

# LCMS-2020

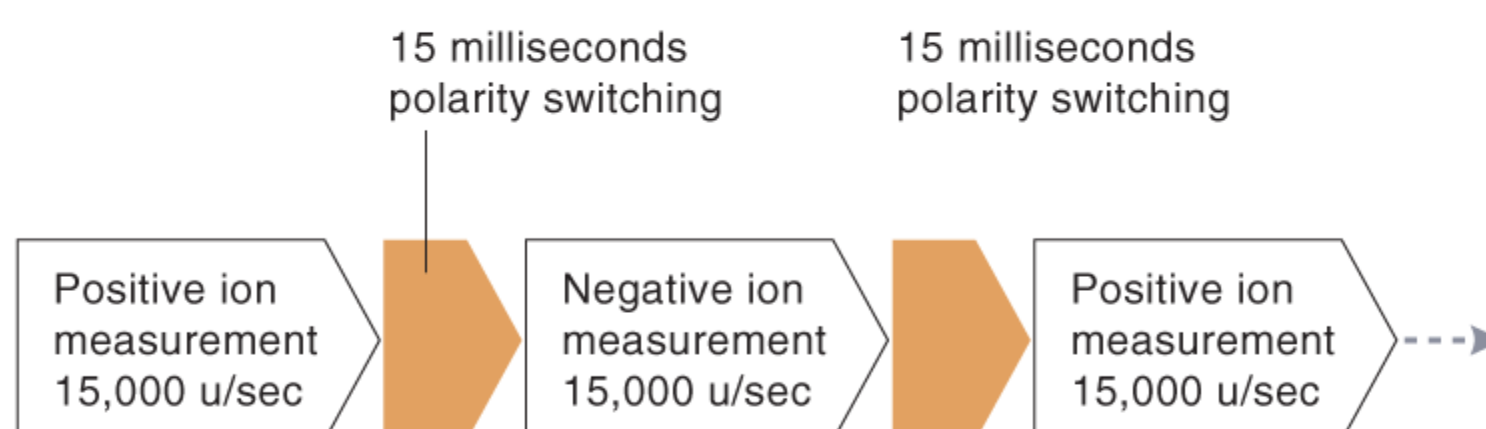


### UFsensitivity

Ultra-fast analysis with excellent sensitivity  
Newly developed ion optical system and new Qarray provide excellent sensitivity, repeatability and linearity.

### UFswitching and UFscanning

UFswitching and UFscanning functions make ultra-fast MS measurement possible.



## Performance

Model: LCMS-2020  
 Mass Range: m/z 10 to 2000  
 Resolution: R=2M  
 LC Flow Rate: ESI 0.001 – 2 mL/min  
 Max Scan Speed: 15000 u/sec  
 Polarity Switching Time: 15 msec  
 Sensitivity: Flow injection, SIM mode

	ESI	APCI-2020	DUIS-2020
Positive	reserpine 10 pg S/N > 600 (p-0) *1 10 pg S/N > 1500 (RMS) *2	reserpine 10 pg S/N > 400 (p-0) *1 10 pg S/N > 1000 (RMS) *2	papaverine 10 pg S/N > 600 (p-0) *1 10 pg S/N > 1500 (RMS) *2 acetophenone 10 ng S/N > 200 (p-0) *1 10 ng S/N > 500 (RMS) *2
Negative	p-nitrophenol 20 pg S/N > 60 (p-0) *1 20 pg S/N > 150 (RMS) *2	p-nitrophenol 20 pg S/N > 100 (p-0) *1 20 pg S/N > 250 (RMS) *2	p-nitrophenol 20 pg S/N > 20 (p-0) *1 20 pg A/N > 50 (RMS) *2

Interface: ESI / APCI (Option) / DUIS (Option)  
 ESI Flow Rate: 0.001 – 2 mL/min  
 APCI Flow Rate: 0.05 – 2 mL/min, max. temperature: 500 °C  
 DUIS Flow Rate: 0.05 – 1 mL/min  
 Desolvation Line: Max. temperature: 300 °C  
 Block Heater: Max. temperature: 500 °C (ESI, DUIS) / 300 °C (APCI)

\*1 Noise level prescribed as peak-to-zero.

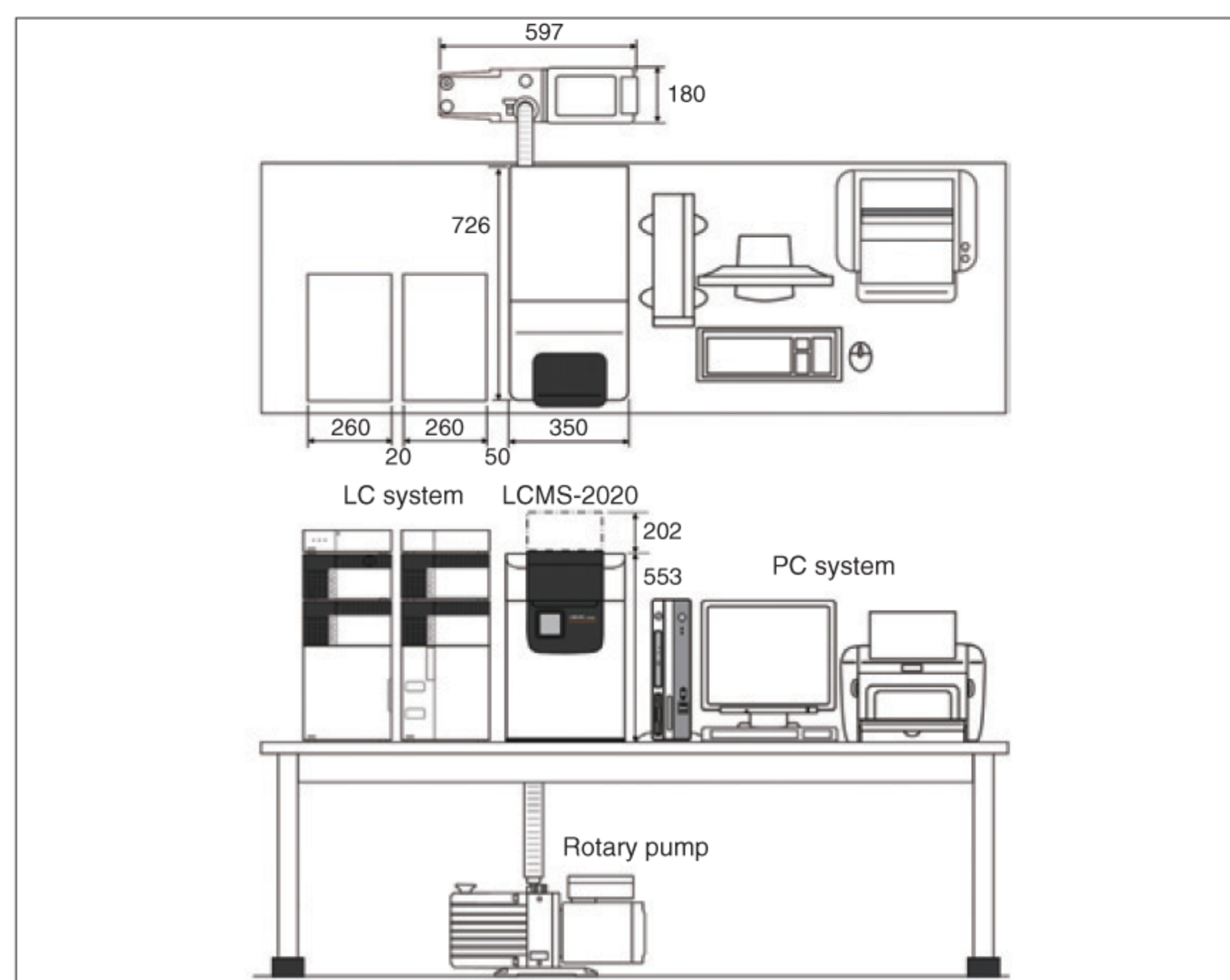
\*2 Noise level defined as RMS.

## Software

### LCMSsolution Ver.5

Operating System:	Compatible with Windows XP Professional / Vista Business
Instrument Control:	Integrated control of the HPLC (Shimadzu Prominence Series), LCMS-2020 MS unit, and interface
Multi-Sequence Mode Function:	Simultaneous data collection with a maximum 64 methods, such as scan, SIM, profile, positive ion, negative ion, CID switching
Autotuning:	Sensitivity and resolution optimized for both positive-ion and negative-ion modes

## Installation Example



<b>Temperature:</b>	18°C to 28°C Humidity: 40% to 70% (no condensation)
<b>Size:</b>	350 mm (W) x 726 mm (D) x 553 mm (H)
<b>Weight:</b>	77.5 kg (MS unit)
<b>Power supply:</b>	MS unit: 200 V AC, 10 A (50/60 Hz), single-phase PC unit: 100 V AC (50/60 Hz) LC unit: 100 V AC (current capacity varies with system configuration)
<b>Gas:</b>	Nitrogen gas, consumption rate max. 21.5 L/minute

Size and weight of PC / Printer vary according to models.  
Appearance and Specifications are subject to change without notation of modification.

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