

CA-30D Professional-grade Thermal Analyzer

CA-30D thermal analyzer can analyze precision electronics and circuit failures, rationality of thermal design, and heating conditions of electronic devices;

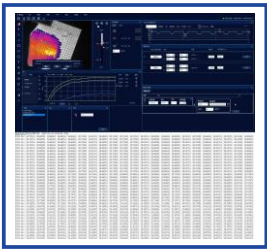
Analyze temperature changes such as temperature, thermal state, heat transfer, and thermal stability of thermally conductive and heat sink materials;

Analyze the cracking, thinning, unevenness and other related conditions of insulation materials;

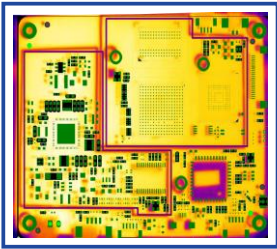
Analyze the relationship between current, voltage, resistance and temperature changes of materials such as ceramic cores, cooling or heating semiconductors

Features:

- Optional macro lens can detect 25um targets and assist in analyzing the performance and defects of materials;
- Powerful Professional-grade software connect to PC use via a USB cable
- The software provide thermal imaging video with temperature data and support offline analysis of temperature distribution;
- Record full temperature measurement data, including the max/minimum temperature and average temperature of points, lines, frames and other areas;
- Powerful graphic information function, can set emissivity by region, modify name, etc.;
- Stable stand and multi-angle adjustable frame to adapt to the user’s adjustment methods;
- Quick-change lens design ensures accurate temperature measurement;
- High-definition thermal images to display the condition of IC chip pins vividly
- Manual focus, convenient for precise focusing at near point
- Voltage, current, and temperature curves can be used to find related changes
- Multi-dimensional data analysis provides more detailed data reference
- Modular analysis data window allows data to be extracted as the user wishes
- Capable to connect and work with ambient temperature sensor, load power meter and other sensors simultaneously



Record full radiometric thermal video and offline analysis



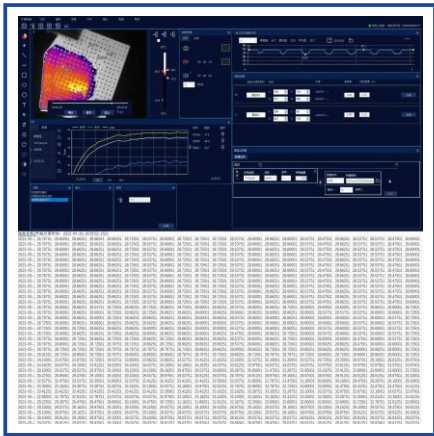
Super clear thermal image



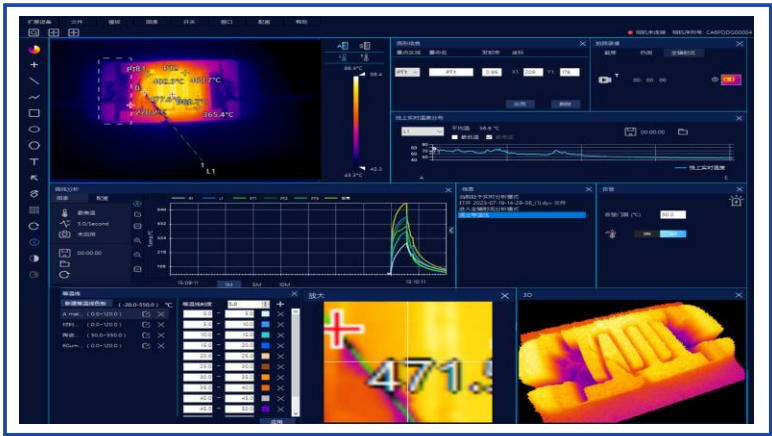
Fast lens switch

Parameter	Specification	Parameter	Specification
IR resolution	384×288	Wavelength	8~14um
NETD	<50mK@25℃	FOV	29.2° (H)× 21.7° (V)
IFOV	1.3mrad	Frame rate	25Hz
Focus	Manual	Measurement range	-20℃~550℃（-4℉~1022℉）
Accuracy	-20℃~120℃:±2℃or±2%; 120℃~550℃:±3℃or±3%; whichever is greater	Measurement mode	Max、Min、Average
Optimal measurement distance	40~2000mm	Temperature correction	Auto
Macro lens	50~80mm	Separate area emissivity	0.1~1.0 adjustable
Image file	Full radiometric-JPG	Video file	MP4
Full radiometric file	dyy(open by software)	Working temp	-10℃~+55℃
Software features	Curves, isotherms, real-time and offline video analysis, point, line and polygon temperature measurement, online multi-point temperature data, temperature alarm, three video recording mode, EXCEL data recording, dynamic and fixed range, 3D temperature field, Separate area emissivity, support power meter connection, macro lens replacement, full radiometric temperature video recording,		
External devices	USB type temperature sensor, USB type power meter（other power meter customizable）		

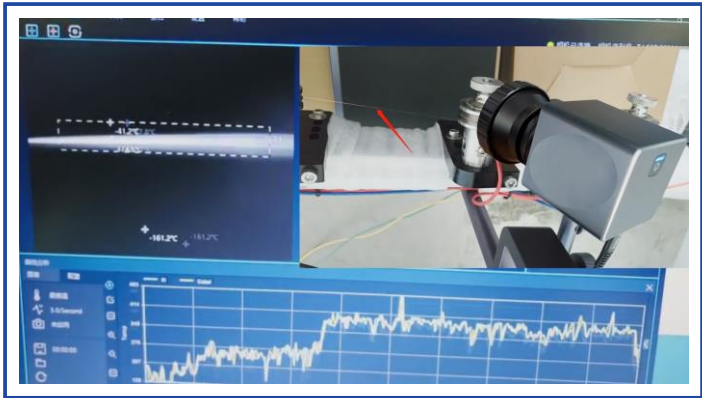
CA-30D/CA-60D Thermal Analyzer



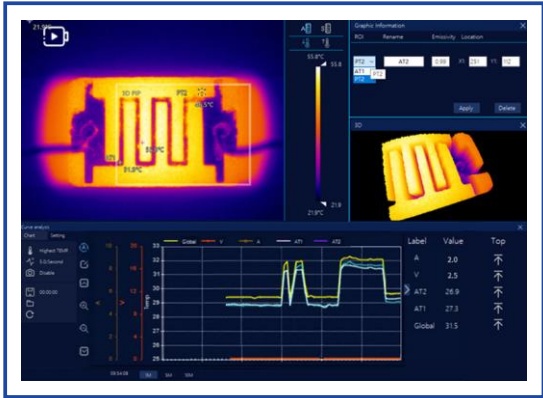
Record full radiometric thermal video and offline analysis



Full temperature sampling in 40ms per second Strong Professional-grade analysis software



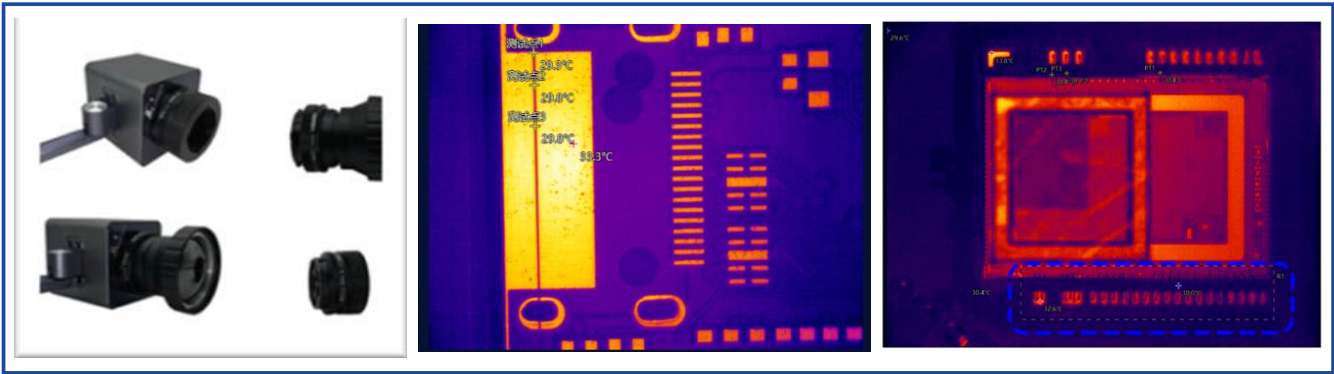
Study 25um small object under macro lens



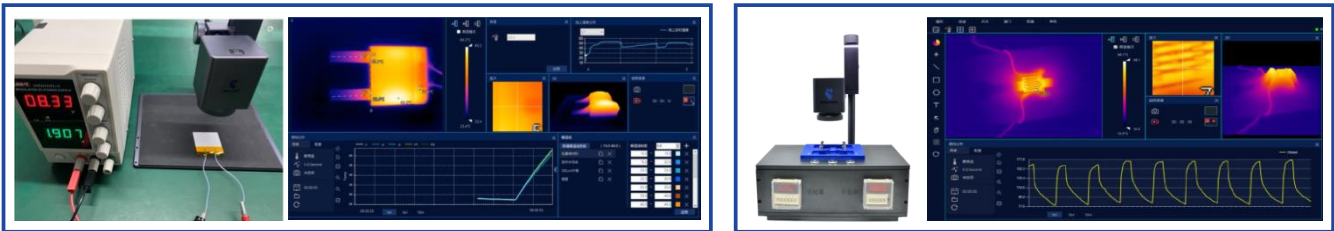
Multi-dimensional display of voltage, current and temperature



Study 50um fiber optic under macro lens



Study chip and electronic component's temperature change under macro lens



Real-time to inspect the relationship between current, voltage and temperature

Real-time to inspect the high speed heating capability of atomizer