

# HTB Blackbodies

## High Temperature Blackbodies



Fig. 1. Photo of the HTB-35D-1200 blackbody

### BASIC INFORMATION:

The HTB Series blackbodies are high temperature, cavity blackbodies of temperature range up to 1200°C. The blackbodies are characterized by a relatively large aperture of 35 mm of the emitting cavity. Blackbody emitters are built using a concept of cavity of closed end cylinder. The blackbodies offer high emissivity in ultra wide spectral band from 0.4  $\mu\text{m}$  to over 30  $\mu\text{m}$ . This wide spectral band makes possible to use HTB blackbodies as standard radiation sources in both in range from visible band to LWIR band. The HTB blackbodies can be controlled directly from internal keyboard or remotely from PC using standard USB port.

### SPECIFICATIONS

|                         | HTB-35D-1000                              | HTB-35D-1200                           |
|-------------------------|---|--|
| Emitting aperture       | 35 mm                                     | 35 mm                                  |
| Temperature range       | 100-1050°C                                | 100-1200°C                             |
| Temperature resolution  | 0.1°C                                     | 0.1°C – for <1000°C<br>1°C for >1000°C |
| Temperature uncertainty | 0.25%+1°C                                 | 0.25%+1°C                              |
| Temperature* stability  | 0.5 °C (short-term)<br>0.8 °C (long term) | 1 °C (short-term)<br>1.5°C (long term) |
| Emissivity              | >0.995                                    | >0.995                                 |
| Warm up time            | <50 min                                   | <80 min                                |
| Computer control        | USB                                       | USB                                    |
| Power                   | 230V (110V option)                        | 230V (110V option)                     |
| Mass                    | 23 kg                                     | 23 kg                                  |

\*Measurement at 800°C

\*Modifications of these standard versions are possible. If the standard blackbodies listed above do not fit your needs, please [contact Inframet](#) with your requirements.

\*specifications are subject to change without prior notice

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