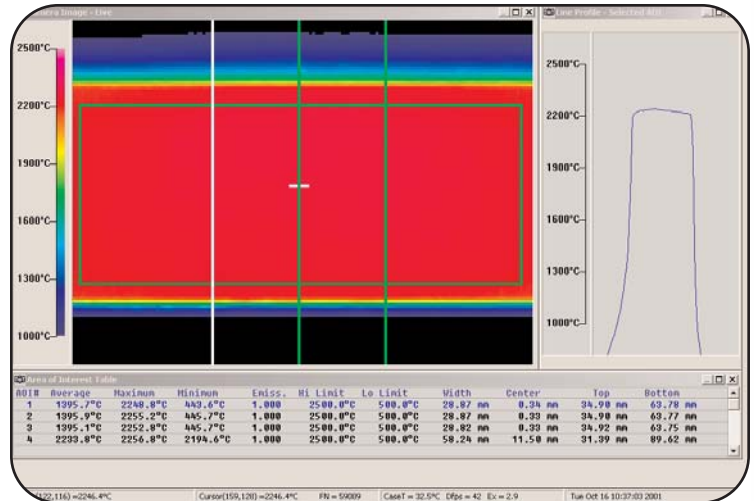


IRCON Preform Software

The Next Generation of Imaging Solutions

- Used for measuring temperature and diameter of Fiber Optic preforms
- Simple record and playback of your process at any time
- Control your Preform process with real - time temperature data.
- Provides real-time temperature data you can use!

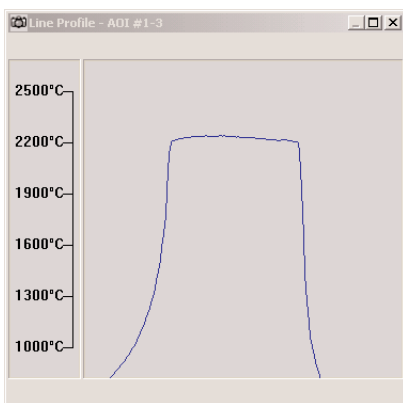


The IRCON Preform Software is the foundation of IRCON's Preform Inspection System. Preform Software is the first thermal imaging process control software on the market that lets you capture data at speeds up to **60 Frames Per Second**. Not only is temperature data available, but Preform Software lets you measure diameter down to 0.1 mm accuracy.

Designed to work specifically with the Stinger Thermal Imaging Camera, IRCON Preform Software lets you set up your AOI's,

analog output, and all other aspects of the system right from the Windows-based software.

If data trending and manipulation are intergral to your production system, Preform Software has built in functions to playback and review captured images. Each AOI can be independently adjusted during the playback to fine tune your data for changing emissivity and temperature variances. Captured data can easily be exported to other systems via TCP/IP or stored in files for use with a spreadsheet.

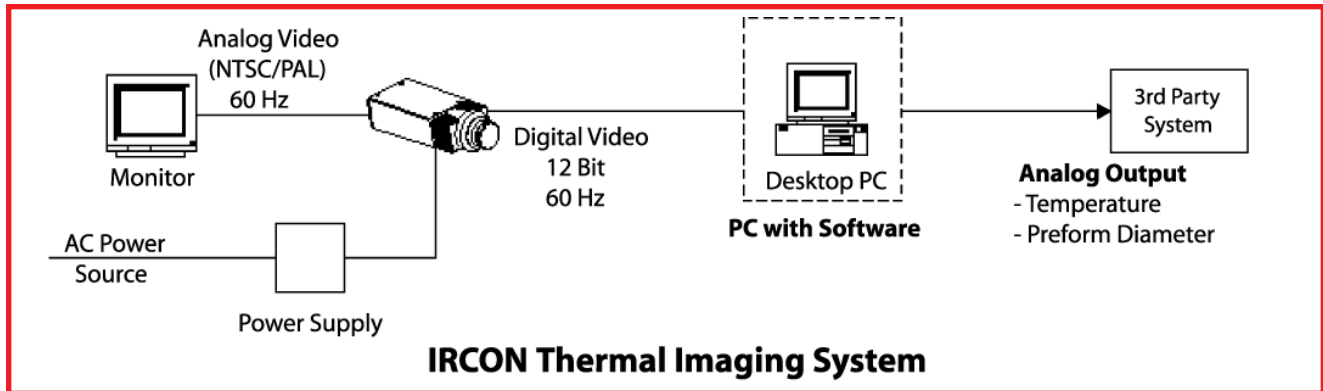


The Profile Screen lets you create a line on the Preform and display temperature on an X/Y Plot

IRCON Preform Software is the first true thermal imaging software for real-time control in Fiber Optic Preform applications. Features such as independent emissivity settings for each AOI and loss of signal detection help to assure you that the data you collect provides the true picture of your process!

The Areas of Interest Table lets you view actual temperature and dimensional data as it happens

AOI#	Average	Maximum	Minimum	Emiss.	Hi Limit	Lo Limit	Width	Center	Top	Bottom
1	1397.6°C	2248.8°C	445.7°C	1.000	2500.0°C	500.0°C	28.95 mm	0.35 mm	34.87 mm	63.83 mm
2	1399.2°C	2255.2°C	447.9°C	1.000	2500.0°C	500.0°C	28.95 mm	0.35 mm	34.88 mm	63.83 mm
3	1400.4°C	2252.8°C	451.1°C	1.000	2500.0°C	500.0°C	28.97 mm	0.33 mm	34.84 mm	63.81 mm
4	2233.6°C	2258.4°C	2193.8°C	1.000	2500.0°C	500.0°C	58.24 mm	11.50 mm	31.39 mm	89.62 mm



IRCON Thermal Imaging System

Features

Temperature and Dimensions

IRCON Preform Software provides measurement of temperature and preform diameter.

Data Trend Files

Store numeric data captured by the system in graphical or numeric format. Export to other spreadsheet and database programs via .csv files

Communications

Individual AOI data can be sent directly to 3rd party systems through TCP/IP.

Playback Controls

IRCON Preform Software provides simple VCR style controls to playback captured Image Sequences to view variances in temperature and end measurements.

Areas of Interest

Up to 10 independently configurable Areas Of Interest are available. Using the AOI drawing tool Allows for AOI's of nearly any shape or size.

Benefits

Two Instruments for the Price of One!

With both temperature and dimensional measurements in one system Ircon eliminates the need for a spot pyrometer AND a laser measuring device. Multiple AOI's allow you to record preform width and temperature at any point along the preform image. You save money, have fewer devices mounted on the lathe carriage, and consolidate all your data in one software package.

Off Line Analysis

Using Preform Software entire production batches can be saved for later analysis. Images can be replayed at different speeds to see the actual point when uneven heating and run out occur. This data can then be used for statistical process control to achieve maximum throughput.

Torch Setup

With the the Playback controls in the Preform Software Image sequence files can be stopped and viewed frame by frame to see how adjustments in torch

design and placement affect the heating characteristics of the preform. Finally you have a tool to fine tune your preform process for optimum control.

Precise Temperature Measurement

The Stinger Thermal Imaging Camera uses a 320 x 240 Focal Plane Array to capture image data. This means up to 76,800 individual points of temperature measurement are available for use. Specific AOI drawing tools let you scale your preform temperature measurement to cover a specific area on the surface of the preform. Never before have you had this precision in your temperature measurement.



Preform being heated by the torch

ISO 9001

Quality System
Certified



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