

GB

TRUST FLAT SCAN USB 19200

Instruction manual

Version 1.0

Thank you

Thank you very much for purchasing this product from the Trust range. We wish you hours of fun with it. Please read this manual carefully before using the product.

Registration

Register your purchase now at the Trust Internet site (www.trust.com) and you could win one of the fabulous prizes. The website is also the place to look for dealer addresses, comprehensive product information, drivers and FAQ's (Frequently Asked Questions).

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1. Introduction

This manual is intended for users of the Trust Flat Scan USB 19200. No prior knowledge is necessary to install and use this product.

If you have any questions after reading this instruction manual, please contact one of the Trust Service Centres. You can find your nearest Service Centre at the end of this manual. You can also visit the Trust website (www.trust.com) for support, detailed product information, drivers and FAQ's (Frequently Asked Questions).

The following conventions have been used in this manual to indicate instructions:

- <key>** Here you should press a key. The name of the key is given between brackets.
- 'System'** This is a specific term used in a program. These are the terms used by, for example, Microsoft Windows 98.
- [DIR]** Key in the text shown in square brackets [...].
- (term)** The text between the parentheses {...} is the English term, e.g. (File) used in the figure referred to.

Additional information will be shown as follows:

Note: *If you connect the scanner to a USB HUB, then the USB HUB should have its own power supply.*

1.1 Contents of the package

Please check the contents of the package before reading the instruction manual. It should contain the following:

- Trust Flat Scan USB 19200 scanner
- USB signal cable
- CD-ROM containing the drivers, applications and an instruction manual for a PC
- CD-ROM containing the drivers, applications and an instruction manual for an iMac.
- The quick installation manual

Please contact your dealer if anything is missing or damaged.



2. Safety

Read the following instructions carefully before use:

1. Do not use the device in a damp environment, such as a bathroom, damp basement, swimming pool, etc.
2. Never stick objects into the slots on the outside of the device, because you may touch live components. This may cause a fire or give you an electric shock.
3. Do not try to repair this device yourself. When you open or remove the casing, you may accidentally touch live components. There are also other risks.
4. If any of the following circumstances occur, remove the plug from the power socket and have the device repaired by qualified personnel:
 - a) The cable or the plug is damaged or worn.
 - b) Fluid has entered the device.
 - c) The device has been dropped and/or the housing is damaged.
5. Position the device so that the cables cannot be damaged.

2.1 Minimum system requirements

- Pentium 166MHz MMX processor
- Free USB port
- 16 MB RAM (32 MB recommended)
- VGA card, 256 colours
- 100 MB free hard disk space
- 4x CD-ROM drive
- Windows 98 or 2000 operating system

3. Installing the Trust Flat Scan USB 19200

3.1 Installing the TWAIN driver

1. Start Windows.
2. Insert the CD-ROM (for the PC) containing the drivers and applications into your CD-ROM drive.
3. Click on 'Start' and select 'Run' (see figure 1).



Figure 1: Starting the installation

4. In the command line, type [D:\SETUP.EXE] and click on 'OK' to start the installation. Figure 2 will appear.

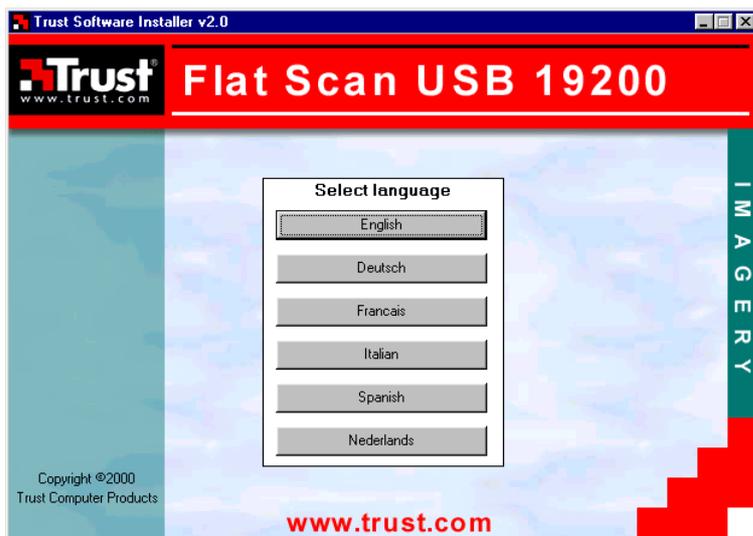


Figure 2: Selecting the desired language

5. Select the language you wish to use. Figure 3 will appear.



Figure 3: Trust Software Installer

6. Click on 'Install Trust Flat Scan USB 19200'. Figure 4 will appear.

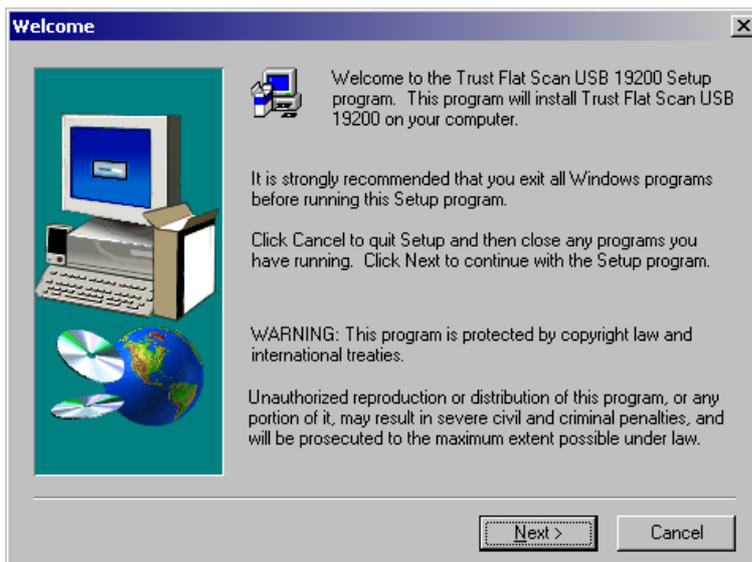


Figure 4: Installing the Trust Flat Scan USB 19200

7. Click on 'Next'. The TWAIN driver for the scanner will now be installed. After the installation, figure 5 will appear.



Figure 5: Installing the Trust Flat Scan USB 19200

8. Click on 'Finish' to complete the installation and restart your computer.

You have now completed the installation of the TWAIN driver. Continue to chapter 3.2 for instructions on how to connect your scanner to the USB port.

3.2 Connecting the scanner to the USB port

The scanner can be connected to your computer's USB port after the TWAIN driver has been installed (see chapter 3.1). To do this, follow the instructions given below:

1. Start Windows.
2. Connect the square USB plug on the USB cable provided into the rear of the scanner.
3. Connect the other end of the USB cable into a free USB port on your computer.
4. The new hardware will be detected by Windows and the driver for the scanner will be automatically installed.

Note: For installation in Windows 2000, a message will be displayed stating that the driver's digital signature has not been found. Due to the fast development of computer technology, it is not always possible to have the newest drivers signed in time. Click on 'Yes' to accept and continue with the installation (see figure 6).



Figure 6: Digital signature in Windows 2000

The Trust Flat Scan USB 19200 is now ready for use. See the following chapters for information about the installation and use of the applications.

3.3 Installing MGI PhotoSuite SE

Follow the instructions below to install MGI PhotoSuite SE 1.06.

1. Repeat points 1 to 5 of chapter 3.1 to start the 'Trust Software Installer' (see figure 3).
2. Click on 'Install MGI PhotoSuite SE 1.06'. Figure 7 will appear.



Figure 7: Installing MGI PhotoSuite SE

3. Select the language you wish to use and click on 'OK'. Figure 8 will appear.



Figure 8: Installing MGI PhotoSuite SE



4. Click on 'Next'. Figure 9 will appear.

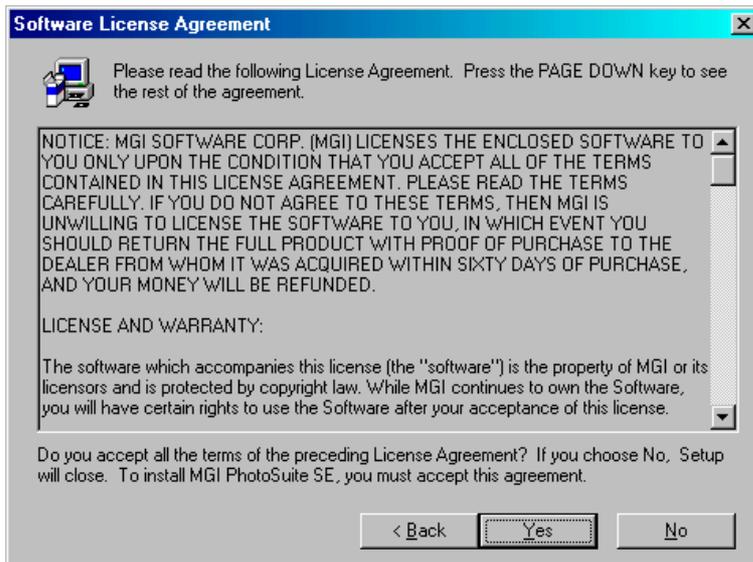


Figure 9: Installing MGI PhotoSuite SE

5. Click on 'Yes' to accept the license agreement and continue with the installation. Figure 10 will appear.

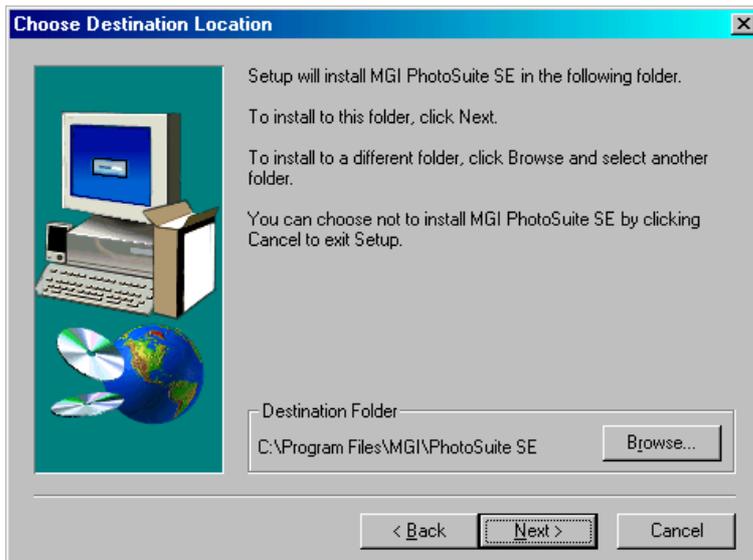


Figure 10: Installing MGI PhotoSuite SE

- Click on 'Next'. Figure 11 will appear.



Figure 11: Installing MGI PhotoSuite SE

- Click on 'Next'. Figure 12 will appear.

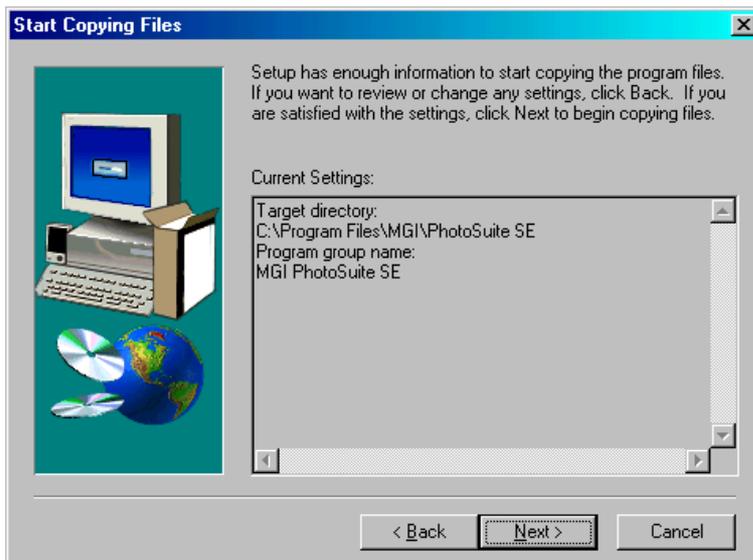


Figure 12: Installing MGI PhotoSuite SE

- Click on 'Next'. The driver will now be installed. After the installation, figure 13 will appear.



Figure 13: Installing MGI PhotoSuite SE

- Click on 'Finish' to complete the installation.

You have now completed the installation of MGI PhotoSuite SE. Continue to chapter 3.4 for the installation of TextBridge Classic.

3.4 Installing TextBridge Classic

Follow the instructions below to install TextBridge Classic 2.0.

- Repeat points 1 to 5 of chapter 3.1 to start the 'Trust Software Installer' (see figure 3).
- Click on 'Install TextBridge Classic 2.0'. Figure 14 will appear.

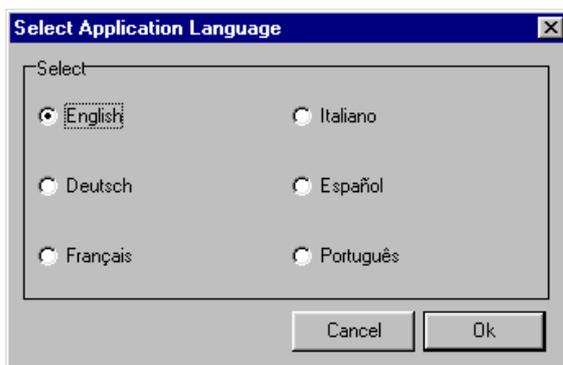


Figure 14: Selecting the desired language



3. Select the language you wish to use and click on 'OK'. Figure 15 will appear.



Figure 15: Installing TextBridge Classic

4. Click on 'Next'. Figure 16 will appear.

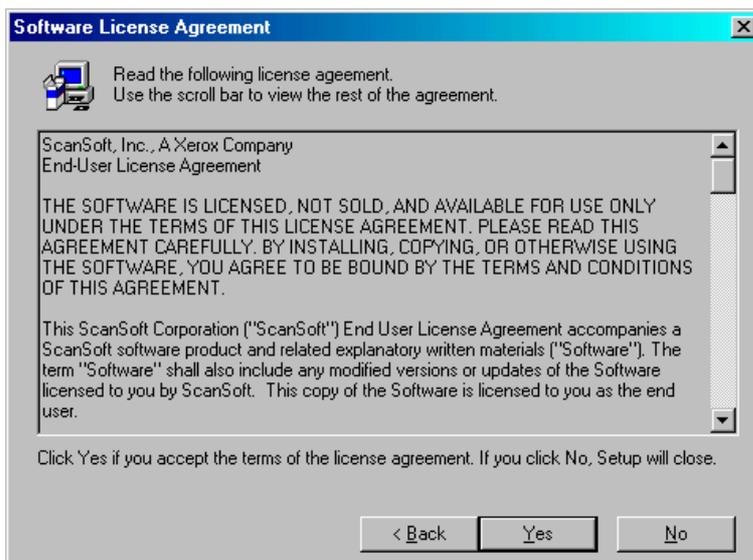


Figure 16: Installing TextBridge Classic

5. Click on 'Yes' to accept the license agreement and continue with the installation. Figure 17 will appear.

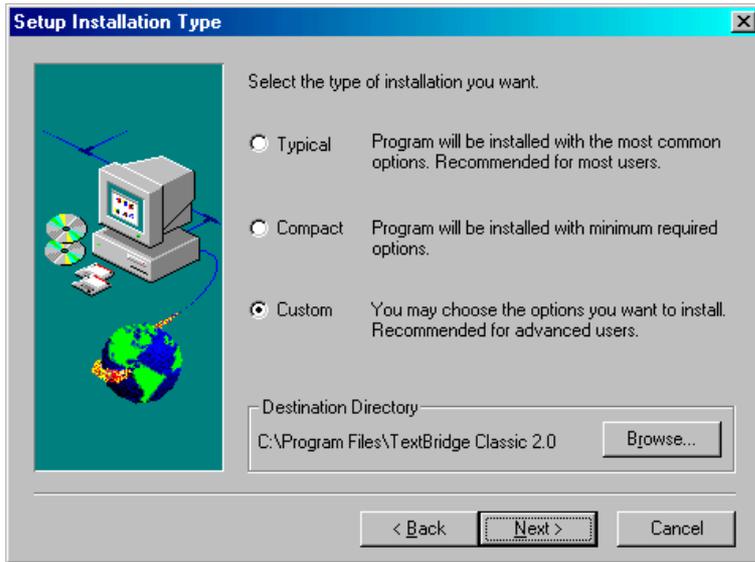


Figure 17: Installing TextBridge Classic

6. Select 'Custom' and then click on 'Next'. Figure 18 will appear.

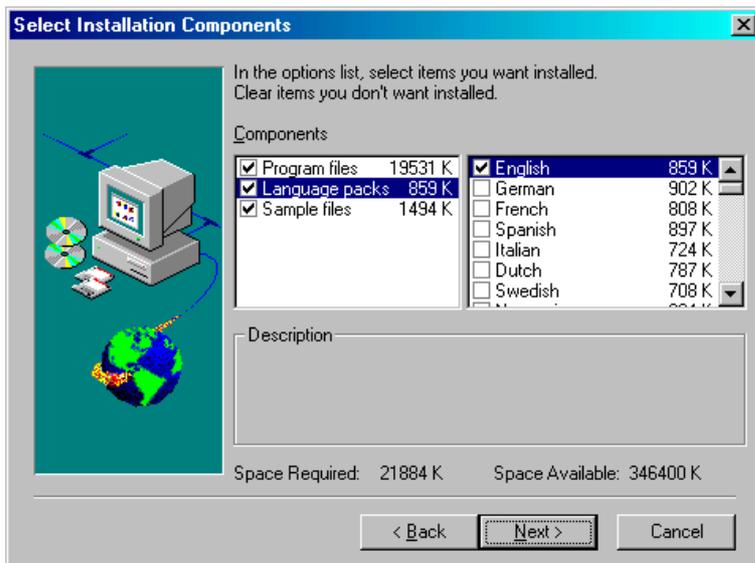


Figure 18: Installing TextBridge Classic

7. Click on 'Language packs' to select the languages to use.

Note: You will only be able to recognize text in the languages you select. Once the installation has been completed, you will be able to add other languages for OCR at a later time.

8. Click on 'Next' to continue with the installation of TextBridge Classic. A new window about the registration of TextBridge will appear.
9. Click on 'Next'. A window about product registration will appear.
10. Click on 'Cancel'. You will be asked whether you wish to cancel the product registration.
11. Click on 'Yes'. You will see a window that explains that you will receive a reminder about product registration 2 weeks after the installation of TextBridge.

- Click on 'OK' to complete the installation of TextBridge Classic. Figure 19 will appear.

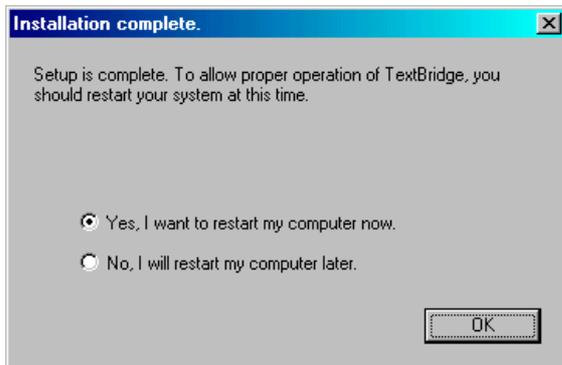


Figure 19: Installing TextBridge Classic

- Click on 'OK' to restart your computer.

You have now completed the installation of TextBridge Classic 2.0. See chapter 4 for instructions on how to use the scanner and the applications.



4. Using the scanner

This scanner can be used to make a scan via the TWAIN window. The TWAIN window can be opened from the Windows start menu or by selecting it from a TWAIN compatible application.

Please read the instruction manual for the application that you use for instructions on how you should select the scanner and how you can start TWAIN.

4.1 TWAIN main window

Go to 'Start - Programs - Trust - Flat Scan USB 19200' and select 'Trust Flat Scan USB 19200'. The main TWAIN window will appear (see figure 20) after a short period of time. This time is needed for the calibration of the scanner.

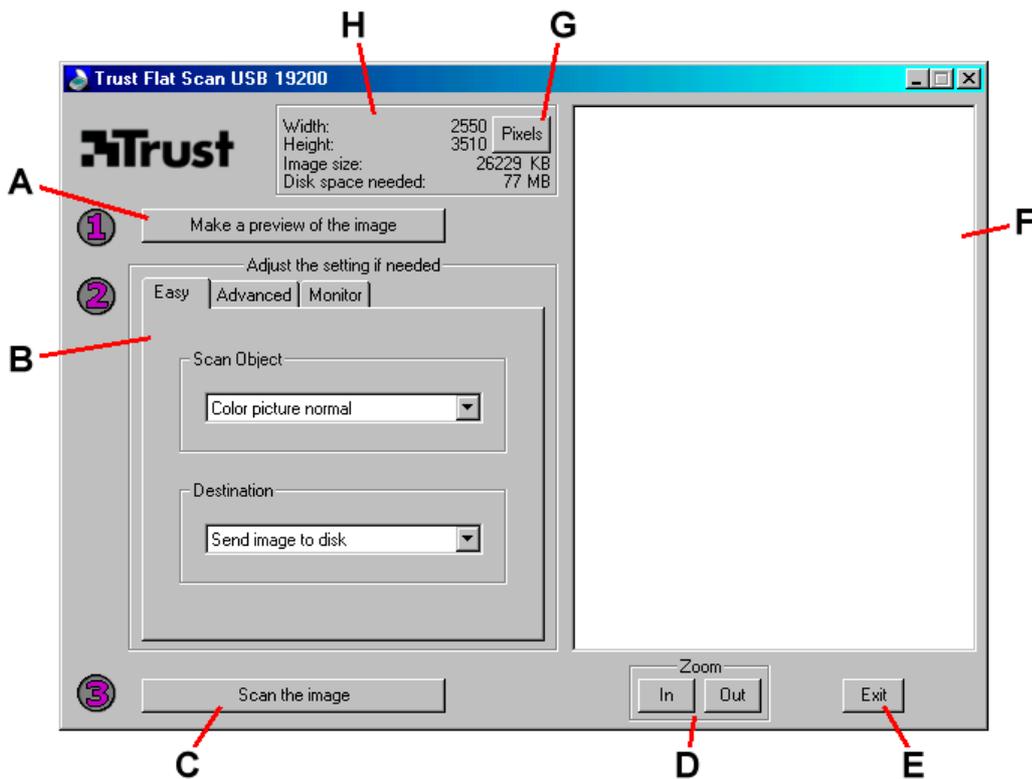


Figure 20: TWAIN main menu: 'Easy' user settings

See the table below for the description of the various functions in the TWAIN main window.

	Function	Description
A	Preview button (Make a preview of the image)	Makes a preview scan of the image. This is displayed in the 'Preview' window (F).
B	TWAIN settings (Adjust the setting if needed)	The window with the TWAIN settings contains 3 folders. A folder can be selected by clicking on the tab using the mouse. Easy: Easy user settings. See chapter 4.1.1. Advanced: advanced user settings. See chapter 4.1.2. Monitor: Monitor calibration. See chapter 4.1.3.
C	Scan button (Scan the image)	Makes a scan of the selected area. The settings from the selected tab (B) will be used.
D	Zoom in/out	Increases or decreases the size of the image in the preview window.
E	Exit	Closes the TWAIN main window.

	Function	Description
F	'Preview' window	Displays a preview of the image.
G	'Pixels, Inch, cm' selection button.	Displays the width and height of the selected area in pixels, inches or cm in the information window (H).
H	Information window	Displays information about the selected area. Width: Width of the selected area. Height: Height of the selected area. Image size: File size of the image to be scanned. Disk space needed: The minimum free hard disk space needed to scan the image. This is approximately 3 times the file size of the image to be scanned.

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4.1.1 Easy user settings

The 'Easy' tab is the easiest way to scan a standard image. This tab consists of a number of fixed settings. You only have to select what type of image you wish to scan. All the advanced settings are fixed to the standard values.

You can also indicate where the scanned image must be sent. See the table below for all the possible settings.

Note: *The 'Easy' tab and the 'Advanced' tab work independently from each other. Only the settings from the selected tab work when you click on the scan button (C).*

Function	Options	Description
Scan Object	Color picture fine	Scans a high quality colour image / photograph. Settings:- Scan mode: colour, Resolution: 600 dpi.
	Color picture normal	Scans a normal quality colour image / photograph. Settings:- Scan mode: colour, Resolution: 300 dpi.
	Grayscale picture	Scans images with a greyscale or black-and-white photographs. Settings:- Scan mode: greyscale, Resolution: 300 dpi.
	Fax message	Scans a fax message. Settings:- Scan mode: black-and-white, Resolution: 200 dpi.
	Text document	Scans text. Settings:- Scan mode: black-and-white, Resolution: 300 dpi.
Destination	Send image to application	Sends the scanned image to an application. Only works if TWAIN has been started from the application.
	Send image to disk	Saves the scanned image to the hard disk.
	Send image to printer	Sends the scanned image to the printer.
	Send image to fax	Sends the scanned image to the fax.
	Send image to clipboard	Sends the scanned image to the Windows clipboard.

4.1.2 Advanced user settings

In the 'Advanced' tab, more experienced users are able to manually set various functions for an optimal result (see figure 21).

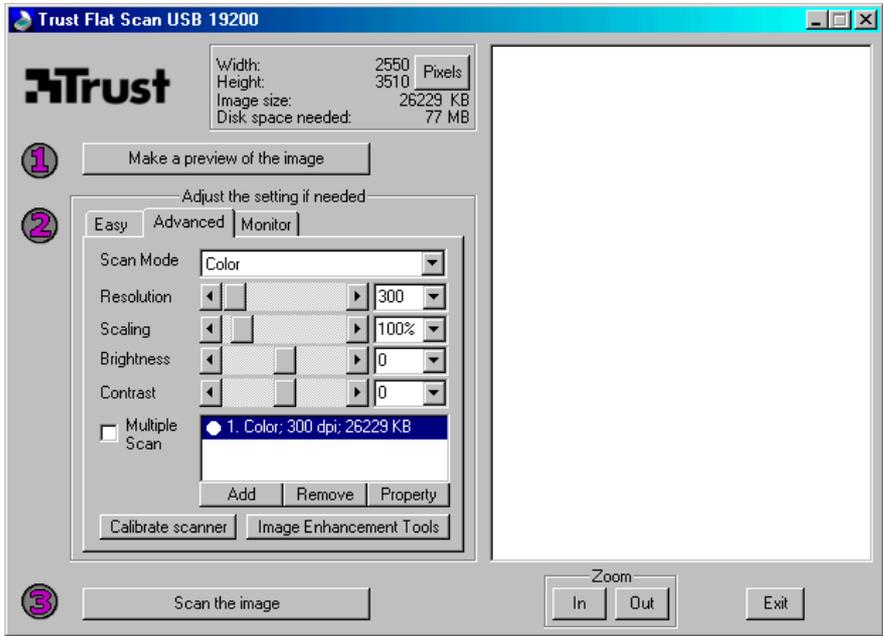


Figure 21: Advanced user settings

See the table below for the description of the various functions in the 'Advanced' tab.

Function	Description
Scan Mode	Color: Scans images in colour. Grayscale: Scans images with a greyscale or scans coloured original images that need to be converted to greyscale. Black / white: Scans text or black-and-white drawings.
Resolution	Sets the resolution from 50 to 19200 dpi.
Scaling	Sets the size of the scanned image from 10% to 1000%.
Brightness	Sets the brightness from -100 to 100.
Contrast	Sets the contrast from -100 to 100.
Multiple Scan	Place a tick in the check box to scan more than one area of the image at the same time. Select the area to be scanned in the 'Preview' window (F) using the mouse. Next, click on 'Add' to add the area. Repeat this for every area that you wish to add. Every area receives its own colour. 'Remove' can be used to remove selected areas. 'Property' can be used to see the properties of the area.
Calibrate scanner	Calibrates the scanner.
Image Enhancement Tools	Settings for improving the quality of the image. Figure 22 will appear.

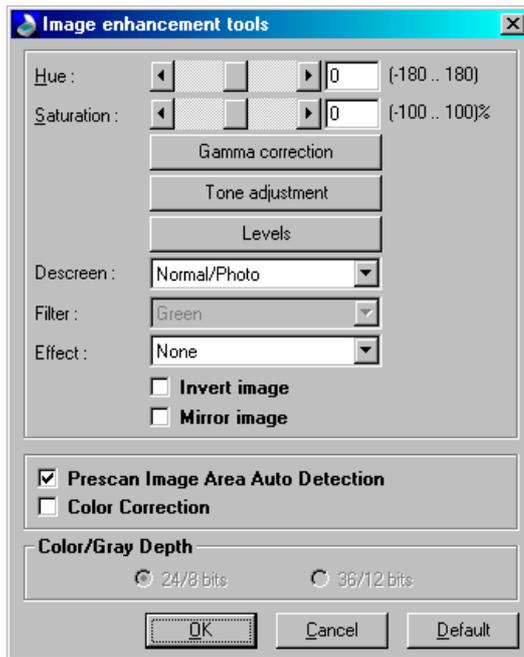


Figure 22: Image enhancement tools

See the table below for the description of the various functions available in this window.

Function	Description
Hue	Sets the hue.
Saturation	Sets the saturation.
Gamma Correction	Sets the gamma correction value.
Tone adjustment	Corrects the tone of the image.
Levels	Sets the colours over a scale of 256 colours.
Descreen	Normal/Photo: Optimal setting for scanning photographs. Newspaper: Optimal setting for scanning newspapers. Catalog/Magazine: Optimal setting for scanning magazines. Art magazine: Optimal setting for scanning art magazines. User Define object: User settings.
Filter	Filters out certain colours (red, green and blue).
Effect	Adds effects to the image (hazier or sharper image).
Invert image	Produces a negative of the image.
Mirror	Mirrors the image vertically.
Prescan Image Area Auto Detection	This function automatically detects the size of the scanned image.
Color Correction	Select 'Color Correction' for a true reproduction of the colour of the scanned area.
Color/Gray Depth	Sets the colour depth to 24/8 bit or 36/12 bit.

4.1.3 Monitor calibration

Click on the 'Monitor' tab in the TWAIN window (see figure 20). Figure 23 will appear. The window can be used to change the colour tints of the scanned image. When printing the scanned image, exactly the same colour tints are reproduced as the changes made in this window.

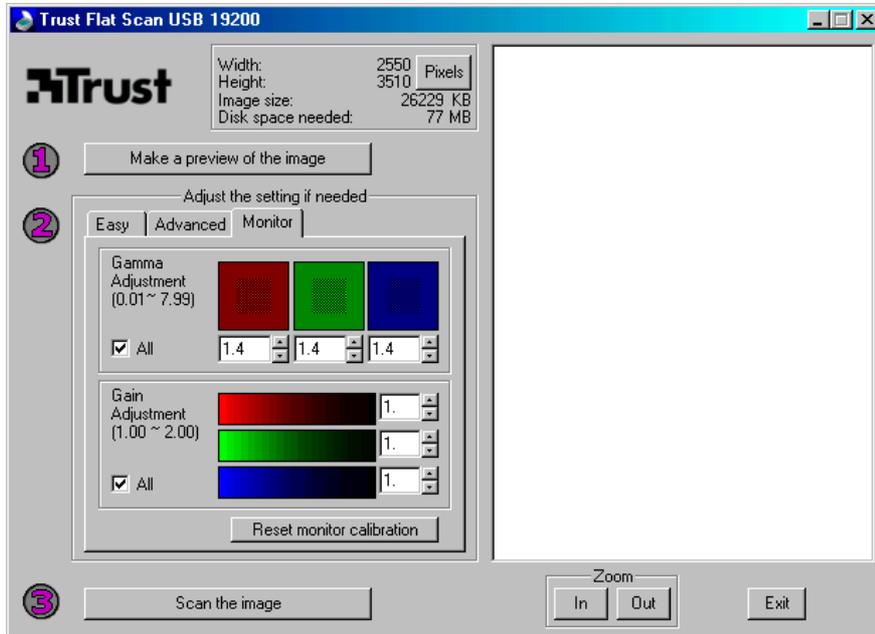


Figure 23: Monitor calibration

See the table below for the functions available in the 'Monitor' tab.

Monitor calibration	'Gamma Adjustment'	Alters the 'gamma' settings.
	'Gain Adjustment'	Alters the 'gain' settings.
	'Reset monitor calibration'	Resets the default settings.

4.2 Making a scan

Follow the steps below to make a scan. Also see figure 20.

1. Lay the image or document face down on the glass plate.
2. Using the mouse, click on 'Make a preview of the image' button (A) to make a preview scan.
3. In the 'Preview' window (F), use the mouse to select the area you wish to scan.
4. Select the 'Easy' tab.
5. Use 'Scan Object' to select the type of image you wish to scan.
6. Use 'Destination' to select the location that you wish to send the scanned image to.
7. Using the mouse, click on the 'Scan the image' button (C) to scan the image. The result will be copied to the location given.

Tip: *The scan process can be interrupted by clicking on 'Cancel'.*

5. Working with MGI PhotoSuite SE

MGI PhotoSuite SE is a drawing and editing program that offers a large number of options. You can use this program to edit scanned images.

Follow the instructions below to set-up and use MGI PhotoSuite SE.

Note: The instruction manual is included on the CD-ROM provided.

5.1 Once-only settings

The following should be completed to set-up MGI PhotoSuite SE for the Trust Flat Scan USB 19200.

1. Start 'MGI PhotoSuite SE'. Figure 24 will appear.



Figure 24: Working with MGI PhotoSuite SE

2. Click on 'Work on your Own'. The main window for MGI PhotoSuite will appear (see figure 25).

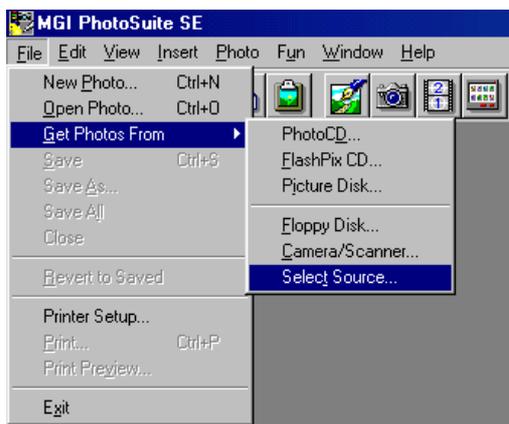


Figure 25: Selecting the source

3. In the next screen, click on 'File'.

4. Go to 'Get Photos From' and select 'Select Source...'. Figure 26 will appear.

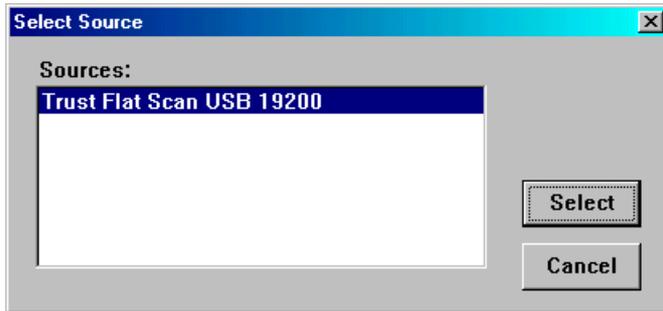


Figure 26: Selecting the scanner

5. Select the 'Trust Flat Scan USB 19200' and click on 'Select'.

MGI PhotoSuite SE is now ready for use. See chapter 5.2 for instructions on how this program can be used to edit images.

5.2 Editing images in MGI PhotoSuite SE

1. In the main window, click on the 'Enable scanner and acquire a photo' icon (see figure 27).

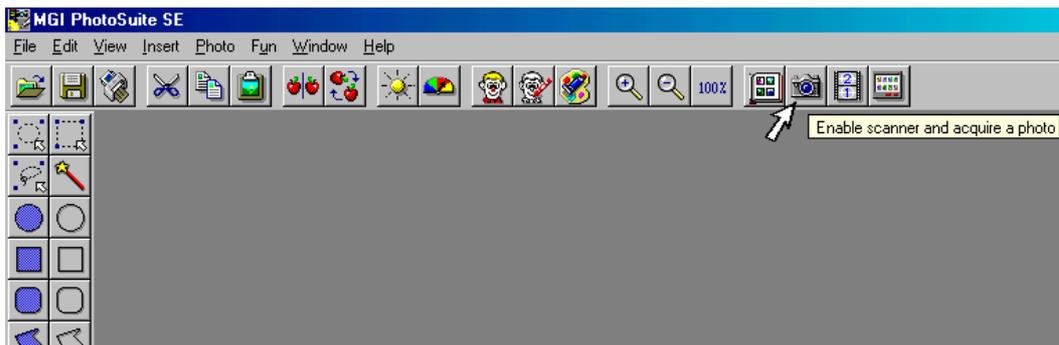


Figure 27: Requesting the main TWAIN window

2. After a short period of time, the main TWAIN window for the Trust Flat Scan USB 19000 will appear (see figure 20).
3. Scan an image. This image will be automatically sent to the application.

- The main TWAIN window will be closed when the photograph is loaded. The photograph can now be edited.

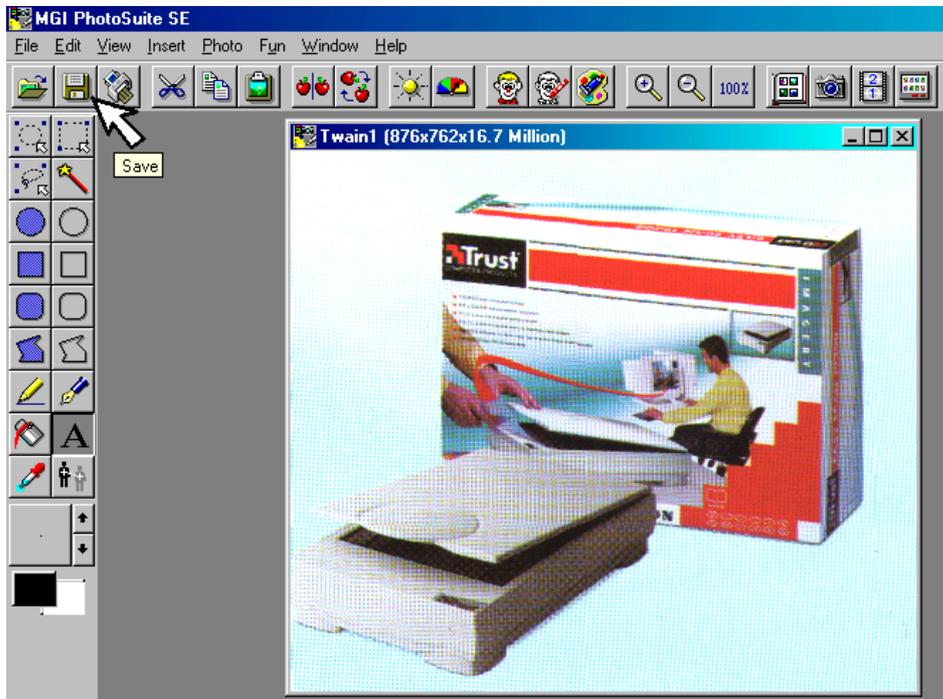


Figure 28: Saving an edited photograph

- Click on the 'Save' icon (see figure 28) to save the scanned image.
- In the next window, give the file name, the file type and the location where you wish to save the photograph.

This was only a short description of MGI PhotoSuite SE. See the instruction manual provided for more information about this program.

6. Working with TextBridge Classic

TextBridge Classic is a program used for scanning text and converting it into a document so that it can be edited using a word processor. A detailed manual for this program is included on the CD-ROM.

6.1 Settings

1. Start TextBridge Classic.
2. Click on 'File'.
3. Next, click on 'Select Scanner...'. A new window will appear.
4. Next, select the 'Trust Flat Scan USB 19200'.
5. Click on 'OK'.
6. A language must now be selected for the document to be scanned. Click on 'Process'.
7. Click on 'Settings'. A new window will appear.
8. Click on the 'Processing' tab.
9. Select the language you wish to use in the 'Process With' box (see figure 29).

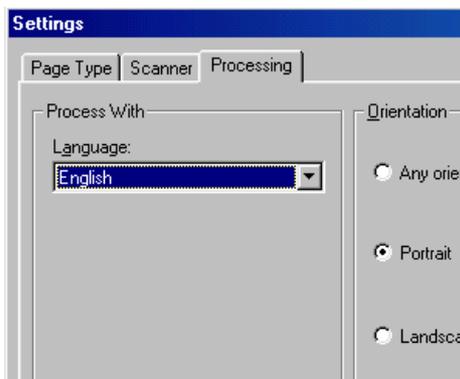


Figure 29: Selecting the language

10. Click on 'OK'.
- You have now completed the TextBridge Classic settings. Continue to chapter 6.2.

6.2 Scanning with TextBridge Classic

Note: To show some non-English characters, e.g. Polish characters, 'Multilanguage Support' should be selected in Windows. See the Windows 'Help' function for more information. You should also make sure your application is capable of showing non-English language characters.

1. Place the document to be scanned on the scanner.



- Click on the 'Auto Process' button (see figure 30).



Figure 30: Auto Process button

- A new window will be opened. Select the type of document.
- Set 'Page Source' to 'Scanner' by clicking on it (see figure 31).

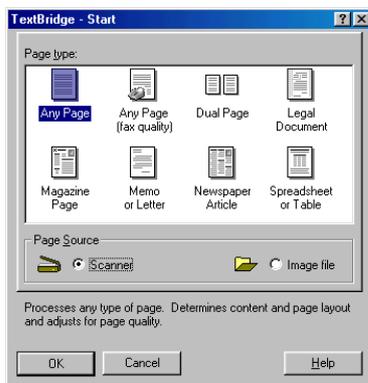


Figure 31: Selecting 'Page Source'

- Click on 'OK'. The main TWAIN window will be opened (see figure 20).
- Click on 'Make a preview of the image' to make a preview scan.
- Using the mouse, select the area you wish to scan.
- Select the 'Easy' tab.
- Select the option 'Text document' for 'Scan Object'.
- Click on 'Scan the image'. The scanned document will be automatically sent to the application.
- After completing the scan, TextBridge will start the OCR process of the scanned document and ask if you wish to scan additional documents.
- Click on 'More Pages' or 'Other Side' to scan more pages.
- Click on 'No More' to stop scanning.
A window will then be displayed which will ask you to save the scanned text.
- Under 'File Name', type a name for the text produced.
- Under 'Save as Type', select the format of the file. Select a file format that will be recognized by your word processor. If in doubt, select 'ASCII Std. (*.txt)'.
- Click on 'Save' to save the file. This completes the OCR process.
- Close TextBridge Classic.

You need a word processing program in order to edit the scanned text you have just saved to disk. Start the program and load the file you just saved in point 14.

TextBridge Classic includes a number of advanced options. See the on-line help functions and the documentation on the CD-ROM for more information.

7. Troubleshooting

If your Trust Flat Scan USB 19200 does not work correctly, check the points given in the table below. If this does not help to solve the problem, check the FAQ's and the latest version of the driver on the Internet (www.trust.com), or contact your dealer or the Trust Helpdesk. The following details will be required:

1. Operating system
2. Hardware configuration
 - Processor (MHz)
 - Memory (MB)
 - Free hard disk space (MB)
 - Monitor adapter: resolution and number of colours
3. Scanner settings
 - Scan mode (colour, greyscale, black-and-white)
 - Resolution (dpi)
 - Transfer to (application, printer, etc.)
 - Size
4. Version of the TWAIN program (see readme.txt on the CD-ROM).
5. Name and version of the application software.
6. The exact error message or a good description of what does not work and when it happens.

Problem	Possible cause	Solution
The computer does not recognize the scanner.	The scanner may not be connected to the computer correctly.	Check whether the scanner has not been correctly connected to the USB port. See chapter 3.2.
The error message 'Cannot operate!' is displayed.	The USB cable has not been connected correctly.	Connect the USB cable correctly. See chapter 3.2.
	The scanner driver has not been installed correctly.	Reinstall the TWAIN driver.
The scan command is not carried out.	The scanner has not been connected to the computer correctly.	Check whether the scanner has been connected correctly. See chapter 3.2.
The scan is too dark.	Monitor is set too dark.	Adjust the brightness of the monitor.
	The number of colours for your monitor adapter is set too low.	Adjust your monitor adapter to a minimum of 65,535 colours (16 bit).
Low scan quality.	Resolution is set too low.	Set your resolution to 600 dpi.
	The number of colours for your monitor adapter is set too low.	Adjust your monitor adapter to a minimum of 65,535 colours (16 bit).
	The glass plate is dirty. Dirt on the glass plate shows up in the scanned image.	Thoroughly clean the scanner glass plate.



Problem	Possible cause	Solution
Scanner operates very slowly.	A too high resolution has been set.	For normal purposes, a maximum resolution of 600 dpi should be enough. Only use higher resolutions for small originals.
	Insufficient memory.	You need a minimum of 16MB RAM. 32 MB is recommended.
An error message is displayed during the scanning process.	The hard disk is full.	You need 3 times the space required by the scanned image as free space on your hard drive. Make some free space on your hard drive or use a lower resolution.
	Resolution is set too high.	For normal purposes, a maximum resolution of 600 dpi should be enough. Only use higher resolutions for small originals.

8. Specifications

Type	Flatbed, CIS scanner
Optical resolution (H x V)	600 x 1.200 dpi
Maximum resolution	19.200 x 19.200 dpi
Scan method	Single Pass
Scan uses	<ul style="list-style-type: none">• 1 bit black-and-white• 12 bit greyscale• 36 bit colour
Document size	216 x 297 mm (A4) 8.5 x 11.7 inch (Letter)
Interface	USB
Dimensions (W x H x D)	270 x 45 x 385 mm
Weight (excl. packaging)	2.3 kg

9. Trust Service Centres

Inhabitants of Great Britain and Ireland should contact:	
	GB Office
From: 9:30 - 17:00	Internet www.trust.com E-mail support-uk@trust.com Fax +44-(0)1376-514633 Tel. +44-(0)1376-500000
Inhabitants of Italy should contact:	
	Italian Office
From: 9:00 - 13:00 / 14:00 - 18:00	Internet www.trust.com E-mail support-it@trust.com Fax 051-6635843 Tel. 051-6635947
Inhabitants of France and North Africa should contact:	
	French Office
From: 9:00 - 17:00	Internet www.trust.com E-mail support-fr@trust.com Fax +33-(0)1-48174918 Tel. +33-(0)1-48174931
Inhabitants of Germany should contact:	
	German Office
From: 9:00 - 17:00	Internet www.trust.com E-mail support-de@trust.com Fax 02821-58873 Tel. 0800-00TRUST (=0800-0087878)
Inhabitants of Spain should contact:	
	Spanish Office
From: 9:00 - 17:00	Internet www.trust.com E-mail support-es@trust.com Fax +31-78-6543299 Tel. +31-78-6549999
Inhabitants of the Netherlands should contact:	
	Dutch Office
From: 9:00 - 17:00	Internet www.trust.com E-mail support-nl@trust.com Fax 078-6543299 Tel. 0800-BELTRUST (=0800-23587878) of 078-6549999
Inhabitants of all other European countries should contact:	
	European Head Office
From: 9.00 - 17.00	Internet www.trust.com E-mail support@trust.com Fax +31-78-6543299 Tel. +31-78-6549999