

## Shimadzu AA-7000 Atomic Absorption Spectrophotometer

The AA-7000 series of Atomic Absorption Spectrophotometers features high-sensitivity analysis, flexible system configuration, and a compact footprint for user-friendly operation. In addition, the AA-7000 systems are the first AAs to employ a vibration sensor as standard. The AA-7000 series ensures efficient and comfortable operation in your laboratory.

### Features of Shimadzu AA-7000 Atomic Absorption Spectrophotometer

- **Double-Beam Optics and Stable Hardware Achieve Superior Stability :-** The AA-7000 Series incorporates newly developed 3D double-beam optics. The optical system has been designed to produce its maximum performance for each measurement method through optimal adjustment of the light beam and light beam digital filter, and by using optical components that reduce light losses.
- **Achieves World-Class Lower Limits of Detection:-** Advances in optics and a new graphite furnace design achieve improved lower limits of detection for furnace analysis (comparison with previous Shimadzu models). This superb analysis performance is possible in all fields.
- **Advanced Safety Technology:-** Safety is an extremely important consideration for flame atomic absorption spectrophotometry using acetylene gas. The AA-7000 Series instruments are the first\* ones in the world fitted with a vibration sensor as standard. They also incorporate a comprehensive range of safety mechanisms, including gas leak detectors.
- **System Configuration can Evolve with Your Needs:-** When attached to the AA-7000F, the optional AAC-7000 Auto Atomizer Changer\* creates an integral burner and furnace that remains permanently installed in the combustion chamber. It supports flame analysis of high-concentration samples and furnace analysis of trace samples, without changing the atomizer unit. The integral construction with the atomizer saves space.
- **Auto burner system:-** Burner height can be controlled with a PC by using the flame model AA-7000F and the auto atomizer changer AAC.
- **Dual atomizer system:-** An integral burner and a furnace are installed in the combustion chamber. Both burner exchange and atomizer part and the removal of pipes and wiring are not required. A newly developed drive mechanism shortens flame / furnace measurement switching time to 1/2 compared with our conventional products.

### Specifications of Shimadzu AA-7000 Atomic Absorption Spectrophotometer

<b>Product Name</b>	Shimadzu AA-7000 Atomic Absorption Spectrophotometer
<b>Instrument</b>	AA-7000F/AAC
<b>Wavelength range</b>	185.0 to 900.0 nm
<b>Bandwidth</b>	0.2, 0.7, 1.3, 2.0 nm (4-step automatic switching)
<b>Background correction method</b>	BGC-SR (high-speed self-reversal method) (185.0 to 900.0 nm), BGC-D2 (D2 lamp method) (185.0 to 430.0 nm)
<b>Lamp mode</b>	EMISSION, NON-BGC, BGC-D2, BGC-SR
<b>Measurement mode</b>	Flame continuous method, flame micro sampling method, furnace method, flame emission method
<b>Maximum reagent / sample positions</b>	Reagents: 8 positions, Samples: 60 positions (when using an autosampler)
<b>Digital recording</b>	Management by login ID and password, control user access authority by user level, log review, audit trail, electronic signatures
<b>Positioning</b>	Automatic flame/furnace switching by motor
<b>Dimensions</b>	W 70 × D 58.8 × H 71.4 cm
<b>Weight</b>	76 kg (Autosampler is not included.)