KODAK
APPROVAL Interface
Toolkit / XP
Version 2.1

User's Manual
P\N 2J1740

Table of Contents

About This Manual

This User's Manual provides the information you need to configure, operate, and troubleshoot the *KODAK APPROVAL* Interface Toolkit/ XP (AIT). AIT can be installed on the following:

- *KODAK APPROVAL* XP/XP4 Digital Color Proofing System host computer
- PC dedicated to AIT only

Installing AIT on the *KODAK APPROVAL* XP/XP4 host provides full proofing parameter capabilities; however, the full resources of a dedicated PC are required to provide Rotation and Tiling functionality.

This manual is intended to be read and used by people performing two types of tasks:

- **System administration**—main tasks are installation and configuration. This person should have a thorough knowledge of the WINDOWS NT operating system and should have experience setting up PCs. This individual should also be knowledgeable in computer systems networking, including Ethernet, networking compatibility, and data communications.
- **Operations**—uses the AIT application to make proofs. The operator should be familiar with PCs as well as with proofing operations on *KODAK APPROVAL* XP/XP4 devices.

1 AIT Overview

This chapter provides an overview of the *KODAK APPROVAL* Interface Toolkit/XP (AIT) functionality, communication, and configuration.

AIT provides a connection between a Raster Image Processor (sometimes referred to as RIP, or a Digital Front End or DFE) and all *KODAK APPROVAL* XP/XP4 Digital Color Proofing devices (*APPROVAL* XP/XP4 devices).

AIT is a hardware and software solution that accepts screened bitmap files from a RIP, and then converts the bitmap files to the output format required by *APPROVAL* XP/XP4 devices. AIT hardware consists of a dongle that acts as a Hardware Against Software Piracy (HASP) that is required for enabling AIT software.

AIT Functions

AIT converts rasterized images in TIFF or DCS2 format for output to a *APPROVAL* XP or XP4 device in an Open Front End (OFE) format.

In addition to its file conversion capabilities, the AIT interface also allows you to:

- Define and process recipe colors
- View and zoom TIFF files in Viewer Mode
- Tile image files to make proofs even when the size of the image is larger than the proofing device's maximum capability (dedicated PC only)

Inputs and Outputs

AIT Inputs—accepts screened bitmap files in TIFF, TIFF/ini, and DCS2 formats:

AIT output—sends 2400 or 2540 dpi output to *APPROVAL* XP/XP4 devices via the OFE interface.

RIP/AIT Communication

When the RIP finishes with an image file, the file is sent to the AIT input folder (the RIP output folder). The AIT hot folder mechanism then picks up the file and acts upon it. Files can also be acquired manually from the RIP in the Manual mode. AIT converts the file and sends it to the *APPROVAL* XP/XP4 device using OFE protocol.

The RIP provides AIT with one of the following:

- TIFF file and proofing parameters in the structure of an .ini file
- TIFF or DCS2 file without proofing parameters

In cases where no .ini file is supplied by the RIP, proofing parameters are provided in an operator-generated template .txt file.

The proofing parameters included in a template .txt file, and a RIP-created .ini file are similar and contain the following information:

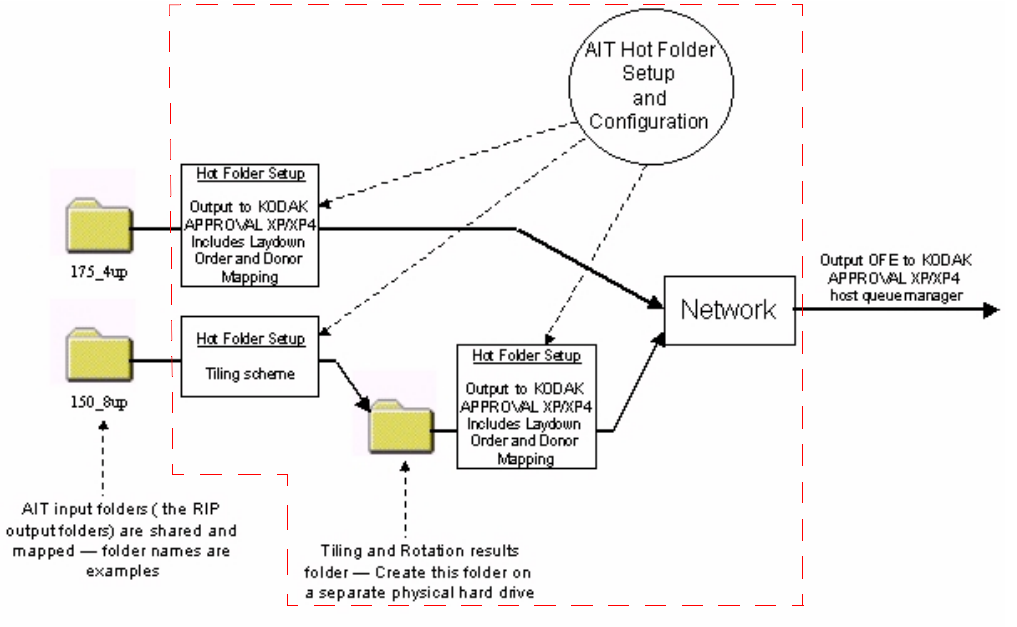
- Path to individual separation (CMYK, recipe, or special colors)
- Screen ruling
- Angles
- Lay down order
- Donor mapping
- File height and width

NOTE: Path information does not appear when viewing parameters in Show Export Setup.

Modified .ini files contain the number of separations and the separation file names. A template must be created and applied to provide the remaining parameters. Examples of these files are contained in “Appendix B Proofing Parameter Files” on page 113.

Some workflows allow you to have multiple RIP output/AIT input folders with multiple hot folders so you can specify different proofing

parameters. This illustration shows how hot folders are used to apply proofing parameters to image files contained in the AIT input folders.



APPROVAL Digital Color Proofing Devices

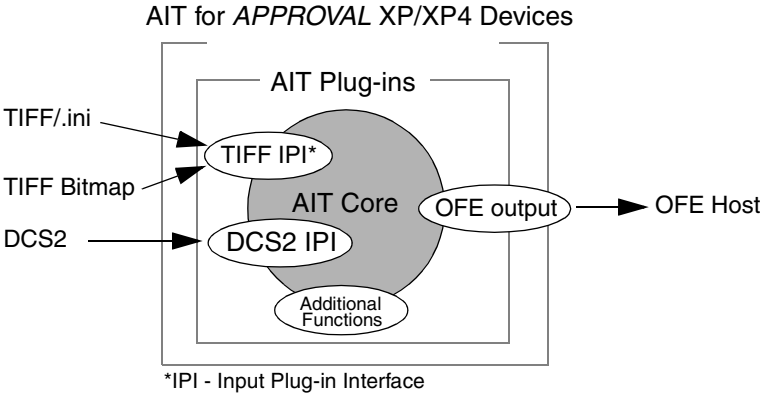
AIT provides output to the following *APPROVAL* XP/XP4 devices.

KODAK APPROVAL Digital Color Proofing Devices

Proofing Device	Resolution (dpi)		Proof Size (mm)	Page Layout
APPROVAL XP	2400	2540	338 x 529.92	2-Page
APPROVAL XP4	2400	2540	676 x 529.92	4-Page

AIT Configuration Diagrams

AIT installed on the host or a dedicated PC is configured for output only to *APPROVAL* XP/XP4 devices via a network.



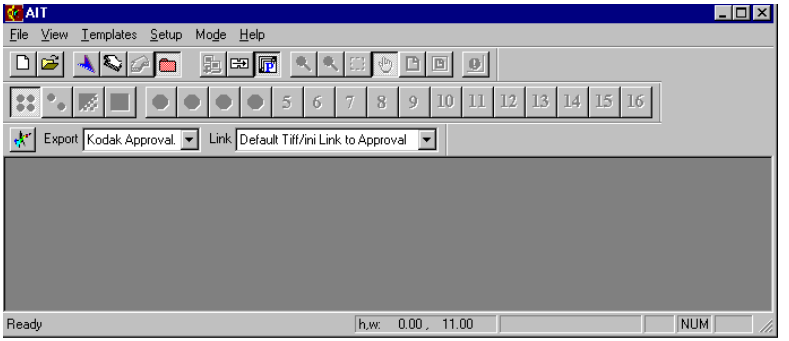
2 Configuring AIT

This chapter provides instructions for configuring the *KODAK APPROVAL* Interface Toolkit / XP (AIT):

- Establishing OFE socket communications between AIT and a *KODAK APPROVAL* XP/XP4 Digital Color Proofing device (*APPROVAL* XP/XP4)
- Creating hot folders that enable the automatic transfer of files from the RIP output folder (also acts as the AIT input folder) to an *APPROVAL* XP/XP4 device
- Creating template .txt files to define proofing parameters for DCS2 files and TIFF files with modified .ini

Start AIT by double-clicking the desktop icon. 

The main AIT screen appears. Begin your configuration procedures from this screen.



How Do I Configure AIT for My System?

AIT configuration procedures required for your system depend upon the format of the files received from the RIP. The *APPROVAL* XP/XP4 device accepts three file formats:

- TIFF/.ini
- TIFF
- DCS2

The following table illustrates the configuration steps required for each file format received by AIT.

File Type	Device Setup	Create Hot Folders	Create Template
TIFF/ini	Yes	Yes	Conditional
DCS2	Yes	Yes	Yes
TIFF	Yes	No	No

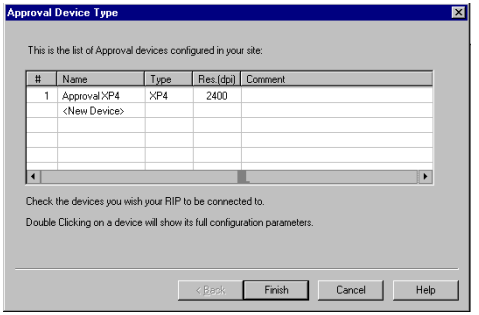
NOTE: In some cases, the .ini file received from a RIP requires additional proofing parameters.

Defining the Device Setup

Define the device setup to establish the connection between the AIT and the *APPROVAL* XP/XP4 device. Use the Device Setup Wizard to establish OFE socket communication with the *APPROVAL* XP/XP4 host.

1. On the AIT window, click the Device Setup Wizard icon.

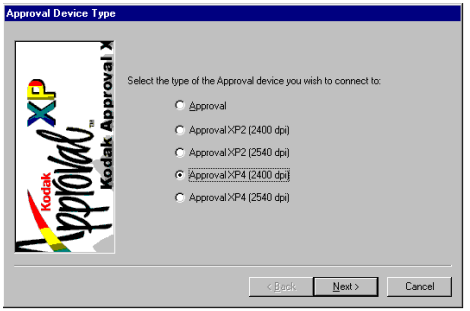
   The *APPROVAL* Device Type window appears with a list of the proofing devices configured for your site.



2. Double-click **New Device**.

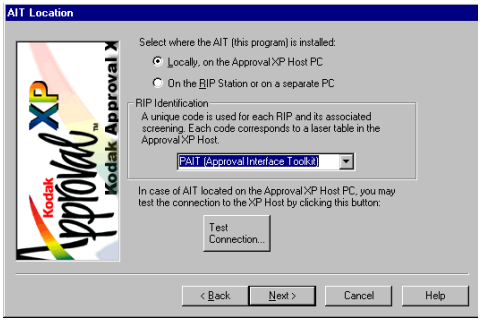
   Important: If you are installing software on the AIT host, the device information will appear in the APPROVAL Device Type window. Double-click on this information not New Device.

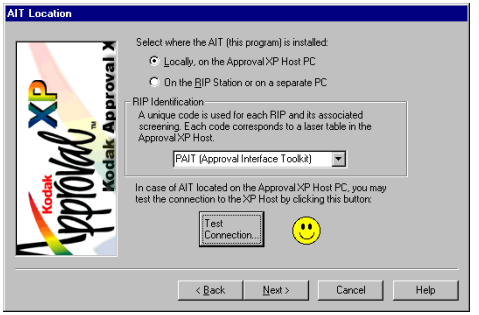
   The next *APPROVAL* Device Type window appears.



3. Select the device to which you wish to connect.
4. Click **Next**.

   The AIT Location window appears.





5. Select the location of the AIT installation. Either:
   - **Locally, on the *APPROVAL* XP Host PC**
   - **On the RIP Station or on a separate PC**
6. From the drop-down list, select a RIP identifier that corresponds to the RIP you will connect to.

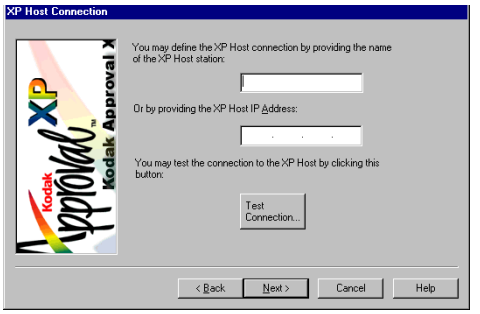
   If you are installing on a RIP PC or separate PC, go to Step 9.
7. If you are installing locally on the host PC, click **Test Connection**.

   A yellow smiley face indicates the connection was made. If the connection was not made, the host software may not be running.

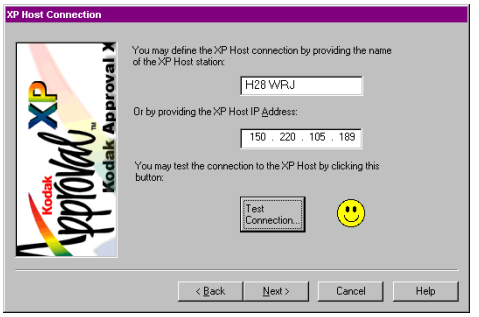
   TIP: It is recommended that you test the connection each time you set up a new device.
8. Click **Next**.

   The XP Host Connection window appears.

   If you are installing on the host, the Final Parameters window appears. Go to Step 12



9. Enter the name of the XP host and its IP address.

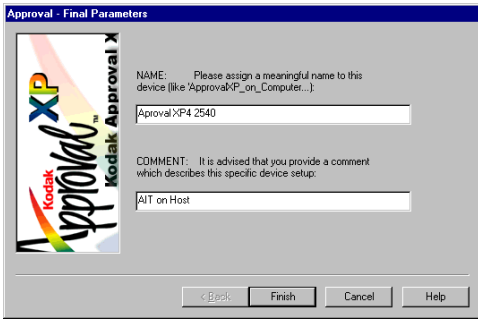


10. Click **Test Connection.**

    A yellow smiley face indicates the connection was made. If the connection was not made, the host software may not be running.

11. Click **Next**.

    The Final Parameters window appears.

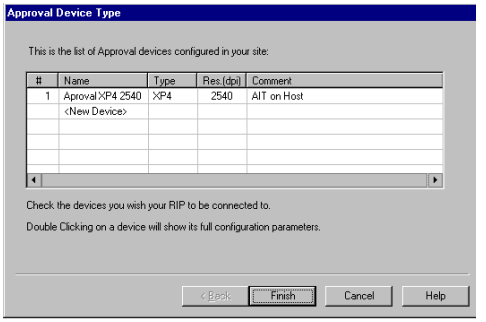


12. Enter a name for the device and any optional comments.

    NOTE: This is the device name that is listed in the *APPROVAL* Device Type window.

13. Click **Finish**.

    The *APPROVAL* XP/XP4 device appears in the list of devices configured for your site.



14. Do one of the following:

    - Double-click on a device to verify the settings.
    - Click **New Device** to set up another device. Return to Step 3.

15. Click **Finish** to complete the setup.

    You have established the connection between the AIT and an *APPROVAL* XP/XP4 device.

Setting Up Hot Folders

Hot folders allow the automatic transfer of TIFF/.ini, TIFF, and DCS2 files from the RIP to your *APPROVAL* XP/XP4 device. The hot folder setup defines proofing parameters that are applied to an image file when it is received in the AIT input folder. Hot folders provide the following proofing parameters:

- Job destination
- Donor laydown order
- Donor mapping
- File trigger mechanism

Before You Begin

Have the name and location of the RIP output folder available. If you have not created an output folder for your RIP, do so now. This folder becomes your AIT input folder.

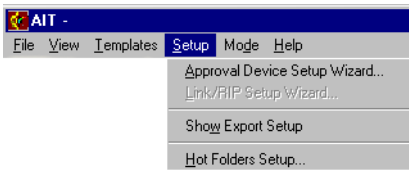
In addition, if the RIP output provides TIFF with modified .ini file, TIFF, or DCS2 files, the AIT input folder must also include a template .txt file.

A full-size uncompressed file for an *APPROVAL* XP4 device may require up to 1.8 GB of space. Make sure that you have enough disk space to accommodate the files you've successfully proofed, and that you wisely define the time to hold them.

Only one file type can be handled by the hot folder.

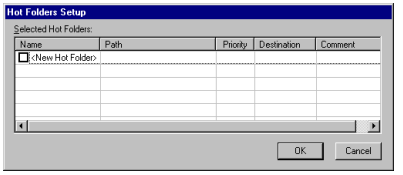
Predefine your laydown order and donor mapping template. For the steps to do so, see "Using Donor Colors" on page 52.

Hot Folder Setup



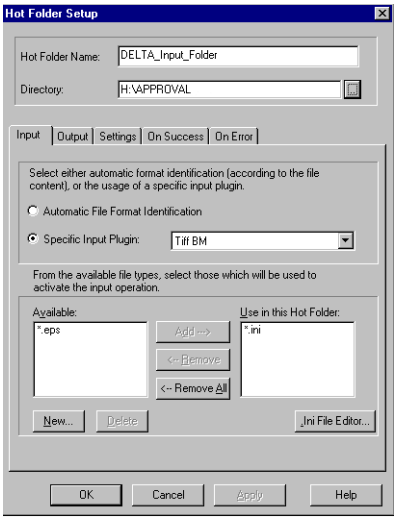
1. From the Setup menu, select **Hot Folders Setup**.

   The HotFolders Setup window appears.



2. Double-click **New Hot Folder.**

   The Hot Folder Setup window appears.



3. Type the name of your new hot folder in the Hot Folder Name text box.

   TIP: To help organize your workflow, the hot folder name can be based on the AIT input folder name.

4. Select the location (pathname) of the RIP output folder in the Directory text box.

   If you do not have an output folder for the RIP, create it now before continuing this hot folder setup.

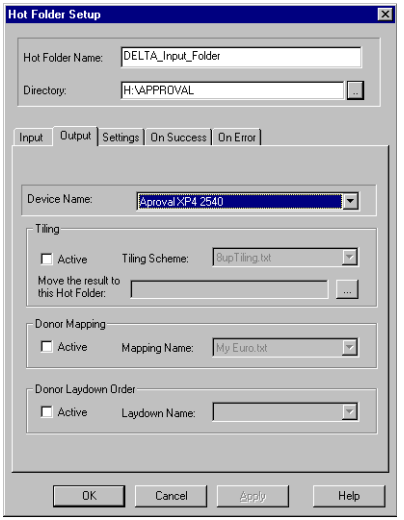
5. Select the Input tab.

6. Select **Tiff BM** or **DCS2** from the Specific Input Plugin drop-down list. This is your RIP file type.

7. Use **Add** and **Remove** to select the appropriate file extension to display in the Use in this Hot Folder text box.

   - TIFF/ini files, choose ***.ini**
   - DCS2 files, choose ***.eps**

   IMPORTANT: Do not click OK at this point or you will have to start over.

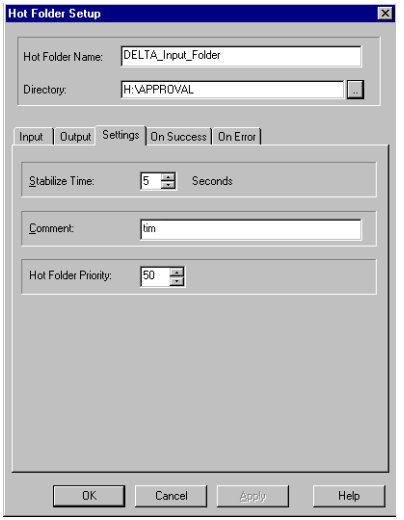


8. Select the Output tab.
9. Select the Device Name from the drop-down list.

   This is the device name that was assigned during the Device Setup (see “Defining the Device Setup” on page 17) and it is the device to which you are directing this hot folder.
10. If desired, activate and select your Donor Mapping and Donor Laydown Order.

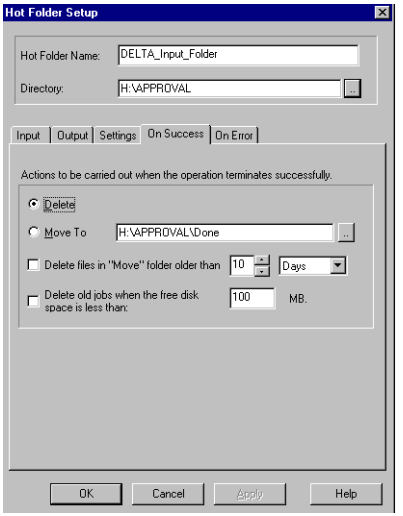
    NOTE: These must be predefined.

    See “Using Donor Colors” on page 52.



11. Select the Settings tab.
12. Set the available options:

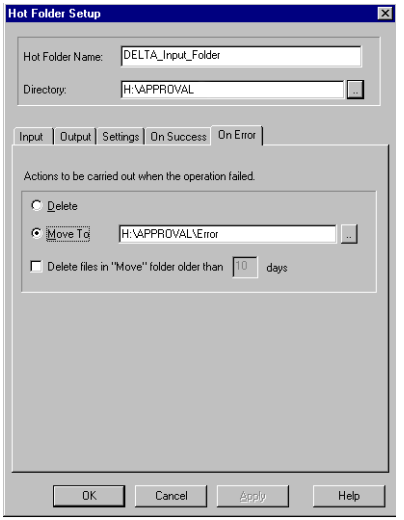
    Stabilize Time— specify when files are placed in the hot folder; no actions can be performed on the files for the time period
    Comment— enter optional information to identify the hot folder
    Hot Folder Priority— inactive at this time



13. Select the On Success tab.

    Do not change these settings during initial testing of the system. However, once AIT is up and running, change the settings to define how you wish to handle successfully proofed files. If these settings are not changed for normal operation, the hard drive becomes full.

    NOTE: If you select the **Move To** option, AIT automatically creates a "Done" folder in the path displayed in the drop-down list.



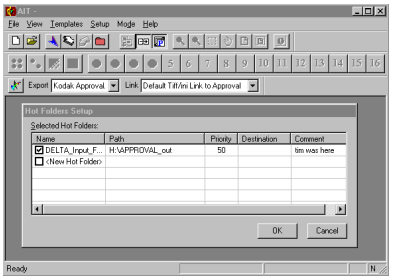
14. Select the On Error tab.

    Do not change these settings during initial testing of the system. However, once AIT is up and running, change the settings to define how you wish to handle successfully proofed files. If these settings are not changed for normal operation, the hard drive becomes full.

    NOTE: If you select the **Move To** option, AIT automatically creates an "Error" folder in the path displayed in the drop-down list.

15. Click **OK** when your selections are complete.

    The Hot Folders Setup window appears.

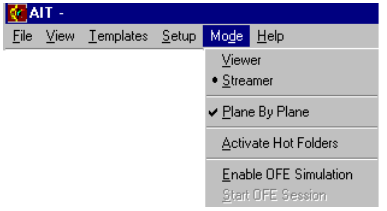


16. Click in the box next to the hot folders that you wish to be active.

    A check mark appears in the box.

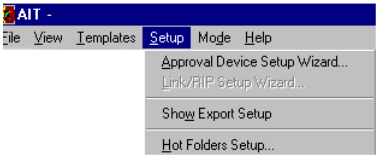
17. Click **OK**.

    NOTE: The Export field on the AIT window displays the job destination.



18. From the Mode menu, select **Streamer** and **Plane By Plane**.

    These two modes provide the most efficient way to transfer files. In Streamer mode, as files come into AIT they are transferred to the host. Plane-By-Plane mode means that each separation is transferred to AIT and then the host separately, or plane-by-plane.



19. (OPTIONAL) Select **Show Export Setup** from the Setup menu, if necessary.

    NOTE: When selected, this option stops AIT processing of each image file until the operator accepts the proofing parameters. After you are satisfied that the settings are correct, you can turn off this feature.

Creating Templates

Templates are operator-generated .txt files that provide proofing parameters for DCS2 files, as well as additional proofing parameters for modified TIFF/.ini files. Templates are placed in the AIT input (RIP output) folder and are applied to files as they are processed through the hot folder mechanism.

Templates define the following proofing parameters:

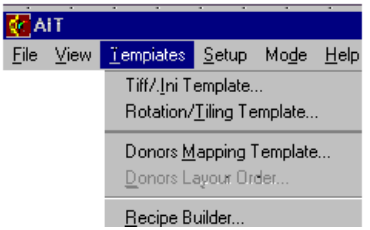
- Separations used when proofing
  - Density
  - Screen ruling
  - Angle
- Offset
- Media saving
- Number of copies

Before You Begin

Have the name and location of the RIP DCS2 and TIFF/.ini output folders available. If you have not created an output folder for the RIP, do so now. This folder becomes your AIT input folder.

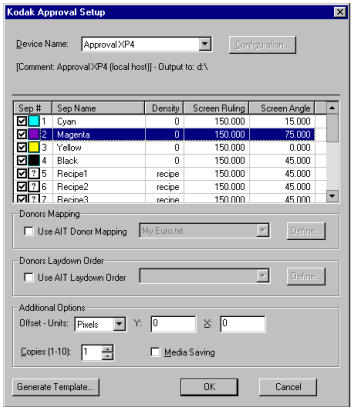
When defining separation density settings, remember that each step in the density range yields a change of 0.025 Status ‘T’ (for C, M, K) or 0.0125 Status ‘T’ (for Y). Value “0” is a nominal mid-level SWOP density, measured above paper density, approximately at these values: 1.46 for K, 1.17 for C, 1.25 for M, 0.73 for Y.

Creating a Template



1. From the Templates menu, select **Tiff/.Ini Template**.

   The *KODAK APPROVAL* Setup window appears.

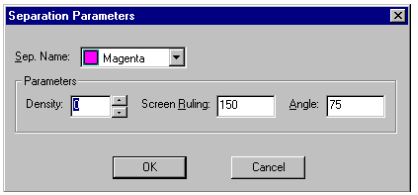


2. Double-click a separation to define the parameters.

   A check in the box next to the separation indicates that it will be included in the template.

   NOTE: If the Cyan separation is selected first, the change made to the Screen Ruling is applied to all separations.

   The Separation Parameters window appears.

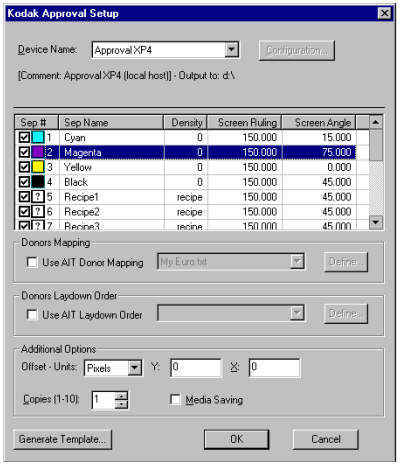


3. Enter the following parameters:
   - **Density**— enter the density parameter for this separation. The valid values are integer numbers from -22 to +22 for process colors.

     IMPORTANT: Do not change the density of recipe colors from this window. See "Using Recipe Colors" on page 49.

   - **Screen Ruling**— enter the screen ruling value for the screened data in this separation. The valid values are from 0 to 500.
   - **Angle**— enter the screen angle value for the screened data in this separation. The valid values are from -359.9 to +359.9.
4. Click **OK**.

   The *KODAK APPROVAL* Setup window appears.

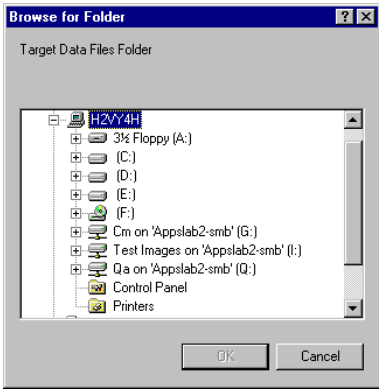


5. Repeat steps 2 through 4 to select and define other separations as necessary.

   IMPORTANT: Do not select Donor Mapping or Donor Laydown Order. These proofing parameters are applied in the Hot Folder Setup. See "Hot Folder Setup" on page 21 and "Using Donor Colors" on page 52.

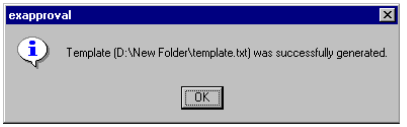
6. Select additional options as necessary:
   - **Offset**— define the offset of the proof in reference to the top-left corner of the output media. The offset may be defined in pixels, millimeters or inches.
   - **Copies**— select the number of copies you wish to print.
   - **Media Saving**— check this box if you wish to save donor material.
7. Click **Generate Template**.

   The Browse for Folder window appears.



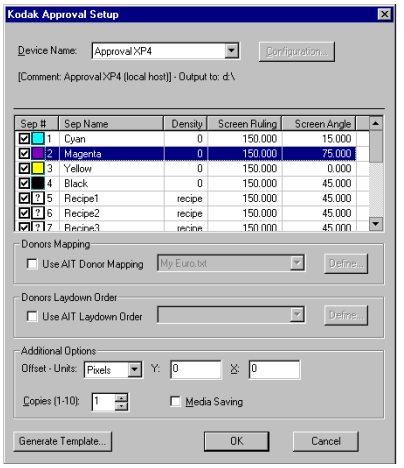
8. Navigate to, and select, the RIP output folder.
9. Click **OK**.

   The new template is stored in the selected folder and the exapproval window appears.



10. Click **OK**.

    The template .txt file is created and stored in the selected folder, and the *KODAK APPROVAL* Setup window appears.



11. Repeats step 2 through 10 to create additional templates as necessary.

    OR

    Click **Cancel** to exit the *KODAK APPROVAL* Setup window.

3 Using AIT

This chapter describes how to make proofs using your *APPROVAL* XP/XP4 Color Proofing device. It describes the *KODAK APPROVAL* Interface Toolkit / XP (AIT) screen and features, how to work in each of the AIT operation modes, and how to use recipe and donor colors.

To familiarize yourself with the user interface before learning about AIT procedures, go to page 32.

To begin learning about AIT procedures and bypass the user interface description, go to page 40.

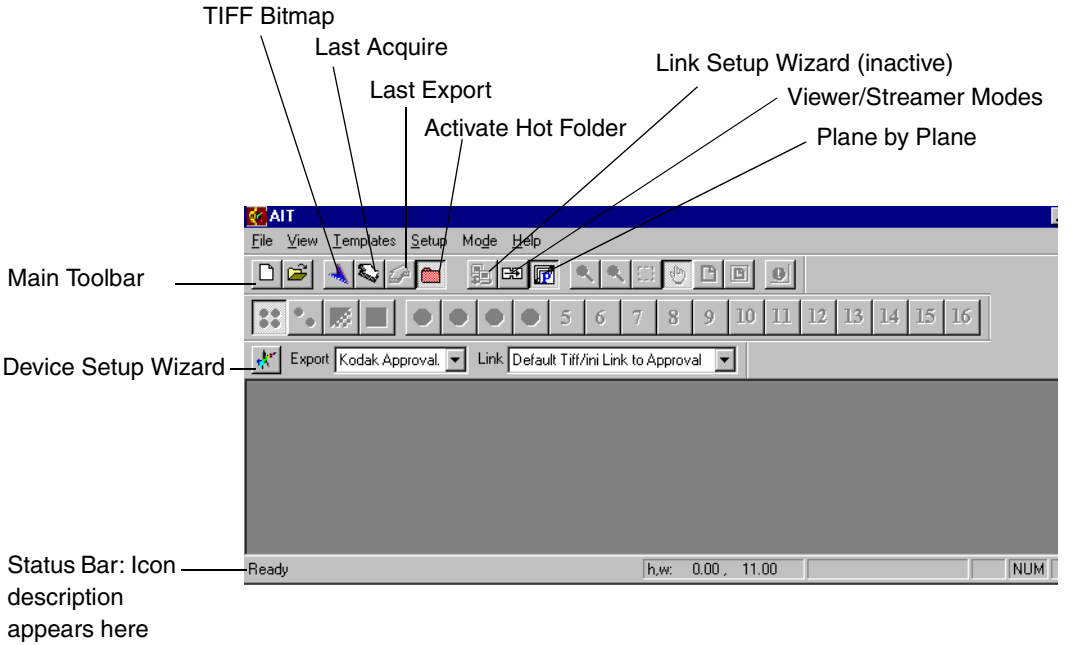
Working with AIT Menus and Buttons

The menus and toolbar buttons provide quick access to AIT functions.

Main Toolbar Buttons

The AIT main toolbar buttons are used for AIT configuration, for selecting proofing modes, and for proofing files.

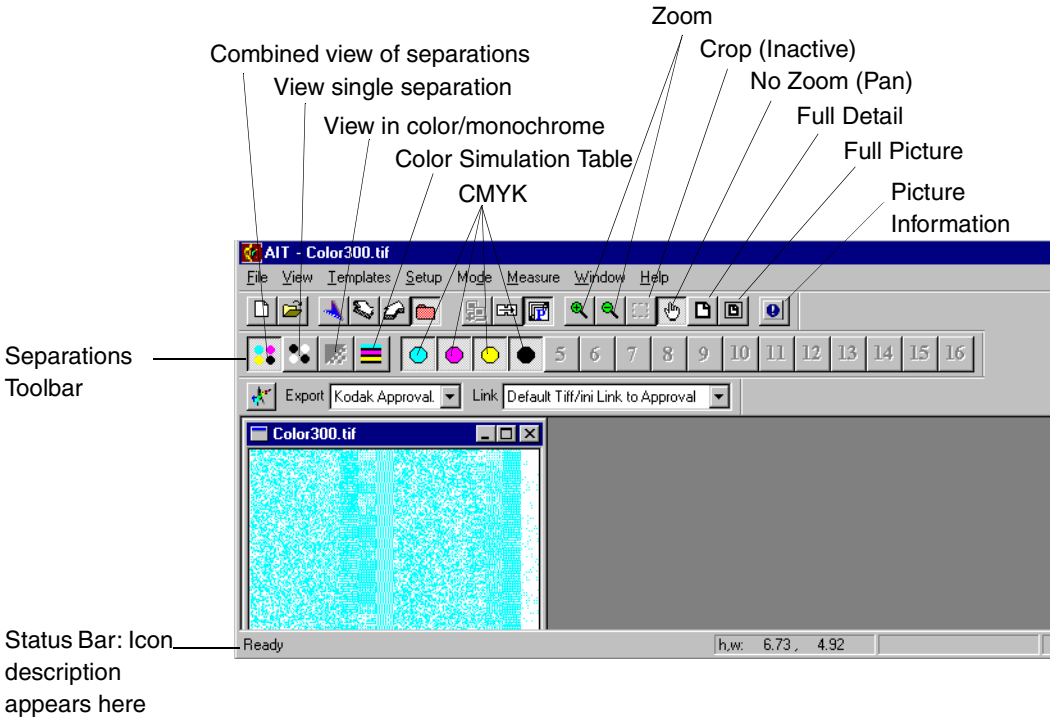
For information about an icon, place the cursor over the icon. The description appears in the status bar at the bottom of the screen.



Separations Toolbar Buttons

AIT separations buttons are used to view different perspectives of images when working in Viewer mode. Only TIFF files can be viewed. The separations buttons are active when there is an image displayed on the AIT screen. The separations buttons are inactive (grayed out) when no image is displayed.

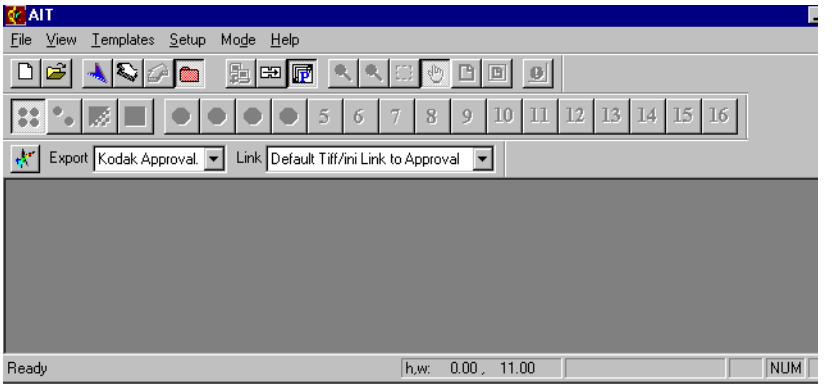
For information about an icon, place the cursor over the icon. The description appears in the status bar at the bottom of the screen.



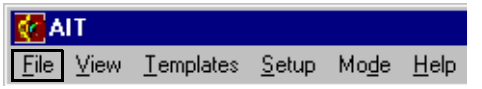
AIT Main Menus

AIT main menus are available when no image is displayed in the AIT window.

AIT Main Menus



File Menu



The File menu options allow you to work with files to be proofed.

New—create a new file.

Open—open an existing file.

Close—close the current file.

Acquire—import the files you wish to proof. The file types that you may acquire are: TIFF Bitmaps, DSC2 data files, and raw data files sent to the host by the RIP.

Preferences— set your system parameters as follows:

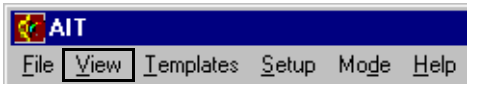
Units— pixels, inches, millimeters, centimeters

Scratch Disk— choose a drive to use for temporary files.

Last Acquire— import the last file acquired. This menu option has the same functionality as the Last Acquire main toolbar button. 

Exit— close the AIT application.

View Menu



The View menu allows you to display or hide the following parts of the AIT interface:

Main Toolbar
Separations Toolbar
Streamer Toolbar
Status Bar

Templates Menu

The Templates menu allows you to define the following proofing parameters:

TIFF/.Ini Template— creates operator-generated .txt files that provide proofing parameters for DCS2 and TIFF files, as well as additional proofing parameters for modified TIFF/.ini files.

Rotation/Tiling Template— allows you to use the plate setter image when making proofs.

NOTE: The Rotation/Tiling Template can not be used when AIT is installed on the *KODAK APPROVAL* XP/XP4 host.

Donors Mapping Template— provides global substitution of donor colors for both Process and recipe colors.

Donors Layout Order— specifies the order in which donor colors are applied to a proof.

Recipe Builder— allows you to define recipe colors.

Setup Menu

The Setup menu allows you to enable/disable OFE functionality.

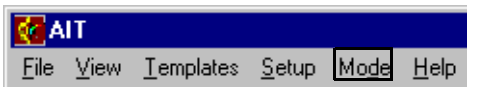
***Approval* Device Setup Wizard**— configure the connection between AIT and your *APPROVAL* XP/XP4 device. This menu option has the same functionality as the Device Setup Wizard button. 

Link/RIP Setup Wizard— inactive. 

Show Export Setup— used during Manual or Automatic mode proofing to verify proofing parameters.

Hot Folders Setup— opens the Hot Folders Setup configuration window (for functionality, see “Setting Up Hot Folders” on page 20).

Mode Menu



The Mode menu allows you to set the proofing mode.

Viewer—check to activate Viewer mode. This mode is used to view images in raw data or TIFF files.

Streamer—check to activate Streamer mode. This automatically passes data from the RIP to the *APPROVAL* XP/XP4 device.

Plane by Plane—check to activate Plane by Plane viewing. This mode acquires images separation plane by separation plane.

Activate Hot Folders—check to begin automatic Hot Folder proofing. This menu option has the same functionality as the Activate Hot Folder button. 

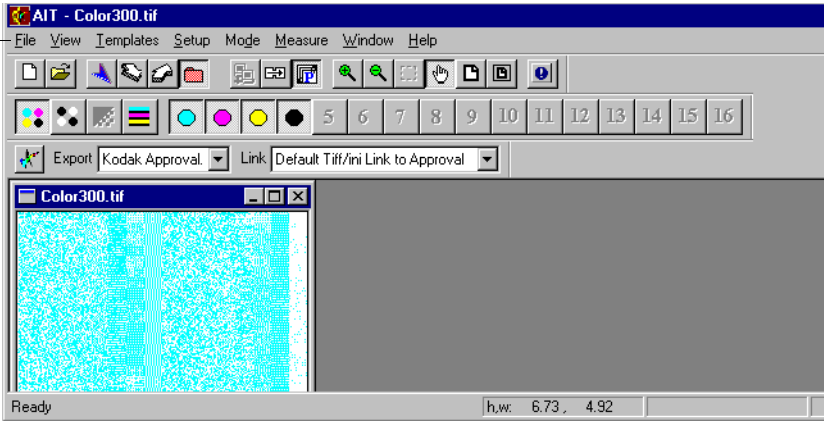
Help Menu

The Help menu displays AIT software version information, and has help topics available to provide online guidance using AIT.

AIT Image Menus

The AIT image menus are available when an image is displayed in the AIT window.

AIT Image Menus



File Menu

The File image menu options allow you to work with files to be proofed.

New—open a new file.

Open—open an existing file.

Close—close the active file.

Acquire—import the file types you wish to proof. The file types that you may acquire are: TIFF Bitmaps, DSC2 Data files, and raw data files.

Export—send images to an export device.

Information—display information about the active image file. This menu option has the same functionality as the Information toolbar button. 

Preferences—set your system parameters as follows:

Units—pixels, inches, millimeters, centimeters

Scratch Disk—choose a drive to use for temporary files

Last Acquire—invoke the most recently used acquire folder and file type. This menu option has the same functionality as the Last Acquire toolbar button. 

Last Export—invoke the most recently used export plugin. This menu option has the same functionality as the Last Export toolbar button. 

Exit—close the AIT application.

View Menu

The View image menu allows you to manipulate image color with the following options:

Color Simulation—manipulate image colors. When you check this menu option, the next option, Define Color Value, is activated.
Define Color Value—assign new dot percentages. For how-to, see “Working With Color Values” on page 47.

The View image menu also allows you to display or hide parts of the AIT interface with the following options:

Main Toolbar
Separation Toolbar
Status Bar

Setup Menu

The Setup image menu is the same as the Setup main menu (page 36).

Mode Menu

The Mode image menu is the same as the Mode main menu (page 36).

Measure Menu

The Measure menu options are inactive.

Window Menu

The Window menu uses standard WINDOWS NT functionality to display and organize multiple image files.

Help Menu

The Help menu displays AIT software version information, and has help topics available to provide online guidance using the AIT.

Starting the AIT

To start or restart the AIT application, double-click the AIT desktop icon  ,

Closing the AIT

CAUTION: Make sure no files are transferring and all proofing has been completed before exiting the AIT.

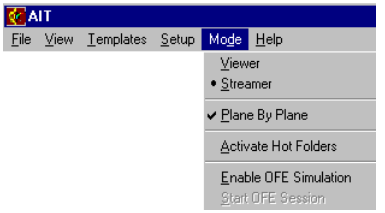
Select **Exit** from the File menu to close the AIT application.

Proofing in Automatic (Hot Folder) Mode

Automatic mode, also known as hot folder mode, is suitable for productive, unattended proofing. In automatic mode, proofing is activated by a trigger file (usually an .ini or .eps file) received from the RIP.

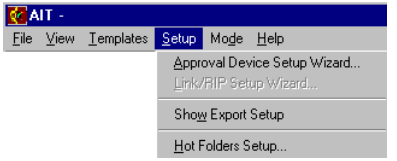
In this mode, one or more hot folders must have been defined. (See “Setting Up Hot Folders” on page 20.) The sending RIP activates the session by generating the image files and putting them in the AIT input folder. These files then have hot folder proofing parameters applied.

For operator workflows, see “Appendix C AIT Workflow Configurations” on page 119.



1. Select **Streamer** and **Plane by Plane** from the Mode menu.

   These two modes provide the most efficient way to transfer files.



2. (OPTIONAL) Select **Show Export Setup** from the Setup menu if you would like to view the proofing parameters of each file.

   NOTE: After you are satisfied that the settings are correct, you can turn off this feature to fully automate the process.

3. Click the Activate Hot Folder button on the Main toolbar.

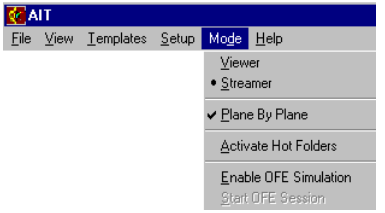
   The AIT begins automatic operation.

Proofing in Manual Mode

Manual mode allows you to proof images without .ini files. In manual mode, you manually apply the proofing parameters to the images. When hot folders are not activated, the AIT is in manual mode.

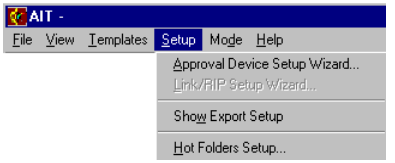
For operator workflows, see “Appendix C AIT Workflow Configurations” on page 119.

1. Verify that the Activate Hot Folder button is not selected.

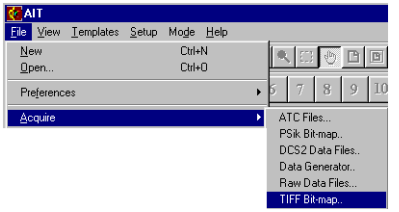


2. Select **Streamer** and **Plane by Plane** from the Mode menu.

   These two modes provide the most efficient way to transfer files.

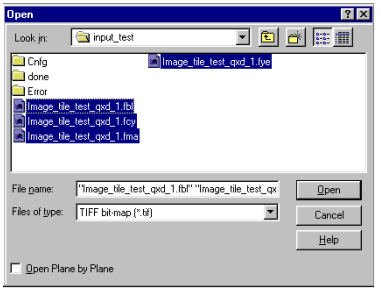


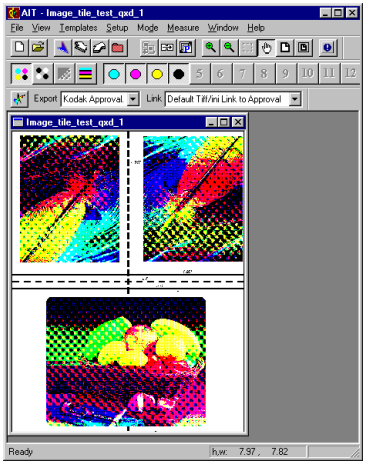
3. Select **Show Export Setup** from the Setup menu.



4. Select **File/Acquire/<file type>.**

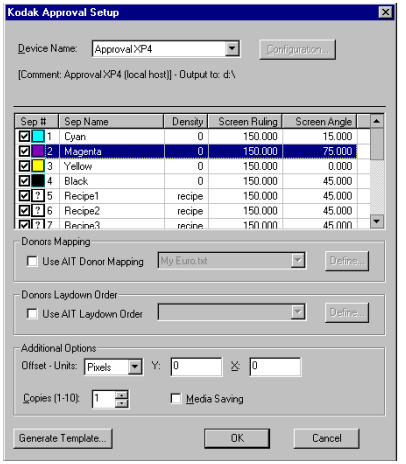
   The Open window appears.





5. Select the CMYK TIFF separations or DCS2 image you want to proof.
6. Click **Open**.

   The image appears in the main AIT window.



7. Select your output device from the Device Name drop-down list.
8. Check the proofing information and adjust the parameters for the file you are proofing.

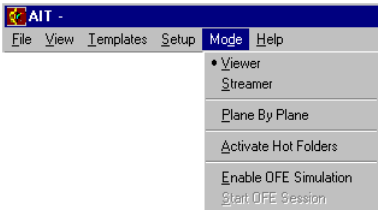
   All proofing parameters are available in Manual mode, including Donor Mapping and Donor Laydown Order.
9. Click **OK** to send the file to the *KODAK APPROVAL* device.

Viewing and Manipulating Images

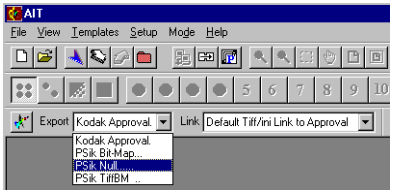
Use Viewer mode to view and manipulate the following image types in the *APPROVAL* XP/XP4 host queue manager:

- TIFF/.ini
- TIFF
- Raw data files

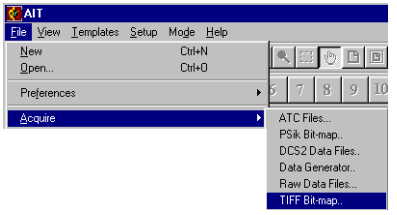
You use the Separations Toolbar and options from the View menu to manipulate the images.



1. Select **Viewer** from the Mode menu.
2. Verify that **Plane By Plane** is not selected.

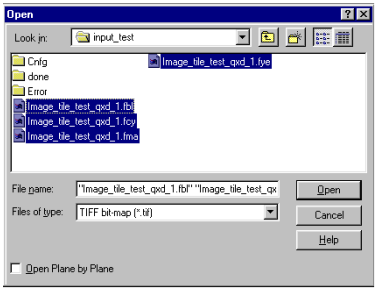


3. Select **PSik Null** for export.



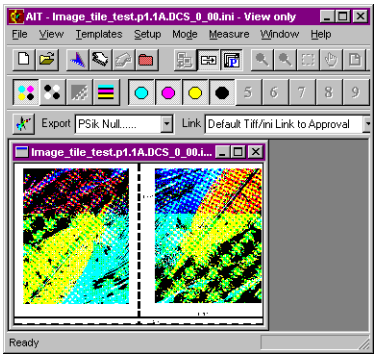
4. Select **File/Acquire/TIFF Bit-map**, or from the Main Toolbar, click the TIFF bitmap button.

   The Open window appears.



5. Select the image you want to view, then click **Open**.

   The image appears in the main AIT window.

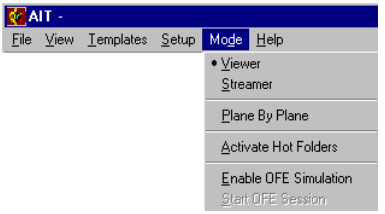


6. Use the Separations Toolbar to

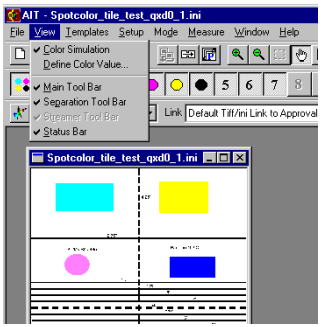
   - View individual separations
   - Magnify the image to see any flaws in the dot screened bitmap

Working With Color Values

You can assign new dot percentages to your displayed images (making the image darker or lighter) while you are in Viewer mode.



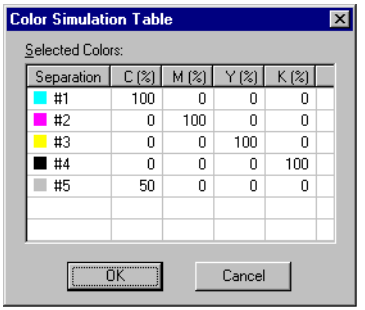
1. From the Mode menu, check **Viewer**.



2. Acquire your image.
3. From the View menu, select **Color Simulation**.

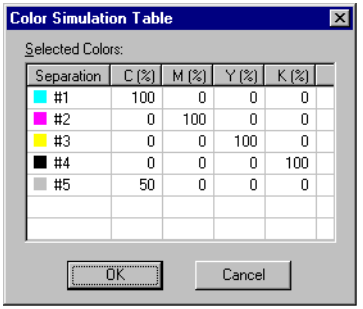
   The Define Color Value menu item is activated.
4. Select **Define Color Value**.

   The Color Simulation Table window appears. The current dot percentage is displayed in the text box for each separation.



5. Double-click the color separation you wish to edit.

   The Color Simulation Setup window appears.



6. Assign a new dot percentage to the separations.
7. Click **OK**.

   The change is displayed in the Color Simulation Table window.
8. Click **OK**.

   The image is redrawn with your change applied.

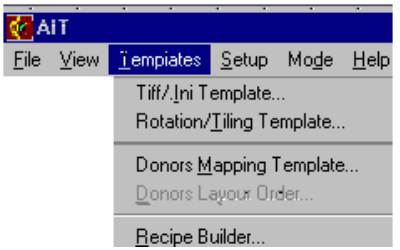
Using Recipe Colors

Use the Recipe Builder option on the Templates menu to define recipe colors. Recipe colors simulate spot color printing on a proof by combining several donors at varying densities to create unique solid colors. Spot colors are used when a color must be reproduced more accurately than is possible by using traditional CMYK donors.

Setup Considerations

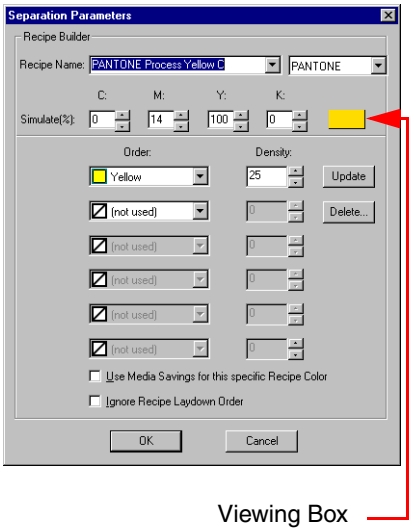
To define new colors, create a recipe matrix using the Host Recipe Generator to approximate the new color.

Defining a Recipe Color



1. From the Templates menu, select **Recipe Builder**.

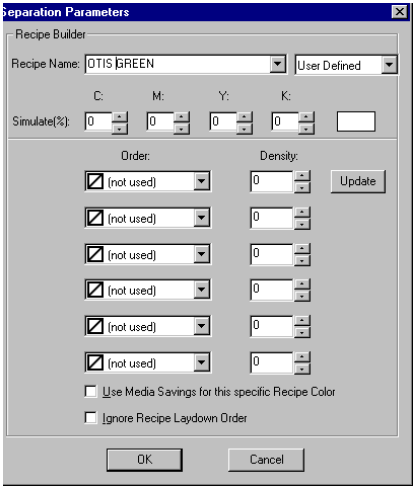
   The Separation Parameters window appears.



2. Type a descriptive name in the Recipe Name text box, or select an existing name from the drop-down list.
3. Select either **Pantone** or **User Defined** from the drop-down list.
4. Use the CMYK text boxes to set the color simulation for screen viewing. In each text box enter a percentage of the donor color.

   NOTE: The viewing box changes to match the CMYK percentage entries.
5. In the Order text boxes, select the donor colors that will be used to create the recipe color.
6. In the Density text boxes, enter the density of each donor color based on the recipe matrix you created.
7. (OPTIONAL) Select **Use Media Savings for this specific Recipe Color**.
8. (OPTIONAL) Select **Ignore Recipe Laydown Order**.
9. Click **Update**.

   The recipe color is saved in the AIT PANTONE or user-defined table.



10. Repeat steps 2 through 9 to define additional Recipe Colors if necessary.

    OR

    Click **OK** to exit Recipe Builder.

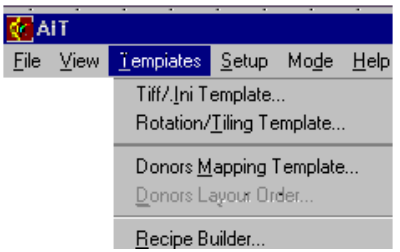
Using Donor Colors

Donor color functions within the AIT include:

- Donor mapping
- Donor laydown order

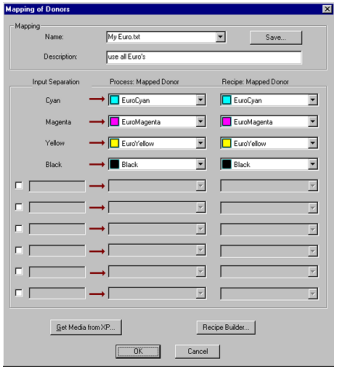
Donor Mapping

Donor mapping provides global substitution of donor colors for both process and recipe colors. Donor mapping templates are created and named, and then assigned to Hot Folders during the setup procedure. See “Setting Up Hot Folders” on page 20.



1. Select **Donors Mapping Template** from the Templates menu.

   The Mapping of Donors window appears.



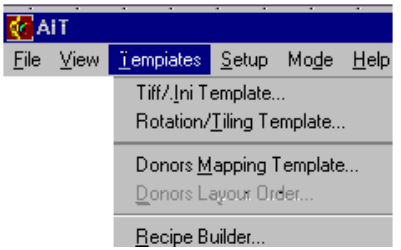
2. Type the following information in the Mapping area of the window:
   - **Name** — a descriptive name for this donor mapping template.
   - **Description** — text describing this template.
3. For each of the Input Separations (CMYK), choose a Process and Recipe Mapped donor from the drop-down lists.
4. Click **Save**.
5. Click **OK**.

   A Donor Mapping template has been created and can now be specified during Hot Folder Setup.

   NOTE: If the RIP output is something other than CMYK, you can use the 6 blank mapping areas to map donors on your *KODAK APPROVAL* XP/XP4 device.

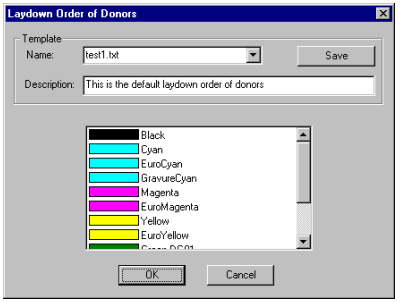
Donor Laydown Order

Donor laydown order specifies the order in which donor colors are applied to a proof.



1. Select **Donors Layout Order** from the Templates menu.

   The Laydown Order of Donors window appears.



2. Type the following information:
   - **Name** — a descriptive name for this donor laydown order
   - **Description** — text describing this donor laydown order
3. Click and drag the colors in the list box until they are listed in the order in which they should be applied to the proof.
4. Click **Save**.
5. Click **OK**.

   A Donor Laydown Order has been created and can now be specified during Hot Folder Setup.

4 Using Rotation and Tiling

This chapter describes how to use the *KODAK APPROVAL* Interface Kit (AIT) Rotation and Tiling feature.This feature is available only when AIT is installed on a dedicated PC and is automated through hot folder set up.

Rotation and Tiling allows you to use the plate setter image when making proofs — even if the image size is larger than the proofing device's maximum image size (20" x 26").

A tiling scheme (template) is created and then applied to a hot folder. All jobs passing through an individual hot folder have the same tiling template applied. The tiling template defines the operations to be performed on the basic image data before proofing.

The AIT has two modes of operation:

- Pass Through Mode—allows a job with the correct size and orientation parameters to pass through a tiling template hot folder and go directly to the *KODAK APPROVAL* host queue. Jobs with the correct size parameters that need rotation only, are passed to the tiling results folder and from there are passed to the *KODAK APPROVAL* host queue through the output folder.
- Dynamic Tiling—allows the use of the same tiling scheme for jobs with varying plate sizes. Dynamic tiling is specified in the tiling scheme. Pass through mode is active even when dynamic tiling is selected.

System Specifications

AIT can be installed on a dedicated PC at your site with the following components and system configuration. It is designed to allow more than eight hours of unattended proofing.

The components listed here comprise the current minimum system configuration. Installed component specifications are subject to change without notice.

NOTE: It is recommend that the computer you select be listed in the MICROSOFT Hardware Compatibility List. Refer to the MICROSOFT Web site for more information.

PC Minimum Requirements Specifications

- Two 1.5 GHz (or greater) Intel Xeon processors
- 512 MB RDRAM
- 2 36 GB SCSI hard disk drives
- 2 10/100 Base-T ETHERNET cards/connections
- Network crossover cables

Software Specifications

- MICROSOFT WINDOWS 2000 Professional with Service Pack 2
- KODAK AIT software and Dongle (HASP) for enabling AIT software

Communications

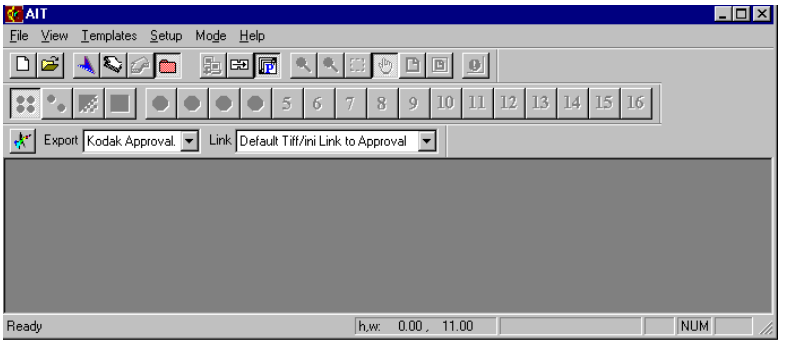
The AIT communicates with the *KODAK APPROVAL* XP/XP4 Digital Color Proofing System device using a TCP/IP network connection.

Using Tiling Templates

When working with Rotation and Tiling, keep in mind:

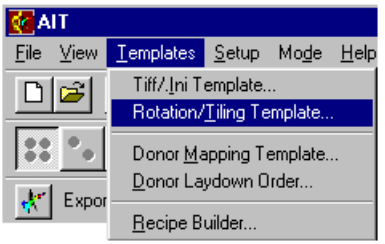
- AIT Rotation and Tiling is performed on the all-current file formats.
- When rotation is applied, it's always in the CW direction and 90 degrees at a time.
- Normal tiling schemes use the upper left-hand corner as origin point.
- Dynamic tiling schemes use the center as the origin point.
- Offsets in height and width can be applied to the origin point.
- Always apply the tiling scheme first and then determine if the image needs to be rotated.

To start the AIT double-click the desktop icon  . The main AIT screen appears. Begin your rotation and tiling procedures from this screen.



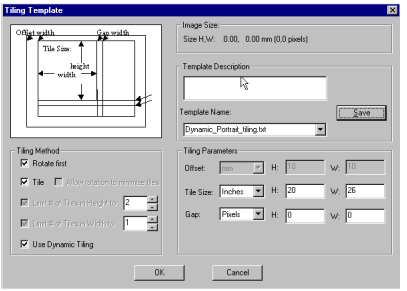
Defining a Tiling Template

See “Examples” on page 62 to help you determine which values to enter when creating a tiling template.



1. From the Templates menu, select **Rotation/ Tiling Template**.

   The Tiling Template window appears.



2. Type a Template Description and Template Name in the text boxes**.**
3. Select the **Rotate first** check box to make the longer edge of the tile vertical.

   The job is rotated 90 degrees clockwise before the tiling calculation takes place.
4. Select the **Tile** check box to perform the tiling.
5. Select the **Allow rotation to minimize tiles** check box if you prefer to have the application decide to rotate the image to minimize the number of tiles.
6. Select the two check boxes to limit the tiles in height and width to specify the exact number of tiles you need.

7. Enter the appropriate Tiling Parameters:
   - **Offset**—select the units and then specify the height and width of the offset of the first tile from the top-left corner of the job
   - **Tile Size**—select the units and then define the height and width of each tile; this can be smaller than or equal to the proofing device's maximum imaging area
   - **Gap**—select the units and then specify the height and width of the gap between the tiles

   NOTE: Specifying a negative number for the gap allows overlap between the tiles.

8. Click **Save**.

   The tiling template is saved with the name entered in the Template Name text box.

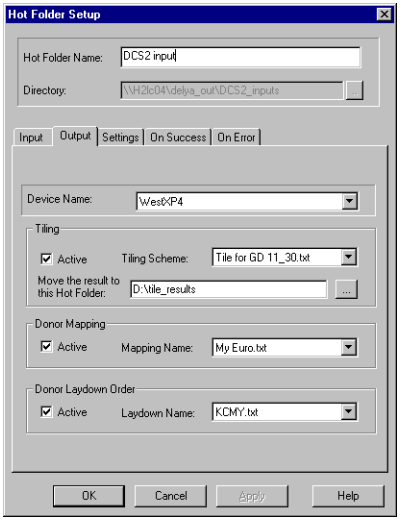
   NOTE: You must click **Save** before you continue or the changes will be lost.

9. Click **OK**.

   The Tiling Template window closes.

Applying a Tiling Template to a Hot Folder

Once you have created tiling templates, they must be applied to a hot folder using the Hot Folder Setup window. For more information on creating hot folders see “Setting Up Hot Folders” on page 20.



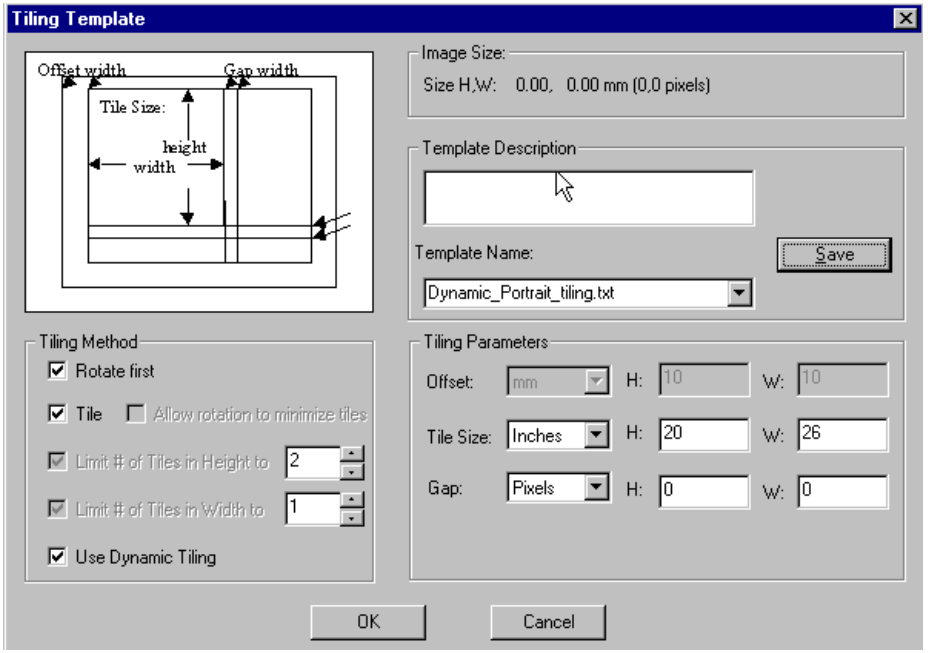
1. In the Hot Folder Setup window select the Output tab.
2. Select **Active** in the Tiling box.
3. From the drop-down list, select the tiling scheme (template) to be used by this hot folder.
4. Select the folder where the rotation and tiling results will be placed.

Note: Donor mapping and donor laydown order must be synchronized with the hot folder used to transfer all jobs to the KODAK APPROVAL System.

5. Click **OK**.

Examples

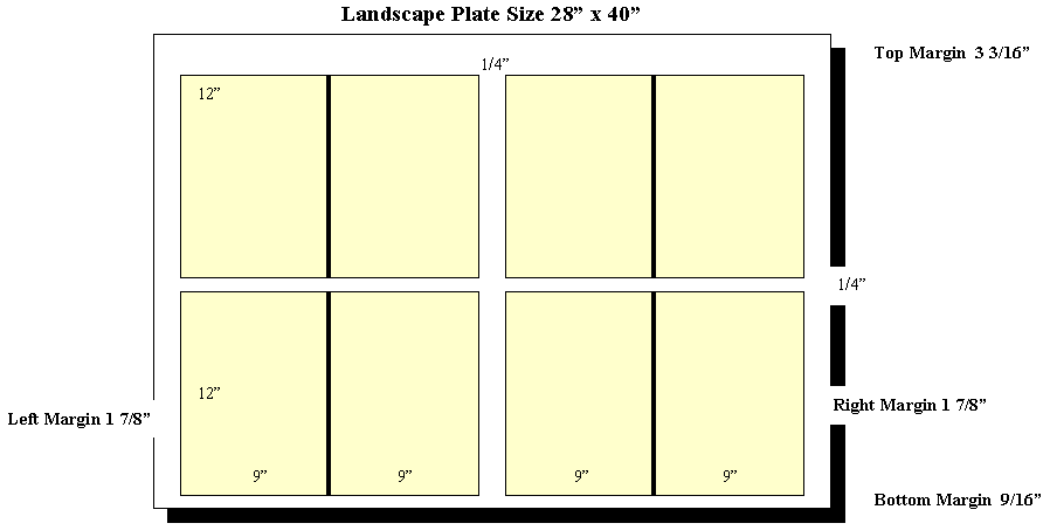
Use this information when you are customizing templates in the Tiling Template window. These examples include landscape, portrait, and dynamic tiling schemes and their results.



Landscape Tiling Scheme

If the file is in the landscape orientation, in most cases the file is not rotated as long as the height of the image area is less than 26 inches.

The following example demonstrates how to create a proof from a landscape plate that is 28" x 40".



Determine the image area. The image area is the actual size of the image. In the above example the image area is approximately 24 ¼" x 36 ¼".

With the image area starting 3 3/16" from the top edge of the plate, 2" needs to be cut off to fit the *APPROVAL* Slow Scan dimension of 26". This can be accomplished by applying a 2" Offset in height.

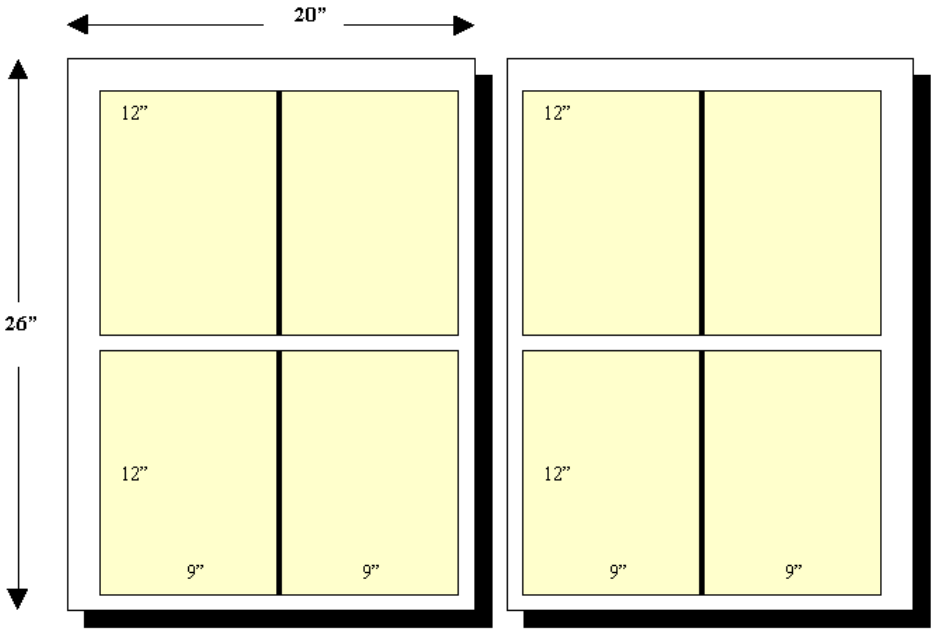
The width dimension being exactly double the *APPROVAL* Fast Scan dimension, the tile size in width can be 20". So no offset in width is needed.

A gap or overlap can be applied to the tiles depending on the image. There are 8 separate elements on this image with a gap down the middle of the image. A gap could be applied but is not necessary for this tiling scheme. If the image is continuous an overlap can be applied for splicing the two tiles back together. See “Gaps” on page 76.

Use the following values when creating the example tiling scheme:

Value	Input	
Rotate First	Not Checked	
Tile	Checked	
Dynamic Tiling	Not Checked	
	Height	**Width**
Offset	2	"0"
Tile Size	26	"20"
Gap/Overlap	0	"0"
Limit # of Tiles in	1	2

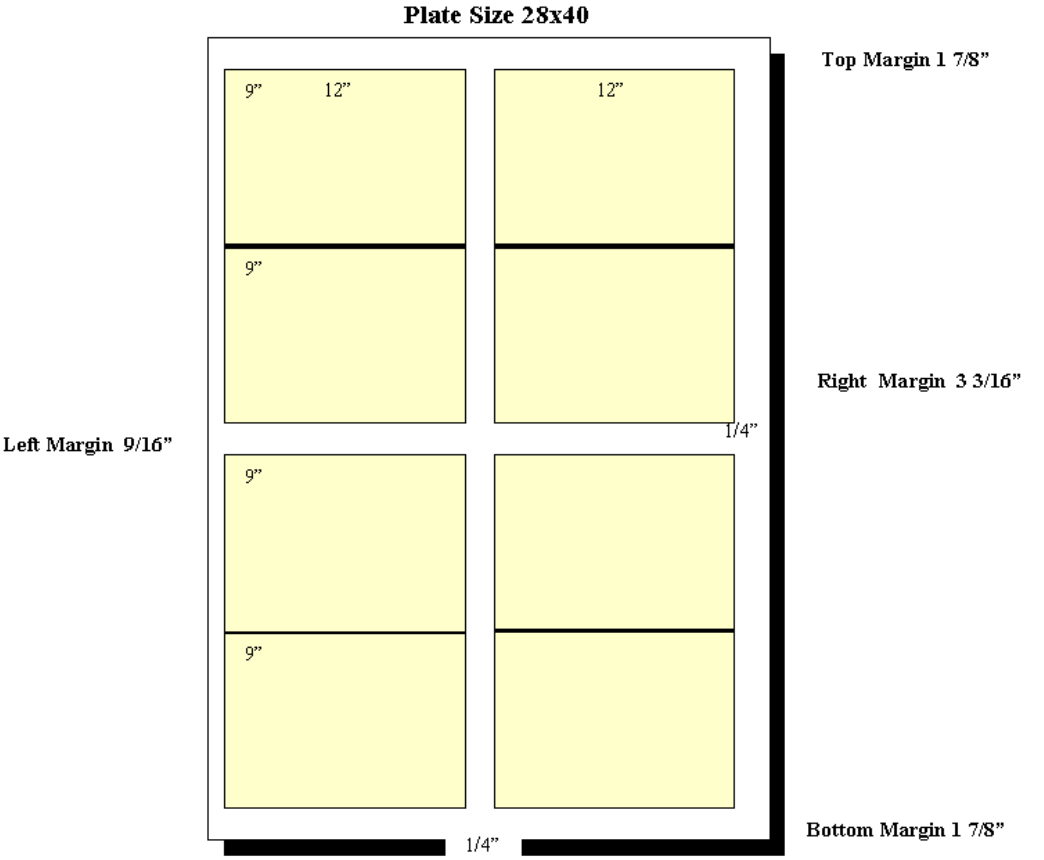
These values result in two identical tiles both with dimensions of 20 x 26".



Portrait Tiling Scheme

If the file is in a Portrait orientation and the image area width is more than 20" or less than 26", and the height is more than 20" then rotation and tiling are necessary for this tiling scheme.

The following example, demonstrates how to create a proof from a portrait plate that is 28" x 40".



Determine the image area. In the previous example the image area is approximately 24 ¼" wide x 36 ¼" high.

With the image area starting 9/16" from the left margin and the image area plus left margin being less than 26" in width, no offset in width is needed.

The height dimension being exactly double the *APPROVAL* Fast Scan dimension, the tile size in height can be 20". No offset in height is needed.

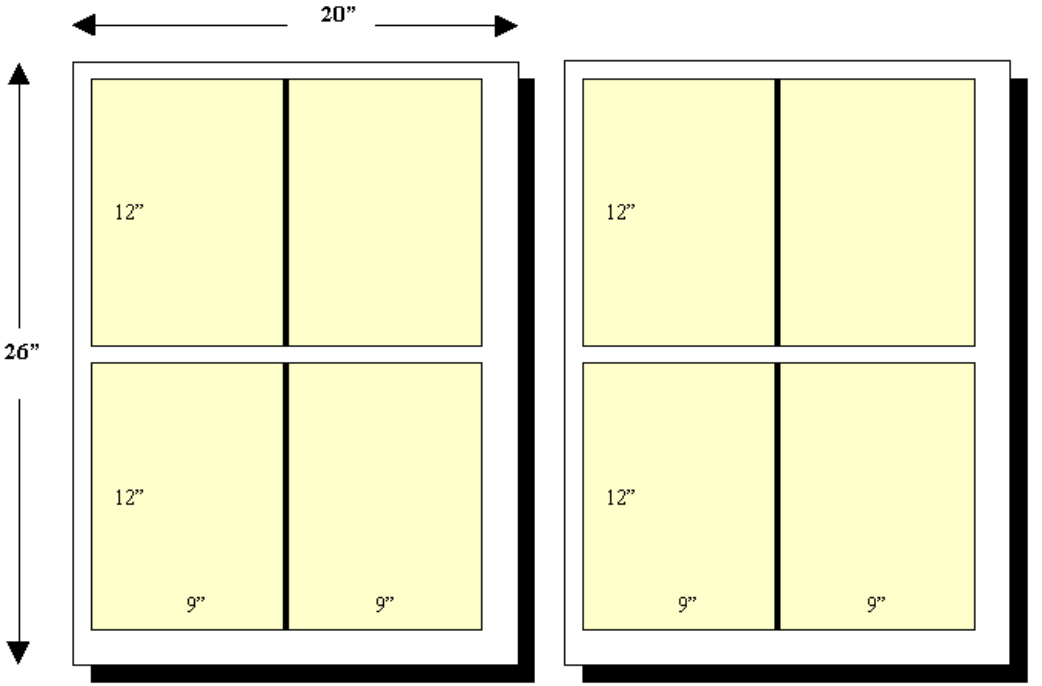
There are eight separate elements on this image with a gap down the middle of the plate. A gap could be applied but is not necessary for this tiling scheme. See “Gaps” on page 76.

Use the following values when creating the example tiling scheme:

Example of Portrait Tiling Scheme Values

Value	Input	
Rotate First	Checked	
Tile	Checked	
Dynamic Tiling	Not Checked	
	Height	**Width**
Offset	0"	0"
Tile Size	2"	26"
Gap/Overlap	0"	0"
Limit # of Tiles in	2	1

These values result in two identical tiles both with dimensions of 20" x 26". Remember the portrait tiling scheme rotates the tile clockwise 90^0.



Proofing a Single Tile

If the elements on the image are the same, you can set up a tiling scheme to proof just the first tile instead of both tiles.

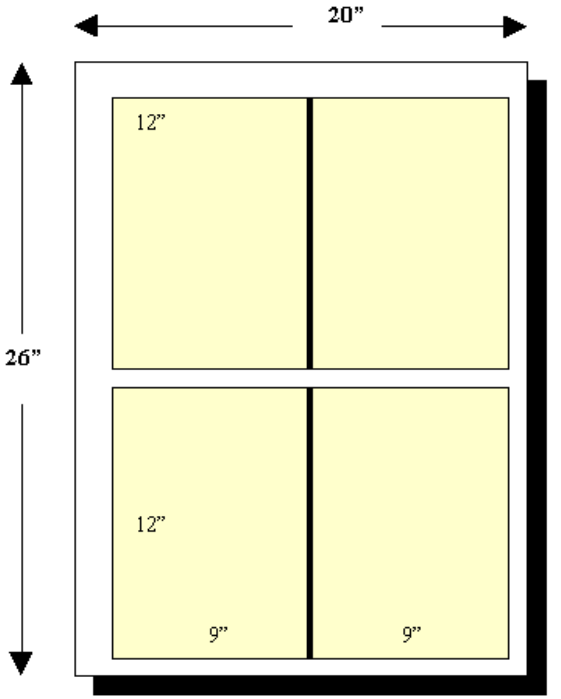
To proof just one tile, set "Limit # of tiles in" parameter in height and width to 1. This works for both landscape and portrait tiling schemes.

Based on the examples used previously, the values for a single tile landscape scheme are:

Example of Single Tile Landscape Scheme

Value	Input	
Rotate First	Not Checked	
Tile	Checked	
Dynamic Tiling	Not Checked	
	Height	**Width**
Offset	2"	0"
Tile Size	26"	20"
Gap/Overlap	0"	0"
Limit # of Tiles in	1	1

The values listed in the previous table produce the following result:

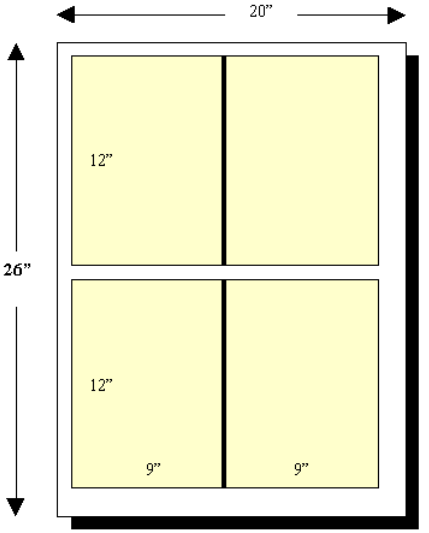


For a single tile portrait scheme use the following values:

Example of Single Tile Portrait Scheme

Value	Input	
Rotate First	Checked	
Tile	Checked	
Dynamic Tiling	Not Checked	
	Height	**Width**
Offset	2"	0"
Tile Size	20"	26"
Gap/Overlap	0"	0"
Limit # of Tiles in	1	1

These values produce the following results:



Remember the portrait tiling scheme rotated the tile clockwise 90^0.

Dynamic Tiling Scheme

Dynamic tiling can be used to create proofs from plates between 20" x 26" and 26" x 40". Dynamic tiling tiles from the center out. The Offset feature is not allowed, but Gaps and Overlaps are allowed. Separate dynamic tiling schemes must be used for landscape and portrait proofs.

Landscape Dynamic Tiling

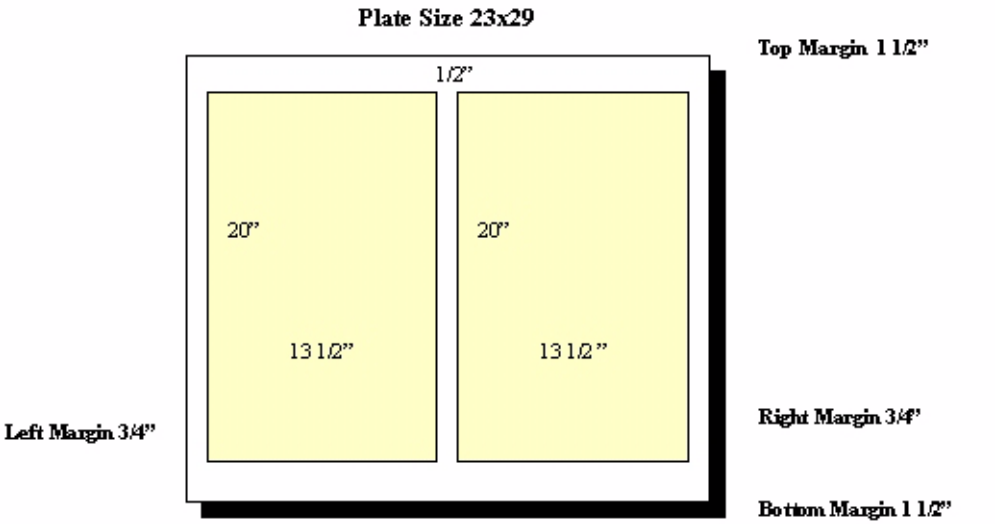
The values listed in the table below allow the four examples to be tiled through the same hot folder.

NOTE: Use the largest tile size when defining dynamic tiling schemes.

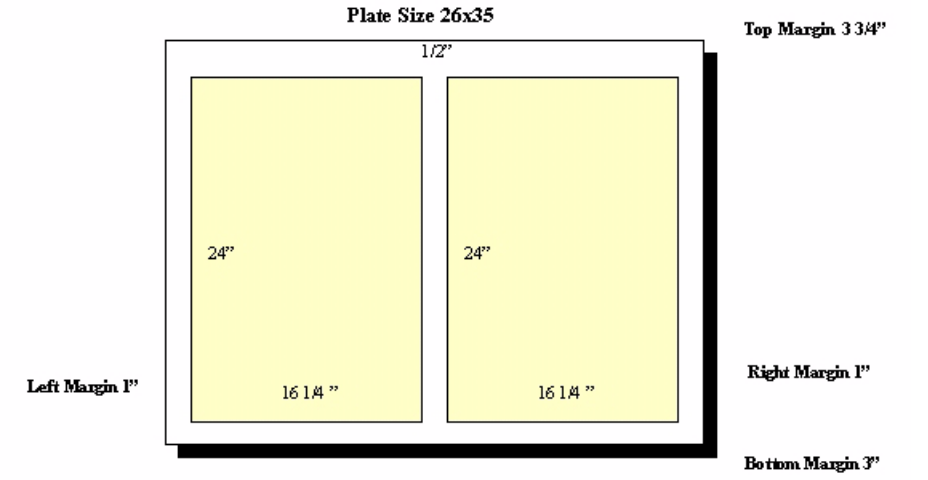
Example of Landscape Dynamic Tiling Scheme Values

Value	Input	
Rotate First	Not Checked	
Tile	Checked	
Dynamic Tiling	Checked	
	Height	**Width**
Tile Size	26"	20"
Gap/Overlap	0"	0"
Limit # of Tiles in	1	2

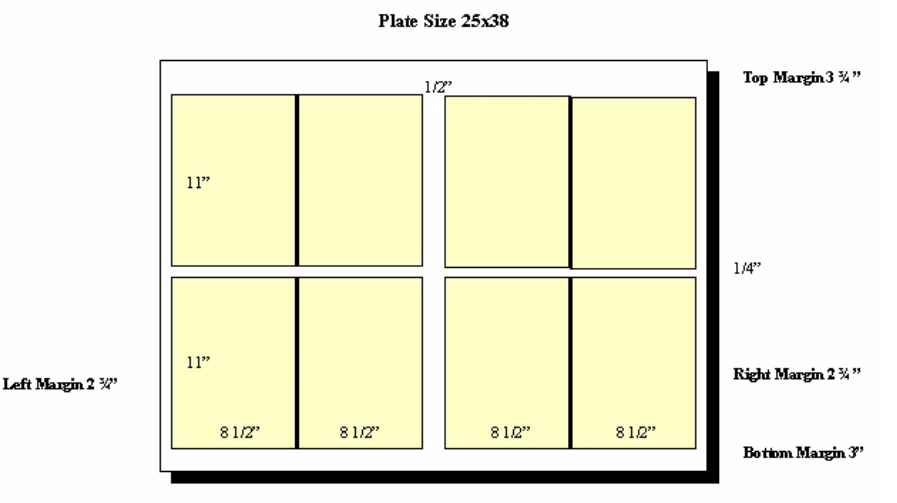
Using the previous tiling scheme values, the size of the two tiles for a 23" x 29" plate is 14.5" x 23".



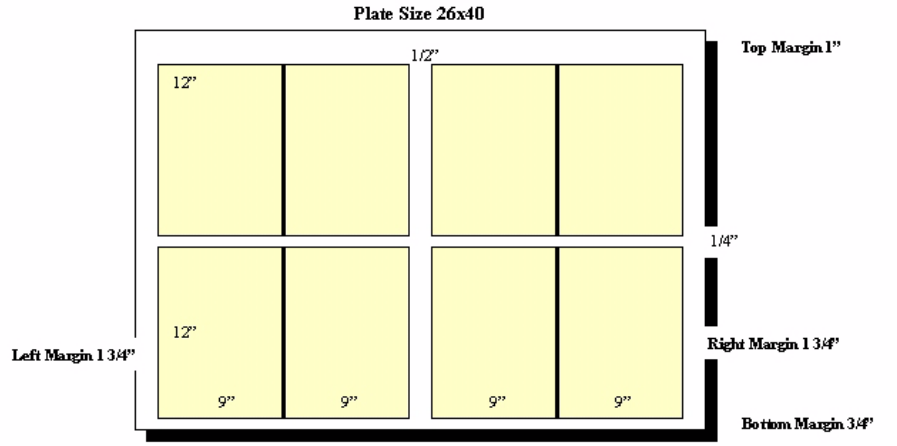
Using the previous tiling scheme, the size of the two tiles for a 26" x 35" plate is 17.5" x 26".



Using the previous tiling scheme, the size of the two tiles for a 25" x 38" plate is 19" x 25".



Using the previous tiling scheme, the size of the two tiles for a 26" x 40" plate is 20" x 26".



Portrait Dynamic Tiling

If all of the previous examples are in the portrait orientation, the Rotate First feature must be checked and the tile size parameter Height and Width must be swapped. The example tiling results are the same.

Example of a Portrait Dynamic Tiling Scheme.

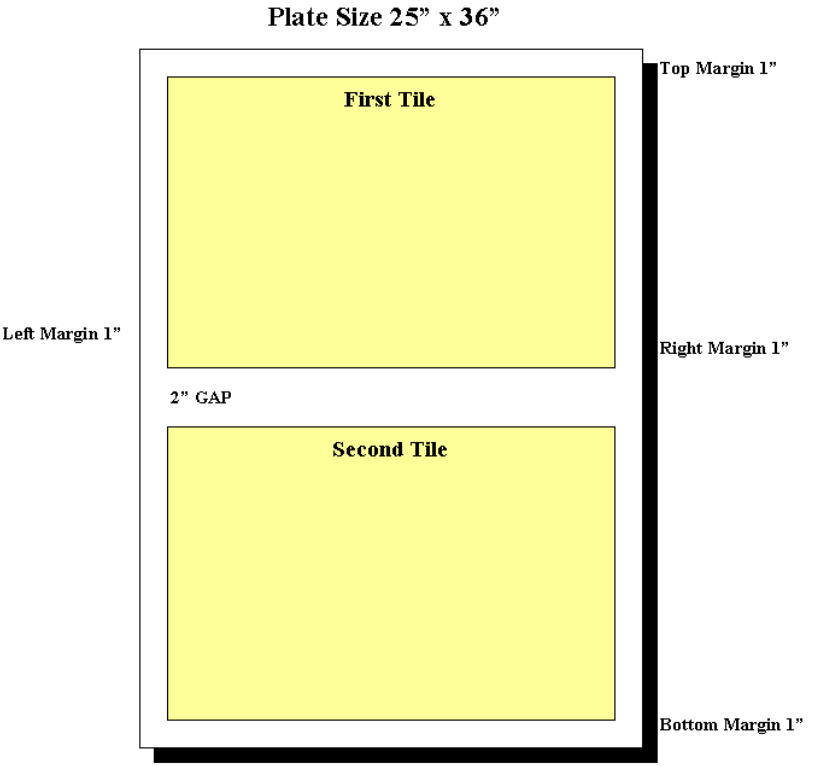
Value	Input	
Rotate	Checked	
Tile	Checked	
Dynamic Tiling	Checked	
	Height	**Width**
Tile Size	20"	26"
Gap/Overlap	0"	0"
Limit # of Tiles in	1	2

Gaps

The gap parameters are for removing space between elements of an image.

If the file is in a portrait orientation and the image area width is 26" or less, and the height is more than 20", then rotation and tiling are necessary.

The following example, demonstrates how to use the gap parameter with a portrait plate that is 25" x 36":



Determine the Image Area. In the above example the Image Area is approximately 23" wide x 34" high.

With the width of the tile being less than 26", no offset in width is needed. The height dimension is more than 20"; so the image needs to be tiled.

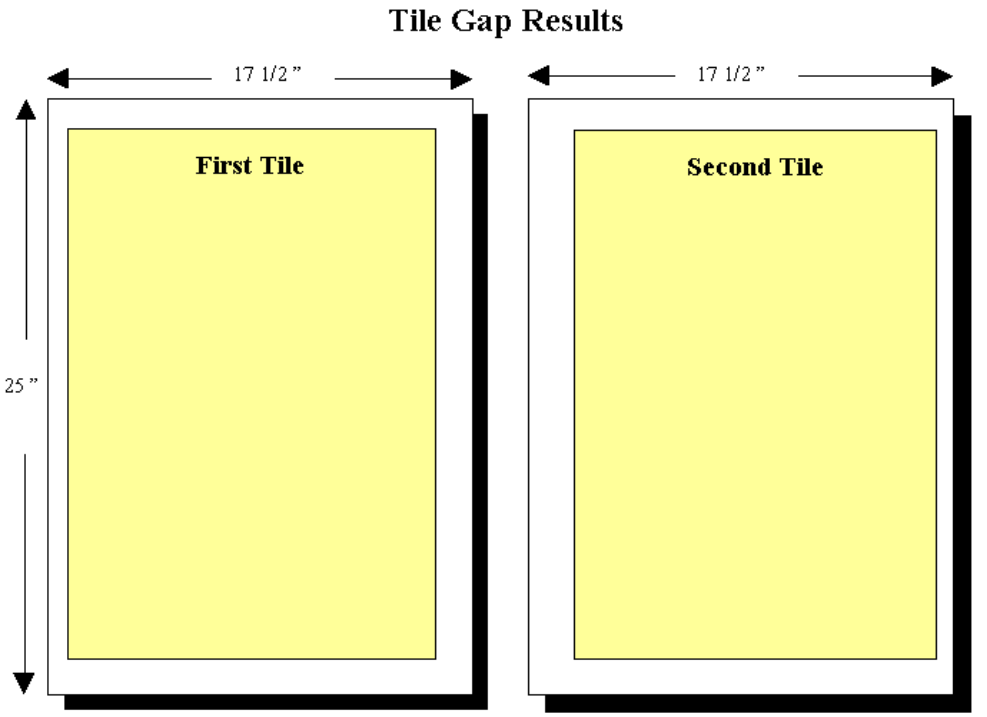
A tile size in height of 17 ½" is used. No offset in height is needed because the tiles is less than 20" in height. Rotation is required because the width dimension is more than 20". The two elements in the image are 2" apart so a 1" gap must be removed between the two tiles at the center of the plate.

Use the following values when creating the example tiling scheme:

Example of Tiles with Gaps

Value	**Input**	
Rotate	Checked	
Tile	Checked	
	Height	**Width**
Offset	0"	0"
Tile Size	17 1/2"	25"
Gap/Overlap	1"	0"
Limit # of Tiles in	2	1

The values from the table produce the following results:



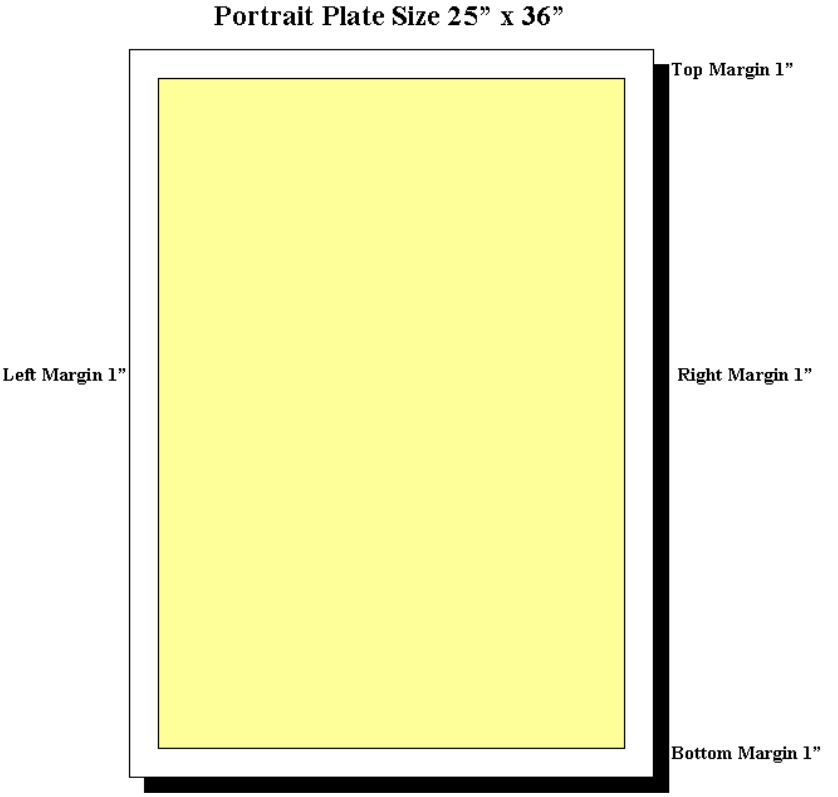
The gap parameter removed 1" from the center tile.

Overlaps

The overlap parameter (expressed as a negative number in the gap parameter of the tiling template) is generally used for large and continuous images that are larger than the *APPROVAL* output size. These large continuous images must be tiled before they can be spliced together and proofed.

If the file is in a portrait orientation and the image area width is 20" or more, and the height is more than 26" then rotation and tiling are necessary for this tiling scheme.

The following example describes how to use the overlap parameter with a portrait plate that is 25" x 36".



Determine the image area. In the previous example the image area is approximately 23" x 34". Because the image area width dimension is more than 20", rotation is required.

With the plate width being less than 26", no offset in width is required. The height dimension is more than 20"; so the image needs to be tiled. A tile size in height of 18" is used. No offset in height is required because the tiles are less than 20" in height.

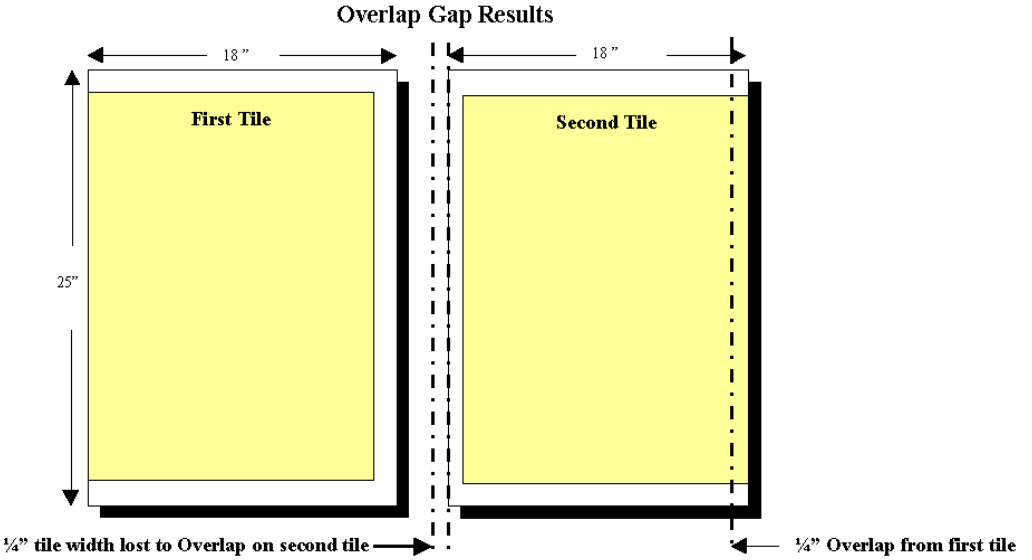
The image on the plate is continuous so an overlap can be specified in the gap parameter using a negative number instead of a positive. A ¼" overlap is used for this example.

The following values are used for this example.

Example of Tiles with Negative Gaps (Overlaps)

Value	**Input**	
Rotate	Checked	
Tile	Checked	
	Height	**Width**
Offset	0"	0"
Tile Size	18"	25"
Gap/Overlap	- 2 1/2"	0"
Limit # of Tiles in	2	1

These values produce the following results:



The second tile starts ¼" into the first tile creating the overlap. Now the second tile contains ¼" of the first tile plus 17 ¾" of the second tile.

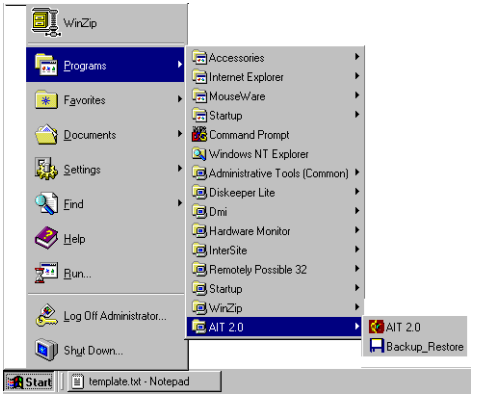
If the tile size is the same as the *APPROVAL* output size and overlap is needed, part of the image on the second tile opposite of the overlap may be missing. This is because the tile size is not large enough to capture part of the first tile (overlap) and the entire second part of the image.

Now the two tiles can be spliced together by overlapping the two tiles by ¼" and cutting down the center of the overlap. Use Type II Pre-laminate to eliminated the seam between the two tiles.

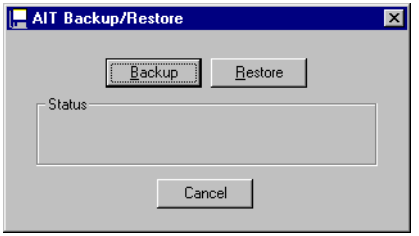
5 Backup and Restore

This chapter provides instructions for using the Backup_Restore utility to back up and restore the *KODAK APPROVAL* Interface Toolkit / XP (AIT) configuration files, setup files and input folders. You can back up files to or restore them from the network or a floppy diskette.

Backing Up AIT Files

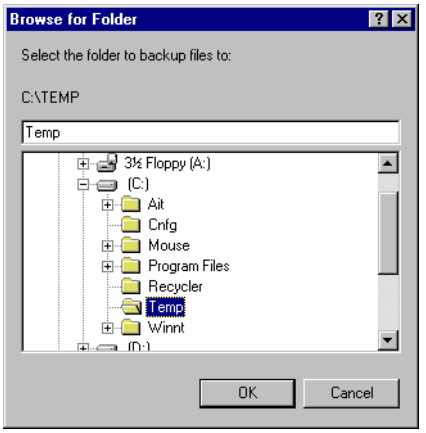


1. If necessary, insert the floppy diskette that will store the backed up files.
2. Go to the WINDOWS Start menu and go to **Programs>AIT 2.0>Backup_Restore**.



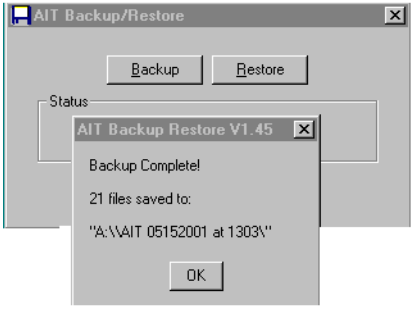
3. Click **Backup**.

   The Browse window appears.



4. Select the floppy diskette or network location on which the files will be stored.
5. Click **OK**.

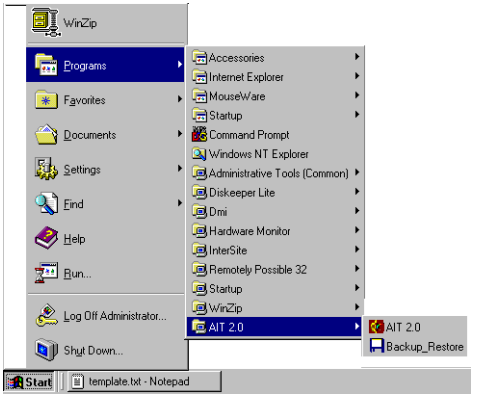
   The AIT Backup/Restore window appears and the progress of the backup appears in the status portion of the window.



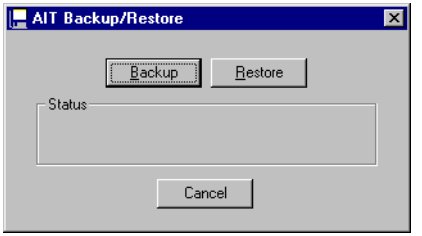
6. Click **OK** when the Backup Complete message appears.

   The AIT files are saved to the selected location and the AIT Backup/Restore window closes.

Restoring AIT Files

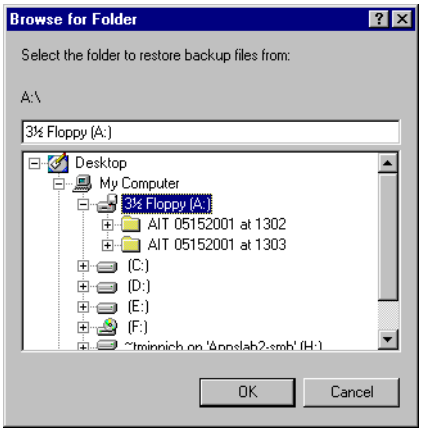


1. If necessary, insert the floppy diskette that contains the files to restore.
2. Go to the WINDOWS Start menu and go to **Programs>AIT 2.0>Backup_Restore**.



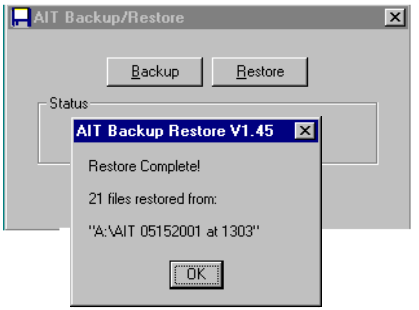
3. Click **Restore**.

   The Browse window appears.



4. Select the floppy diskette or network location from which to restore the files.
5. Click **OK**.

   The AIT Backup/Restore window appears and the progress of the restore appears in the status portion of the window.

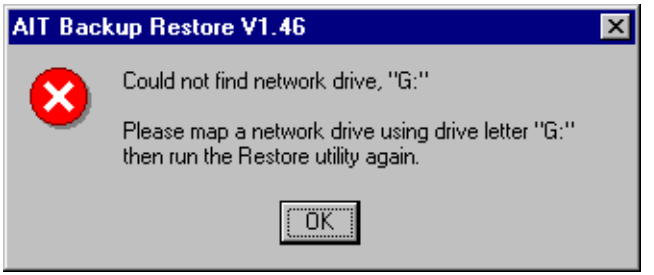


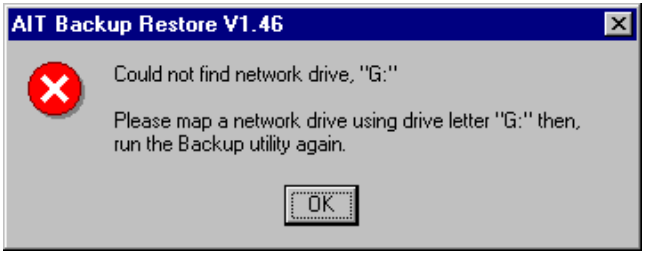
6. Click **OK** when the Restore Complete message appears.

   The AIT files have been restored from the selected location and the AIT Backup/Restore window closes.

Troubleshooting

The following errors appear when you are backing up or restoring and the network connection has been lost.





1. Verify that the system is active.
2. Remap the drive if necessary.

6 Troubleshooting

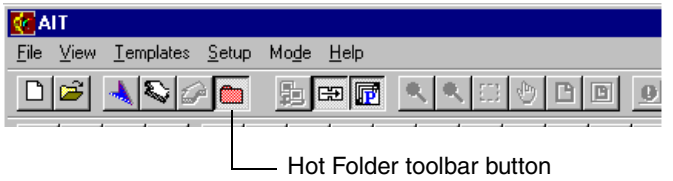
If you have a problem with the *KODAK APPROVAL* Interface Toolkit / XP (AIT), you need to determine which part of the system may be causing the problem. This chapter helps you determine where the problem originates, and what to do about it.

Getting Help

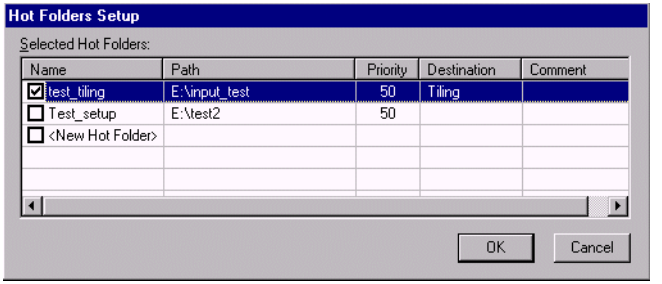
If you cannot solve your AIT problem with the troubleshooting tips in this chapter, call your AIT service provider at: 1-877-KPGRAPHICS (1-877-574-7274) prompt 911, prompt 2.

Files Not Transferring to the Queue Manager

1. Verify that the Hot Folder toolbar button is active.



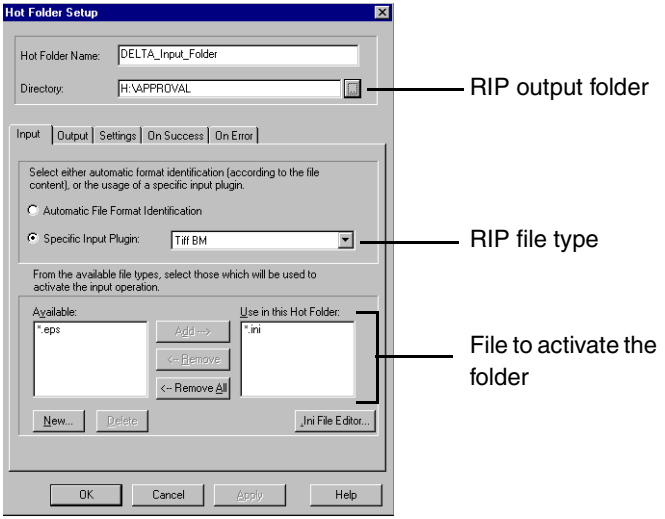
2. Look in the Hot Folders Setup window to verify that the check box for the appropriate Hot Folder is selected.



3. Verify the information in the Hot Folder Setup window. See “Hot Folder Setup” on page 21.

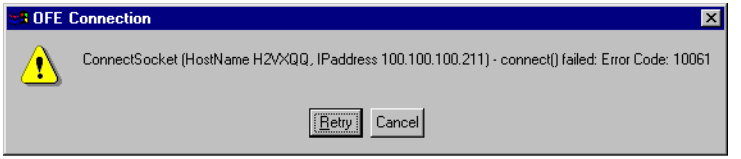
   - Is the RIP output folder specified correctly?
   - Is the Input Plugin set correctly (**Tiff BM** or **DCS2**)?
   - Is the correct file type selected to activate the hot folder (Tiff BM files use***.ini** or DCS2 files use ***.eps**)?

4. Make the necessary changes.



KODAK APPROVAL XP/XP4 Host Application Not Launched

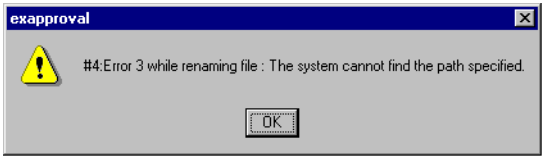
The following error appears if the host application is not launched or the AIT PC loses the network connection to the *KODAK APPROVAL* XP/XP4 host. Use the *APPROVAL* Device Type Wizard to verify the correct IP address of the Host.:



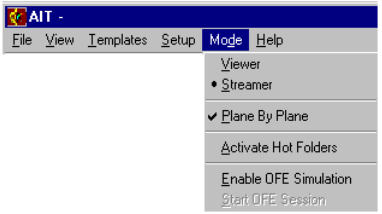
1. Click **Cancel**.
2. Launch the *KODAK APPROVAL* XP/XP4 host application.

Hot Folders Active With Streamer/Viewer Mode Selected

The following error appears when Hot Folder mode is active, but only the Streamer mode or Viewer mode are selected:



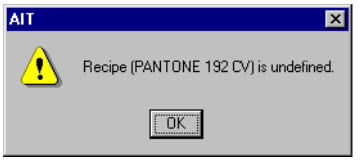
1. From the Mode menu in the AIT window select both **Streamer** mode and P**lane By Plane**.



2. Verify that the hot folders are active.

Pantone List Missing or Color Undefined

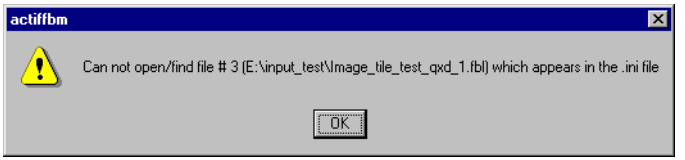
The following error appears when the Pantone list is missing, or the Pantone or recipe color has not been defined.



1. Check **C:\AIT\Psik\Tables** folder for the file **PantoneRecipes.txt**.
2. Click **OK** and define the recipe.

TIFF Separation Missing

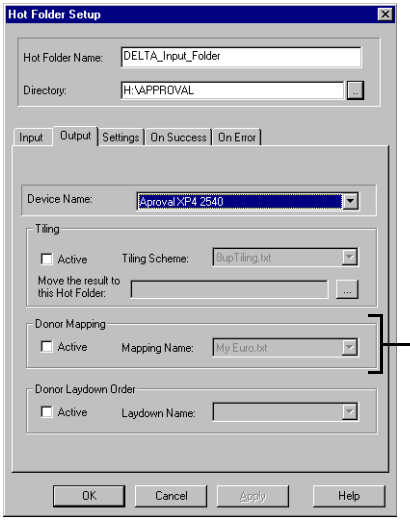
The following error appears when the separation file is missing or corrupted.



1. Deactivate the hot folder mechanism.
2. Delete all files in the Input, Done, and Error folders.
3. Activate the hot folder mechanism.
4. Re-RIP the job.

Input Donor Colors Not Mapping Correctly

When the input donor color names are not mapping correctly to the output donor color names, verify that donor mapping is activated in the Hot Folder Setup, and that the correct Donor Laydown order is selected. For more information on hot folder setup, see “Setting Up Hot Folders” on page 20.

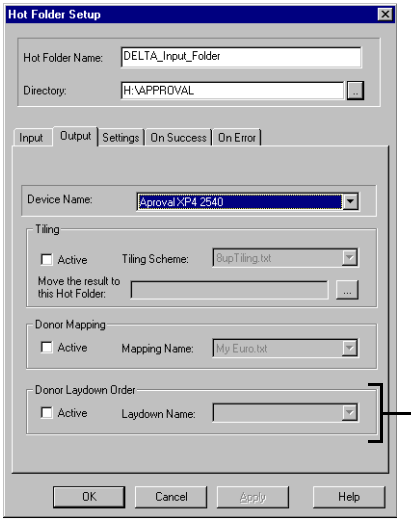


Donor Laydown Order Not Correct or Template Missing

The following error occurs when the donor laydown order template is missing:

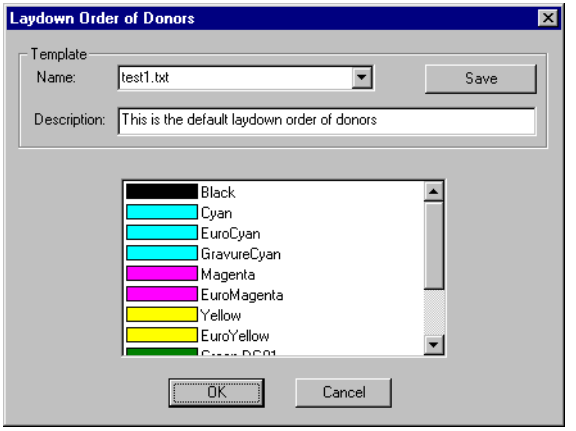
Take the following steps:

1. Verify that the correct donor laydown order template was selected in the Hot Folder Setup.



Donor Laydown Order information

2. Verify that the laydown order is correct in the specified template.

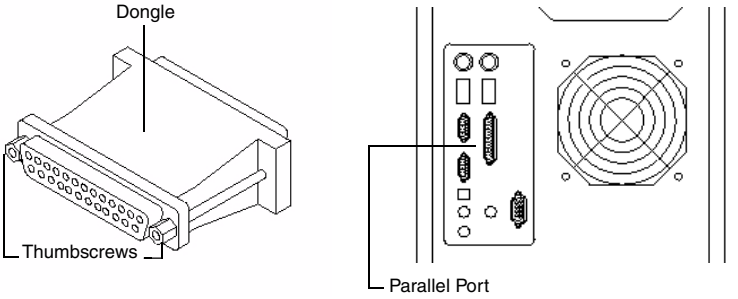


Appendix A
Installing AIT

AIT installation consists of installing a dongle on the PC, and then installing the software application. This appendix provides the procedures for installing the AIT on either the Host or a separate PC.

Installing a Dongle

Install the dongle on the parallel port of the PC, and then hand-tighten the thumbscrews.

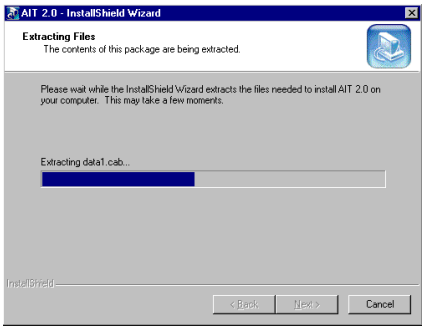


CAUTION: The dongle must remain connected to the HOST or dedicated PC when the AIT application software is active.

Installing the AIT Software on the Host

1. Start the Host PC and log on as **Administrator**.
2. Insert the AIT software CD into the CD ROM drive.
3. Open Explorer and navigate to the AIT CD.
4. Navigate to the folder **AIT_v2.1**. Double-click on the file **AIT 2.exe**.

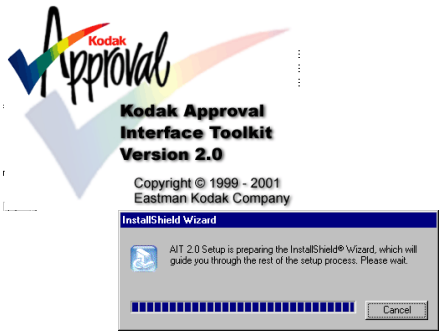
   The Extracting Files window appears to show the progress of the file extraction.

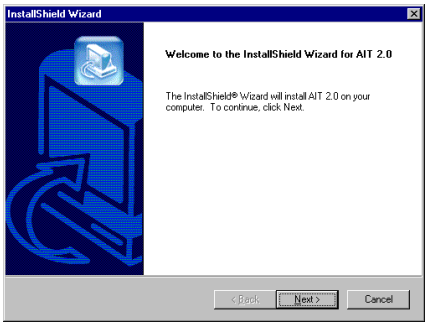


NOTE: Click **Cancel** at any time to stop the installation.

When the files have been extracted, the AIT Version window and the InstallShield Wizard window appear.

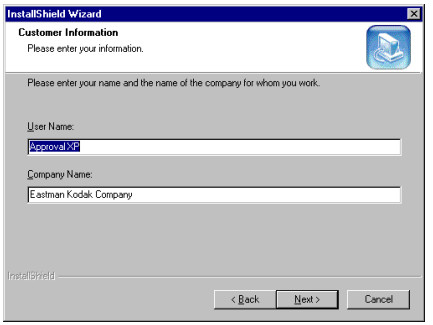
When the InstallShield Wizard is prepared, the Welcome window automatically appears.





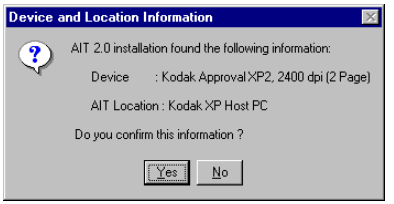
5. Click **Next**.

   The Customer Information window appears.



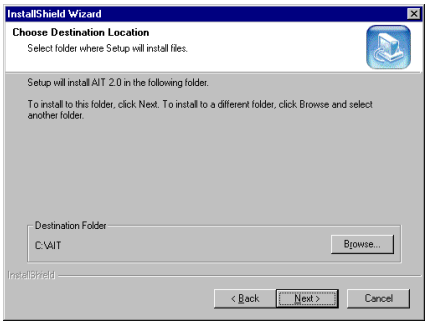
6. Enter the User Name and Company Name in the text boxes.
7. Click **Next**.

   The Device and Location Information window appears.



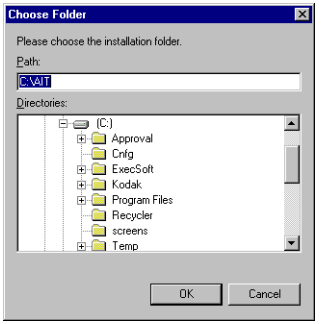
8. Verify the model of the *KODAK APPROVAL* XP/XP4 device to which you will be connecting.
9. Click **Yes**.

   The Choose Destination Location window appears.

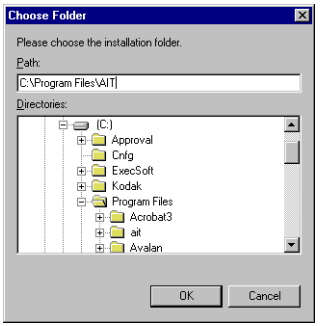


10. Click **Browse**.

    The Choose Folder window appears.

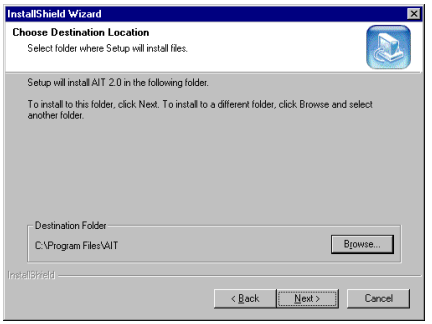


11. Browse to **C:Program Files**.
12. Add the file **\AIT**.



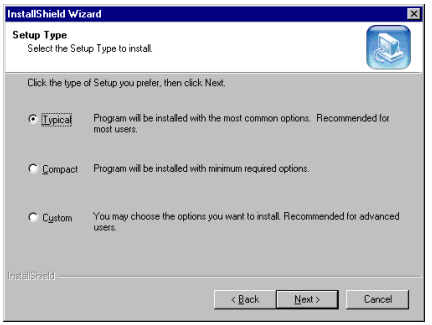
13. Click **OK**.

    The new folder appears as the Destination Folder in the Choose Destination Location window.



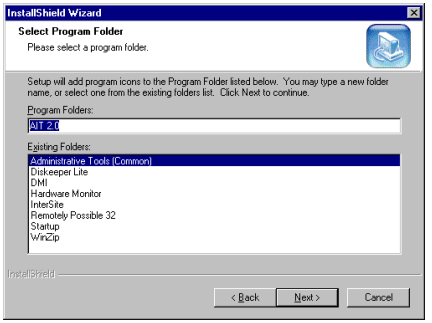
14. Click **Next**.

    The Setup Type window appears.



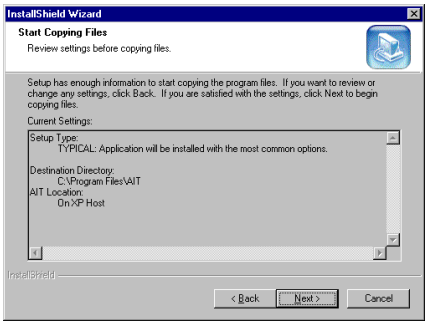
15. Select **Typical**.
16. Click **Next**.

    The Select Program Folder window appears.



17. Click **Next**.

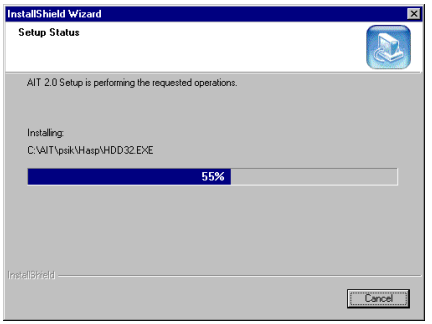
    The Start Copying Files window appears.

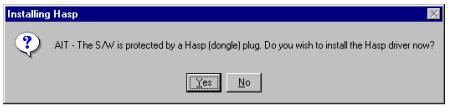


18. Click **Next**.

    The Setup Status window appears with a status bar to show the progress of the load procedure.

    Upon completion of the software load, the HASP window appears.



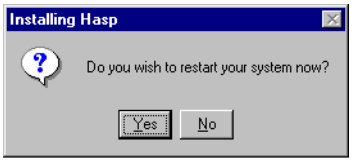


19. Click **Yes**.

    The status window appears briefly, and then the completion window appears.

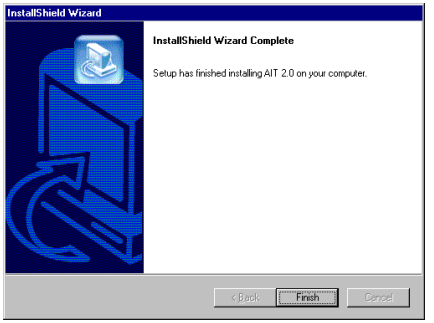
20. Click **OK**.

    The Installing Hasp window appears to ask if you want to restart the system.



21. Click **Yes**.

    The InstallShield Wizard Complete window appears.



22. Click **Finish**.

    The System restarts.

23. Log on to the system as the **APS** user.

    The first time you log on after installation, the RIP ID Font window opens.

24. Launch the *KODAK APPROVAL* host software.

25. Click **OK**.

    This launches the *APPROVAL* Device Type Wizard. See “Defining the Device Setup” on page 17.

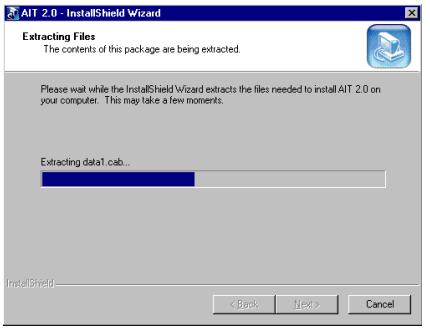
Installing the AIT Software on a Separate PC

1. Start the PC and log on.
2. Insert the AIT software CD into the CD-ROM drive.
3. Open Explorer and navigate to the AIT CD.
4. Double-click on the file:

   AIT_xxxxxx\AIT 2.exe

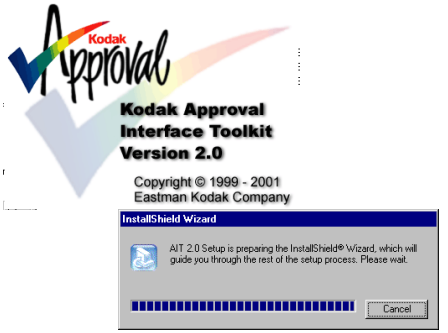
   Where **xxxxxx** is a date in month-day-year format.

   The Extracting Files window appears to show the progress of the file extraction.

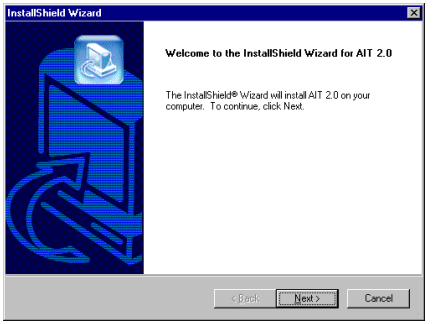


NOTE: Click **Cancel** at any time to stop the installation.

When the files have been extracted, the AIT Version window and the InstallShield Wizard window appear.

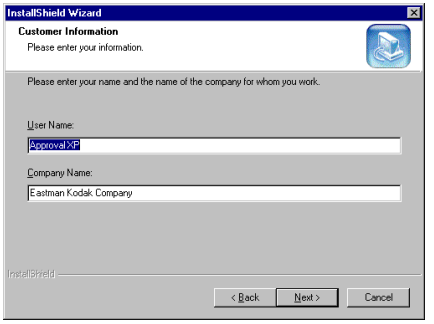


When the InstallShield Wizard is prepared, the Welcome window automatically appears.



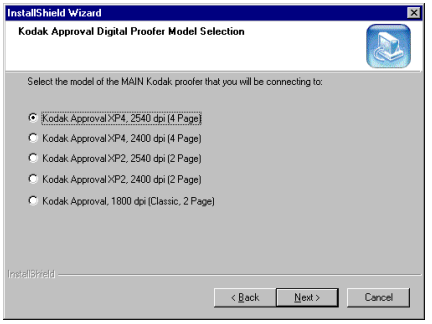
5. Click **Next**.

   The Customer Information window appears.



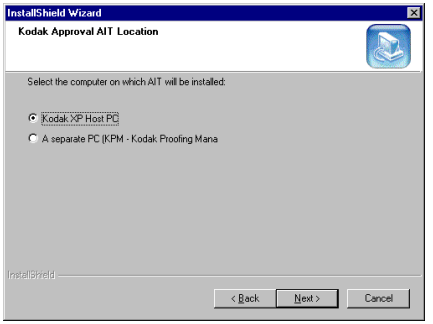
6. Enter the User Name and Company Name in the text boxes.
7. Click **Next**.

   The *KODAK APPROVAL* Digital Proofer Model Selection window appears.



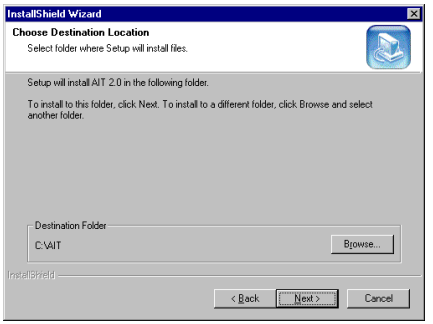
8. Select the model of the *KODAK APPROVAL* XP/XP4 device to which you will be connecting.
9. Click **Next**.

   The AIT Location window appears.



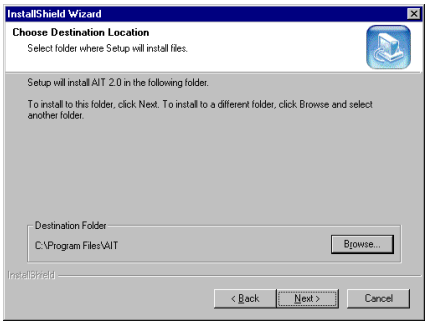
10. Select **A separate PC**.
11. Click **Next**.

    The Choose Destination Location window appears.



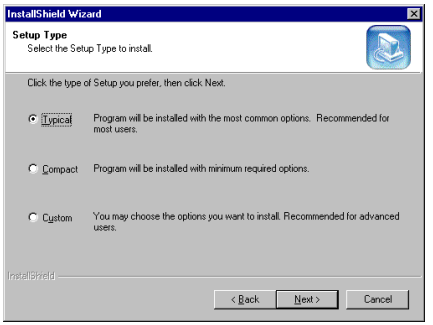
12. Click **Next**.

    The Choose Folder window appears.



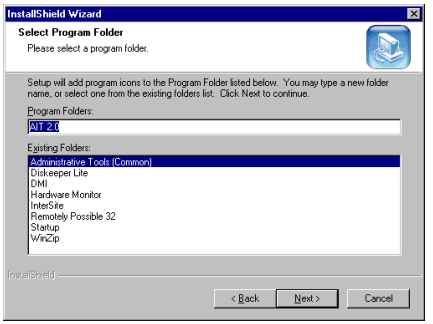
13. Click **Next**.

    The Setup Type window appears.



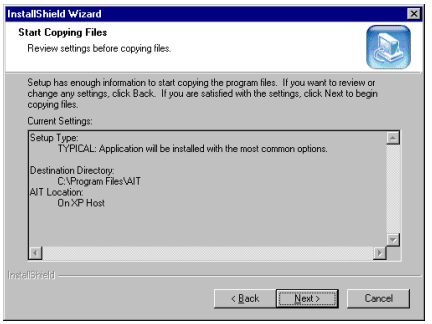
14. Select **Typical**.
15. Click **Next**.

    The Select Program Folder window appears.



16. Click **Next**.

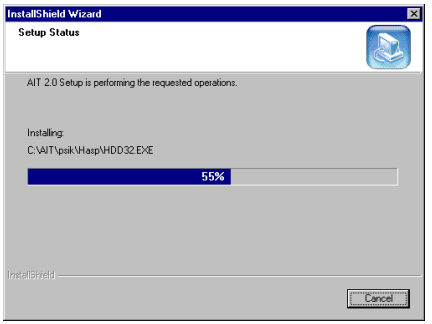
    The Start Copying Files window appears.

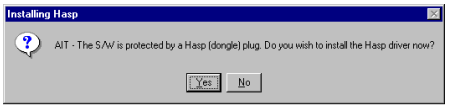


17. Click **Next**.

    The Setup Status window appears with a status bar to show the progress of the load procedure.

    Upon completion of the software load, the HASP window appears.



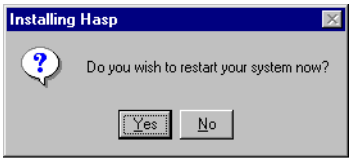


18. Click **Yes**.

    The status window appears briefly, and then the completion window appears.

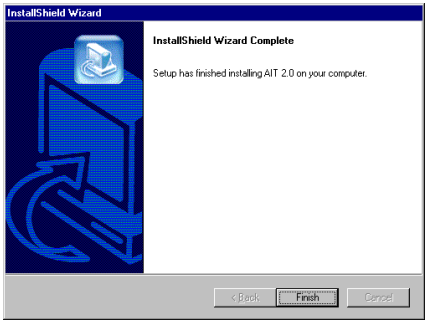
19. Click **OK**.

    The Installing Hasp window appears to ask if you want to restart the system.



20. Click **Yes**.

    The InstallShield Wizard Complete window appears.



21. Click **Finish**.

    The System restarts.

22. Log on to the system as the **Administrator**.

    The first time you log on after installation, the RIP ID Font window opens.

23. Make sure the *KODAK APPROVAL* host software is up and running.

    NOTE: You must have the *KODAK APPROVAL* host IP address to complete the installation.

24. Click **OK**.

    This launches the *APPROVAL* Device Type Wizard. See “Defining the Device Setup” on page 17.

Appendix B
Proofing Parameter Files

The following pages contain examples of three proofing parameter files:

- .ini
- modified .ini
- template.txt

Example of an .ini File

```
[general]
VersionNumber=2.00
NumberOfSeparations=4
XPosition=0
YPosition=0
Copies=1
FastScanSize=20416
SlowScanSize=26400
Resolution=2400
MediaSavingFlag=0
[DonorMapping]
Donor1=EuroCyan
TransparencyDonor1=1
OrderOfDonor1=1
Donor2=Magenta
TransparencyDonor2=1
OrderOfDonor2=2
Donor3=Yellow
TransparencyDonor3=1
OrderOfDonor3=3
Donor4=Black
TransparencyDonor4=1
OrderOfDonor4=4
[1]
FileName=E:\APPROVAL_out\Spotcolor_tile_test_qxd0_1.fcy
SeparationName=Cyan
DonorNr=1
RecipeColor=0
DensityDonor1=2
ScreenRuling=143
Angle=15
Speed=0
.
.
.
```

The file continues with information for the remaining separations.

Example of a Modified .ini File

```
[general}
VersionNumber=3.00
NumberofSeparations=6
Copies=1
FastScanSize=9600
SlowScanSize=9600
Resolution=2400
Creator=agfa

[1]
FileName=sixSeps_124__1_Front_Cyan.tif
SeaparationName=Cyan
[2]
FileName=sixSeps_124__1_Front_Magenta.tif
SeparationName=Magenta
[3]
FileName=sixSeps_124__1_Front_Yellow.tif
SeparationName=Yellow
[4]
FileName=sixSeps_124__1_Front_Black.tif
SeparationName=Black
[5]
FileName=sixSeps_124__1_Front_AdobeGreen.tif
SeparationName=AdobeGreen
[6}
FileName=sixSeps_124__1_Front_AgfaOrange.tif
SeparationName=AgfaOrange
```

Example of a Template .txt File

```
[general}
VersionNumber=3.00
NumberofSeparations=16
XPosition=0
YPosition=0
Copies=1
Resolution=2540
MediaSavingFlag=1
DeviceName=Approval XP4 2540
AITDonorMappingName=default.txt
UseAITLaydownOrder=0
DeleteOnSuccess=0
DeleteOnError=0
SuccessMoveDir=E:\input_150\Done
ErrorMoveDir=E:\input_150\Error
[DonorMapping]
Donor1=Cyan
TransparencyDonor1=1
OrderOfDonor1=1
Donor2=Magenta
TransparencyDonor2=1
OrderOfDonor2=2
Donor3=Yellow
TransparencyDonor3=1
OrderOfDonor3=3
Donor4=Black
TransparencyDonor4=1
OrderOfDonor4=4
Donor5=Fifth
TransparencyDonor5=1
OrderOfDonor5=5
Donor6=Sixth
TransparencyDonor6=1
OrderOfDonor6=6
[1}
FileName=
SeparationName=Cyan
RecipeColor=0
Density=0
ScreenRuling=150
```

```
Angle=15
Speed=0
[2]
FileName=
SeparationName=Magenta
RecipeColor=0
Density=0
ScreenRuling=150
Angle=75
Speed=0
[3]
FileName=
SeparationName=Yellow
RecipeColor=0
Density=0
ScreenRuling=150
Angle=0
Speed=0
[4]
FileName=
SeparationName=Black
RecipeColor=0
Density=0
ScreenRuling=150
Angle=45
Speed=0
[5]
FileName=
SeparationName=Recipe1
RecipeColor=1
Density=0
ScreenRuling=150
Angle=45
Speed=0
.
.
.
```

The file continues with information for the remaining separations.

Appendix C
AIT Workflow Configurations

This appendix contains tables that explain the steps required to configure AIT for various workflows. Each table includes references to appropriate procedures within this manual. For the most part, the workflows are defined by the files supplied by the RIP, and include the following:

- TIFF/.ini
- Modified TIFF/.ini
- DCS2

In addition, a workflow for the Rotation and Tiling feature is also included. This workflow applies to all file types that use a tiling scheme.

These workflows apply to an AIT installed on the KODAK APPPROVAL XP/XP4 host. For information on installing AIT on the host see “Installing the AIT Software on the Host” on page 100.

TIFF/.ini File Workflow Configuration

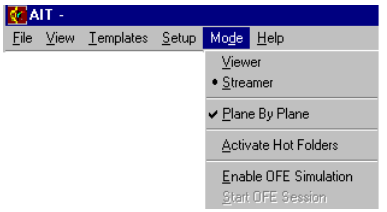
The AIT accepts the following one-bit TIFF file formats:

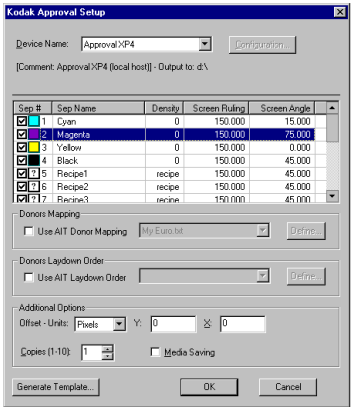
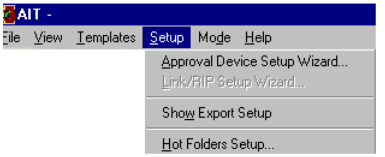
- Uncompressed
- Group 3 compressed
- Pack Bit compressed

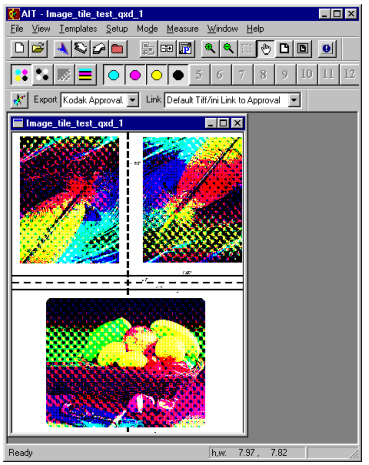
NOTE: All recipe color parameter information is included in the .ini file.

See “Example of an .ini File” on page 114.

Steps	Reference
1. Preliminary set up: NOTE: We highly recommend using a second network card in the RIP computer and a crossover cable between the host and RIP computers. • Power up the *APPROVAL* XP/XP4 host and log on as **Administrator** • Set the *APPROVAL* XP/XP4 host IP Address to **192.168.0.1** and the RIP’s second network card IP Address to **192.168.0.2** NOTE: Get the proper ID from your local network administrator. • Establish network communication between the RIP and the *APPROVAL* XP/XP4 host	

Steps	Reference
2. Create the RIP output folders on the RIP computer. The RIP uses these folders to output files, and these same folders are used as the AIT input folders. This procedure is usually performed by the RIP vendor.	
3. Install the Dongle and AIT software in the **C:\Program Files\AIT** folder	See “Installing the AIT Software on the Host” on page 100.
4. Select **Streamer** and **Plane By Plane** from the Mode menu. 	
5. Create donor laydown order templates. NOTE: These templates are applied during hot folder set up.	See “Donor Laydown Order” on page 54.
6. Create donor mapping templates. NOTE: These templates are applied during hot folder set up.	See “Donor Mapping” on page 52.
7. Set up and activate the hot folders. The AIT is now ready to transfer to the *APPROVAL* XP/XP4 host via OFE.	See “Setting Up Hot Folders” on page 20.

Steps	Reference
8. Enter a test file or copy a test file into the input folder. Remember to copy the separations before copying the .ini file. Once all files are in the input folder, the AIT waits 5 seconds before the job starts transferring.	
9. Because **Show Export Setup** is selected during the hot folder set up procedure, the *KODAK APPROVAL* Setup window appears.  10. Verify the settings and click **OK** to start the OFE transfer. 11. To return to total automation, go to the setup menu and de-select **Show Export Setup**.  	

Steps	Reference
12. When the transfer starts, the AIT Preview window displays the first color separation a line at a time.  13. Check the *KODAK APPROVAL* XP/XP4 host queue manager to verify that the job is being transferred. The AIT is now configured and ready to proof TIFF/.ini files.	

Modified TIFF/.ini File Workflow Configuration

The AIT accepts the following one-bit TIFF file formats:

- Uncompressed
- Group 3 compressed
- Pack Bit compressed (recommended)

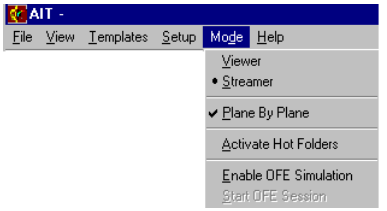
NOTE: To set up for a modified TIFF/.ini workflow, you must create a template.txt file for the AIT input folder. Template.txt files are used to set the ruling, density, and angles. Recipe color parameters come from the list of Pantone and user-defined recipes the AIT uses.

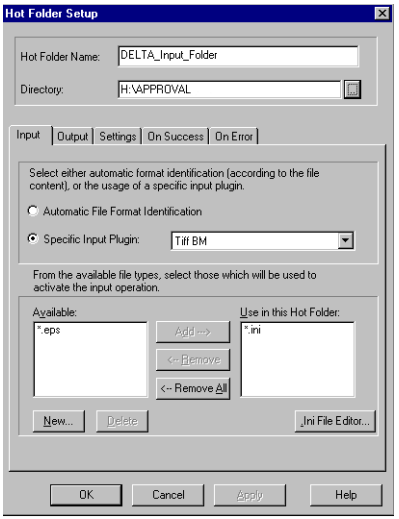
The modified .ini file includes the following parameters:

- Number of separations
- Fast Scan size in pixels
- Slow scan size in pixels
- Resolution
- Type of RIP that created the file
- File name
- Separation name

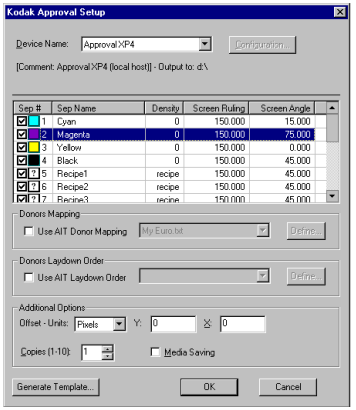
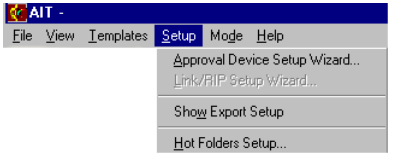
See “Example of a Modified .ini File” on page 115.

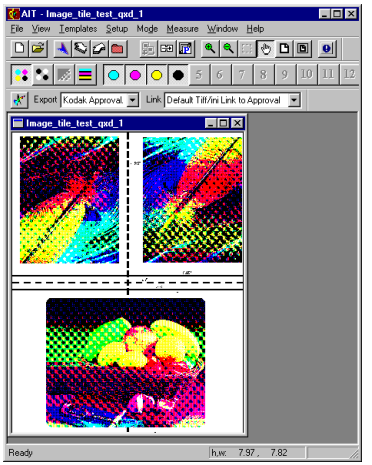
Steps	Reference
1. Preliminary set up: NOTE: It is highly recommended to use a second network card in the RIP computer and a crossover cable between the host and RIP computers. • Power up the *APPROVAL* XP/XP4 host and log on as **Administrator** • Set the *APPROVAL* XP/XP4 host IP Address to **192.168.0.1** and the RIP's second network card IP Address to **192.168.0.2** NOTE: Get the proper ID from your local network administrator. • Establish network communication between the RIP and the *APPROVAL* XP/XP4 host	
2. Create the RIP output folders on the RIP computer. The RIP uses these folders to output files, and these same folders are used as the AIT input folders. This procedure is usually performed by the RIP vendor.	
3. Install the Dongle and AIT software in the **C:\Program Files\AIT** folder	See "Installing the AIT Software on the Host" on page 100.
4. Start the *KODAK APPROVAL* XP/XP4 host software. 5. Start the AIT application.	

Steps	Reference
6. Select **Streamer** and **Plane By Plane** from the Mode menu. 	
7. Create donor laydown order templates. NOTE: Under the output tab, these templates are applied during hot folder set up.	See “Donor Laydown Order” on page 54.
8. Create donor mapping templates. NOTE: These templates are applied during hot folder set up.	See “Donor Mapping” on page 52.

Steps	Reference
9. Set up and activate the hot folders. The AIT is now ready to transfer to the *APPROVAL* XP/XP4 host via OFE.  The Specific Input Plugin should be **TIFF BM**. The input trigger file type extension should be ***.ini** for Tiff BM.	See “Setting Up Hot Folders” on page 20.

Steps	Reference
10. Create a template.txt file to apply to the AIT input folder. NOTE: The template.txt file is used to set the ruling, density, angles X and Y offset, number of copies, and media savings. During hot folder set up the RIP's drive that was shared will be automatically mapped on the *KODAK APPROVAL* XP/XP4 host.	See "Creating Templates" on page 26.
11. Enter a test file or copy a test file into the input folder. Remember to copy the separations before copying the .ini file. Once all files are in the input folder, the AIT waits 5 seconds before the job starts transferring.	

Steps	Reference
12. Because **Show Export Setup** is selected during the hot folder set up procedure, the *KODAK APPROVAL* Setup window appears.  13. Verify the settings and click **OK** to start the OFE transfer.	
14. To return to total automation, go to the setup menu and de-select **Show Export Setup**.  	

Steps	Reference
15. When the transfer starts, the AIT Preview window displays the first color separation a line at a time.  16. Check the *KODAK APPROVAL* XP/XP4 host queue manager to verify that the job is being transferred. The AIT is now configured and ready to proof modified TIFF/.ini files.	

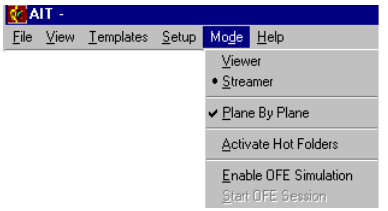
DCS2 File Workflow Configuration

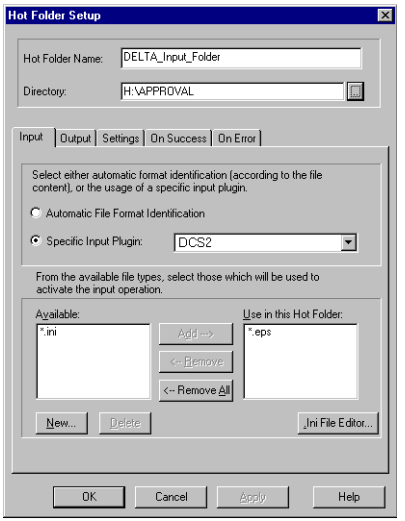
The AIT accepts the following single DCS2 file formats:

- RLE compressed (recommended)
- Pack Bit compressed (recommended)

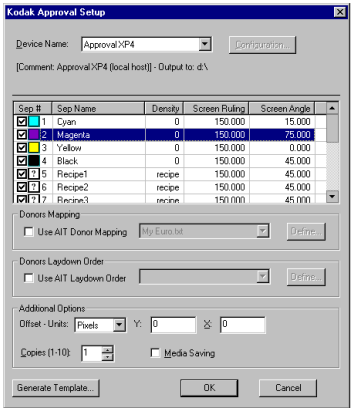
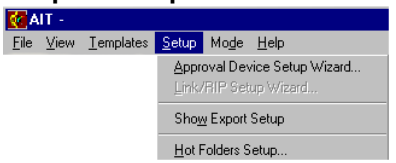
NOTE: To set up for a DCS2 workflow, you must create a template.txt file for the AIT input folder. Template.txt files are used to set the ruling, density, and angles. Recipe color parameters come from the list of Pantone and user-defined recipes the AIT uses.

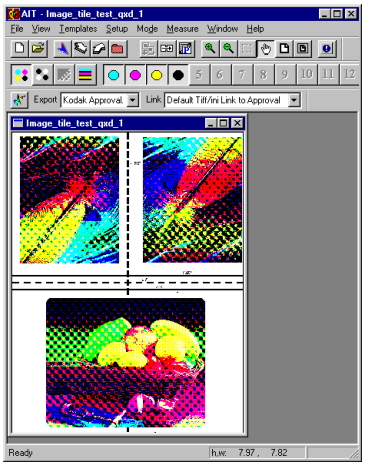
Steps	Reference
1. Preliminary set up: NOTE: We highly recommend using a second network card in the RIP computer and a crossover cable between the host and RIP computers. • Power up the *APPROVAL* XP/XP4 host and log on as **Administrator** • Set the *APPROVAL* XP/XP4 host IP Address to **192.168.0.1** and the RIP's second network card IP Address to **192.168.0.2** NOTE: Get the proper ID from your local network administrator. • Establish network communication between the RIP and the *APPROVAL* XP/XP4 host NOTE: Sometimes a user account for the RIP computer will need to be added to the *KODAK APPROVAL* XP/XP4 host	

Steps	Reference
2. Create the RIP output folders on the RIP computer. The RIP uses these folders to output files, and these same folders are used as the AIT input folders. This procedure is usually performed by the RIP vendor.	
3. Install the Dongle and AIT software in the **C:\Program Files\AIT** folder	See “Installing the AIT Software on the Host” on page 100.
4. Start the *KODAK APPROVAL* XP/XP4 host software. 5. Start the AIT application.	
6. Select **Streamer** and **Plane By Plane** from the Mode menu. 	
7. Create donor laydown order templates. NOTE: These templates are applied during hot folder set up.	See “Donor Laydown Order” on page 54.
8. Create donor mapping templates. NOTE: Under the Output tab, these templates are applied during hot folder set up.	See “Donor Mapping” on page 52.

Steps	Reference
9. Set up and activate the hot folders. The AIT is now ready to transfer to the *APPROVAL* XP/XP4 host via OFE.  The Specific Input Plugin should be **DCS2**. The image trigger file type extension should be ***.eps** for DCS2.	See “Setting Up Hot Folders” on page 20.

Steps	Reference
10. Create a template.txt file to apply to the AIT input folder. NOTE: The template.txt file is used to set the ruling, density, angles X and Y offset, number of copies, and media savings. During hot folder set up the RIP's drive that was shared will be automatically mapped on the *KODAK APPROVAL* XP/XP host.	See "Creating Templates" on page 26.
11. Enter a test file or copy a test file into the input folder. Remember to copy the separations before copying the .ini file. Once all files are in the input folder, the AIT waits 5 seconds before the job starts transferring.	

Steps	Reference
12. Because **Show Export Setup** is selected during the hot folder set up procedure, the *KODAK APPROVAL* Setup window appears.  13. Verify the settings and click **OK** to start the OFE transfer.	
14. To return to total automation, go to the setup menu and de-select **Show Export Setup**.  	

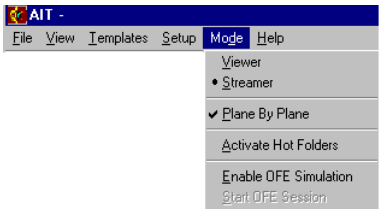
Steps	Reference
15. When the transfer starts, the AIT Preview window displays the first color separation a line at a time.  16. Check the *KODAK APPROVAL* XP/XP4 host queue manager to verify that the job is being transferred. The AIT is now configured and ready to proof TIFF/.ini files.	

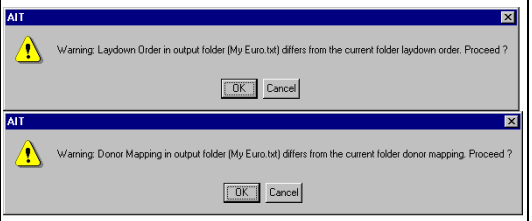
Rotation and Tiling Workflow Configuration

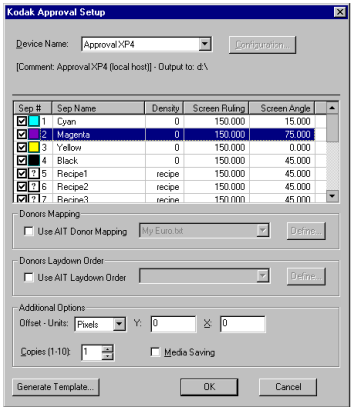
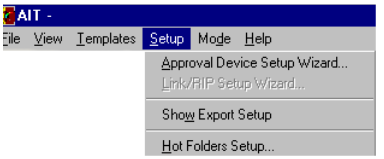
The rotation and tiling workflow configuration is the same for the following file types:

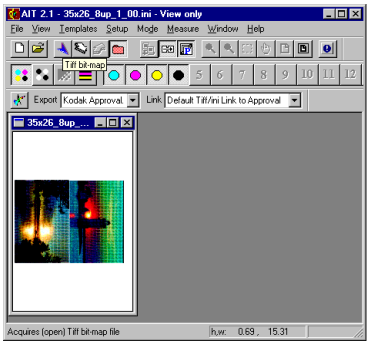
- TIFF/.ini
- Modified TIFF/.ini
- DCS2.

Steps	Reference
1. Preliminary set up: NOTE: We highly recommend using a second network port in the RIP computer. Also, use crossover cables between the rotation and tiling PC and RIP computer, and between the rotation and tiling PC and the host. • Power up the rotation and tiling PC and log on as **Administrator**. • Based on the recommended preliminary set up, verify the IP addresses: *APPROVAL* XP/XP4 host set to **192.168.0.1**, rotation and tiling PC port connected to the host set to **192.168.0.2**, rotation and tiling PC port connected to the RIP set to **192.168.0.3**, RIP port connected to rotation and tiling PC set to **192.168.0.4** (only for RIP with second network port). • Establish network communication between the rotation and tiling PC and the *APPROVAL* XP/XP4 host.	

Steps	Reference
2. Create the RIP output folders on the RIP computer. The RIP uses these folders to output files, and these same folders are used as the AIT input folders. This procedure is usually performed by the RIP vendor.	
3. Install the Dongle and AIT software in the **C:\AIT** folder.	See “Installing the AIT Software on a Separate PC” on page 106.
4. Select **Streamer** and **Plane By Plane** from the Mode menu. 	
5. Create donor laydown order templates. NOTE: These templates are applied during hot folder set up.	See “Donor Laydown Order” on page 54.
6. Create donor mapping templates. NOTE: These templates are applied during hot folder set up.	See “Donor Mapping” on page 52.
7. Create a tiling template. NOTE: These templates are applied during hot folder set up.	See “Defining a Tiling Template” on page 59.

Steps	Reference
8. Create a **Tiling Results** folder on the rotation and tiling PC. Put this folder on the drive not shared with the operating system (usually E).	
9. Set up these hot folders: • One Output hot folder that takes files from Tiling Results and sends them to the *APPROVAL* XP/XP4 system • One **Tiling Results** hot folder NOTE: Donor Mapping and donor laydown order must be synchronized between the hot folders. If not, you will receive an error message. 	See “Setting Up Hot Folders” on page 20. See “Applying a Tiling Template to a Hot Folder” on page 61.
10. On the AIT CD, navigate to the folder **IMAGES/PS_Images**. Choose one of the images (**25x38_landscape.ps** or **25x38_portrait.ps**) and have it sent through the RIP. The RIPed file should then be located in the AIT input folder.	
11. Activate hot folders. The Rotation and Tiling feature converts all file formats to TIFF/.ini.	See “Setting Up Hot Folders” on page 20.

Steps	Reference
12. Because **Show Export Setup** is selected during the hot folder set up procedure, the *KODAK APPROVAL* Setup window appears.  13. Verify the settings and click **OK** to start the rotation and tiling. 14. The Show Export Setup window appears again. Verify the settings and click **OK** to start OFE transfer. 15. Repeat steps 13 and 14 for the second tile. 16. To return to total automation, go to the setup menu and de-select **Show Export Setup**. 	

Steps	Reference
17. When the transfer starts, the AIT Preview window displays the first color separation a line at a time.  18. Check the *KODAK APPROVAL* XP/XP4 host queue manager to verify that the job is being transferred. The AIT is now configured and ready to proof using the Rotation and Tiling feature.	

Glossary

***APPROVAL* XP/XP4 device**	Inclusive term for two products: *KODAK APPROVAL* XP Digital Color Proofing System (two page proofer) and *KODAK APPROVAL* XP4 Digital Color Proofing System (four page proofer).
ATC files	Intermediate files needed for proofing. ATC files are transparent to the operator.
DCS2 file	Type file format generated by a RIP and sent to the AIT for proofing.
DFE	(Digital Front End) Any external RIP that can be connected to the AIT for the purpose of proofing to a *KODAK APPROVAL* XP/XP4 Color Proofing System.
HASP (dongle)	(Hardware Against Software Piracy) Device that copy-protects and enables the AIT software. The HASP is plugged into the parallel port of the PC on which the AIT software is installed. The HASP is also called a dongle.
hot folder	Directory that enables the automatic transfer of TIFF/ini files from the RIP to your *KODAK APPROVAL* XP/XP4 Color Proofing System.
.ini file	Provides proofing parameters for proofing a TIFF file.

OFE (Open Front End) Computer or proofing system that accepts multiple front-end packages for producing proofs.

proofing parameters Proofing data contained in an .ini file that include:
Path to individual separation, CMYK
Screen ruling
Angles
Lay down order
Donor mapping
File height and width

SWOP (Specifications for Web Offset Publications) Standard set of guidelines used to evaluate original copy, film reproductions, proofs, printing plates, and press sheets. Also a set of specifications for color separation films and color proofing to ensure consistent color appearance between different publications.

TIFF/.ini Interface by which the external RIP provides the AIT with a TIFF file and proofing data, in the structure of an .ini file. The AIT converts the file, then outputs to the *KODAK APPROVAL* XP/XP4 Digital Color Proofing System.

Index