

## Shimadzu LC-2010C HT Integral Module

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This LC-2010HT integral module is comprised of a degassing unit, low-pressure gradient unit, pump unit, mixer, ultra fast autosampler, column oven, and a UV-VIS detector with a thermostatted flow cell.

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### Functions

#### High Throughput Autosampler

The high-performance metering pump can precisely measure sample volume with no sample loss. In addition to superior repeatability (within 0.3%RSD\*1) and low carryover (within 0.01%\*1), the capacity and speed are greatly improved with this High Throughput Autosampler. Two sample racks for 1.5mL vials are equipped as standard.

#### Sampler cooler

A direct cooling mechanism with Peltier elements provides for efficient and rapid cooling. The newly designed dehumidifier prevents condensation.

#### Degasser

A small-volume, high-efficiency 5-line degasser is incorporated to remove dissolved gases in mobile phases and in the rinsing solution of the autosampler.

#### Pump

Pulse-free solvent delivery is achieved by utilizing Shimadzu's proprietary micro volume serial double plunger design. A newly developed Dynamic Inlet Valve (Pat. Pending) greatly improves flow rate stability and gradient performance.

#### UV-VIS Detector

Thanks to the lowest baseline noise ( $\pm 0.25 \times 10^{-5}$  AU or lower\*1) ever, higher sensitivity analyses are achieved. The standard temperaturecontrolled cell reduces the influence of room temperature fluctuations on absorbance and gives a more stable baseline. A mercury lamp is built in to check wavelength accuracy.

#### Column Oven

The block heating-type column oven can heat and cool up to two columns. The temperature deviation is minimized by a double temperature control mechanism. The advanced Column Management Device (CMD)\*3 can be used to easily manage column information.

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## System Controller

The Graphical User Interface (GUI) and Wizard function make it easy to operate the LC-2010HT.

## Reservoir Tray

The Reservoir Tray can accommodate six 1L bottles. Documents and small tools can be stored in the drawer, too.

## Features:

### Large Sample Capacity

The LC-2010HT can handle up to 350 1mL vials or 210 1.5mL vials\*4. When microtiter plate racks are used, up to 4 microtiter plates can be accommodated for continuous analysis of max. 1,536 samples.\*5 Deep Well plates can also be used. Two separate sample racks are used so that you can load samples in a rack while analyses are performed on samples from the other rack.

### High Speed Injection

Injection time per sample has been greatly reduced. Just 15 seconds\* are required from start to finish for unheard of high-speed sample injection.

\*For a 10 $\mu$ L injection volume

### High-speed analysis.

Seven analyses are completed in 15 minutes thanks to high-speed injection and an ultra-fast column. This enables major improvements in analysis throughput in the field of drug discovery.

### Database

Multiple data are managed in one block with optional CLASS-Agent Manager\*\*.

Required data can be easily retrieved from a mass of data as analysis data is automatically loaded into the database.

\*\*Standard component of optional CLASS-Agent software.

## [View Manufacturer's Sales Information](#)

\*1: Under the analytical conditions determined by Shimadzu

\*2: Standard for the LC-2010HT

\*3: Optional item

\*4: LC-2010AHT

\*5: When 384-well plates are used

[Download specification \(Pump, Degasser, AS, Oven\)](#)

[Download specification \(UV Detector, Controller, General\)](#)