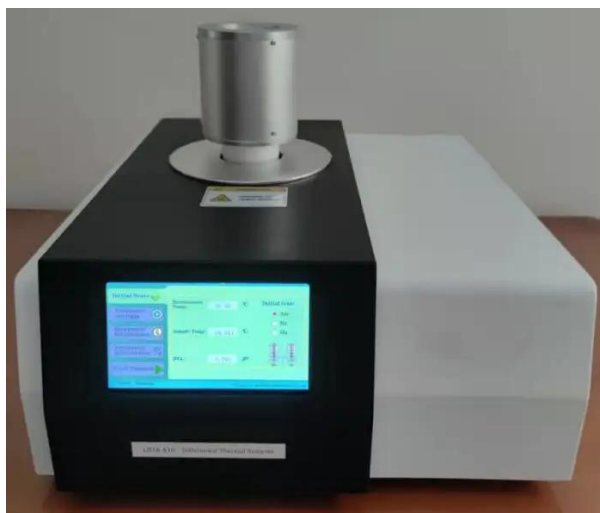




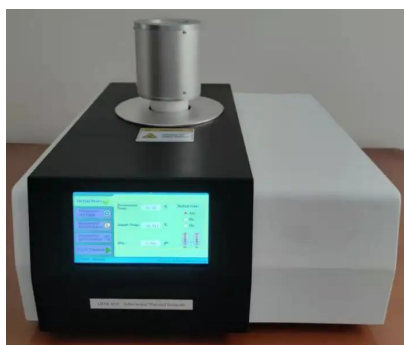
## DIFFERENTIAL THERMAL ANALYZER

# DIFFERENTIAL THERMAL ANALYZER BHJ1H1

## DIFFERENTIAL THERMAL ANALYZER

DTA: Differential Thermal Analysis is a technique which can measure the temperature difference and temperature relationship between the sample and the reference material in the process of controlling temperature. Differential thermal analysis curves can describe the relationship of the temperature difference  $\Delta T$  changes with the temperature or time between the sample and the reference material. During the

DTA experiment, the sample temperature changes due to the endothermic or exothermic effect of the phase transition or reaction. Such as, phase transition, melting, crystalline structure transition, boiling, sublimation and evaporation, dehydrogenation, cleavage reaction or decomposition reaction, oxidation or reduction reaction, the destruction of lattice structure and the other chemical reaction.



1. The main control chip of the instrument adopts Cortex-M3 core ARM controller, which has faster operation speed and more accurate temperature control.
2. USB two-way communication makes the operation more convenient.
3. Adopt 7 inch 24bit color LCD touch screen, the interface is more friendly.
4. Adopt Ni Cr alloy sensor, more resistant to high temperature, corrosion and oxidation.

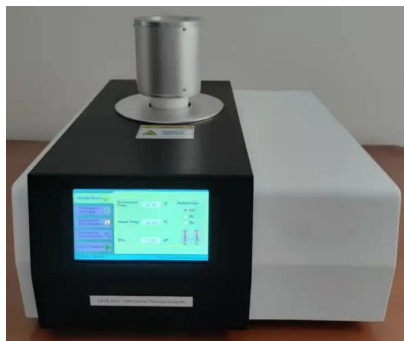
## SPECIFICATIONS

|                           |                                                                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Model                     | BHJ1H1                                                                                                                              |
| Old Model                 | BANA-101                                                                                                                            |
| Temperature range         | Room temperature ~ 1150°C                                                                                                           |
| Measuring range           | 0 ~ ±2000 $\mu V$                                                                                                                   |
| DTA precision             | ±0.1 $\mu V$                                                                                                                        |
| Heating rate              | 0.1 ~ 80°C/min                                                                                                                      |
| Temperature resolution    | 0.1°C                                                                                                                               |
| Temperature accuracy      | ±0.1°C                                                                                                                              |
| Temperature repeatability | ±0.1°C                                                                                                                              |
| Temperature control       | Temperature rise: program control (adjustable as per parameter needs); Constant temperature: program control (arbitrarily set time) |
| Body Structure            | Cover structure replaces traditional lifting furnace, ensuring high precision and easy operation                                    |
| Atmosphere control        | Automatic switching of internal programs                                                                                            |
| Data interface            | Standard USB connector, supports data transfer and software operation                                                               |
| Display                   | 24-bit color, 7-inch LCD touch screen display                                                                                       |
| Parameters of Standard    | Equipped with reference substances and key calibration function (user can correct temperature)                                      |
| Baseline adjustment       | Users can adjust baseline by changing slope and intercept                                                                           |
| Work power                | AC 220V 50Hz                                                                                                                        |
| Alt Name                  | Differential Thermal Analyzer                                                                                                       |

# DIFFERENTIAL THERMAL ANALYZER BHJ1G1

## DIFFERENTIAL THERMAL ANALYZER

DTA:Differential Thermal Analysis is a technique which can measure the temperature difference and temperature relationship between the sample and the reference material in the process control temperature. Differential thermal analysis curves can describe the relationship of the temperature difference  $\Delta T$  changes with the temperature or time between the sample and the reference material. During the DTA experiment, the sample temperature changes due to the endothermic or exothermic effect of the phase transition or reaction. Such as, phase transition, melting, crystalline structure transition, boiling, sublimation and evaporation, dehydrogenation, cleavage reaction or decomposition reaction, oxidation or reduction reaction, the destruction of lattice structure and the other chemical reaction.



1. The main control chip of the instrument adopts Cortex-M3 core ARM controller, which has faster operation speed and more accurate temperature control.
2. USB two-way communication makes the operation more convenient.
3. Adopt a 7 inch 24bit color LCD touch screen, the interface is more friendly.
4. Adopt Ni Cr alloy sensor, more resistant to high temperature, corrosion and oxidation.

## SPECIFICATIONS

|                           |                                                                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Model                     | BHJ1G1                                                                                                                           |
| Old Model                 | BANA-102                                                                                                                         |
| Temperature range         | Room temperature ~ 1500°C                                                                                                        |
| Measuring range           | 0 ~ ±2000 $\mu V$                                                                                                                |
| DTA precision             | ±0.1 $\mu V$                                                                                                                     |
| Heating rate              | 0.1 ~ 80°C/min                                                                                                                   |
| Temperature resolution    | 0.1°C                                                                                                                            |
| Temperature accuracy      | ±0.1°C                                                                                                                           |
| Temperature repeatability | ±0.1°C                                                                                                                           |
| Temperature control       | Temperature rise: program control (adjustable per parameter needs); Constant temperature: program control (time set arbitrarily) |
| Body structure            | Cover structure replaces traditional lifting furnace for high precision and easy operation                                       |
| Atmosphere control        | Automatic switching of internal programs                                                                                         |
| Data interface            | Standard USB connector, supports data transfer and software operation                                                            |
| Display                   | 24-bit color, 7-inch LCD touch screen display                                                                                    |
| Parameters of standard    | Equipped with reference substances and key calibration function (user adjustable temperature)                                    |
| Baseline adjustment       | Users can adjust baseline by changing slope and intercept                                                                        |
| Work power                | AC 220V 50Hz                                                                                                                     |
| Alt Name                  | Differential Thermal Analyzer                                                                                                    |



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