

TechPool

Transverter RIP 2.2

For Fujifilm Pictography and Pictostat Digital Printers

User Guide



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TechPool Transverter RIP 2.2 User Guide

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Introduction

Welcome to Transverter RIP 2.2 *Color Managed Print Solution and RIP* *for the Pictrography 3000, 4000, and Pictrostat Digital 400*

Reach a new dimension using your Pictrography 3000, 4000, or Pictrostat Digital 400

1. Make high quality PostScript prints you are proud to send customers and clients.
2. Print PostScript directly from any Macintosh application.
3. Drag & Drop prepared PostScript, EPS, and PDF files for printing.
4. Directly print TIFF and JPEG files.
5. Apply color matching profiles for outstanding images and prints.

Transverter RIP 2.2 was designed to work directly with your Pictrography 3000, 4000, or Pictrostat Digital (PSD) 400 printer. Transverter RIP 2.2 is an application and system of components that smoothly integrate with your Macintosh.

The Transverter's components are:

- Transverter RIP 2.2 - The application program.
- T-RIP Monitor - A system extension.
- T-RIP Writer 3000, 4000, 4000 JE, PSD 400, and 400 JE - printer drivers.
- T-RIP Pictrography 3000 PPD, T-RIP Pictrography 4000 PPD, T-RIP Pictrography 4000 JE PPD, T-RIP PSD 400 PPD, and PSD 400 JE PPD - PPDs (PostScript Printer Descriptions) for Quark & PageMaker.
- T-RIP Core - A PostScript Level 2 interpreter and RIP.
- A collection of ColorSync input and output profiles.

~ Most of these components serve in a behind-the-scenes support role to make the product work for you.~





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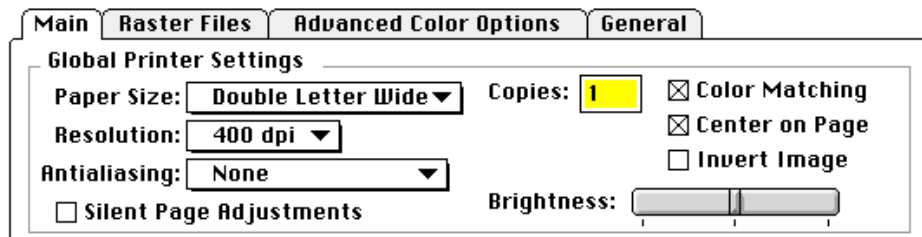
Chapter 1 - Quick Start

Transverter RIP

1. Use the installation CD supplied and run the Transverter Installer. Details can be found in Installation & Configuration beginning on page 15.



2. Open the program by double clicking on the Transverter icon. In **File**, located in the **Main Menu**, choose **Preferences**. Preferences is not available if the printer is Off. This is the Preferences **Main** dialog box:



***Note:** The Paper Size pop-up only displays paper sizes that are available for the installed paper. For example, with Double Letter Wide paper installed in the printer, you may choose Double Letter Wide (imageable area-12.17” x 18.07”) or Letter Wide (imageable area-12.17” x 9.81”) for printing.

3. Make the necessary adjustments to:
 - **Resolution** • **Anti-aliasing** • **Number of Copies**Initially, the other choices can be left at their default settings.

Center on page

Centers the image on the page, otherwise the left lower corner is used as the image start position.

Quick Start

Invert Image

Image colors will be inverted.

Silent Page Adjustments

This will turn on automatic scaling if the image will not fit on the paper size selected. Otherwise warning messages will be given to inform you if scaling needs to occur to fit a print on a page.

Brightness

Adjusts image brightness.

On the bottom half of the Main Preferences tab you will see:



EPS File Orientation - choose Portrait, Landscape, or Orient by Width. The Orient by Width will automatically place the longest side of an EPS image to align with the paper height. This gives the largest image size and reduced consumable usage.

EPS Image Scaling - choose Off, Maximize Size or Maximize Resolution.

Off - Transverter RIP will attempt to print the EPS image, without scaling, using the resolution that is selected in the Global Printer Settings. However, Transverter RIP will still make adjustments to scaling and resolution if the image is too large to fit within the page's imageable area. Imageable area is dictated by a combination of paper size, resolution, and how much internal memory the printer has.

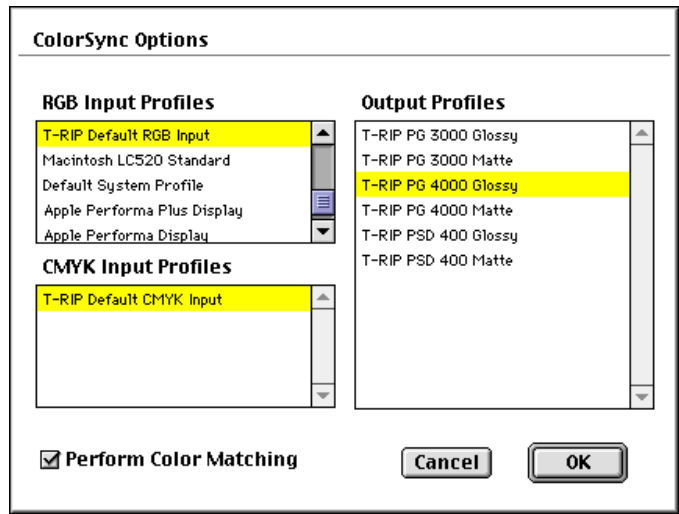
Maximize Size - If the EPS image is larger than the page's imageable area, it will be scaled down (reduced in size) to fit. If the EPS image is smaller than the page's imageable area, it will be scaled up (magnified) to fit. The resolution that is selected in the Global Printer Settings will always be used.

.....

Maximize Resolution - The highest resolution supported by the printer will always be used. If the EPS image is larger than the page's imageable area, it will be scaled down to fit. If the EPS image is smaller than the page's imageable area, no scaling will be done.

- Now, choose **ColorSync Options** from the **File** menu. Select the Input Profiles and the Output Profile. Input Profiles can be left at default settings, but an Output Profile must be selected to match your printer and paper. Check **Perform Color Matching** to apply your profiles.

***Note:** If you do not wish to use color matching profiles do not check **Perform Color Matching**.



- Go to the Chooser and select the T-RIP printer driver. You are ready to make your first print using Transverter RIP.
- Open the document you want to print in any application. (Quark, PageMaker, Word, Illustrator, FreeHand, PowerPoint, etc.)

***Note:** Quark & PageMaker users should select the T-RIP Pictography 3000 PPD, 4000 PPD, 4000 JE PPD, PSD 400 PPD, or PSD 400 JE PPD and set the proper paper size.

Quick Start

7. From your application's **File** menu, choose **Print...**
8. Now verify that all the information in the Print Dialog box is correct.
***Note:** The Printer field which specifies the printer name may be blank. The FUJI printers are SCSI-based print device and are not recognized as a network printer by your Macintosh.
9. **Click Print.**
10. During the next few minutes, behind-the-scenes, a PostScript print file will be created and spooled to disk. When the spooling process is complete, Transverter automatically launches, RIPS the file, and then presents a Screen Preview.
11. **a.** If you are satisfied with the Screen Preview, **click Continue.**
b. If you want to do more work on the file before printing, **click Cancel Job.**
12. If you chose to print, you will see the **Printer Status Icon** in the Transverter Main Screen turn from looking like a printer, into an animated cursor while Transverter feeds the print stream to the unit. When the Printer Status icon reverts back to the printer image, Transverter has completed its task. The printer is now printing and developing your print.

Printer Status Icon



Printer is ready for printing.



Printer is busy processing a page.



Printer was not found on the SCSI chain. Make sure it is turned on, and use the Find Printer menu item.

Raster Printing Options

Printing TIFF or JPEG Files Using Transverter RIP

Clicking on the **Preferences**, then on the Raster Files tab, shows the following:



Automatic Resolution Adjustments

Make a selection here to let Transverter RIP automatically reduce your print resolution to allow an image to print on the page size you have chosen.

Silent Page Adjustments

Click this box if you do not need Transverter RIP to warn you when an automatic resolution adjustment will occur.

Raster Image Orientation

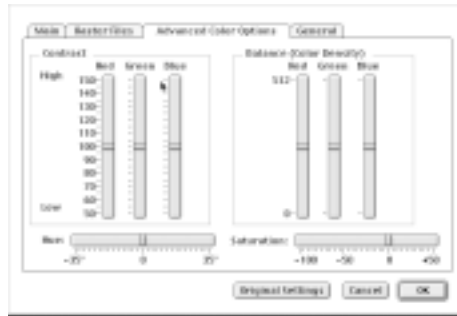
Orient by Width will automatically rotate the widest side of your raster file onto the longest edge of the paper.

Quick Start

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Advanced Color Options

To get started, the Advanced Color Options can be left on default.



General Options



This set of preferences does three things:

- a. Brings the Transverter RIP main window to the front of your desktop when the program is launched.
- b. Causes printing to wait for your approval after RIPPING the file to a Screen Preview. This provides a check of the print before actually printing the file and prevents consumable wastage due to poor print outs.
- c. Displays a Print Preview at 36dpi or 72 dpi.

Balloon Help

Balloon Help is built-in to each of the Transverter components. If you find yourself in need of information while working in Transverter, Balloon Help will come in handy. When you drag the mouse over different areas of the Transverter RIP, small message balloons will appear and give a description of that item.





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Chapter 2 - Installation & Configuration

System Requirements

To use the Transverter RIP you will need:

1. PowerPC Macintosh.
2. 150 megs hard disk space.
3. 12 megs of application RAM for Transverter RIP.
4. System 7.5 or better.
5. The font, Helvetica, must be installed in the System Folder.
6. The printer attached to the computer's SCSI port and turned on.

◆ **IMPORTANT** ◆

*Before using Transverter RIP you must configure the
Transverter RIP Preferences.
This insures you will get the best looking prints.*

Installation

The Transverter RIP CD contains the Installer program.

The following items will be installed:

- Transverter RIP 2.2 - The application program.
- T-RIP Monitor - A System Extension.
- T-RIP Writer 3000, 4000, 4000 JE, PSD 400, and 400JE - Printer Drivers.
- T-RIP Pictography 3000, T-RIP Pictography 4000 PPD, T-RIP Pictography 4000 JE PPD, T-RIP PSD 400 PPD, and PSD 400 JE PPD - PostScript Printer Descriptions.
- T-RIP Core - A PostScript Level 2 interpreter and RIP.
- A collection of ColorSync input and output profiles.
- TechPool T-RIP folder in the System folder where the RIP engine resides.

Before beginning installation, please make sure the following are completed:

- **Quit** all running applications.
 - **Restart** the machine with all Extensions Off. Select **Restart** from the **Special** menu, while **holding down** the **Shift** key until the message appears, "**Welcome to Macintosh Extensions Disabled,**" appears. Then **release** the **Shift** key.
1. Insert the CD into your CD-ROM drive.
 2. Locate and double-click the "**Transverter RIP Installer**" icon to begin the installation.
 3. The Transverter RIP Splash screen will appear. Click **Continue**.
 4. A "**Read Me**" dialog box will appear. Please read this because it contains last minute release notes. Click **Continue**.

Installation & Configuration

5. The install Dialog will appear. Choose which hard drive to install the application, then click the **Install** button.

You must Rebuild the Desktop after installation
(See "How to Rebuild the Desktop" Below)

6. When the installation is complete a dialog appears asking you to either Continue, Quit, or Restart. Choose **Restart** and **Rebuild the Desktop** during the start-up.

How to Rebuild the Desktop

To rebuild the desktop, hold down both the **Option & Command** (Option & ⌘) keys until a dialog appears stating, "**Are you sure you want to rebuild the Desktop?**" Release the keys and **click OK**. This very important step insures that Transverter RIP will identify all of its' component locations.



Chapter 3 - Printing

After successfully installing Transverter RIP you are now ready to begin making high quality PostScript prints. Here are step by step instructions on how to start the process.

There are three methods of activating Transverter RIP and creating prints:

1. Drag & Drop method
2. Select File... method
3. T-RIP Writer method

Drag & Drop method

The Drag & Drop method automatically launches Transverter when an EPS, PS, or PDF file is dragged onto the Transverter RIP application icon. This is a fast and convenient way to print a PostScript or EPS file.

1. Working on your Desktop, locate the Transverter RIP icon.
2. Find the PS or EPS file to be converted.
3. Click on the selected file icon and hold the mouse button down.
4. “Drag” (move) the file icon onto the Transverter RIP icon (causing the icon to highlight) and release the mouse button. This launches Transverter and RIPs the file.

An alternate technique of using the Drag & Drop method is:

1. Locate and double-click the **Transverter RIP** application.
2. After the Transverter window appears. Select and drag files onto the **Transverter File Queue area**.

Select File... method

The **Select File...** command is another way to choose files for Transverter.

1. Start the **Transverter RIP** application by double clicking on its icon. The Transverter RIP application window will appear.
***Note:** This sometimes takes a few moments while the PostScript interpreter initializes in the background.
2. From the menu go to **File > Select File...**, and a dialog box will appear.
3. Select a PostScript file to convert and click the **Open** button. Processing will begin.

Printing

T-RIP Writer method

The T-RIP Writers are PostScript printer drivers that allow the process of PostScript printing within an application (QuarkXPress, PageMaker, etc...) to your Fuji printer. This is done by selecting the **T-RIP Writer driver** from the **Chooser**. Then from the application menu go to **File > Print**. The T-RIP Writer writes the PostScript file to the PrintPrep Folder (System:TechPool T-RIP:PrintPrep Folder). The T-RIP Monitor then sees the file inside the PrintPrep Folder and launches Transverter RIP to process the file.

1. From the “**Apple menu**” go to the **Chooser**. The Chooser dialog box will appear displaying all of the printer drivers.
2. Locate and select the **T-RIP printer driver** by clicking once on the icon then close the **Chooser** window. After you close the Chooser window, a dialog box may appear stating that you have changed the printer. **Click OK**.
***Note:** No printers will appear in the selection window as typically occurs when choosing a printer available on your network.
3. Select an application and create or open a document in it.
4. Now go to **File > Print** from the menu. The Print Dialog box will appear. **Click Print**.

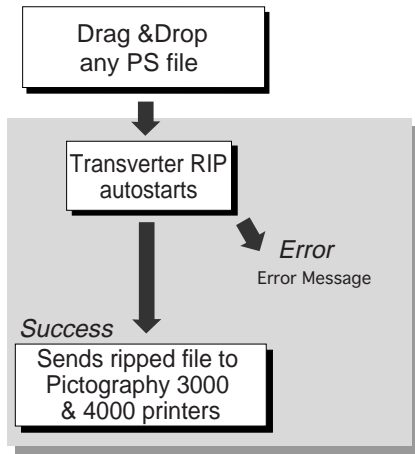
***Note to PageMaker Users:**

You must first hold down the **Option** key and then go to **File > Print**. This is because PageMaker attempts to communicate, by polling over the AppleTalk network, directly with the selected printer when you go to **File > Print**. This cannot occur when using Transverter RIP and the T-RIP printer driver because the Pictography 3000 or 4000 is not an AppleTalk device, it's a SCSI device.

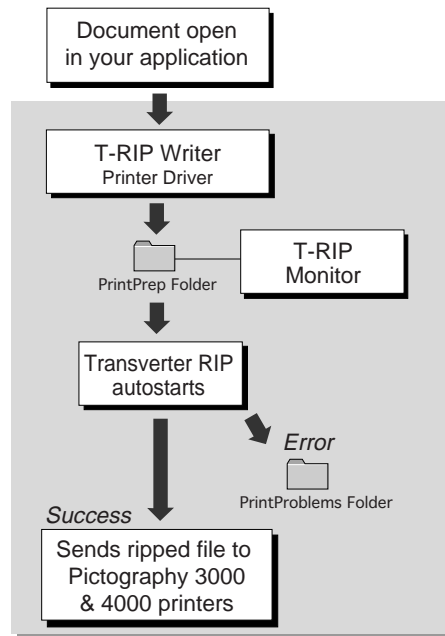
Transverter RIP Flow Chart

The most important thing to know about the Transverter RIP System is you can print to the T-RIP printer driver in the Chooser to get great looking PostScript output. In addition, you can Drag and Drop files onto the interface to print. Following is an example of the Transverter RIP Workflow for Drag & Drop as well as from an application.

**Transverter RIP Workflow
Drag & Drop**



**Transverter RIP Workflow
from an application**



Printing

Application and Network Printing using T-RIP Monitor

T-RIP Monitor is the Extension that gives you automatic printing from any Macintosh application and provides network wide printing through a Shared folder (System:TechPool T-RIP:PrintPrep) on your Apple network.

During normal operations the T-RIP Monitor watches the PrintPrep Folder for files to be processed. When a new file arrives, it is processed and printed. However, if Transverter RIP processing should stop, such as a Force Quit, a PostScript error, etc., then the file(s) remain in the PrintPrep Folder. *This is fine as long as you do not Restart the Macintosh.*

The T-RIP Monitor is intelligent and remembers the last 400 - 500 files that were processed. If a job stops and the file remains in the PrintPrep Folder the T-RIP Monitor knows it already attempted to process that file and does not reattempt to process it. *However, if you Restart the machine, than the T-RIP Monitor memory is re-zeroed (the memory is volatile and erased on Restart).* Hence, any files that are in the PrintPrep Folder on Restart will be reprocessed and again sent to Transverter RIP for printing.

To overcome any issues regarding the T-RIP Monitor re-zeroing on Restart we suggest you make an alias of the PrintPrep Folder and place it on your Desktop. This lets you easily check this folder for jobs that remain before you Restart. If by some event you forget to check the folder and Restart your Macintosh you may stop the printing process by pressing **Command-Period** (⌘.).

Network Printing

To print on the network just share the PrintPrep Folder (System:TechPool T-RIP:PrintPrep) via AppleShare on the network. Users on the network will see the folder and can Drag & Drop any EPS, PS, or PDF file here for printing on your Fuji printer.

To print from any application over the network install the appropriate T-RIP Writer on the networked machine. Then for printing choose the T-RIP Writer. Choose Print to File and specify the shared PrintPrep Folder as the location to write out the file. Once the file is printed (spooled) to the Shared folder it will output on the prompter.

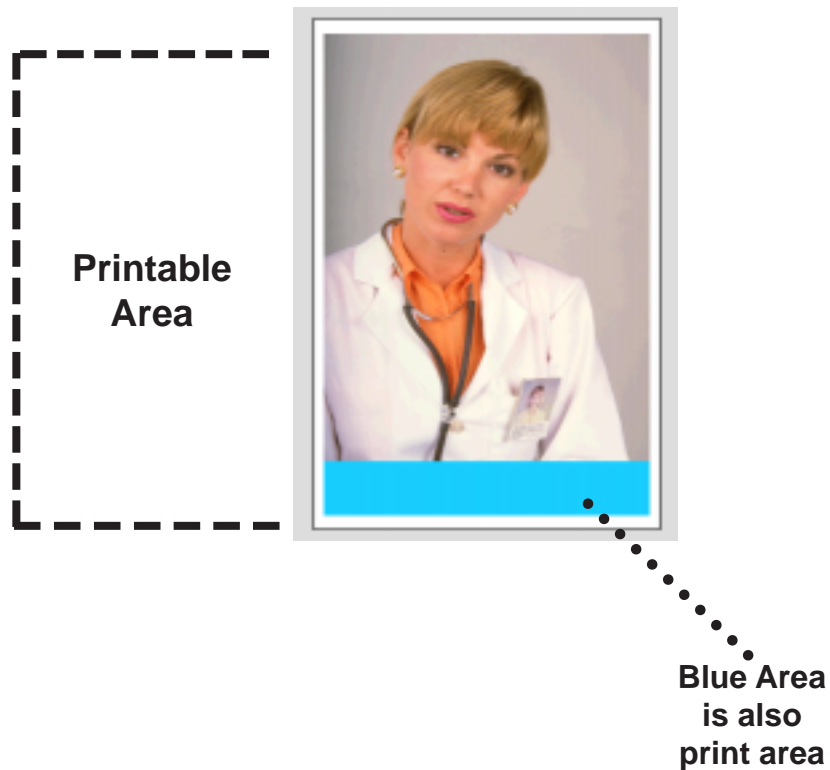


Handling TIFF and JPEG Files

Transverter RIP can print your TIFF and JPEG files directly without using Photoshop.

Use either the **(1) Drag & Drop** method or **(2) the Open File** method described earlier in this chapter.

There is a screen preview available for raster files. It supports showing your graphic on the page as it will print. The area that will print includes the blue area at the bottom of the preview. This “shrunk preview” occurs due to floating point processing rounding errors but your printed image will be contained in the Preview plus blue area.



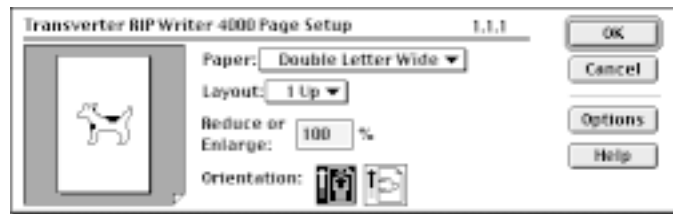
Printing

Transverter RIP Page Setup

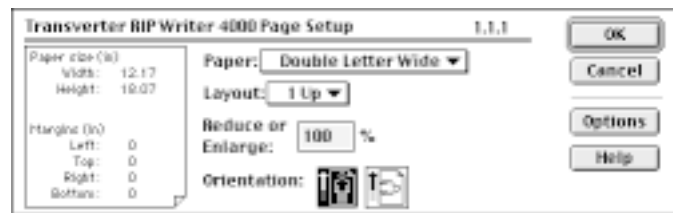
A PPD is included with Transverter RIP to provide printing support for Quark and PageMaker. Access it as you normally would for selecting a PPD.

The paper sizes and printable areas are also included in the T-RIP Writer driver. To access these and view the exact dimensions of the printable area do the following:

1. Go to the **Chooser** and select the **T-RIP Writer**. Remember that the usual printer selections that occurs on the right of this screen will not appear, it remains blank. Close the window.
2. Go to the Desktop. At the **File** menu go to **Page Setup...** to see this dialog:



3. Click on the Macintosh Dog-Cow icon (the doglike image in the middle of the paper). Here you will see the Page Size showing the imageable area and the margins are set to zero for printing. Use these numbers to setup pages you will be creating to print.



Chapter 4 - Transverter RIP System

Transverter RIP Main Components

Transverter RIP has several components to make an integrated system that provides high quality PostScript output.

1. Transverter RIP 2.2 - The Application



Transverter RIP 2.2

2. T-RIP Monitor - A System Extension

The T-RIP Monitor is a System Extension that is loaded on start-up and runs in the background. It monitors the PrintPrep Folder (System:TechPool T-RIP:PrintPrep Folder) for the appearance of PS files.

When a file is created by the T-RIP Writer, it writes the file to the PrintPrep Folder. When T-RIP Monitor detects the file it automatically starts Transverter RIP. You can turn the T-RIP Monitor off by dragging it out of the System Extensions folder and restarting your computer. Alternatively, go to the Extensions Manager and uncheck the T-RIP Monitor then restart your Macintosh.

3. T-RIP Writer



T-RIP Writer

There are special printer drivers for the Fuji printers. These customized printer drivers are designed to create a PostScript file from the open document in your running application. It writes out files to the PrintPrep Folder inside of the TechPool T-RIP folder and provides ColorSync support.

Transverter RIP System

4. The T-RIP Core



The Level 2 PostScript interpreter and RIP (Raster Image Processor).

5. T-RIP PPD (Printer Page Descriptions)

A PPD providing support for Quark and PageMaker users. Provides the ability to choose different paper sizes and margin settings.

Transverter RIP Supporting Components



PrintPrep Folder



PrintProblems Folder



PrintReady Folder

PrintPrep Folder

The PrintPrep Folder resides inside the TechPool T-RIP Folder. It is a temporary storage folder where the T-RIP Printer Driver places the spooled PostScript output file. When the file enters this folder, the T-RIP Monitor sees the file. The Transverter RIP then automatically starts, if it's not already running, and the Transverter RIP will process the file.

PrintReady Folder

Installed for future versions.

PrintProblems Folder

Installed for future versions.

*~ Next, we will walk you through the different features, functions and components ~
that the Transverter uses to make prints.*

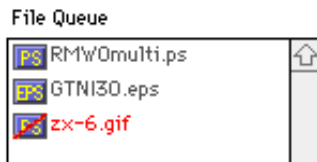
Detailed Transverter RIP System Instructions

Progress Window



Transverter's Progress Window consists of three sections. Each section gives specific information about the file conversion progress. A file that is being rasterized in Transverter goes through T-RIP Core (PostScript interpreter). Many variables are taken into consideration by T-RIP Core while the file is being processed. The Transverter Progress window displays information about the file type, name, validity and the T-RIP Core's progress.

1 - File Queue



The File Queue window lists the files that Transverter is processing. When a file is opened in Transverter, either by the **Select File...** command or by **Drag & Drop**, an icon with the file's name appears inside the File Queue. Transverter then automatically starts to convert the file.

Transverter RIP System

File Queue Status Colors

The File Queue shows conversion progress by displaying file names in different colors. When a file is *waiting in the queue to be converted*, the file name is displayed in **black**. While the file is *being converted*, the file name is displayed in **green**. When the file *has been converted*, the name is displayed in **gray**. If Transverter should encounter *an error* while trying to convert the file, the name is displayed in **red**.

- **Black** Job waiting
- **Green** Rasterizing in progress
- **Gray** Rasterized successfully
- **Red** Job aborted due to an error

File Queue Action Icons



- The File Queue icons are active. They show actions to serve as a visual aid.



- When a job is waiting in the queue to be converted, a question mark (?) icon appears next to the file name.

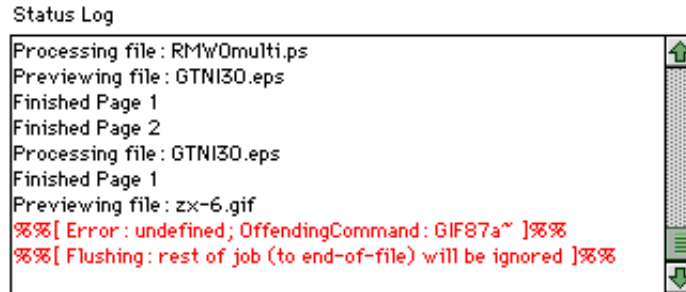


- When Transverter starts to process the file, the question mark icon is replaced with an EPS, PDF, or PS icon depending on the file type.



- If Transverter encounters an unreadable or incorrect file type, it displays a PS icon with a red slash through it. See the example of the zx-6.gif file in the File Queue on the facing page and the error message in the Status Log on the next page.

2 - Status Log



The Status Log displays information about the current file being processed. The information consists of Font substitution messages and any errors that Transverter RIP may have encountered while trying to rasterize the file.

The information in the Status Log window is color-coded. Font substitution messages are displayed in *blue*, error messages are shown in *red*, and all other processing information is listed in *black*.

For more information, see the *Status Log Messages* section later in this chapter.

3- Progress Indicator



The Progress Indicator gives a graphic view of the current file's conversion time. The empty space inside the bar represents the amount of time remaining in processing the file.

The Disclosure Triangle shows either the entire Transverter RIP Progress Window or just the Progress Indicator. Clicking on the triangle toggles the window between open and closed. When the triangle is pointing down, the Progress Window is fully expanded showing the File Queue and the Status Log. When it is pointing to the right, the Progress Window is reduced to just the Progress Indicator.

Transverter RIP System

“**Drag & Drop**” features are present even if the Disclosure Triangle is pointing right. If you drag an EPS file icon over the window and release it, Transverter will start processing the file automatically.

In the Transverter RIP application you can access the Preference settings by selecting **File**, from the main menu, then go to **Preferences**. These settings give control over the print process. Further information can be found in the Installation & Configuration chapter.

Status Log Messages

There are three different types of Status Log messages. These messages come from T-RIP Core (the RIP engine) and are designed to inform the user of Errors, Font Substitutions, and General Processing.

• **General Processing Information (displayed in black text)**

When a file is placed in the File Queue and has begun converting, Transverter RIP will display “**Processing File:xxxxxx**” stating that the process has begun. When the file is finished converting, the Status Log will display “**Finished Page.**” When processing a multi-page file, Transverter will display “**Finished Page**” followed by the page number.

• **Font Substitutions (displayed in blue text)**

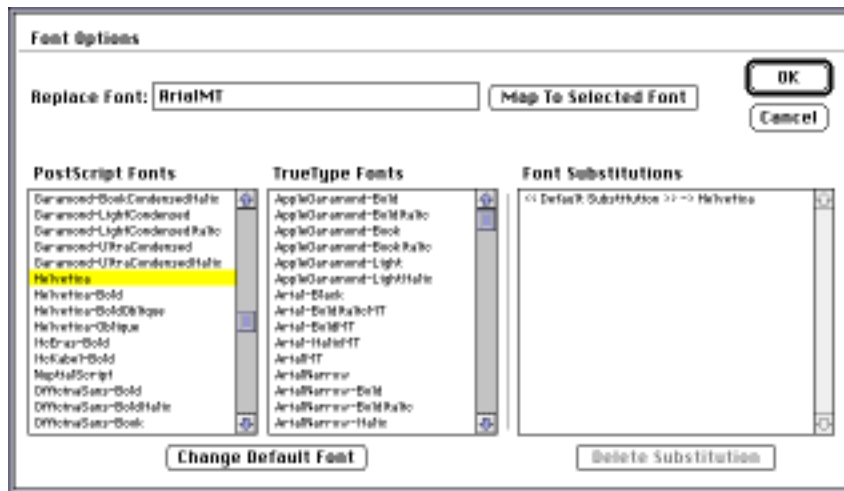
When a PostScript file (EPS, PS, or PDF) is converted, Transverter RIP looks for the fonts inside the System Folder that are used in that file. If Transverter is unable to locate these fonts, then the font Helvetica will be substituted. Transverter also supports font utilities such as *Suitcase* and *Master Juggler*.

• **Error Messages (displayed in red text)**

Error messages will appear if a PostScript file is invalid, corrupted or incomplete. Errors cause Transverter to halt the conversion process and to display a message indicating the possible offending command. An error message is also displayed if the wrong file type is dropped into the File Queue.

Font Options

Font Options is an entire new feature for working with fonts. You can access this by going to **File > Font Options...**:



The substitution occurring in the screen shot above is to:

Replace Font - ArialMT with PostScript Font - Helvetica.

To activate this substitution click on “**Map To Selected Font**” and see it appear in the Font Substitutions scroll window on the right side of the dialog window.

Replace Font

Type in the EXACT name of the font to be replaced. The name must be correct including hyphens. There are no spaces in PostScript font names. Follow the Quick Shortcut or the Two-step shortcut detailed in the following paragraphs to get the correct font name entered into the Replace Font field.

Quick Shortcut - After doing a **Preview** on a PostScript, EPS, or PDF file and noting a Font Substitution occurs in the PostScript Messages window, click **Cancel** so the job does not print. Now, hold down the **Option** key and double-click on the **font name** that is being substituted in the Message window. This will automatically write the font name in the Replace Font field and open the Font Options window.

Transverter RIP System

Two-Step Shortcut - Highlight the font in the PostScript messages window then open the Font Option window by choosing **Font Options...** from the **File** menu. The font to be substituted will have its name already written into the Replace Font field.

PostScript Fonts

This is a listing of all the PostScript fonts available to you through the Operating System and any font handling programs like Suitcase. Scroll through and highlight a font to select it. Make sure you have typed a proper font file name in the Replace font field then click on the **Map To Selected Font** button.

TrueType Fonts

This is a listing of all the TrueType fonts available to you through the Operating System and any font handling programs like Suitcase. Scroll through and highlight a font to select it. Make sure you have typed a proper font file name in the Replace font field then click on the **Map To Selected Font** button.

Font Substitutions

This window lists all the substituted fonts. Note that there is always a Default Font present and this cannot be removed. The Default font is used anytime a requested font in a file is either not available or the font file is corrupt.

Change Default Font

Allows you to change the default font. PostScript traditionally uses either Courier or Helvetica as the Default font. This option permits you to choose any font to substitute with.

Delete Substitution

Highlight a Font Substitution and click on **Delete Substitution** to remove it.



Chapter 5 - Graphic Reference

PostScript

PostScript (**PS**) is a sophisticated graphics programming language created by Adobe Systems. It provides a very flexible way for computer application programs to present a page description to an output device. For example, when a user prints to a PS laser printer the computer sends PostScript code to the PS interpreter contained in the printer. The PS interpreter does all of the work necessary to draw the described page.

To draw the page described in the PostScript description, the PS interpreter must translate the PostScript into a collection of dots, much like a bitmap. These dots will then be used for printing the actual output. This process of producing bitmap data from vector and image data is called rasterizing. Rasterizing can be performed by hardware, such as a laser printer which contains a PS interpreter, or by software such as Transverter RIP's Level 2 PS interpreter.

Programs that are able to create PostScript for printing typically do not use PostScript for editing and displaying. They will use their own image format which is easier to manipulate when editing then translate to PostScript when printing. This translation is most commonly done by a PostScript printer driver instead of the program itself.

EPS (Encapsulated PostScript) Description

Encapsulated PostScript (EPS) is an extension of PostScript that was created to allow applications to “place” a PostScript image on a page. Placing is used to incorporate a smaller image into a document. EPS provides the information applications need to be able to place and print an encapsulated PS file.

Transverter RIP supports EPS files which are single page documents. These files are typically created by designers, illustrators and ad agencies.

Adobe Acrobat (PDF) Files



The PDF (Portable Document Format) is becoming a universally accepted file format for sharing documents on the Internet and on company Intranets. It is a rich format capable of containing text, fonts, images, and graphics that can easily be moved anywhere electronically. Originally a superset of the Adobe Illustrator format, PDF files have grown into a widely used file format.

Graphic Reference

Creating Encapsulated PostScript (EPS) Files

EPS files can be made directly in many applications.

For instance:

Quark - **File > Save Page As EPS...**

Illustrator - **File > Save As...** then save in EPS format

FreeHand - **File > Export...** make the format EPS

Many programs do not directly support making EPS files. However, it can be done using the Print Dialog box. It does vary how to do it and not all programs support making EPS files through the Print Dialog box.

An example of making an EPS file from an application program use PageMaker. From the **File** menu choose **Print...**, click on the **Options** button and select the check box **“Write PostScript to file”** and check the EPS radio button. Finally, specify where to write the file by clicking on **Save as...**, type a file name, and click **Print**.



Chapter 6 - Troubleshooting

Transverter RIP is designed to provide trouble free operation. However, should you experience any difficulty in its operation, this section will assist you in determining the problem source and give suggestions to fix it.

Not all applications produce clean PostScript. If an application has made a PostScript file improperly, Transverter RIP may produce incorrect output or report an error in the Status Log window.

The diagnosis and correction of many PostScript errors goes beyond the scope of this reference. However there are two common error types that are easily diagnosed and fixed by the Transverter RIP user **(1) Memory Errors** - typically too little RAM or too little hard drive space and **(2) Font Errors** - when Transverter can't find a specific font.

Memory Issues

When converting large or complex files, Transverter RIP may not have enough hard drive storage space or RAM memory at its disposal to handle the task.

The default RAM memory requirements are a compromise to permit processing of most files but not so large as to be a memory hog. Therefore, Transverter RIP may not, as it shipped, ask for sufficient memory to work on every PostScript file.

Memory shortages, disk space or RAM, will cause a Status Log error message:
%%[Error: VMerror; OffendingCommand: @image]%%

The VMerror stands for Virtual Memory Error and indicates a memory shortage problem. The Offending Command, shown above as @image, may vary. In this case the @image says that Transverter ran out of memory while trying to process image data, which is usually a photograph or graphic in the document.

There are two things that cause memory errors: **(1)** too little hard drive space to process the file or **(2)** too little RAM allocated to the Transverter PostScript engine T-RIP Core.

Disk Space Shortage

To diagnose and fix the problem, first check you have sufficient hard drive space. There is not a good thumb rule for this but we suggest having at least 30 megabytes of free disk space. Large PostScript files can require much more. If disk space is not a problem on your hard drive move to the next step. Otherwise free up some hard drive space and try processing your file again.

Troubleshooting

RAM Shortage

The second cause of PostScript VMerrors is insufficient memory for the T-RIP Core PostScript engine application. T-RIP Core is separate from the Transverter RIP application itself, and its memory requirements are distinct from Transverter RIP's.

To increase the amount of memory allocated to T-RIP Core:

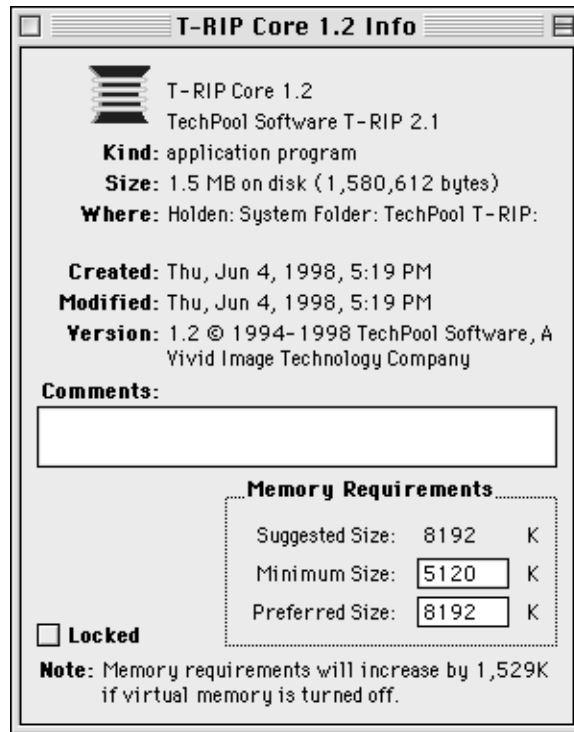
1. Go into your System Folder and open the TechPool T-RIP folder within it.
2. Locate and select the T-RIP Core icon by clicking on it once. *Do not double click on it as this will launch the T-RIP Core application.*

***Note:** If you do accidentally launch the T-RIP Core application, just launch and quit the Transverter RIP application; Transverter RIP shuts down T-RIP Core when ever it quits.



T-RIP Core

3. Select **Get Info** from the File menu.



4. Enter a larger number in the dialog's Preferred Size: field. If the computer has a large amount of memory installed, it is worthwhile to increase T-RIP Core's memory partition by large amounts. Up to a limit, Transverter RIP will demonstrate significant speed gains as T-RIP Core's memory partition is enlarged.

Troubleshooting

Font Substitutions

When using Transverter RIP, messages communicate to you in the Status Log window what fonts are being asked for by a file and then substituted because the font is not available.

The example Status Log line below shows a file requesting the Avant Garde font, not finding it, and substituting Helvetica:

%%[AvantGarde not found, using Helvetica]%

Transverter RIP requires Helvetica as its “Default Font.” This is the font the T-RIP Core interpreter engine will substitute when a font is not found.

*~ Helvetica must be installed in the Fonts folder, which is located ~
inside the System folder, for the Transverter RIP to work properly.*



Frequently Asked Questions

Question

When I try to convert a file I get an Error message that reads:

%%[UndefinedResource: OffendingCommand;FindResource]%%
%%[KEY:Helvetica;Category:Font Error]%%

Answer

Make sure you have the default font “Helvetica” properly installed in the System folder. Transverter uses Helvetica as the default font. If not installed, Transverter will issue the above error message and not be able to process any files. You can change the Default Font by selecting Font Options from the File menu.

You may also get this error if the Default font you are using Helvetica or otherwise is actually a corrupted font file. Transverter RIP cannot work with corrupted Printer Font files. Replace corrupted font files with a new copy from the original source.

Question

I receive an error message when trying to convert a larger or more complex file:

%%[Error: VMerror; OffendingCommand:--@image--]%%
%%[Flushing: rest of job (to end-of-file) will be ignored]%%

Answer

The Transverter T-RIP Core engine (PostScript Interpreter) needs more memory to convert the file, probably due to placed images that require more memory to process. This is one of the most common error messages you will see. See Memory Issues earlier in this chapter for a solution.

Question

When I print a document using the T-RIP Writer driver from an application, I get an error message stating:

“Disk is Full”.

Answer

There is no room on the hard drive for The T-RIP Writer to Spool a PostScript file. Create more hard drive space by removing unwanted files or applications.

Troubleshooting

Question

When I try to print a document from PageMaker 6.0 or 6.5 by using the T-RIP Writer driver (this spools a file out to the PrintPrep Folder that T-RIP Monitor sees and activates Transverter RIP) I receive an error that reads:

“An error occurred while printing. Could not open the printer. Check that printer connection is correctly set up in the Chooser.”

Answer

PageMaker requires, when you go to print, that the printer you have chosen should be currently available for printing (it “polls” for the printers availability). Transverter RIP is serving as the printer but does not talk on the network to say it is available. Hence PageMaker sees this as the printer being unavailable and gives the error message.

Correct this by holding down the Option key while selecting Print from the File menu. Holding the Option key down tells PageMaker to ignore “looking” for the printer on the network. Now PageMaker and Transverter RIP will print together. This is a case of PageMaker expecting to talk to an AppleTalk printer; however, the Fuji printers are a SCSI print device.

Question

When I start the Transverter RIP, Preferences is not available in the File menu.

Answer

Preferences, in the File menu, is not available if your printer is not turned On and the printer is not on-line. Check the on-line light on the printer. Some printers have to finish warming up before Preferences is available.

Question

When I try to print from an application using the T-RIP Writer, the file starts to spool and then freezes or I get blank pages. There are three possible solutions.

Answer

If the Desktop Printing extensions are running, turn it off by opening the Extensions Manager in the Control Panel and deselect: Desktop Print Spooler and Desktop PrintMonitor. You must shut down your computer and restart.

If any virus protection software (SAM, etc.) is running, it will kill any background processing of T-RIP. Turn off your virus protection software. Shut down your computer and restart.

If you are getting blank pages, increase the RAM allocated to the RipCore by selecting **Get Info** from the file menu, as shown on page 35.

Defective Disk Replacement

TechPool Software, A Vivid Image Technology Company, will replace defective or damaged disks free of charge during the 90-day limited warranty period. After that period, damaged disks will be replaced for a \$15 charge per disk. The defective disk must be returned to TechPool Software with a note explaining the problem.

TechPool Software will not be responsible for disks lost or damaged in transit. If you have not sent in your registration card, you **MUST** send it with the defective disks. Please send the defective or damaged disks with, if necessary, check, money order, or credit card information.

Contacting Technical Support

TechPool Software has a qualified Technical Support staff ready to help you with your problems when using Transverter. Please make sure the problem you are having is with Transverter and not with your application software or the Pictrography 3000 or 4000 itself.

Free Technical Support is provided for 30 days from your first contact with Technical Support. Thereafter Technical Support contracts may be purchased on an annual basis. Contact our Customer Service to inquire about Support Contracts.

If you require technical support we can be reached via any of the following methods:

Mail: TechPool Software, A Vivid Image Technology Company
2726 Loker Avenue West, Carlsbad, CA 92008

Troubleshooting

Telephone: (216) 382-1787 from 9:00 am to 5:00 pm (U.S. Eastern Time)
(760) 438-0335 from 2:00 pm to 6:00 pm (U.S. Pacific Time)
Fax: (216) 521-2718
E-Mail: support@techpool.com
Web Site: www.techpool.com

When contacting us, always provide the following information:

- Your Name.
- Your Company's: Name, Address, Phone Number, and E-Mail Address.
- The Type of System You are Using.
- The Application and Version Number.
- A Short but Precise Description of the Problem Including Errors Reported in the Status Window.

~ Please call while sitting in front of your computer and be prepared to reproduce the steps that caused the problem to occur.~



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Bitmap Image

A bitmap image is stored as a collection of pixels. A pixel represents one dot on your screen or printer. A simple way to think of a bitmap image is by putting a picture on a fine grid. Each square of the grid that is covered by the picture is one pixel and is represented individually in the graphics file. The pixel will be represented not only by its location in the grid, but also by its color.

Color Conversion and Matching

Printers, scanners, and displays have different color spaces and gamuts. T-RIP converts colors from one device's color space to another device's color space by performing color matching. Color matching may require color conversion, like CMYK (cyan, magenta, yellow, and black) to RGB (red, green, and blue). ColorSync is the Mac OS color management system that T-RIP uses to perform color matching.

Drag & Drop

Drag & Drop is a method to use a file icon to launch (or process a file if its already launched) an application from the Desktop. It is done by clicking on the file icon and moving it (by dragging) on top of the application icon (causing the application icon to highlight). This launches the application and opens the file or starts a process.

Embedded Font

An embedded font is a font that has been placed inside a document file. Typically, embedded fonts are added to files by the program that originally created the file to ensure the output device will have the font available to recreate the text contained in the file. If the font was not available, another font would have to be used instead, yielding text that is different than was originally intended.

Glossary

Encapsulated PostScript (EPS)

EPS is a PostScript file that is limited to one page. It is “encapsulated” so the file or image can be placed into other documents. It can also contain a PICT preview in the Resource Fork that will appear on-screen.

Halftone

Halftone refers to how a computer image is printed by using a halftone cell. Cell size is related to the screen density (or lines per inch) and determines how dithering is done.

LPI (lines per inch)

LPI relates to half-toning and number of graytones or colors. The more lpi the finer looking the dither but the less colors.

PDF File Format (Adobe Portable Document Format)

PDF is an application independent file that contains all the elements created by the original application. PDF files can be opened, moved and printed across platforms (Macintosh & Windows).

PostScript (PS) file format

PostScript is a graphic programming language developed by Adobe Systems. PostScript contains text, graphics, and image data and is device independent.

PostScript (PS) Interpreter

A PostScript interpreter is any device or program that is able to understand and use the PostScript language. Most PostScript interpreters are used to produce printed output.

Preview

A preview is a special bitmap that is encapsulated, or contained, in an EPS file. The preview is meant to be a rough snapshot of what the entire image looks like. It is intended to provide applications with a means to display the contents of an EPS file without actually interpreting it.



Spooling

A Printer Driver temporarily stores (*spools*) data onto a hard drive so that a printer or application can then read it.





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