

2 *INSTALLATION*

This chapter describes the TextBridge installation process, which requires as many as three stages:

1. Follow the scanner manufacturer's instructions to install and test the scanner and DOS system-level driver, or **TWAIN** source driver.
 - + The scanner's DOS system-level driver or TWAIN source driver should be provided by the scanner manufacturer.
2. Install the TextBridge software, including **language packs** for the languages you will be recognizing.
3. Run the TextBridge scanner setup program and test the scanner interface.

Note If you own an XIS Datacopy GSplus or 730GS scanner, the correct system-level drivers are provided with TextBridge. For information, refer to "Installing and Testing the Scanner" later in this chapter.

This chapter organizes information in the installation sequence listed above.

However, before describing the installation steps in more detail, this chapter discusses issues relating to "System Configuration and Performance."

Please read that section, as it describes ways to avoid problems associated with memory limitations and inefficient use of your PC's resources with TextBridge.

Also, at the end of the chapter is a de-installation procedure in case you want to restore your PC to its original state.

SYSTEM CONFIGURATION AND PERFORMANCE

TextBridge operates under Windows 3.1 (or later) in **enhanced mode** only. Thus, your PC must have at least an Intel 80386 microprocessor.

Also, to run TextBridge, your PC must have at least **four megabytes** (4Mb) of memory (RAM), and must be configured with at least **eight megabytes** (8Mb) of **permanent virtual memory** (swap space).

If you regularly intend to scan multiple-column or landscape pages of text, or pages with complex layouts, you should configure your PC with eight megabytes (8Mb) or more of system memory (RAM) and 16Mb of virtual memory.

With only 4Mb of memory, the minimum requirement, TextBridge will more often use **virtual memory** (swap space on your hard disk).

If you try to run TextBridge with less than 4Mb of RAM, the application informs you that it:

```
Cannot initialize server.
```

In general, the more RAM that is available when you use TextBridge, the less swapping to disk will be required during operation.

As a rule of thumb, you should configure your system with twice as much virtual memory as RAM. Thus, if you have 4Mb of memory, configure your system with at least 8Mb of virtual memory. If you have 8Mb of RAM, specify 16Mb of virtual memory.

| | |
|------------------|---|
| Important | It is necessary to configure virtual memory as permanent virtual memory, especially for PCs with only 4Mb of RAM. This assures that TextBridge always has an adequate amount of contiguous swap space during OCR. Refer to Appendix A of this manual, or to your <i>Microsoft® Windows™ User's Guide</i> , for information about configuring virtual memory. |
|------------------|---|

Regardless of your RAM and virtual memory, a number of other system configuration choices can affect the availability of memory to TextBridge, and thus can affect performance.

Following is a list of items that can affect TextBridge system performance:

- **RAM disks**

If you have set up your system to use part of your extended memory as temporary file storage, called a RAM disk, this subtracts from available memory.

- **TSR (terminate-and-stay-resident) programs**

Some programs are designed to automatically load into memory when you start your system, or to stay in memory even after you exit them. These programs also affect the memory available to TextBridge.

- **Expanded Memory Drivers**

These are programs that use extended memory as expanded memory (memory used by the operating system), for example, a windows driver.

- **Other Drivers**

These are programs that provide some type of system control, for example, a network driver.

If you find that TextBridge's performance seems slow, check to see if your system is configured with any of these devices. If there are one or more of these devices that you can do without, remove them to improve TextBridge performance.

INSTALLING AND TESTING THE SCANNER

Using **ISIS** drivers provided by Pixel Translations Incorporated, TextBridge works with many popular desktop scanners.

In addition, with its support of the **TWAIN** standard, TextBridge works with virtually any fully TWAIN-compliant device that provides a binary image in a supported size and resolution. Supported TWAIN devices include a number of hand-held scanners.

Note The full list of scanners supported by TextBridge is always growing. Check the on-line TextBridge *Release Notes* to find the latest list of supported scanners. If your scanner is not in this list, call your authorized Xerox Imaging Systems' reseller, or call XIS Customer Support directly.

Scanners generally require a system-level driver or a TWAIN source driver, which is provided by the scanner or interface card manufacturer. **Consult the scanner documentation for details about installing your scanner, interface card, and driver.**

XIS Datacopy GSplus or 730GS scanner owners should refer to the section, "If you have an XIS Datacopy scanner," for information about the correct system-level drivers to use with TextBridge.

Basic scanner installation steps

The basic steps for installing a scanner are to:

1. Install the correct scanner interface card (if one is necessary) in the PC bus.
2. Hook up the scanner to the interface card (or with some hand-held scanners, to the serial port) with the correct cable, and power up the scanner and the PC.

3. Install the system-level scanner driver (.SYS) file, or TWAIN source driver on your PC hard disk, as directed by the scanner documentation.
4. Test the scanner using software tools provided by the manufacturer. After the scanner is functioning, go on to install TextBridge software.
 - + If your scanner runs independently of TextBridge, you can be sure that it is functioning correctly. Setting it up to run with TextBridge should then be a simple matter.

If you have an XIS Datacopy scanner

TextBridge works with two scanners from XIS Datacopy: the **GSplus** (using the Rancho Technology 1201 card) and the **730GS** (using the Datacopy 111 card).

If you purchased one of these scanners to run with XIS DISCOVER software, that product provided a different system-level driver than the one needed to work with TextBridge. The correct system-level drivers for the XIS Datacopy scanners are included on the TextBridge installation disks.

Install TextBridge according to the instructions in “Installing TextBridge Software,” later in this chapter. Then reference the appropriate system-level driver in your CONFIG.SYS file. The drivers are stored in a subdirectory, named DATACOPY, beneath the TextBridge installation directory, the default of which is C:\TXBRIDGE.

For the GSplus, the system-level driver is named XIS380GS.SYS. To use the GSplus scanner with TextBridge, you **must** use this system-level driver.

The DEVICE statement in the CONFIG.SYS file for the GSplus driver would be:

```
DEVICE=C:\TXBRIDGE\DATACOPY\XIS380GS.SYS
```

For the 730GS, the system-level driver is named XISDCP30.SYS. You **must** use the version supplied with TextBridge. Thus, the DEVICE statement in the CONFIG.SYS file would be:

```
DEVICE=C:\TXBRIDGE\DATACOPY\XISDCP30.SYS BASE=2E8
```

The XIS Datacopy 111 Card is the appropriate interface card for the 730GS. Its default port I/O address is 2E8.

Note If the 2E8 address conflicts with other cards you have installed in your PC, you can change the address by changing the DIP switches.

The following alternative address settings for the Datacopy 111 card will work:

```
218, 228, 238, 248, 258, 268, 278,  
288, 298, 2A8, 2B8, 2C8, 2D8
```

If you change the default address, make sure to change the DEVICE statement in your CONFIG.SYS file appropriately. For example, if you set the DIP switches on the card to 2D8, the DEVICE statement in the CONFIG.SYS file should be:

```
DEVICE=C:\TXBRIDGE\DATACOPY\XISDCP30.SYS BASE=2D8
```

INSTALLING TEXTBRIDGE SOFTWARE

Installing TextBridge software is a two-phase process. First, you install the software files. Second, you run a scanner setup program to link TextBridge to your scanner's system-level or TWAIN source driver.

Note If you are **not** using TextBridge with a supported scanner, you can ignore the second installation phase, running the scanner setup program. For example, you can use TextBridge to recognize TIFF files produced by fax modems.

Run the software setup program

To install TextBridge software, use the following procedure.

Note This procedure assumes that, if you are using a supported scanner, it is already connected to your PC and is operational.

1. **Insert TextBridge Disk 1 into drive A: or B: as appropriate.**
2. **From the Windows Program Manager, run the TextBridge SETUP command.**
 - Pull down the File menu and select the Run command.
 - In the Run dialog, enter the following:

b:\setup

This assumes that B: is the drive you are using. Use A: instead, if appropriate.

- Press Enter. An initialization message appears, followed by the TextBridge main setup dialog (Figure 2–1).



Figure 2–1. TextBridge main setup dialog

3. Click Continue to begin the installation of TextBridge on your hard disk.

A dialog now displays the TextBridge installation directory on your hard disk. The default is:

C:\TXBRIDGE

4. Click Continue to proceed.

A dialog appears enabling you to choose the OCR **language packs** you want to install.

- + You **must** select at least one language pack in order for TextBridge to perform OCR.

5. Specify the language packs to be installed.

- Click the checkbox on for each language pack to be installed.
 - + TextBridge supports OCR of documents printed in English, French, Italian, German, and Spanish. European versions of TextBridge support even more languages. Allow approximately 700K of hard disk space for each language pack.
- Click Continue. The setup program begins installing TextBridge software files, as indicated by a percentage meter on the screen.

6. Insert TextBridge installation disks as instructed.

As the setup program decompresses and copies files to your hard disk, it periodically requests you to insert another of the TextBridge installation disks. Insert each disk and click Continue.

When the setup program has installed all necessary files from the installation disks, it displays a dialog informing you so.

7. Click OK in the dialog.

The setup program automatically creates the **TextBridge OCR** program group and opens it on your screen (Figure 2–2).

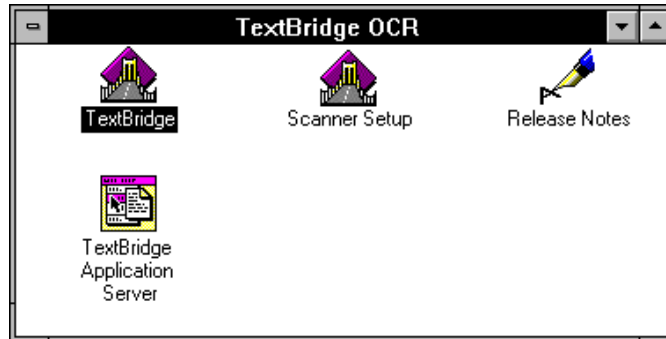


Figure 2–2. TextBridge OCR program group

8. If you are using a supported scanner, go on to run the Scanner Setup program.

See the next subsection.

If you intend to process on-line TIFF images only, skip scanner setup and begin using TextBridge, as described in Chapters 3 and 4 of this manual.

Run the scanner setup program

To use TextBridge with a supported scanner, run the **Scanner Setup** program. Scanner Setup links TextBridge to your scanner's system-level or TWAIN source driver. As Figure 2–2 shows, the Scanner Setup program icon is available in the TextBridge OCR group window.

This section provides two procedures, one to install and test a TWAIN source driver; the other, to install and test an ISIS driver.

- + If you have problems getting your scanner to work with TextBridge, consult Appendix A of this guide.

Install and test a TWAIN source driver

To install and test a TWAIN source driver, use the following procedure:

1. **In the TextBridge OCR program group, double-click the Scanner Setup icon.**

The Scanner Setup main window appears (Figure 2–3). Note that the default scanner type is ISIS.

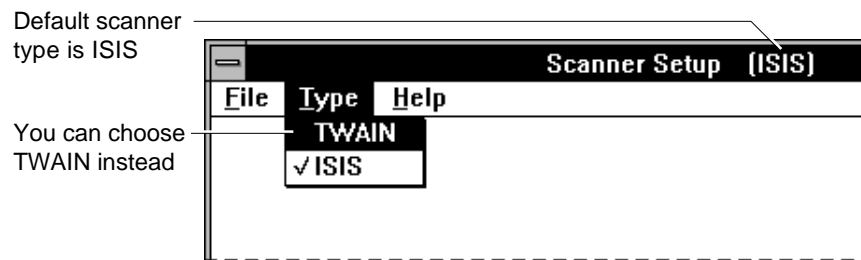


Figure 2–3. Scanner Setup main window

2. **Specify the scanner type.**

- Pull down the Type menu, and choose TWAIN as the scanner type.
 - + Select TWAIN only if your scanner is provided with a TWAIN source driver.

If your scanner is provided with a DOS system-level driver (`.sys` file) that must be referenced in a `DEVICE` statement in the `config.sys` file, select ISIS instead, and refer to the next subsection, “Install and test an ISIS driver.”

Check your scanner documentation for information about the provided driver(s).

- Go on to specify the TWAIN source driver to be used by TextBridge.

3. Specify the TWAIN source driver.

- Pull down the File menu, and choose the Select Source command. The TWAIN Select Source dialog is displayed (Figure 2–4).

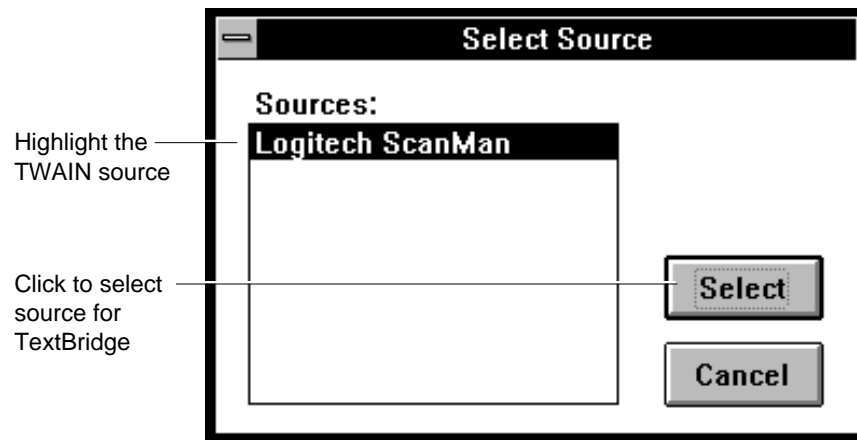
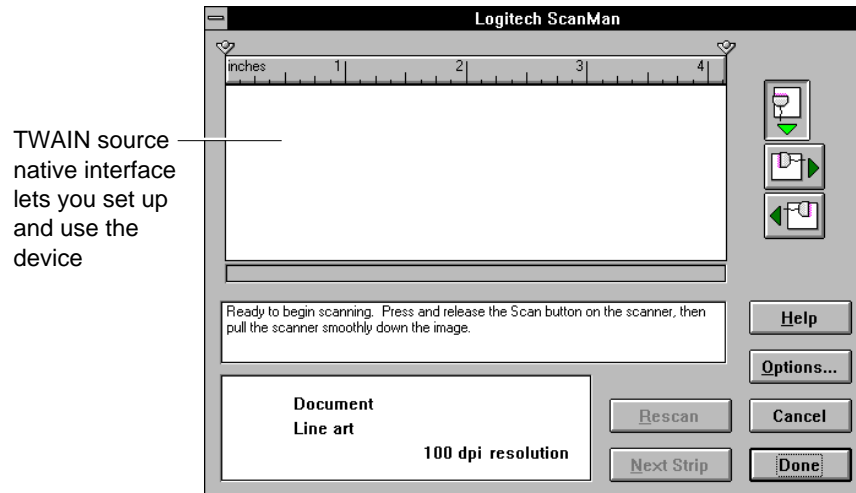


Figure 2–4. TWAIN Select Source dialog

- All properly loaded TWAIN source drivers are shown. Highlight the one you want TextBridge to use.
- Click the Select button to complete the selection.

4. Test the scanner interface.

- Pull down the File menu and select the Acquire command. The TWAIN source's **native user interface** should now appear. For example, Figure 2–5 shows a version of the Logitech™ ScanMan® native user interface.
- Use the TWAIN source's native UI to specify and acquire an image. Refer to the documentation that came with the device.



TWAIN source native interface lets you set up and use the device

Figure 2–5. TWAIN source native UI example

5. Exit the Scanner Setup program.

Pull down the File menu and select Exit. You are now ready to use TextBridge with your TWAIN device. Refer to Chapters 3 and 4 for information.

Install and test an ISIS driver

To install and test an ISIS driver, use the following procedure:

1. **In the TextBridge OCR group window, if you have not already done so, double-click the Scanner Setup icon.**

The Scanner Setup main window is displayed (refer to Figure 2–3). Note that the default scanner type should be ISIS.

2. Specify the scanner type.

- Pull down the Type menu, and, if necessary, choose ISIS as the scanner type.
- + Select ISIS only if your scanner is provided with a DOS system-level driver (.sys file) that must be in a DEVICE statement in the config.sys file. TextBridge supplies the higher-level ISIS driver that should work with your system-level driver. If your scanner vendor supplies an ISIS driver, use it instead of the one supplied with TextBridge.

If your scanner is supplied only with a TWAIN driver, select TWAIN instead, and refer to the previous subsection, “Install and test a TWAIN source driver.”

Check your scanner documentation for information about the provided driver(s).

- Go on to specify the ISIS driver to be used by TextBridge.

3. Pull down the File menu and choose the Select Source command.

The ISIS Scanner Selection dialog appears (Figure 2–6).

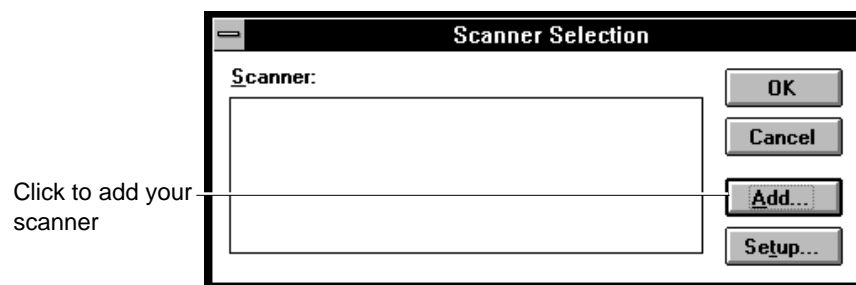


Figure 2–6. Scanner Selection dialog

4. Display the list of available scanner drivers.

- Click the Add button in the Scanner Selection dialog. A dialog appears requesting you to:

Insert disk containing scanner drivers

- Insert Disk 1 of the TextBridge installation disks in the disk drive, and, if necessary, identify the disk drive in the dialog (A: is the default).
- Click OK to display the ISIS Add Scanner dialog (Figure 2–7).

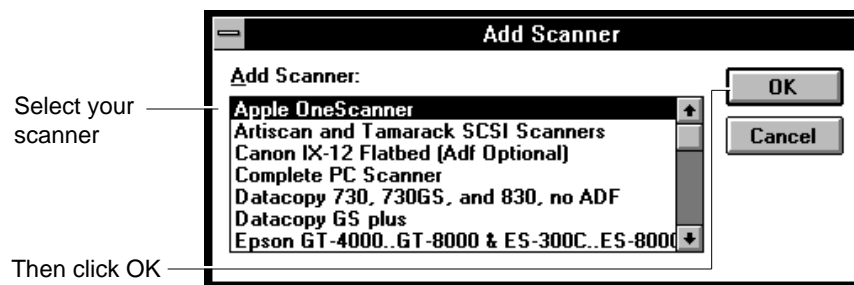


Figure 2–7. Add Scanner dialog

5. Add your scanner.

- From the Add Scanner dialog, click the listing for your scanner to highlight it.
- Click OK. The scanner is added, the Add Scanner dialog closes. The Scanner Selection dialog remains displayed (refer to Figure 2–5).

6. If necessary, further define your scanner configuration for TextBridge.

- In the Scanner Selection dialog, click the Setup button.
 - + For some scanners, a dialog appears enabling you to define settings such as Port Address, SCSI ID Number, Transfer Mode, Scanning Speed, and so on.

For other scanners, a dialog appears indicating simply that:

This scanner's configuration is set
using the system-level driver.

- If applicable, specify appropriate settings for your scanner configuration. Refer to your scanner or interface card documentation for details about scanner configuration settings.
- When you are finished specifying scanner configuration settings, click OK to save the new settings and close the scanner dialog.

7. Click OK in the Scanner Selection dialog.

The Scanner Selection dialog closes leaving the Scanner Setup main window displayed.

8. Test the scanner.

- Place a page in the scanner ADF or on the flatbed.
- In the Scanner Setup main window, pull down the File menu and select Acquire.

The scanner should activate and scan the page. If it does not, repeat all the installation steps described in this chapter. Also, refer to Appendix A of this guide for troubleshooting information.

If you still cannot get your scanner to work, call XIS Customer Support.

9. Exit the Scanner Setup program.

Pull down the File menu and select Exit. You are now ready to use TextBridge with your ISIS scanner. Refer to Chapters 3 and 4 for information.

DE-INSTALLING TEXTBRIDGE

To restore your PC to the state it was in before you installed TextBridge, use the following procedure:

1. From the Windows Program Manager, delete the TextBridge OCR program group.

- Select the TextBridge OCR program group by clicking on it with the mouse.
- Pull down the Program Manager File menu and select Delete. A message asks you:

Are you sure you want to delete
the group 'TextBridge OCR'?

- Click Yes.

2. From the Windows File Manager, delete the TXBRIDGE folder from your hard disk.

- Select the TXBRIDGE folder by clicking on it with the mouse.
- Pull down the File Manager File menu and select Delete. The Delete dialog appears with the full pathname of the TXBRIDGE directory highlighted.
- Click OK. A confirmation dialog appears.
- Click the “Yes to All” button. Another confirmation dialog appears for a system (hidden) file in the TextBridge directory.
- Click Yes.

3. From the File Manager, delete the Text-Bridge initialization files.

- Double-click the Windows directory. This displays the list of files in the directory.
- Scroll to display the following files:

TXBRIDGE . INI
OCSRVS . INI

- Delete each file by clicking on it with the mouse, pulling down the File Manager File menu and clicking Delete. This displays a Delete dialog box.
- For each file, click OK in the dialog box. The files are deleted.

4. Optionally, edit the CONFIG.SYS file to remove the DEVICE statement for your scanner's system-level driver.

- + You will want to remove this only if you are not running another application that uses the system-level driver.

With the above steps completed, TextBridge is completely de-installed from your PC.