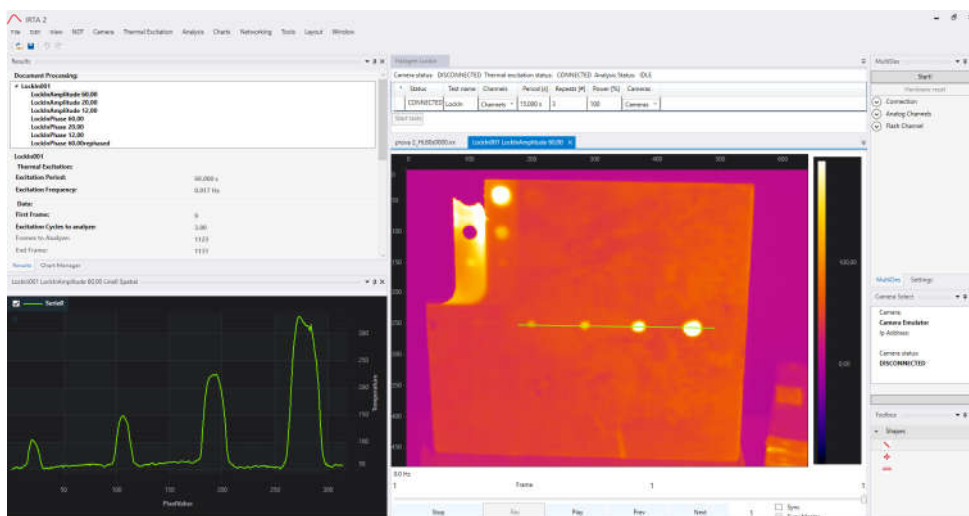


IRTA 2

Infrared Testing and Analysis









IRTA 2 is DES software for non-destructive testing, process monitoring and stress analysis, compatible with Teledyne FLIR SC-Series thermal imaging cameras. It features a user friendly graphical interface to ensure optimal user experience and fast image interrogation. It consists of different modules for the analysis of thermographic data obtained with different investigation techniques: Lock In, Transient, Derivative, Pulsed Phase Thermography (PPT) and Thermoelastic Stress Analysis (TSA) for stress analysis with thermo-elastic technique. It also includes a module for the rapid fatigue characterization of materials and allows to perform complex analyses, such as multifrequency and stress analysis, in a simple and intuitive way, in a single framework.



Lock-In analysis on sample specimen with defects at different depths.
IRTA 2 allows you to save all the test parameters in a single file.

IRTA 2

TECHINICAL SPECIFICATIONS	IRTA2
Lock-in analysis (signal reconstruction) up to N excitation frequencies simultaneously	
Thermoelastic analysis of TSA stresses	
Fast transient technical analysis with R2™ method	
Derivative technique for accurately detecting thermal response anomalies	
Pulsed Phase Thermography technique to evaluate the thermal response in all frequencies in a single test	
Direct import of acquired files from FLIR cameras; maximum compatibility with FLIR SC series cameras	
Visualization of thermographic sequences	
Application of several filters	
Management of different thermal excitation sources	
Open multiple sequences simultaneously within the same environment and play them back synchronously	
Connect and record several cameras simultaneously	
Display of sequences in different units of measurement	
Fast NDT mode: acquisition + excitation + analysis	
Save results in a single file and view analysis history	
ROI management: upload from file, save ROI in file	
MQTT communication	
Editable and customizable layout	



Teledyne FLIR SC-Series Infrared Thermal Camera