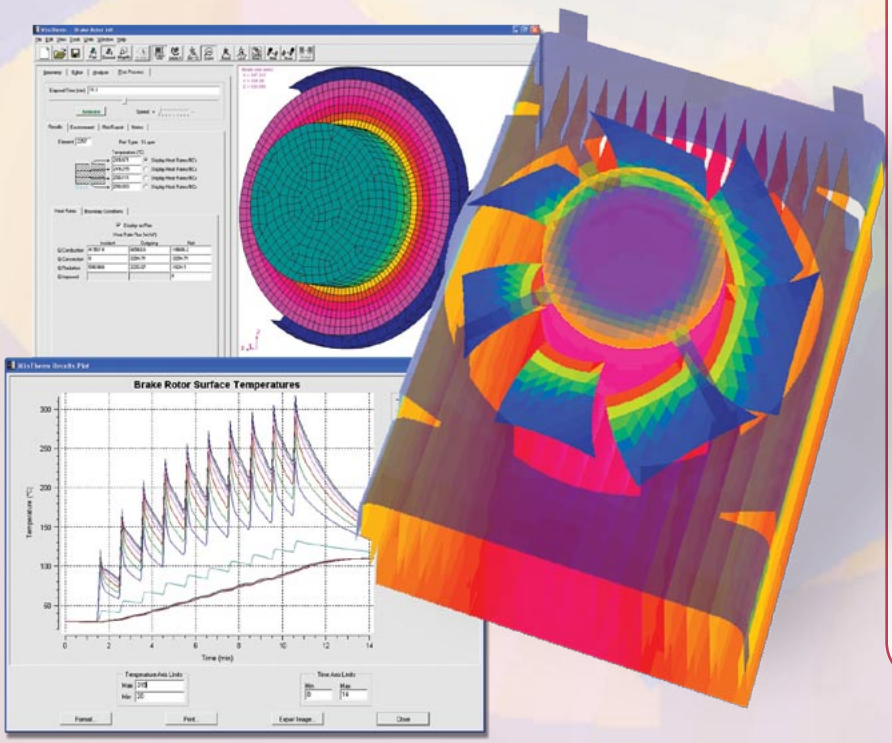
WinTherm® 7.1
Thermal Analysis Software

WinTherm is a component-level thermal modeling tool for Windows-based heat transfer analysis. WinTherm allows users from any engineering background (thermal or other) to simulate heat transfer quickly and accurately through the user interface. The intuitive arrangement of the user interface permits both novice and expert users to set up and analyze thermal systems with minimum user input and no programming.

WinTherm is divided into four distinct segments to guide the user through the solution procedure: Geometry, Editor, Analysis, and Post Processor. Several tutorials included with the software will familiarize the user with the simple but elegant modeling procedure. WinTherm begins by importing a surface mesh of the components, editing their dimensions, and defining materials and surface conditions. Appropriate boundary conditions are chosen and the modeling procedure is complete and ready to run. The user can perform full sweeps of their component level design much faster than with any other software. Improve your bottom line and your product's thermal performance with WinTherm.



Key Features

Complete Thermal Analysis

Multi-bounce Radiation
Conduction
Convection
1-D Advection
Natural Environments

High Speed/High Accuracy
Fast Model Setup
Easy Editing of Parameters

Engineer-Designed Graphical User Interface

Benefits

Faster Product Development
Reduced Reliance on Testing
Increased Productivity

"*Last year alone WinTherm saved our company thousands of dollars through reduced testing. Our designs are refined earlier in the development cycle, and we can share the thermal results with our customers using ViewTherm.*"
- Engineering Manager

Common Applications

Electronics and Enclosures
Heat Shield Analysis
HVAC Design
Passive Cooling / Heating
Brakes & Clutches
Lighting

ThermoAnalytics©, Inc.

WinTherm® 7.1
Thermal Analysis Software

Version 7.1 Features

Preprocessing

Local coordinate system for assemblies enables faster model setup, accurate manipulation and placement of components

Model Setup

Fluid Connections Window displays connections to surfaces and advection links

Component Model Files Import as assemblies with boundary conditions intact

Analysis

Thermal Links Connect any surface element to any other without geometry or view factor recalculation

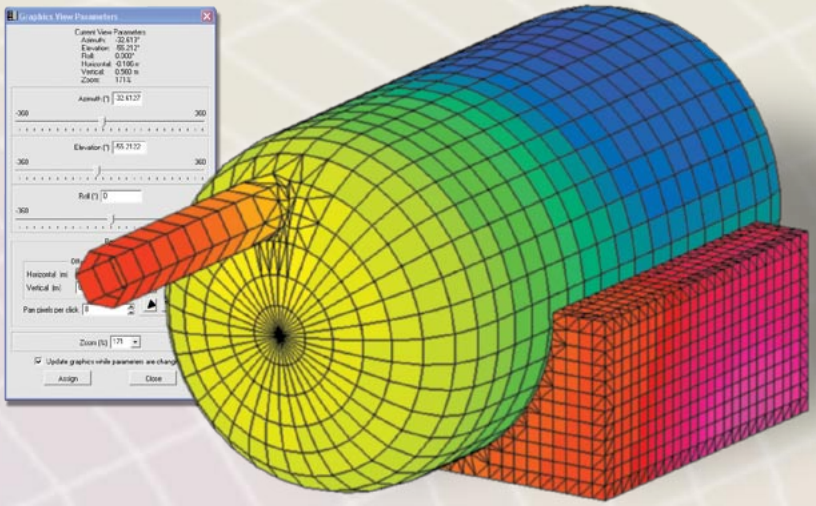
Print Max Temp Change to File option gives user feedback on which nodes converge slowly

Convergence Meter Now displays logarithmic plots of tolerance, tolerance slope and residual energy

Post-Processing

Graphics View Control Window allows accurate, repeatable setting of geometry graphics

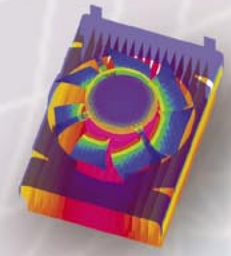
Color Scale can be displayed with an arbitrary number of temperature color bands

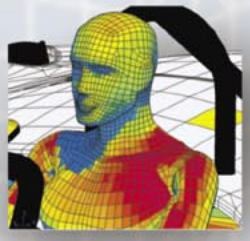


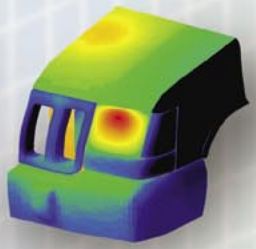
Deliver Solutions - to component-level heat management problems: WinTherm predicts the full temperature distribution of your product. From these results you can modify your design and test the thermal response to the change. For example, a heat shield design can be optimized by varying material, thickness, and proximity to the heat source.

Deliver Speed - WinTherm's state-of-the-art algorithms yield more results in less time. Streamlined model setup gives you more time to focus on optimization, customer needs and reducing time-to-market.

Deliver Flexibility - Import your surface geometry and change designs with ease; manipulate the geometry within WinTherm to improve your heat management. WinThem typically has a full return on investment after only one or two projects - based on product improvement, reduced testing, and shorter product development cycle.







ThermoAnalytics, Inc.
PO Box 66
23440 Airpark Blvd.
Calumet, MI 49913
USA

Phone (USA) 800.214.3766
Phone (Int'l) 906.482.9560
Fax 906.482.9755
info@thermoanalytics.com
www.ThermoAnalytics.com

ThermoAnalytics, Inc.