

# LCMS-2020

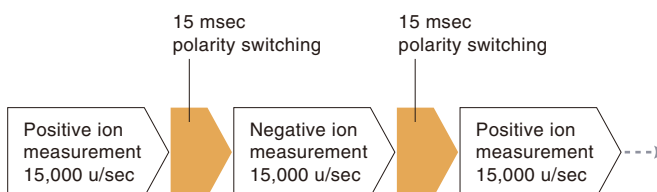


### UFsensitivity

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

Mass Range:	<i>m/z</i> 10 to 2000
Resolution:	R=2M
Max. Scan Speed:	15,000 u/sec
Polarity Switching Time:	15 msec
Max. Temperature of Desolvation Line:	300°C
Max. Temperature of Block Heater:	500°C (ESI, DUIS) / 300°C (APCI)
Interface:	ESI, APCI (Option), DUIS (Option)
Applicable Flow Rate:	0.001–2 mL/min (ESI) 0.05–2 mL/min (APCI) 0.05–1 mL/min (DUIS)

### Sensitivity:

Interface \ Polarity	Positive	Negative
ESI	S/N > 1500 RMS (S/N > 600 peak-to-zero)	S/N > 150 RMS (S/N > 60 peak-to-zero)
	10 pg reserpine	20 pg <i>p</i> -nitrophenol
APCI	S/N > 1000 RMS (S/N > 400 peak-to-zero)	S/N > 250 RMS (S/N > 100 peak-to-zero)
	10 pg reserpine	20 pg <i>p</i> -nitrophenol
DUIS	S/N > 1500 RMS (S/N > 600 peak-to-zero)	S/N > 50 RMS (S/N > 20 peak-to-zero)
	10 pg papaverine	
	S/N > 500 RMS (S/N > 200 peak-to-zero)	
	10 ng acetophenone	

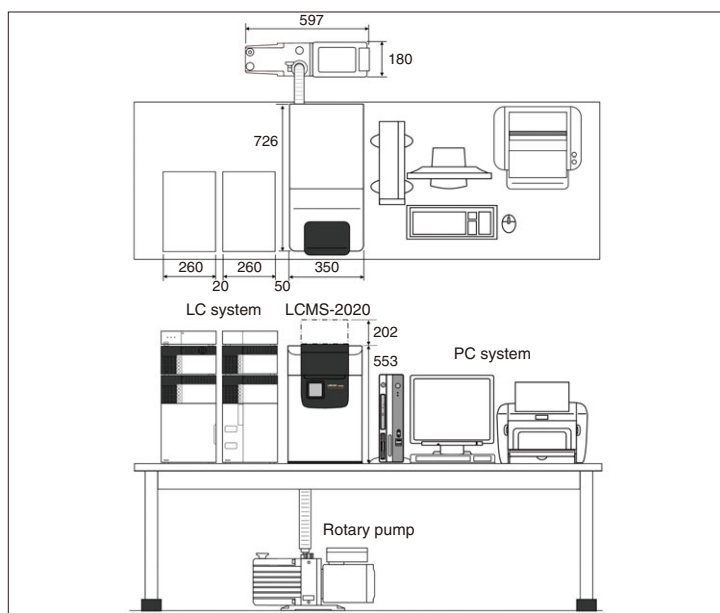
\*Sensitivities are measured using flow injection analysis.

## Software

### LabSolutions LCMS Ver.5

Operating System:	Compatible with Windows XP Professional / Vista Business
Instrument Control:	Integrated control of the UHPLC Nexera™, HPLC (Shimadzu Prominence Series and LC-2010), 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



Temperature:	18°C to 28°C
Humidity:	40% to 70% (no condensation)
Size:	350 mm (W) x 726 mm (D) x 553 mm (H)
Weight:	77.5 kg (MS unit)
Power supply:	MS unit: 200/230 V AC, 10 A (50/60 Hz), single-phase PC unit: 100/120/220 V AC (50/60 Hz) LC unit: 100/120/220 V AC (current capacity varies with system configuration)
Gas:	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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