A29002
2	Blue/violet	10	A24862
2	Blue/red	9	A24863
2	Blue/yellow	9	A24861
1	Blue	6	A24864

Product	Cat. No.
CytKick Autosampler (for Attune flow cytometers)	A42901
CytKick Max Autosampler (for Attune flow cytometers)	A42973
Countess 3 Automated Cell Counter	AMQAX2000
Countess 3 Automated Cell Counter + REX Extended Warranty	A49862
Countess 3 FL Automated Cell Counter	AMQAF2000
Countess 3 FL Automated Cell Counter + REX Extended Warranty	A49892
CellInsight CX5 High-Content Screening Platform	CX51110
CellInsight CX7 High-Content Screening Platform	CX7A1110
CellInsight CX7 LZR Pro HCS Platform	HCSDCX7LZRPRO
HCA Onstage Incubator for CellInsight CX5 instrument	NX5LIVE002
HCA Onstage Incubator for CellInsight CX7 instrument	NX7LIVE001
Varioskan LUX Multimode Microplate Reader; top/bottom reading for absorbance, fluorescence intensity, and luminescence	VLBL00D0
Varioskan LUX Multimode Microplate Reader; top reading for absorbance and fluorescence intensity	VL0000D0
Varioskan LUX Multimode Microplate Reader; top/bottom reading for absorbance, fluorescence intensity, luminescence, time-resolved fluorescence, and AlphaScreen technology	VLBLATD0
Multiskan SkyHigh Microplate Spectrophotometer, touchscreen	A51119600C
Multiskan FC Microplate Photometer	51119000
Fluoroskan Microplate Fluorometer	5200110
Fluoroskan FL Microplate Fluorometer and Luminometer	5200220
Luminoskan Microplate Luminometer	5300330
Wellwash Microplate Washer, 1 x 8	5165000
Wellwash Versa Microplate Washer, 2 x 8	5165010
ELISA Kits	thermofisher.com/elisa

Protein analysis

Product	Cat. No.
Luminex 200 Instrument	APX10031
Luminex FLEXMAP 3D Instrument	APX1342
Luminex xMAP INTELLIFLEX Instrument	APX2020
Luminex xMAP INTELLIFLEX DR-SE Instrument	APX2021
ProcartaPlex multiplex immunoassays	thermofisher.com/luminex
QuantiGene Plex gene expression assays	thermofisher.com/luminex

Western blotting

Product	Cat. No.
Mini Gel Tank	A25977
Mini Gel Tank and Blot Module Set	NW2000
SureLock Tandem Mini Gel Tank	STM1001
SureLock Tandem Midi + Blot Module Set Welcome Pack, PVDF	STM4014
SureLock Tandem Midi + Blot Module Set Welcome Pack, Nitrocellulose	STM4015
Protein Gels Welcome Packs	Various
PowerEase Touch 120W Power Supply (115 VAC)	PS0120
PowerEase Touch 350W Power Supply (115 VAC)	PS0350
iBlot 2 Gel Transfer Device	IB21001
iBlot 2 Starter Kit	IB21001S
Bolt Welcome Pack + iBlot 2 System	NW0412AIB2
Power Blotter System	PB0012
Power Blotter XL System	PB0013
Power Blotter Welcome Pack	PB0112
Power Blotter XL Welcome Pack	PB0113
iBind Western Device Starter Pack	SLF1000S
iBind Flex Western Device Starter Pack	SLF2000S
Bandmate Automated Western Blot Processor	BW1000
iBright CL1500 Imaging System (chemiluminescent)	A44240
iBright FL1500 Imaging System (fluorescent and chemiluminescent)	A44241
Primary and secondary antibodies	thermofisher.com/antibodies

Genetic analysis

Product	Cat. No.
SeqStudio Genetic Analyzer System with SmartStart Orientation	A35644
SeqStudio Genetic Analyzer System with SmartStart Orientation plus 1-year extended warranty	A35645
SeqStudio Genetic Analyzer System with SmartStart Orientation plus 3-year extended warranty	A35646
SeqStudio Starter Kit	A35000
SeqStudio Cartridge v2	A41331
SeqStudio 8 Flex Genetic Analyzer System with data collection software, a 1-day on-site SmartStart orientation, DNA sequencing and fragment analysis reagent kits for system performance check, and a 1-year warranty	A53627
SeqStudio 8 Flex Genetic Analyzer System plus 1-year extended warranty, which includes all items from Cat. No. A53627 plus an additional 1-year warranty	A53789
SeqStudio 24 Flex Genetic Analyzer System with data collection software, a 1-day on-site SmartStart orientation, DNA sequencing and fragment analysis reagent kits for system performance check, and a 1-year warranty	A53630
SeqStudio 24 Flex Genetic Analyzer System plus 1-year extended warranty, which includes all items from Cat. No. A53630 plus an additional 1-year warranty	A53792
IQ/OQ/IPV for a SeqStudio 8 Flex Genetic Analyzer System	A53769
IQ/OQ/IPV for a SeqStudio 24 Flex Genetic Analyzer System	A53771
SAE Administrator Console Software v2.1 (optional)	A53717

For more information please contact:

Find out more about our products and services at
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