

INFRAMATION



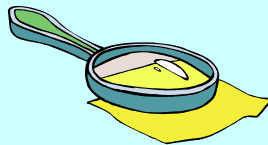
Volume 2, Issue 9
September, 2001

INFRAMATION 2001 - LAST CHANCE!

The InfraMation 2001 conference happens in only 3 short weeks.

The conference, which will be held September 30 - October 3, 2001 in Orlando, focuses on the development of effective Thermographic Inspection techniques and procedures in a wide variety of Industrial and Research settings.

Check out the conference [Agenda](#), [Abstracts](#), and the [Special](#) event we are hosting.



The InfraMation 2001 conference is sponsored by The Infrared Training Center and FLIR Systems and is held on an annual basis. Registration information can be obtained at www.inframation.org or call 1 800-254-0632 for more information.

Don't miss out on the chance to improve **your** thermography program, register today! ♦

Inside this issue:

Last Month's Brainteaser	2
ITC seeks Instructor	3
Honolulu Level I	4
Brainteaser of the Month	4
About the itc	5
Contact Information	5
Upcoming Classes	5

HOW TO EDIT TEMPLATES IN THERMACAM REPORTER 2000

By Jason Gagnon
Image Processing
Applications Support
Supervisor



Thermacam Reporter 2000 is a powerful and easy to use report generation tool produced by FLIR Systems. It will import images from any FLIR, Agema, or Inframetrics infrared camera and allows you to create an

inspection report in a matter of minutes. Reports created in Thermacam Reporter are based on pre-defined templates, which can be modified to meet your individual needs. The purpose of this article is to familiarize you with the ability to edit templates and cover some common changes you might want to make to your existing templates.

A **template file** defines the layout and content of the report. Thermacam Reporter contains several

sample templates, which can easily be modified to meet your specific needs. You can also create your own templates from scratch, however this is beyond the scope of this article. We are focusing on making specific changes to existing templates. If you find that you are changing things like your logo, temperature units, and font size for every report, you should consider modifying the template to incorporate these changes. This will save

(Continued on page 2)

"Great Job! InfraMation 2000 helped me stay current with the thermography industry."

"The exchange of quality information made InfraMation 2000 a huge success."

SECOND 2001 ANNUAL INFRAMATION THE THERMOGRAPHERS CONFERENCE

A two and a half Day Conference featuring 32 papers on

Wyndham Orlando Resort

September 30 - October 3, 2001

www.inframation.org

1 (800) 254 0632



Call today for more information!

THERMACAM REPORTER 2000 TEMPLATES

(Continued from page 1)

you from having to change them in every report.

Open an existing template:

Start Thermacam Reporter. Click **Cancel** when you see the Wizard screen, then select **File** → **Open**. All of the report templates are stored in the C:\Program Files\Thermacam Reporter 2000 Pro\Template folder.

Step 1: The first thing you should do is change the **Look In** location so it says **Template**. Click the pull-down list next to **Look In** and select **Thermacam Reporter 2000 Pro**.

Step 2: Now double-click on the **Template** folder and the **Look In** path should change to **Template** (so it will show you files in the Template folder).

Step 3: Next, you have to change the file type so it will display template files instead of reports. Pull

down the list box next to **Files of type** and select **Template Files (*.ret)**.

Now you should see a list of template files to choose from. Double-click on the template you want to modify and it will open in Reporter. As an example, we will work with the **Quick.ret** template.

Overview of the Quick template

Now that the template is open in Reporter you should notice that it looks very similar to the final report. The difference is that the template does not contain any infrared images. It contains generic data and image placeholders that will be filled in when you create the report. The first page you see is the **Front** page, which contains the title, the date of the report, and a short description. You can scroll to the next page or to a previous page by using the arrow buttons

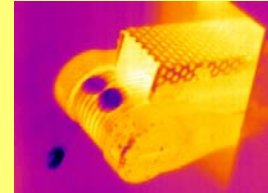


on the toolbar. Click the **Right** arrow button to go to the next page. This page, the first item

page, is titled **IR** and is formatted for a single IR image with no photos. Click the **Right** arrow again to go to the next page, titled **IR and photo**. This is formatted to create a report with an IR image and a photo from a digital camera or from the PM-695's built-in video camera. Click the **Right** arrow again to go to the third item page, titled **IR and two photos**. This is formatted for a single IR image and two digital photos. Having three item pages in a template allows you to select the layout you want to use during the Wizard and gives you more flexibility with respect to the final appearance of the report. Click the **Right** arrow once more to get to the final page in the template, called the

LAST MONTHS'S BRAINTEASER

We had a lot of interesting theories on this one, from hamburgers at McDonalds to a cigarette lighter! But Allan Dupras of GM Canada takes the prize with his correct guess of freshly minted coins coming off a conveyor belt. Great job Allan! ♦



Summary page. This page contains a **summary table**, which will automatically create a row of information for each image imported into the report. For example: if you create a report with 5 infrared images, the **summary table** will contain 5 rows of data, each with specific information about each particular image.

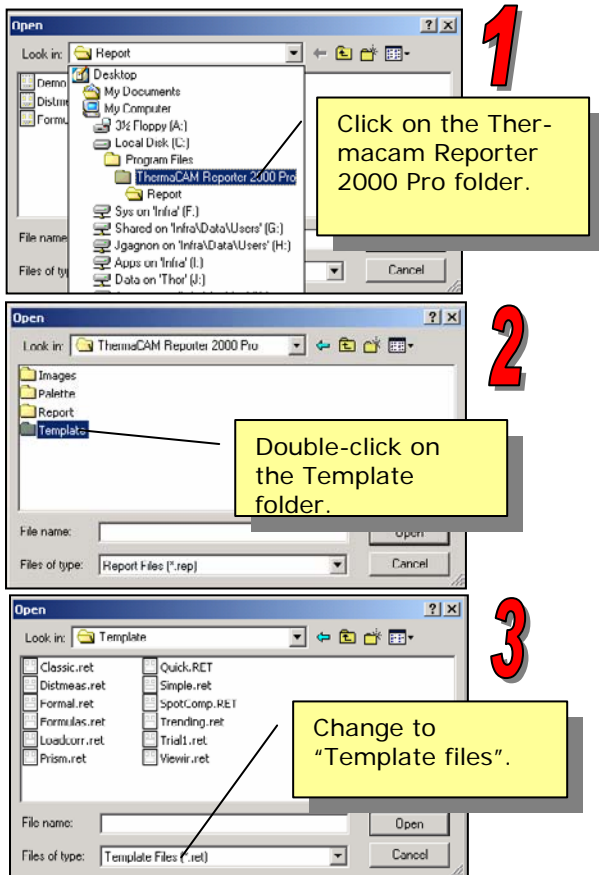
Editing the Quick template

Now that we have a basic understanding of the layout of the template, lets make some modifications:

Units: It is common for the temperature units and distance units to be set to Celsius and Meters in the sample templates, but this can be easily changed. Select **Settings** → **Units** from the pull-down menus. Change your Distance to **Feet** and your Temperature to **Fahrenheit**, and then click **OK**. Now when you create your reports they will automatically be set to Fahrenheit and Feet, saving you the trouble of having to change this in every report.

Paper size: The sample templates are normally set to A4 paper size, which can cause difficulties if your printer is expecting a document

(Continued on page 3)

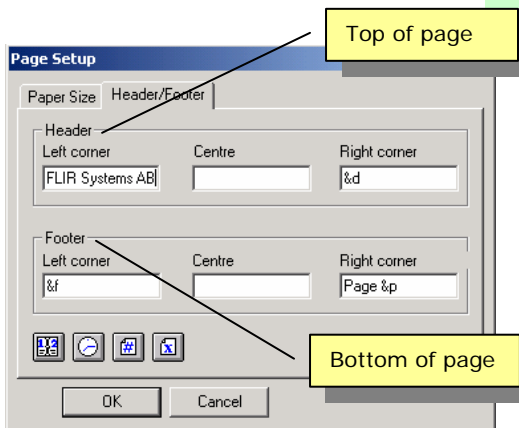


THERMACAM REPORTER

(Continued from page 2)

formatted for letter size (8.5" x 11") paper. To change the paper size, click on **File** → **Page Setup**. Pull down the **Paper size** list box and select **Letter 8 ½ x 11 in.** Now click **OK** to return to the report. Keep in mind that changing the paper size usually requires some minor adjustments to the layout of the pages in the template.

Header and footer: You have probably noticed the gray text at the top and bottom of the template pages displaying the date, filename, and page number. The area at the top of the page is the header and the area at the bottom of the page is the footer. To change these, select **File** → **Page Setup** from the pull-down menus. Click on the **Header/Footer** tab to display the current settings. The upper left corner of the header displays FLIR Systems AB in the template, but you may want to change this to display your company name. Simply type the new text into the **Left corner** box of the **Header** section to make the change. You can remove any of the headers or footers by clicking in the header/footer fields and deleting the text. The buttons at the bottom of the Header/Footer window allow you to insert specific data into any of the selected fields.  inserts the date,  inserts the time,  inserts the page number, and  inserts the file name.



(Continued on page 4)

ITC SEEKS INFRARED IMAGING APPLICATIONS INSTRUCTOR

We are looking for a creative, intelligent, high-energy individual who is excited about communicating the benefits and power of Infrared technology and applications to new and existing users of Infrared Imaging and Measurement Systems.

As seen on numerous television programs including Nova, The Discovery Zone, Science and Technology, 20/20, COPS and the Today Show, Infrared Imaging technology is becoming pervasive around us. FLIR Systems is the world leader in this exciting new technology. With more than 850 employees and corporate centers in Portland Oregon, Boston and Stockholm, FLIR Systems is the product of the merger of the three largest manufacturers of commercial and military infrared systems. Today, FLIR Systems dominates this market with the largest market share, distribution organization and research and development efforts in the field.

One of the major elements of FLIR's continued success is the Infrared Training Center (itc). Operating as a separate business unit within FLIR's Boston facility, the itc leads the industry by providing comprehensive operator and applications training and certification services to the IR community. Our instructors are recognized as leaders in their field.

The itc primarily supports the use of FLIR's "Thermography" IR Cameras, which are used to locate and image "hot spots" and other thermal anomalies in industrial equipment; electrical generation, transmission and distribution systems; research and development projects and so on. The largest application for the equipment is in the area of predictive maintenance, where anomalous heating often indicates imminent failure or significant problems. Other applications include thermal design engineering, process control and non-destructive testing. The itc provides training and certification for all these applications. Our courseware consists of courses taught at our headquarters in our multimedia classroom, customer site courses, worldwide regional courses and computer based training courses.

Today, the itc is growing rapidly along with FLIR's ongoing camera sales. We are looking for creative, talented individuals who are interested in maximizing our customers' effectiveness with these powerful tools by educating and certifying them. Currently we have an opening for a Thermography Course Instructor. This position will primarily deliver our "Customer-site" and North American regional training products, and thus will involve fairly significant travel. The customer group is primarily made up of fortune 1000 companies within North America.

Our training materials are modern and highly refined, utilizing multimedia presentation equipment and a high degree of interactivity. Infrared cameras are highly visual and fun to use, so students are typically very excited about the course curricula.

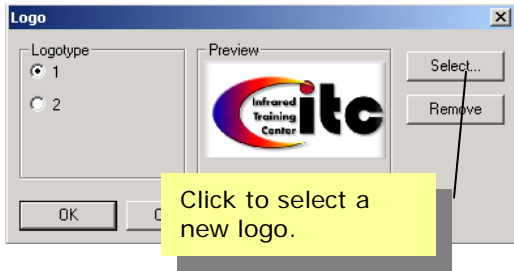
To qualify for this job, you need to have a demonstrated history of being an effective educator and communicator dealing with technical materials (2 years minimum). You need to be able to work effectively in a self-managed environment, incorporating the elements of working frequently at the customer's facility. You should have a strong technical aptitude with a BS degree in a technical or education related field being preferred. The ability to travel 50-70% of the time throughout North America and a desire to work closely with America's leading technology companies is a must. A working knowledge of MS Office products and multimedia training tools is also required. Thermography experience a definite plus.


Want to see the world in a different light? Send us your [resume](#) and check out www.flir.com and www.inframation.org for more details about thermography. ♦

THERMACAM REPORTER

(Continued from page 3)

Logo: The sample templates contain the FLIR Systems logo, so chances are that you are replacing this with your own company logo every time you generate a report. You can, however, change this default logo in the template. Select **Settings** → **Logo** from the pull-down menus. Click the **Select** button to bring up the Open window. Go to the drive and folder where your logo file is located and double-click on the file to select it. Note: You can use the **View Thumbnails** option to see a preview of the logo images. When you double-click on



the logo file it will close the Open window and return you to the Logo window, where it displays a preview of the logo you selected. Click **OK** to accept this change and return to the template. Notice that the logo has changed on every page where the FLIR logo used to be. You can add additional logos to your template or report by clicking the logo button  on the Drawing toolbar and then clicking on the page to place the logo.

Saving the template: We have made several changes to the template, so now it is time to save it. Note: Reporter does not have an auto-save feature like Word, so save frequently! Select **File** → **Save As** from the pull-down menus. This will bring up a **Save** window with the name of the file already in the file name box. I am going to rename the file to **Quick1.ret** so I do not replace the existing template. I recommend doing this when modifying templates in case you need to go back to the original for any reason. Click **Save** once you type in the

new file name and it will permanently save the new template.

Setting the 'Quick' (default) template: Reporter has the ability to set a default template that it will automatically use unless you manually choose a different one. This is also the template used when you 'drag and drop' images into Reporter. To set the default template, click on **Settings** → **Quick Template** from the pull-down menus. In this case I want to set my default template to the new template I just saved (Quick1.ret). Find Quick1 on the list, click on it, and then click **OK**. Now the next time you create a report it will use the Quick1.ret template unless you manually select a different one.

We have only touched on some of the things you can change in your template. You can also set a default font size and style, change text and table contents, change your default color palette, the list goes on. The purpose of this article is to familiarize you with the ability to edit and customize templates. As a rule, if you find that you are changing the same thing over and over again in your reports, see if you can make the change in the template instead. In the end it will reduce the amount of time spent on each individual report. ♦

Editor's Note: Jason will be conducting several IR Clinic sessions on how to get the most out of your thermal imaging software during the InfraMation Conference. See our website at www.inframation.org/schedule.htm for more information and times.

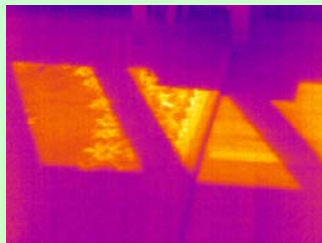
NEW REGIONAL COURSE ADDED - HONOLULU!



The ITC will be conducting a Level I Infrared Thermography Course at Hickam Air Force Base in Honolulu from 22-25 October, 2001. This course covers Camera Operation, IR theory, Heat Transfer and Software. This course satisfies the educational requirements for ITC Level I Infrared Thermography. Students are encouraged to bring their cameras, experience and enthusiasm to class. Registration is limited and filling quickly so don't delay! Aloha! ♦



BRAINTEASER OF THE MONTH



Here is this month's brainteaser. First reader to email me with the correct explanation wins \$20 in Infrabucks. Please put "Brainteaser" as the subject of the message.

Gary.Orlove@infraredtraining.com ♦

itc U.S.A., BOSTON

16 Esquire Road
N. Billerica, MA 01862, USA

Tel: +1-978-901-8405
Toll free: +1-866-TRAINIR
(866-872-4647)
Fax: +1.978.901-8832
E-mail: info_us@infraredtraining.com

itc INTERNATIONAL, SWEDEN

Rinkebyvägen 19
SE-182 11 Danderyd, Sweden

Tel: +46 (0) 8 753 25 00
Fax: +46 (0) 8 753 26 01
E-mail: itc@flir.se

About the Infrared Training Center

The Infrared Training Center offers training and certification in all aspects of infrared thermography. Our world-class training facilities are located near Boston, Massachusetts, USA and Stockholm, Sweden and have the world's most extensive hands on laboratories for infrared applications. Please join us in exploring the fascinating world of infrared!

*"Hands On" Thermography Training,
Certification, and Support*



Your comments and suggestions about this newsletter are welcomed and encouraged. If you have an interesting application or case study to share, we encourage you to submit it for publication.

Please e-mail Gary.Orlove@infraredtraining.com or regular mail to the USA office

itc INFRAMATION - Editor / Designer: Gary Orlove

Upcoming Classes - USA

Remember that we also teach customer site training courses at your convenience. Please contact us for more information.

September

- 10-14 -- Level II - Boston
- 17-20 -- Level II - Vancouver
- 17-21 -- Level I - Boston
- 18-21 -- Level I - Denver
- 24-25 -- Software (Reporter) Calgary, Canada
- 30-Oct. 3 - InfraMation 2001 Conference - Orlando

October

- 15-19 -- Level I - Boston
- 16-19 -- R&D (postponed to 2002) - Albuquerque
- 22-25 -- Level I - Honolulu
- 22-26 -- Level I - Boston
- 30-Nov. 2 -- Level II - Nashville
- 30-Nov. 1 -- Refresher - Boston

November

- 5-8 -- Level I - Atlanta
- 12-16 -- Level I - Boston

December

- 3-7 -- Level I - Boston
- 10-13 -- Level III - Boston

Upcoming Classes - Sweden**September**

- 17-20 (W38) -- Level I - Malaysia
- 24-27 (W39) -- Level I - Philippines

October

- 8-12 (W41) -- Level I
- 15-19 (W42) - Level II CM
- 22-26 (W43) -- Level I - Italy
- 22-26 (W43) -- Level I - Australia

November

- 1-2 (W44) -- Adv. Software
- 5-9 (W45) -- Level I
- 12-16 (W46) -- Level I - UA Emirates
- 19-23 (W47) -- Level I
- 19-23 (W47) -- Level I - Singapore
- 26-30 (W48) -- Level I - Malaysia

December

- 10-14 (W50) -- Level I

Upcoming Classes - Germany**September**

- 11-14 (W37) -- Application Seminar
- 17-22 (38) -- Level I
- 24-29 (W39) -- Level II CM

October

- 9-11 (W41) -- Level II R&D
- 18-20+25-27 (W42+43) -- Level II CM
- 29-Nov3 (W44) - Level I

November

- 13-16 (W46) -- Application Seminar
- 19-24 (W47) -- Level I

December

Infrared Camera Rentals

Rent an infrared camera from **FLIR Systems** to locate electrical and mechanical problems, schedule repairs, and avoid costly plant shutdowns. Whether you have a temporary testing/inspection requirement or need to evaluate an IR camera before purchasing, renting from **FLIR** can help you solve problems.

- Rent direct from the world leading IR camera manufacturer
- Low rates and quick delivery
- Build credit toward purchase
- Wide selection of camera

For more information call us toll free at **1 (866) IR RENTS**

FLIR SYSTEMS

SUBMIT A STORY— EARN INFRABUCKS!

Any reader who submits a story we publish will receive \$100 in InfraBucks. You can spend InfraBucks on accessories like hats, mugs, beanie babies, jackets, and shirts. You can find a complete selection of items at our on line store. Just click on www.flir.com/store/index.htm. ♦