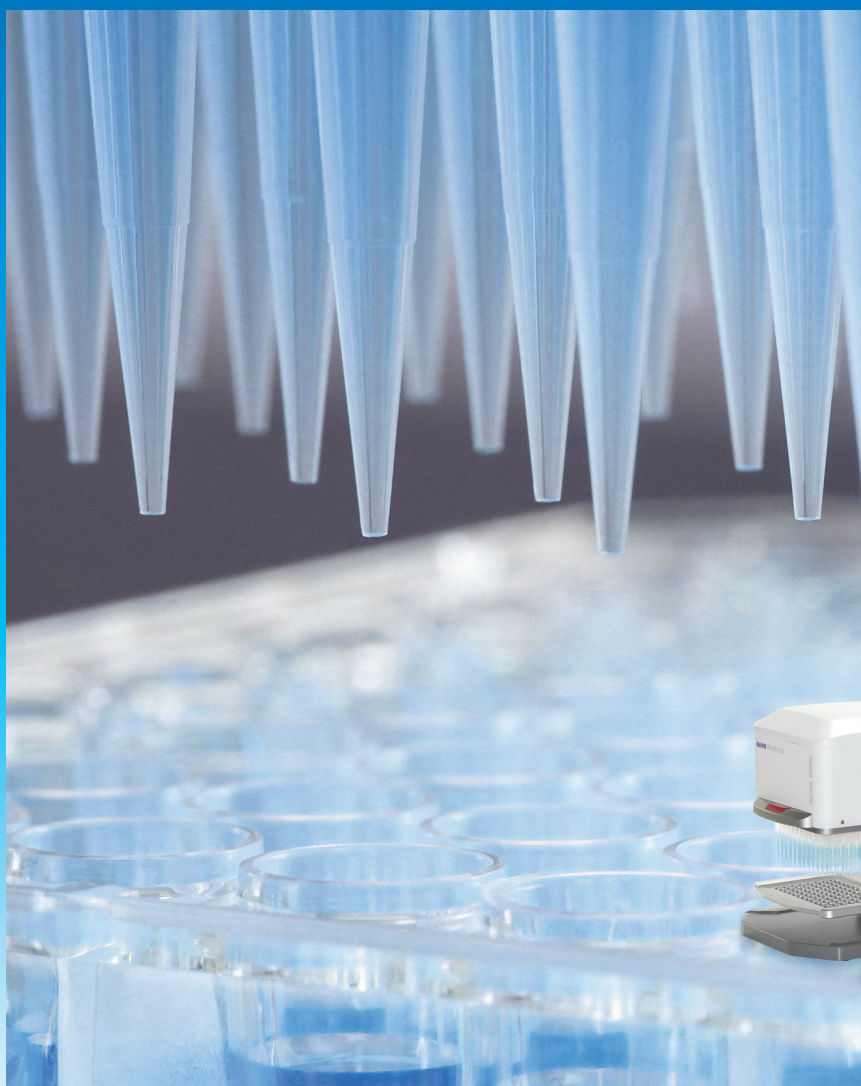


Automated Pipetting

RAININ
Pipetting 360+



Rainin MicroPro

Reproducible Data

Scientist-Friendly Operation

Ultra Compact



Reproducibility and Throughput

Simple 96-Channel Pipetting

METTLER TOLEDO

Reproducibility and Throughput Without Complexity

Rainin MicroPro™ is an exceptionally easy-to-use 96-channel pipetting system that helps users run the same workflow, consistently, every time.

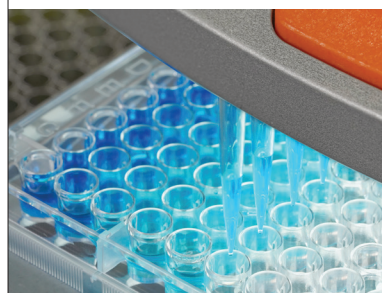
While manual plate-based pipetting can be repetitive, technique-dependent, and difficult to standardize, Rainin MicroPro helps researchers bring consistency to everyday workflows. MicroPro is an easy-to-use 96-channel pipetting system that automates aspiration, dispensing, mixing, pipetting height, and protocol execution.

With intuitive software, it is easy to create, run, save, and repeat liquid handling methods without complex programming. From serial dilutions and PCR setup to cell-based assays, sample preparation, bead cleanups, and many other laboratory applications, MicroPro helps labs increase throughput while reducing variability.



Three volume ranges from 2–1250 µL mean there is a MicroPro to meet any need.

Reliable and Reproducible Data



Improve assay consistency by creating and saving protocols with defined pipetting parameters, simultaneous dispensing, and programmable tip depth.

Easy to Learn, Easy to Run



Designed for scientists, not automation engineers. Its large touchscreen tablet and visual protocol creation unlocks automation at every bench.

Flexibility for Every Workflow



With three volume ranges, custom protocols, SBS footprint compatibility, and partial plating, MicroPro can fit into any workflow.

Compact and Portable Automation



As the smallest and lightest 96-channel pipette on the market, MicroPro is easy to move around and fits inside most fume hoods and biosafety cabinets.

Reduce Physical and Mental Strain



Reduce physical and mental strain by pipetting all 96 channels simultaneously, removing the most tedious and error-prone steps in your workflow.

Increase Throughput



Automate repetitive plate workflows to process more samples in less time compared to multichannel pipettes.

Flexible Pipetting Modes

Simple Transfers to Full Protocols

MicroPro automates routine plate-based liquid handling without adding unnecessary complexity. From simple transfers to serial dilutions and custom multi-step protocols, intuitive pipetting modes standardize workflows, reduce manual variability, and increase throughput across users. The intuitive touchscreen interface simplifies protocol development for both basic transfers and complex, multi-step workflows. Visual setup and onscreen simulations let researchers design and review methods before running them, helping streamline protocol setup and execution.

Build Any Workflow. Standardized Across the Lab.



With a large wireless touchscreen, users can easily create custom MicroPro protocols, including pipetting steps, mixes, tip changes, instructions, timers, barcode scans, tip height, and even automated actions like mixing after dispensing. They are savable, editable, and shareable, making it easy to deploy consistent workflows across the lab.

Pipette



Transfer samples, buffers, reagents, or controls between plates, reservoirs, and SBS-format labware with consistent 96-channel aspiration and dispensing.

Repeat and Variable Dispense



Choose fixed or variable dispense modes for fast, consistent reagent addition, plate stamping, or plate replication.

Multi-Aspirate



Aspirate from multiple wells or sources before dispensing to simplify pooling, consolidation, reagent combining, or staged liquid handling steps.

Programmable Tip Height



Set and recall optimized aspiration and dispense heights across protocols for specific labware, liquids, and protocol steps. No more eyeballing or guessing.

Speed Control



Control the speed for every aspiration, dispense, and mixing step for delicate cells, dense master mixes, or viscous and volatile liquids.

Guided Instructions and Timers



Add user instructions, timed pauses for incubations, and prompts to keep every operator aligned with the same workflow.

Rainin MicroPro

Designed Around Your Workflows

From routine plate transfers to reagent addition, serial dilutions and complete workflows, MicroPro simplifies everyday liquid handling. Three volume ranges support diverse applications, while programmable workflows deliver consistent, repeatable 96-channel performance. Proven accuracy and precision help ensure reliable results across every channel and every plate. Flexible plate and tip configurations make MicroPro easy to adapt to the needs of your lab.

Technical Data

Performance	MP 20	MP 300	MP 1250
Volume Range	2 - 20 µL	5 - 300 µL	50 - 1250 µL
Systematic Error (per channel)	20 µL ± 1.0 % (0.20 µL)	300 µL ± 1.0 % (3.0 µL)	1250 µL ± 1.8 % (22.5 µL)
	10 µL ± 1.5 % (0.15 µL)	150 µL ± 1.5 % (2.25 µL)	625 µL ± 2.0 % (12.5 µL)
	2 µL ± 5.0 % (0.10 µL)	30 µL ± 1.5 % (0.45 µL)	125 µL ± 2.5 % (3.13 µL)
Random Error (per channel)	20 µL ≤ 0.5 % (0.10 µL)	300 µL ≤ 1.0 % (3.0 µL)	1250 µL ≤ 0.8 % (10.0 µL)
	10 µL ≤ 1.0 % (0.10 µL)	150 µL ≤ 1.0 % (1.50 µL)	625 µL ≤ 1.0 % (6.25 µL)
	2 µL ≤ 3.0 % (0.06 µL)	30 µL ≤ 1.0 % (0.30 µL)	125 µL ≤ 1.5 % (1.88 µL)
		15 µL ≤ 2.0 % (0.30 µL)	

Dimensions and Weight

Length	240 mm (9.5 inches)	216 mm (8.5 inches)	216 mm (8.5 in)
Width	190 mm (7.5 inches)	190 mm (7.5 inches)	190 mm (7.5 in)
Height	320 mm (12.6 inches)	320 mm (12.6 inches)	381 mm (15.0 in)
Weight	5 kg (11 lbs)	5 kg (11 lbs)	5.4 kg (12 lbs)

The smallest 96-channel pipette

Fits in biosafety cabinets and moves easily around the lab

Wireless touchscreen tablet controller

Builds and runs protocols from anywhere in the lab

Simple execution

Controls all actions with a single button

Programmable tip height

Saves labware heights for consistent pipetting

Flexible tip layout

Load 96 or 48 tips at a time for half plates, or 1-12 columns with Tips in Strips for partial plates and serial dilutions

SBS footprint nest

Compatible with any SLAS/ANSI/SBS footprint consumable

Under nest position

Dispenses from a reservoir while adding workspace without increasing instrument footprint

Dual nest

Increases deck positions to three and slides by column for serial dilutions or 96-to-384-well plate transfers

Low retention tips

Free of DNase, RNase, DNA, and endotoxins with and without filter

RingLock™ tip system

Reduces loading force and eliminates O-ring maintenance



Reversible nest

Pipette in 96-well or 384-well plates by quadrant



Tips in Strips

Supports 1-12 columns for partial plates and serial dilutions without moving tips individually

Three Optimized Volume Ranges

MicroPro Platform

From routine plate transfers to media exchange, reagent addition and serial dilution, MicroPro 300 streamlines everyday 96- and 384-well liquid handling with programmable, repeatable workflows designed for consistency and efficiency. Applications that require lower or higher dispensing volumes can be handled with the MicroPro 20 and MicroPro 1250. All three instruments use the same intuitive software and provide 96-channel performance for even more lab workflows.

MicroPro 300: One Instrument for Countless Workflows

Cell Maintenance

- Media exchange
- Cell seeding
- Staining
- Washing
- Matrix coating

Sample Preparation

- DNA/RNA extraction
- LC/MS sample prep
- Protein precipitation
- Buffer and solvent addition
- Sample dilution

Plate Transfer and Replication

- 96- to 96-wells
- 96- to 384-wells
- Aliquoting
- Sample transfer
- Assay setup



MicroPro 300 has a volume range of 5 – 300 μ L.

MicroPro 20: Precision for Low-Volume Workflows

- PCR and qPCR sample preparation
- Sample transfer
- Template dilution
- Plate replication
- Low-volume reagent addition
- Compound transfer
- DNA/RNA plate transfers
- Enzyme and biochemical assays
- Assay miniaturization
- 384-well workflows



MicroPro 20 has a volume range of 2 – 20 μ L.

MicroPro 1250: For Washes, Transfers, and Bulk Reagent Addition

- Cell washing and media exchange
- Suspension cell workflows
- Magnetic bead workflows
- LC/MS sample preparation
- Plate replication and high volume transfer
- Deep-well plate processing
- Bulk reagent dispensing
- Sample pooling



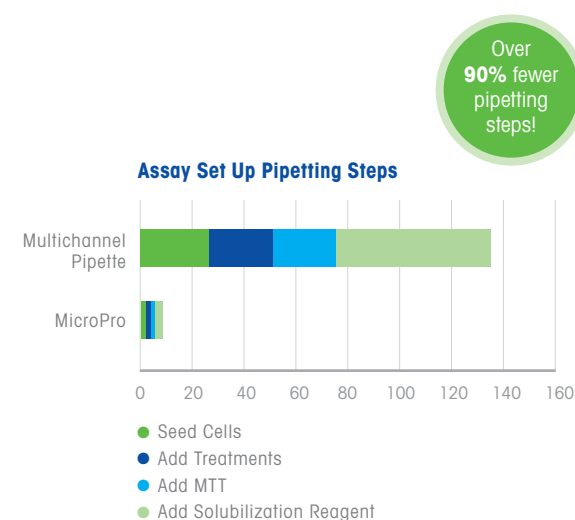
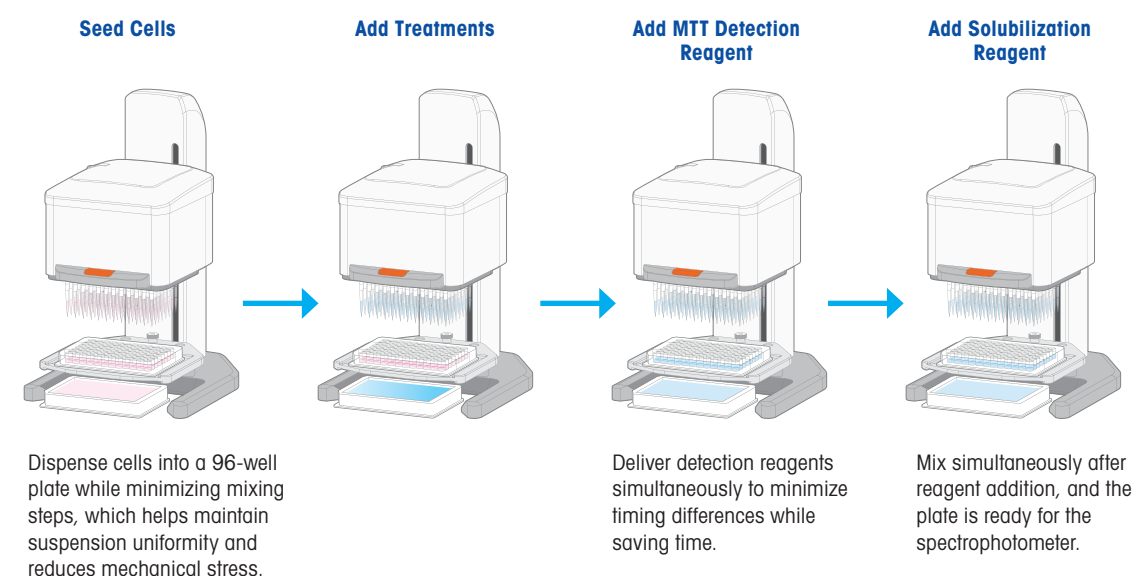
MicroPro 1250 has a volume range of 50 – 1250 μ L.

One Platform Countless Workflows

Whether processing 8 samples or 96, MicroPro combines automated liquid handling, intuitive software, and flexible tip loading to help researchers complete common laboratory workflows faster and more consistently.

Cell-Based Assays and Drug Screening

From seeding to screening, MicroPro helps increase throughput, save time, and streamline repetitive pipetting. In an MTT assay, it can reduce hands-on reagent addition time by up to 50% and cut pipetting steps from 135 to 9. Dispense cells into a 96-well plate, decreasing mixing steps to keep cells homogenous and reduce pipetting stress. Deliver detection reagents simultaneously to minimize timing differences while saving time. Mix automatically after reagent addition to reduce the number of pipetting steps.



Magnetic Bead-Based Workflows

Protect valuable samples while reducing processing time, tip use, and variability. With MicroPro, bead-based post-PCR cleanups and extractions can be performed more quickly and efficiently. 96-channel pipetting reduces hands-on time by >82%, conserves tips compared to manual processing by using the same tips for reagent addition and supernatant removal, and reduces the risk of contamination or manual error through plate-wide processing.

	Manual Pipetting Steps		Tips Used	
	MicroPro	Multichannel	MicroPro	Multichannel
Add SPRI Beads to Samples and Mix	0	132	96	96
Magnetize and Remove Supernatant	0	12	0	96
Dispense Ethanol	0	24	192	192
Remove Ethanol	0	24	0	192
Dispense Elution Buffer and Mix	0	132	96	96
Transfer Samples	0	12	96	96
Total	0	336	480	768
	Manual Pipetting Steps		Tips Used	

MicroPro allows you to simultaneously dispense ethanol and elution buffer to every sample at the same time, ensuring every sample is incubated and mixed identically, increasing consistency.

With a multichannel pipette tip change is necessary to prevent contamination—adding steps, time, and tips needed to process samples.

Benefit From Our Liquid Handling Expertise

Scientists around the world rely on high-quality liquid handling equipment from Rainin. Our premium instruments and consumables reflect our passion for exceptional quality and innovative design. They are built to deliver years of accurate, reliable, and ergonomic operation.



Rainin Pipetting 360+

Precision pipettes, high-purity tips and expert service are all backed by innovative tools, software and training to ensure exceptional performance across your workflows.



Ergonomic Pipettes

Discover a range of pipettes from Rainin. Choose from a wide assortment of single-channel, multichannel, electronic, manual, and positive displacement pipettes for years of accurate results.

► www.mt.com/pipettes



Expert Pipette Service

METTLER TOLEDO's global network of factory trained technicians and ISO/IEC accredited pipette calibration labs ensure your instruments are restored to the highest accuracy and precision.

► www.mt.com/pipette-service

www.mt.com/rainin

For more information

Your Partner in Precision

METTLER TOLEDO Group

Laboratory Division
Local contact: www.mt.com/contacts

Subject to technical changes.

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31212063 Rev A