10x GENOMICS

The most confident way to single cell.

Chromium X series

10xgenomics.com

See reproducible results

Minimize handling and user errors with efficient, automated cell partitioning and barcoding.

Get data faster

Get to results quicker with a simple, 1-day workflow—half the time of manual methods.

Scale with ease

Scale quickly & seamlessly from small pilots or up to 1 million cells per run.

Meet the Chromium X series instruments

Single cell analysis has been a revolutionary breakthrough in biology. Understanding cellular diversity has enabled significant insights into intracellular mechanisms and their applications to health and disease. But for many researchers, single cell has been out of reach due to technical, cost-per-cell, and scalability challenges.

The Chromium X series instruments are helping researchers overcome these challenges. Flexible enough to fit into any lab, these instruments quickly and efficiently partition and barcode hundreds to 1 million fresh, frozen, or fixed cells in a single run, removing constraints and letting you expand your research.

The Chromium instrument advantage—high performance made routine

Cell partitioning and barcoding are the most critical steps of your single cell workflow. Chromium X series instruments automate these steps, utilizing advanced GEM-X microfluidics to bring superior efficiency, reproducibility, and performance to your bench. Generate hundreds to over a million single cell partitions in just minutes, with each partition containing an identifying barcode for downstream analysis.

Combined with an innovative reagent delivery system and turnkey software analysis tools, we enable the discovery of previously inaccessible biological information. In addition, the Chromium X series provides fast and easy instrument management—including direct support and software updates—with connectivity to the 10x Genomics Cloud.

An entry-level option: Chromium Xo

Just starting your single cell journey? Looking for ways to do more with less funding? No problem. Chromium Xo can get you on your way. This low-cost instrument runs our industry-leading GEM-X technology for 3' whole transcriptome profiling, bringing the Chromium advantage right to your bench.

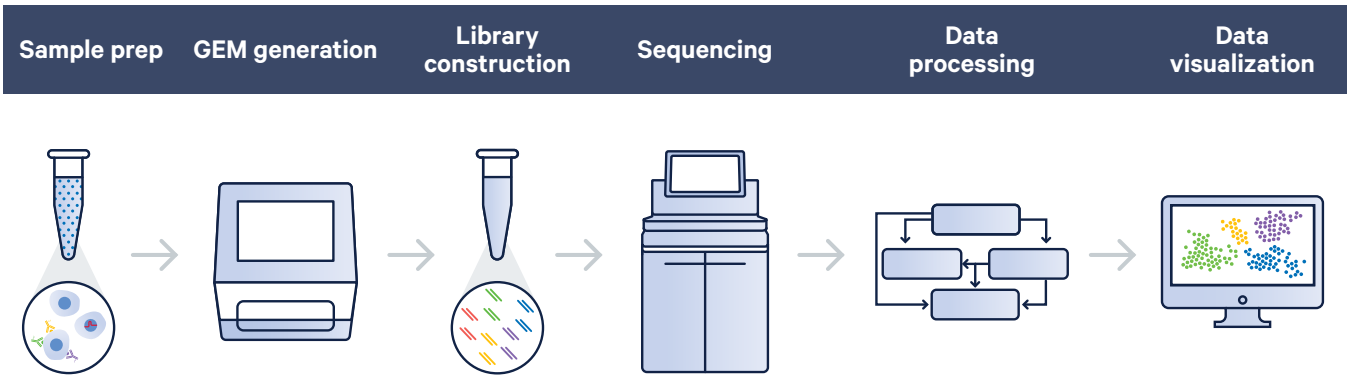
There's no limit to the number of runs or scale of your studies. And when you're ready to access different assays, there's no need to purchase a new instrument—a simple software upgrade is all it takes.

Instrument	Chromium Xo	Chromium iX	Chromium X
Description	Enables 3' single cell gene expression only.	Pairs with our core assays and capabilities.	Access the full portfolio of Chromium assays and capabilities.
Available upgrades	Can be upgraded to Chromium X	Can be upgraded to Chromium X	N/A
Assay compatibility	Single Cell Gene Expression	Single Cell Gene Expression Single Cell Immune Profiling Single Cell Gene Expression Flex Single Cell Multiome ATAC + Gene Expression Single Cell ATAC	Single Cell Gene Expression Single Cell Immune Profiling Single Cell Gene Expression Flex Single Cell Multiome ATAC + Gene Expression Single Cell ATAC Single Cell Gene Expression HT Single Cell Immune Profiling HT

Flexible for any experimental design

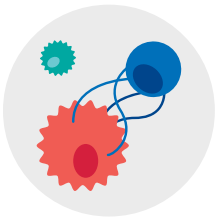
Chromium Single Cell products provide end-to-end workflows where each step is built for your success, from optimized sample prep protocols and automated cell partitioning to intuitive analysis and expert support. Chromium X series instruments efficiently and reliably handle cell partitioning so you can easily take on a wide range of projects, from pilot studies to large-scale or multi-site projects. Our comprehensive portfolio lets you profile fresh, frozen, and fixed samples (even FFPE) and capture multiple molecular readouts, including gene expression, chromatin accessibility, proteins, immune clonotype, and CRISPR perturbation screens.

Chromium X is our most advanced instrument, offering compatibility with all 10x Genomics single cell assays and opening the door to the widest variety of experiments. Our Chromium Xo and iX instruments are easily upgradable to Chromium X for access to the full breadth of our single cell portfolio.



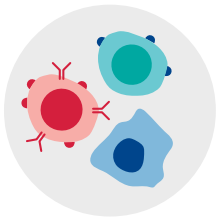
Applications and research areas

The Chromium X series opens the door to exploring single cell diversity, providing discoveries in a wide variety of research fields, including:



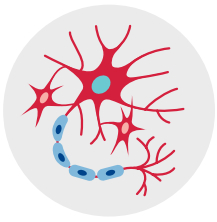
Oncology

Resolve cancer with single cell insights into the complex biology underlying tumor heterogeneity, the tumor and immune microenvironment, biomarker discovery, and therapeutic development.



Immunology

Redefine immunology with multiomic single cell characterization for actionable insights into infectious disease, therapeutic discovery, allergies and inflammation, autoimmune disorders, and transplantation.



Neuroscience

Gain a new perspective on neural complexity with single cell resolution for deeper insights into psychiatric disorders, neurodegenerative disease, and developmental neurobiology.

Product description	Product code
Chromium X & Accessory Kit, 12 Mo. Warranty	1000331
Chromium X & Accessory Kit, 24 Mo. Warranty	1000332
Chromium Xo & Accessory Kit, 12 Mo. Warranty	1000812
Chromium iX & Accessory Kit, 12 Mo. Warranty	1000328
Chromium iX & Accessory Kit, 24 Mo. Warranty	1000329
Chromium Xo to X Upgrade	1000813
Chromium iX to X Upgrade	1000330

Parameter	Specification
Weight	41.4 lb (18.8 kg)
Dimensions	W x D x H 11.25” [28.6 cm] x 19” [48.3 cm] x 10.75” [27.3 cm]
Electrical requirements	100–240 VAC, 50/60 Hz, 250 W 90–264 V operational range (+/- 10% of nominal) Overvoltage Category II (standard receptacle)
Operating temperature	64–82°F [18–28°C]
Humidity	30–80% R.H. non-condensing
Altitude	Altitude up to 7500 ft [2286 m] above sea level
Power cable length	6–7 ft [2 m] Standard - country specific adaptors included

Ensure your success with expert support

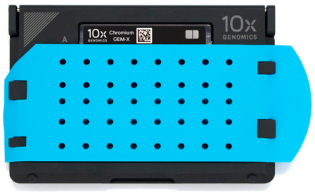
Enabling you to easily bring high-performance single cell to your lab is our priority. Keep your research moving forward with access to:

- Comprehensive resources, including User Guides, protocols, how-to videos, analysis guides, and more
- Tailored training sessions for everything from optimized sample prep to powerful, intuitive data analysis
- 10x Genomics specialists who can help guide you through each step with confidence

Single cell with confidence

Single cell analysis is quickly revolutionizing cell biology and the way we understand the biological basis of health and disease. Thousands of studies using 10x Genomics technology have unveiled new insights into the importance of cellular diversity. Our expert technical support and customer service will help you get started and keep your momentum going in single cell research.

The future of single cell is in your hands.



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LIT000139 - Rev E - Brochure - The most flexible way to single cell - Chromium X series

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