CG000256 Rev B

QUICK REFERENCE CARDS

Chromium Connect

FOR USE WITH

Chromium Connect, PN-1000171 Chromium Connect, PN-1000180



Chromium ConnectSystem Components

- 1 Front Panel
- 2 Left side of the power base assembly:



- (a) Thermal Cycler Power Supply
- System Power SupplyOne or two independent circuits possible
- © Fuses/Fuse covers (two 12A fuses, two 4A fuses)
- 3 Right side of the power base assembly:
 - a USB port: external devices
 - (b) USB port: optional HEPA CAP hood
 - © USB port: Thermal Regulator
 - d Ethernet to customer Wired Network
 - Power plug: optional HEPA CAP hood
 - f Power plug: Thermal Regulator
- 4 Touchscreen
 USB port on monitor: User External Drive
 (download log files/upload setup files)
- (5) Gantry (liquid-handling device)
- 6 Barcode Scanner
- 7 Deck Area
- 8 Chromium Automated Controller
- Thermal Regulator
 (kept on/underneath benchtop)
 - Main power cable for Thermal Regulator (plugs into 3f)
 - **b** USB port
 - © ID port
 - d External Sensor port



REMOVE POWER FROM BOTH AC INLETS PRIOR TO ANY SERVICE ON THERMAL CYCLER OR SYSTEM.

Information also available in Chromium Connect Quick Reference Cards (CG000254) and in the Software Menu Options.

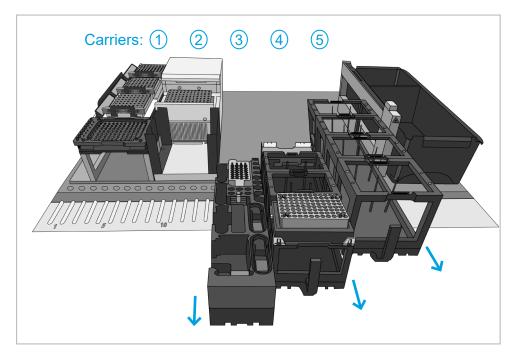


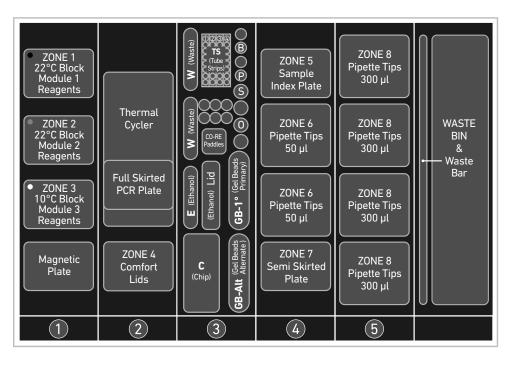


Deck Area Layout

Chromium Next GEM Automated Single Cell 3' Gene Expression v3.1 Assay

The deck includes five carriers. Carriers 1-2 are stationary while Carriers 3-5 slide out for loading/unloading items. The items displayed in the layout and table are specific to the assay listed above.





Zone	Item	
Carrier 1	Stationary	
Zone 1	22°C Block, Reagents, Module 1	
Zone 2	22°C Block, Reagents, Module 2	
Zone 3	10°C Block, Reagents, Module 3	
-	Magnetic Plate	
Carrier 2	Stationary	
-	Thermal Cycler	
-	Full Skirted PCR Plate (within Thermal Cycler)	
Zone 4	Comfort Lids	
Carrier 3	Rails: 15-18, Lights: 4	
W	Waste Reservoir	
TS	Tube Strips	
В	Dynabeads™ MyOne™ SILANE	
Р	Primer	
S	Glycerol	
0	Partitioning Oil	
O CP	Partitioning Oil CO-RE Paddles	
	<u> </u>	
СР	CO-RE Paddles	
CP E	CO-RE Paddles Ethanol Reservoir	
CP E LID	CO-RE Paddles Ethanol Reservoir Lid for Ethanol Reservoir	
CP E LID GB-1°	CO-RE Paddles Ethanol Reservoir Lid for Ethanol Reservoir Gel Beads Primary	
CP E LID GB-1° GB-Alt	CO-RE Paddles Ethanol Reservoir Lid for Ethanol Reservoir Gel Beads Primary Gel Beads Alternate Next GEM Chip G (Automated)	
CP E LID GB-1° GB-Alt C	CO-RE Paddles Ethanol Reservoir Lid for Ethanol Reservoir Gel Beads Primary Gel Beads Alternate Next GEM Chip G (Automated)	
CP E LID GB-1° GB-Alt C Carrier 4	CO-RE Paddles Ethanol Reservoir Lid for Ethanol Reservoir Gel Beads Primary Gel Beads Alternate Next GEM Chip G (Automated) Rails: 19-24, Lights: 6	
CP E LID GB-1° GB-Alt C Carrier 4 Zone 5	CO-RE Paddles Ethanol Reservoir Lid for Ethanol Reservoir Gel Beads Primary Gel Beads Alternate Next GEM Chip G (Automated) Rails: 19-24, Lights: 6 Sample Index Plate	
CP E LID GB-1° GB-Alt C Carrier 4 Zone 5 Zone 6	CO-RE Paddles Ethanol Reservoir Lid for Ethanol Reservoir Gel Beads Primary Gel Beads Alternate Next GEM Chip G (Automated) Rails: 19-24, Lights: 6 Sample Index Plate Pipette Tips 50 µl Semi Skirted Plate	

Tips & Best Practices

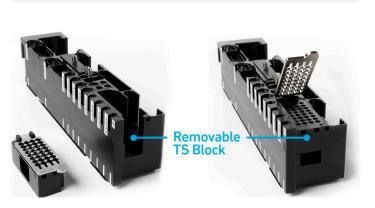
Carrier Handling

- Establish a clean space near the instrument for placing sliding carriers during loading.
- To scan barcodes, slide carrier in SLOWLY and follow software prompts (chime & flashing lights).
- Practice sliding the carriers completely off the deck and replacing them back using rails.



Deck Loading – Consumables

- · Follow touchscreen for assay-specific handling.
- Ensure correct barcode orientation (on tubes and racks) as prompted by the touchscreen.
- The deck orients the A1 position to the back left corner of the instrument.
- Keep chip and gasket in sealed package until prompted to load.
- DO NOT use chips or gaskets specific to other 10x Genomics protocols.
- Optional removal of the TS block from Carrier 3 may facilitate loading tube strips.



User Interaction

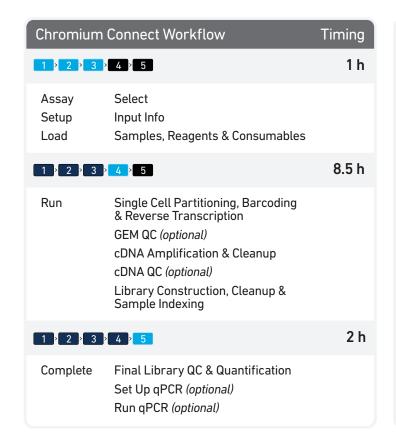
- CSV file upload enabled for Assay Setup and cDNA Input.
- For sample prep, refer to assay-specific Automation Kit User Guide
- The touchscreen provides a window for sample prep during which reagents are safely held on deck.
- Emulsion check requires user interaction
 ~30–50 min into the run.

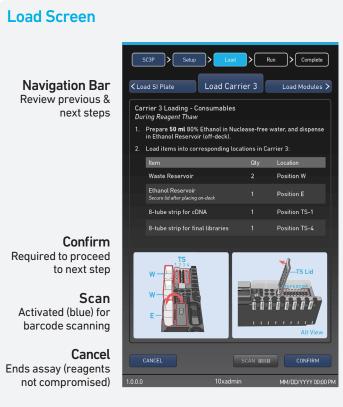
Deck Loading – Reagents

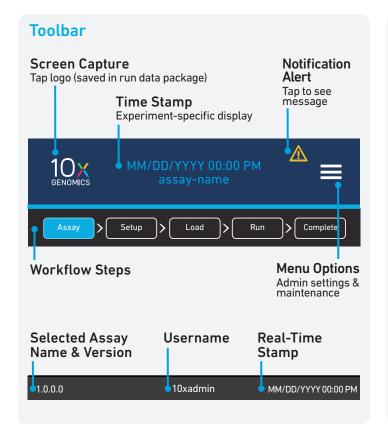
- Follow touchscreen for assay-specific handling.
- Ensure that no air gaps remain at the bottom of tubes.
- Prepare and dispense 80% ethanol off-deck to avoid spilling on consumables (i.e. chip).
- Carrier 3 gel bead positions allow use of one full tube strip or two partially used tube strips (adding up to 8 tubes total). Use GB-Primary first.
- Reagent thaw begins at specified points on touchscreen, with continued loading during thaw.
- Module loading: Use black handles to lift lids. Load from row 1 (back to front), inserting barcode end onto pin.
- Press black handles while closing lids.
 DO NOT allow lids to forcefully snap shut.
- DO NOT touch module mirrors. Smudges can prevent barcode scanning. Wipe clean when necessary.

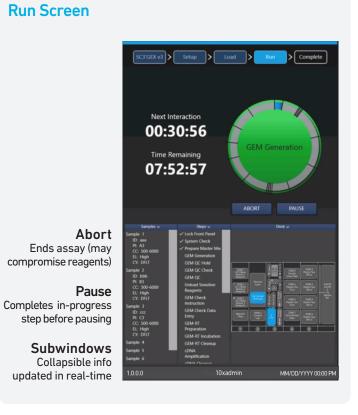


Software Orientation





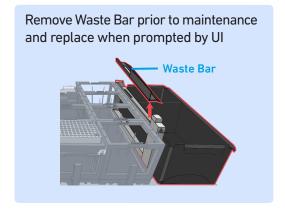




Maintenance

Running Maintenance via Software	Daily 15 min	Weekly 40 min
Inspect for Condensation, Dust & Smudges	✓	✓
Empty Waste Bin & Liquid Waste	✓	✓
Channel Tests Pipette Channel Tightness Test Liquid Detection Test	✓	✓
Clean Deck, Rails, Carriers, Mirrors & Walls		✓
Wipe down with laboratory wipes to minimize sources of particles and fibers 70% isopropanol or microcide on metal Deionized water or microcide on nonmetal		
Clean Gantry Channels Lens-cleaning tissue and nuclease-free water		✓
Calibration		✓





References

- Chromium Connect Instrument User Guide (Document CG000180)
- Chromium Connect Specifications (Document CG000255)
- 10x Genomics Support website

Support

Email: support@10xgenomics.com

10x Genomics 6230 Stoneridge Mall Road Pleasanton, CA 94588 USA

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