

## Shimadzu Simultaneous TGA/DTA Analyzer DTG-60AH

The Shimadzu automatic simultaneous thermal analyzer DTG-60AH provides simultaneous thermogravimetry/derivative thermogravimetry (TGA/DTG) and differential thermal analysis (DTA) on a single sample.

A high resolution top loading thermobalance provides TGA data along with two detectors for semi-quantitative DTA/DSC data. A motorized, self locating bifilar wound furnace is used. A 24 position autosampler including punching mechanism is built-in.

Temperature range is ambient to 1500°C



### Included in the base instrument:

- two plug-in detectors and set of crucibles (aluminium, platinum)
- lighted LCD display for temperature and signal
- operation panel for direct access for emergency stop, autosampler adjustment and service tasks
- remote system functions
- self-diagnostics by software
- three gas connectors
- operation manuals
- built in cooling fan allows controlled cyclic runs between 50°C and 1500°C
- auto-cleaning function
- built-in autosampler
- full control of autosampler function by optical and electronic devices
- adjustable punch mechanism for volatile samples

### Specifications:

Temperature range:	RT to 1500°C	DTA sensitivity:	0.1 $\mu$ V
Heating rate:	$\pm 0.01$ to $\pm 99.9$ K/min at 0.1°K intervals	Noise:	<0,2 $\mu$ V
Temp reproducibility:	0.1°K	Time constant:	<20 seconds.
Temp accuracy:	0.1°K	Crucible volume:	50-80 $\mu$ l (typical)
Time to cool:	<13 min to 100 °C	Atmosphere:	inert or reactive
Sample mass:	1000 mg	Autosampler:	24 positions (2 <sup>nd</sup> tray optional)
TG mass range:	$\pm 500$ mg	Punch mechanism:	built-in, for volatile samples
TG noise:	<3 $\mu$ g		
TG sensitivity:	1 $\mu$ g		
TG readability:	0.1 $\mu$ g		
Dynamic range:	$\pm 1000$ $\mu$ V		