SHIMADZU
Excellence in Science

Enables the Brevis™ GC-2050 to be Controlled by Thermo Scientific™ Dionex™ Chromeleon™ 7

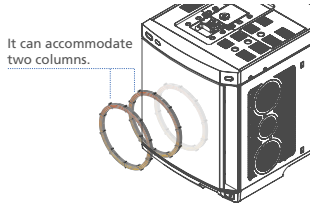
Shimadzu GC Driver for Chromeleon 7

Brevis™ GC-2050

Nexis™ GC-2030

Enables Control of the Brevis GC-2050, a System that Offers Uncompromised Analytical Performance in a Small Footprint

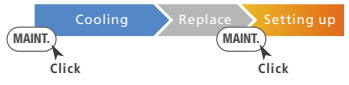
The compact Brevis GC-2050, with a system width of 350 mm, including the autoinjector (AOC™-30i), allows for even more efficient use of lab space. Compared to the same Nexis GC-2030 configuration, the system width has been reduced by approximately 35 %. Despite its space-saving design, the GC oven design does not require a dedicated column, and general capillary columns can be used. Dual-line analysis is also supported.

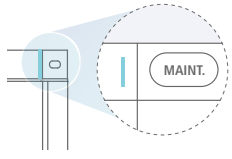


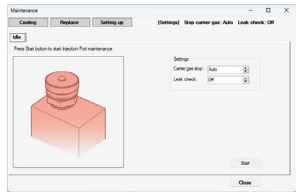
Facilitates Easy Daily Maintenance with Support for the Easy sTop Function

The GC-2050 is equipped with a function (Easy sTop) that automatically lowers the GC inlet temperature and simplifies liner (consumable) replacement by simply pressing the MAINT. button on the upper right of the GC front panel. It can also be operated from the Chromeleon window, helping to ensure a convenient workflow in the lab.

Note: Operating the Easy sTop function from Chromeleon is possible with both the GC-2030 and GC-2050.



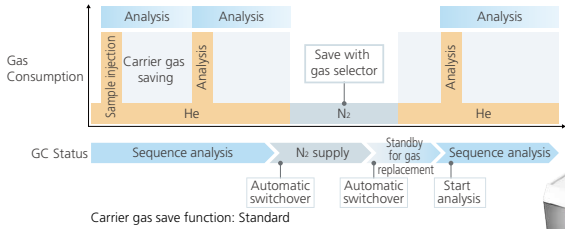




Supports He Gas Saving and Hydrogen Carrier Usage

The GC-2030/GC-2050 can be equipped with an optional built-in hydrogen sensor to detect potential leaks early and maintain a safe standby mode. If hydrogen leakage increases, the main power is turned off to prevent accidents.

When the GC-2030/GC-2050 is equipped with the optional gas selector, the carrier gas can be switched using the analysis method or via a Chromeleon window operation. Switching to an alternative carrier gas after sequence analysis is complete minimizes helium consumption.



Carrier gas save function: Standard
Gas selector: Optional

The hydrogen sensor monitors the inside of the GC oven.

Product Lineup

Description	Version	Versions with Functionality Verified
Shimadzu GC Driver for Chromeleon 7	**2.40**	Chromeleon 7.2 SR1 - 7.2 SR5 / 7.2.8 / 7.2.9 / 7.2.10 / 7.3 / 7.3.1 / 7.3.2

Note: This product supports Nexis GC-2030, Brevis GC-2050 and HS-20/HS-10 system control and HS-20 standalone control.
GC-2010 (Plus/Pro) and GC-2014 (c) can be controlled using the Thermo Fisher Scientific Inc. driver provided with Chromeleon 7.

Controllable Hardware

The Shimadzu GC Driver for Chromeleon 7 supports control of the following units.

GC Unit Nexis GC-2030, Brevis GC-2050

Options AOC-30i, AOC-20i (Plus) autoinjector, AOC-20s (U) autosampler, HS-20 (NX)/HS-10 headspace sampler, dual injection system

Unit	Device name
Sample Injector	**GC-2030** : SPL-2030, WBI-2030, OCI-2030 (NX), PTV-2030, SINJ-2030
	GC-2050 : SPL-U(1.0)
Detector	**GC-2030** : FID-2030, TCD-2030, ECD-2010 Exceed, FPD-2030, FTD-2030, BID-2030, SCD-2030, PTCD-2030
	GC-2050 : FID-U(1.0), FPD-U(1.0), ECD-2010 Exceed U
Advanced Flow Technology	**GC-2030** : Backflush, detector splitting, detector switching, heart-cut system
Additional Temperature Controller	**GC-2030** : Auxiliary temperature control unit
Additional Flow Controller	**GC-2030** : APC (3 auxiliary channels), APC (1 auxiliary channel)
	GC-2050 : APC (3 auxiliary channels), APC (1 auxiliary channel)
Options	**GC-2030** : Gas selector, Low-temperature control solenoid valve set CRG-2030, External equipment control relay PRG-2010 Plus, PRG Box
	GC-2050 : Gas selector, Low-temperature control solenoid valve set CRG-2030

The following unit can be controlled using the Thermo Fisher Scientific driver included with Chromeleon 7.
By using the Shimadzu GC Driver for Chromeleon in conjunction with standalone control of the HS-20 headspace, the system consisting of both the GC and HS-20 (NX) can be controlled.

GC Unit GC-2010 (Plus) and GC-2014

Options HS-20 (NX) headspace sampler, AOC-20i (Plus) autoinjector, AOC-20s (U) autosampler

Unit	Device name
Sample Injection Port	**GC-2010 (Plus)** : SPL-2010 (Plus), OCI / PTV-2010 (Plus) **GC-2014** : SPL-2014, DINJ-2014
Detector	**GC-2010 (Plus)** : FID-2010 (Plus), TCD-2010 (Plus), ECD-2010 (Plus), FPD-2010 (Plus), FTD-2010 (Plus) **GC-2014** : DFID-2014, SFID-2014, TCD-2014, ECD-2014
Additional Flow Controller	**GC-2010 (Plus)** : APC (3 auxiliary channels)
Low-Temperature Oven Controller	**GC-2010 (Plus)** : CRG-2010 low-temperature control solenoid valve unit

Note: Up to six Shimadzu GC units can be controlled from a single instrument server.
It is not recommended to connect other vendor instruments to the same instrument server. Please prepare a dedicated server for controlling the Shimadzu GC units.

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