

UK

TRUST SPACEC@M 350 PORTABLE

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 via our Internet site at www.trust.com so that you can receive optimal guarantee and service support. You will be automatically informed of developments to your product and other Trust products. You will also have the chance of winning some spectacular prizes.

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1. Introduction

This instruction manual is for the Trust SpaceC@m 350 Portable. Basic knowledge of computers is necessary to be able to install this product. Please consult one of the Trust Customer Care Centers if you have any problems. The last page of this electronic instruction manual, as well as the back of the printed installation manual, contains more information about these Customer Care Centers.

1.1 Conventions used in the manual

The following conventions have been used in the 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 terms used by, for example, Microsoft Windows 98.
- [DIR]** Type the text shown between brackets [...].

Extra information will be shown as follows:

Note: *If you connect the 'Trust SPACEC@m 350 PORTABLE' to a USB HUB, then this USB HUB should have its own power supply.*

The examples assume that the letter "D" has been assigned to your CD-ROM drive. If your system uses a different letter for your CD-ROM drive, for example "E", you should replace "D" by "E".

1.2 Contents of the box

Check the contents of the box before reading the instruction manual. It should contain the following:

- Camera
- Headset with microphone
- Rubber strip for the clip
- CD-ROM containing the driver and the applications

If anything is missing or damaged, please contact one of the Trust Customer Care Centers. You can find more information at the end of this instruction manual.

1.3 Minimum system requirements

- Intel Pentium 200 MMX CPU or higher
- USB port
- Windows 98 / Windows ME / Windows 2000 / Windows XP / MAC OS 8.6 or later versions
- 32 MB RAM (64 MB recommended)
- 60 MB free hard disk space
- 4-speed CD-ROM drive

Recommended system configuration for full use of the applications

- ISDN adapter or modem
- Sound card with speakers and microphone connection
- Internet connection



2. Safety

2.1 General information

1. Do not use this device in a damp environment.
2. Do not try to repair this device yourself.
3. Under the following circumstances, have the device repaired by qualified personnel:
 - a) The cable or plug is damaged or worn.
 - b) Liquid has entered the device.
 - c) The device has been dropped and/or the casing has been damaged.
4. Position the device so that the cables cannot be damaged.

3. 'Trust SPACEC@M 350 PORTABLE' functions

3.1 Camera functions

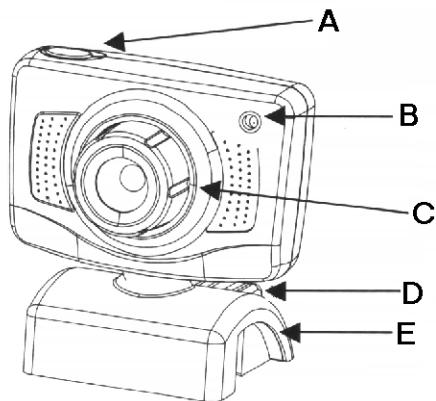


Figure 1: 'Trust SPACEC@M 350 PORTABLE' functions

A	Exposure button	D	Clip
B	Indication LED	E	Notebook clip
C	Focus ring		

Table 1: SPACEC@M 350 PORTABLE functions

4. Installing the driver

4.1 Windows 98 / Windows ME

1. Connect the camera's USB connection to a free USB port on your computer. Windows will detect new hardware and ask for the location of the driver. Figure 2 will appear.



Figure 2: Installation in Windows 98 / Windows ME

2. Click on 'Next'. Figure 3 will appear.



Figure 3: Installing the driver

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



Figure 4: Installing the driver

4. Type [D:\Driver] and click on 'Next'. Follow the on-screen instructions. Figure 5 will appear after the installation.



Figure 5: Installing the driver

5. Click on 'Finish' to complete the installation.
6. Connect the headset and the microphone to your sound card (refer to the symbols on both plugs).

You have now completed the installation of the driver. Continue to chapter 5 for instructions on how to install the software.

4.2 Windows 2000

1. Connect the camera's USB connection to a free USB port on your computer. Windows 2000 or Windows ME will detect new hardware and ask for the location of the driver. Figure 6 will appear.

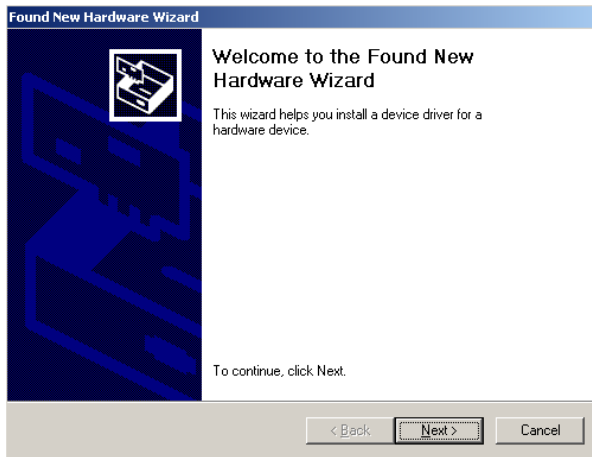


Figure 6: Installation in Windows 2000

2. Click on 'Next'. Figure 7 will appear.



Figure 7: Installation in Windows 2000

3. Click on 'Next'. Figure 8 will appear.

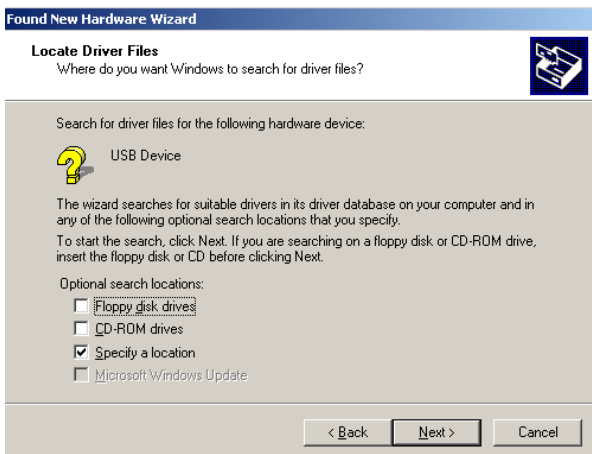


Figure 8: Installation in Windows 2000

4. Select 'Specify a location' and click on 'Next.' Figure 9 will appear.

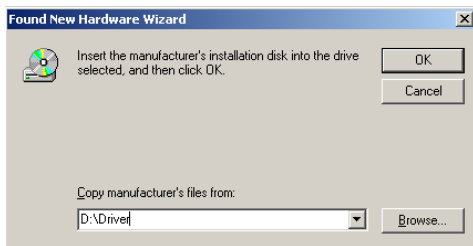


Figure 9: Installation in Windows 2000

5. Type [D:\Driver] and click on 'OK'. Follow the on-screen instructions. Figure 10 will appear after the installation.



Figure 10: Installing the driver

6. Click on 'Finish' to complete the installation.

You have now completed the installation of the driver. Continue to chapter 5 for instructions on how to install the software.

4.3 Windows XP

1. Make sure you have downloaded the latest Windows XP update from the Internet.
2. Connect the camera's USB connection to a free USB port on your computer. Windows XP will detect new hardware and ask for the location of the driver. Figure 11 will appear.

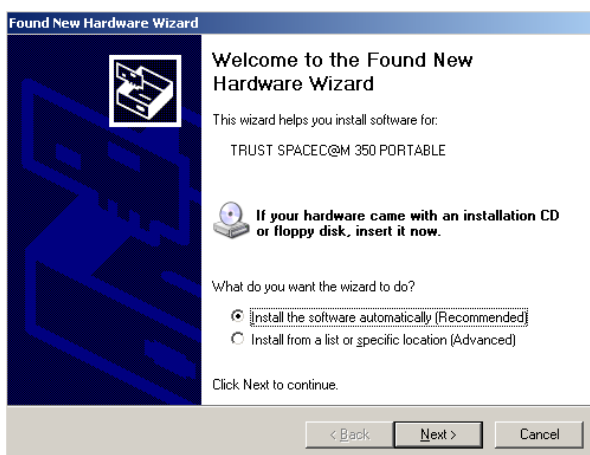


Figure 11: Installation in Windows 2000

3. Select 'Install software automatically (Recommended)' and click on 'Next'. Figure 12 will appear.



Figure 12: Installation in Windows 2000

You can ignore this message, because it does not affect the functionality of the driver. It only means that the driver has not (yet) been fully certified by Microsoft at the time this instruction manual was written. Click on 'Continue Anyway' to continue with the installation. Figure 13 will appear after the installation.

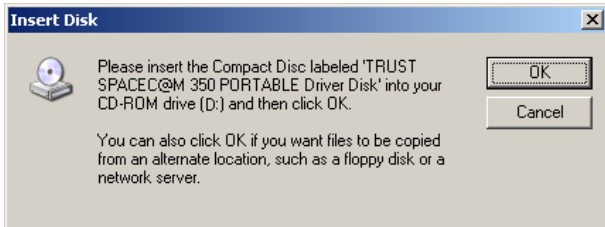


Figure 13: Installation in Windows 2000

4. Insert the CD-ROM containing the driver into your CD-ROM drive. Figure 14 will appear.



Figure 14: Installation in Windows 2000

5. Click on 'Finish' to complete the installation.
6. You have now completed the installation of the driver. Continue to chapter 5 for instructions on how to install the software.

4.4 Mac OS 8.6

The Trust SPACEC@M 350 is also suitable for Mac computers using Mac OS 8.6 or later versions. Follow the instructions given below to install the driver onto your Mac system.

1. Turn on your system and wait until it has fully started.
2. Insert the CD-ROM containing the drivers into your CD-ROM drive and wait until the CD-ROM icon appears on your desktop.
3. Double-click on the CD-ROM icon to view the contents of the CD-ROM.
4. Double-click on the 'DriverMac' folder.
5. Double-click on the 'USBCamera installer' file to start the installation of the driver.
6. A new window will appear after the installation has been completed. Click on 'Quit' to finish the installation.
7. Connect the camera's USB connection to a free USB port on your computer.
8. The camera will be automatically detected and is ready for use.

5. Installing the software

5.1 Installing Ulead Photo Explorer 6.0 (Windows 98 / Windows ME / Windows 2000 / Windows XP)

Ulead Photo Explorer 6.0 is an image editing program that can be used to load and edit the photographs on your PC which you have taken using your SPACEC@M 350 PORTABLE. Follow the instructions below to install Ulead Photo Explorer 6.0.

1. Go to 'Start – Run' and type [D:\SETUP.EXE]. Figure 15 will appear.

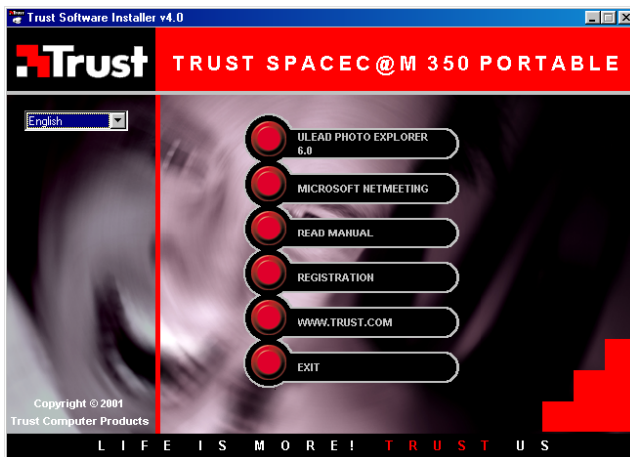


Figure 15: Installing Ulead Photo Explorer 6.0

2. Click on 'ULEAD PHOTO EXPLORER 6.0' to start the installation. Figure 16 will appear.

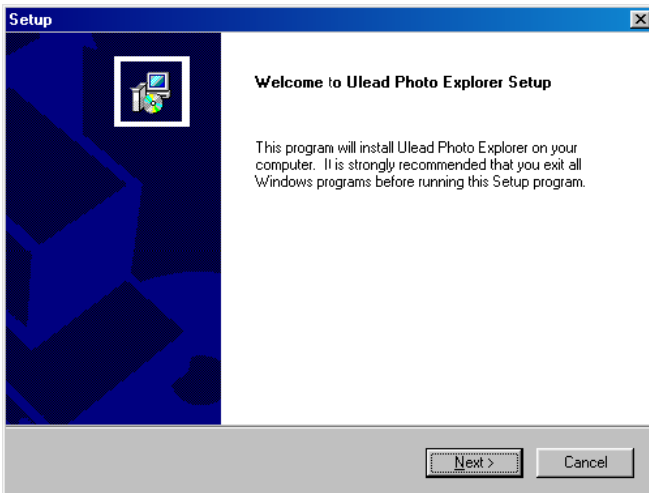


Figure 16: Installing Ulead Photo Explorer 6.0

3. Click on 'Next'. Figure 17 will appear.

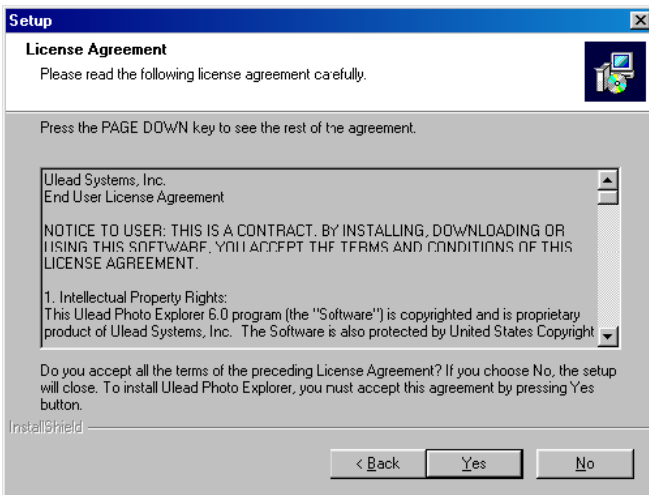


Figure 17: Installing Ulead Photo Explorer 6.0

4. Click on 'Yes' to accept the license agreement and continue with the installation. Figure 18 will appear.

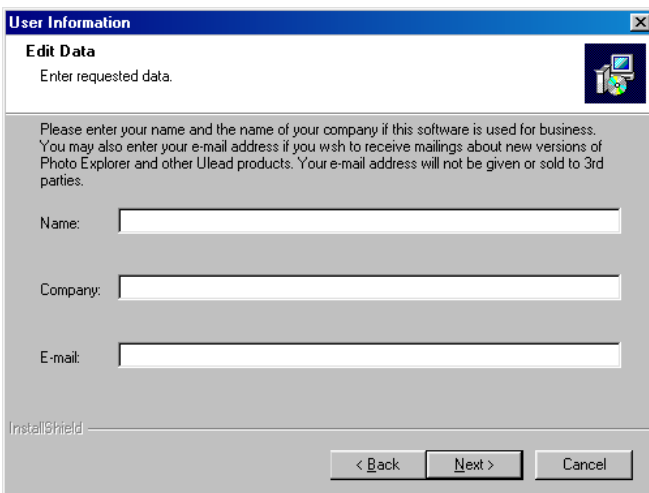


Figure 18: Installing Ulead Photo Explorer 6.0

5. Enter your information and click on 'Next'. Follow the on-screen instructions. Figure 19 will appear after the installation.

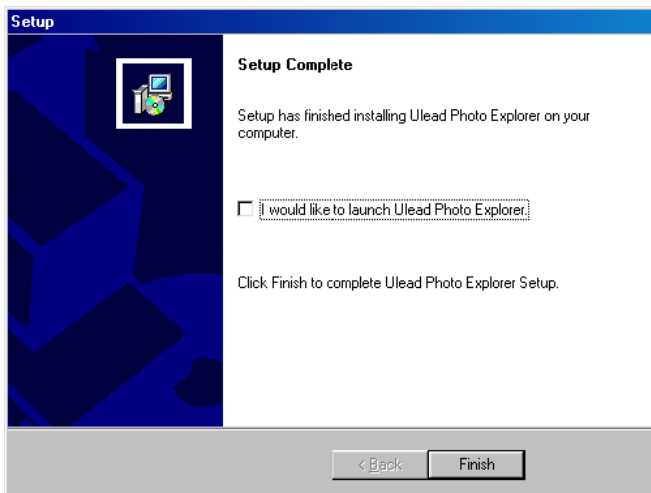


Figure 19: Installing Ulead Photo Explorer 6.0

- Do not select the option 'I would like to launch Ulead Photo Explorer' and click on 'Finish' to complete the installation.

You have now completed the installation of Ulead Photo Explorer 6.0 SE. See chapter 5.2 for instructions on how to install NetMeeting.

5.2 Installing Microsoft ® NetMeeting

NetMeeting is a program that is supplied with Windows. With this program, you can use the Trust SpaceC@m 350 Portable as a webcam.

NetMeeting is installed as follows.

- Click on the 'Start' button in the bottom left-hand corner of your desktop.
- Go to NetMeeting via 'Programs -> Accessories -> Internet Tools' using the left mouse button (see figure 20).

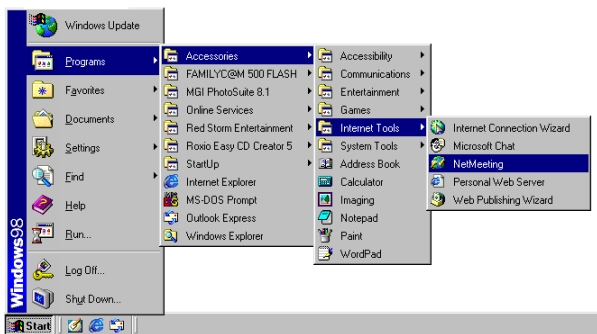


Figure 20: Installing Microsoft ® NetMeeting

- Left-click on 'NetMeeting' to start the installation. Figure 21 will appear.





Figure 21: Installing Microsoft ® NetMeeting

4. Click on 'Next' to continue. Figure 22 will appear.

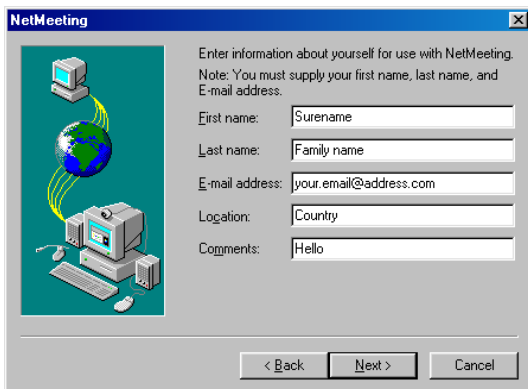


Figure 22: Installing Microsoft ® NetMeeting

5. Fill in your details, such as your Christian name, your surname, your e-mail address, your country and a comment that you would like to be displayed in the list. Click on 'Next'. Figure 23 will appear.



Figure 23: Installing Microsoft ® NetMeeting

6. If you do not want to be displayed in the NetMeeting list, select 'Do not list my name in the directory' and click on 'Next' to continue. Figure 24 will appear.

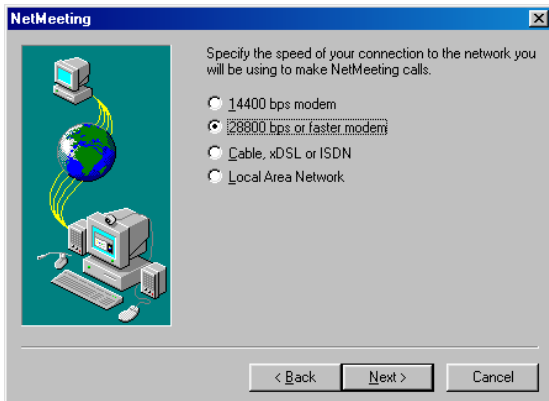


Figure 24: Installing Microsoft ® NetMeeting

7. Select the type of connection you use and click on 'Next'. Figure 25 will appear.

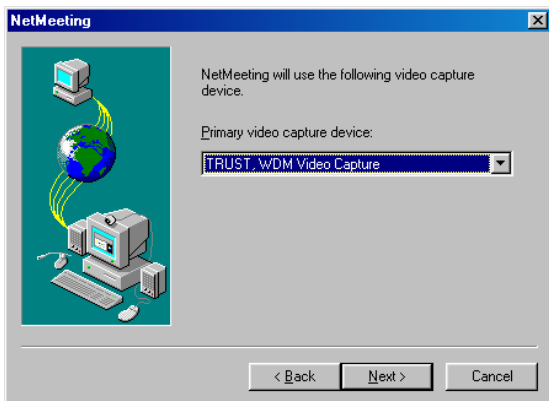


Figure 25: Installing Microsoft ® NetMeeting

8. Select the ' TRUST SPACEC@M 350 PORTABLE ' as the camera you wish to use for NetMeeting and click on 'Next' to continue. Figure 26 will appear.



Figure 26: Installing Microsoft ® NetMeeting

9. Select 'Put a shortcut to NetMeeting on my desktop' if you wish to have a shortcut to NetMeeting on your desktop.
 Select 'Put a shortcut to NetMeeting on My Quick Launch bar' if you wish to have a shortcut to NetMeeting on your Windows taskbar. You do not have to select either option if you do not wish to.
10. Click on 'Next' to continue. Figure 27 will appear.



Figure 27: Installing Microsoft ® NetMeeting

11. Click on 'Next' to set and test the audio settings for NetMeeting. Figure 28 will appear.

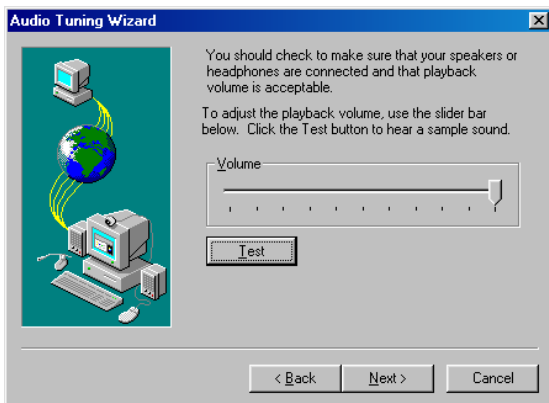


Figure 28: Installing Microsoft ® NetMeeting

12. Click on 'Test' to test your speakers. The 'Test' button will now change to a 'Stop' button. You will hear a noise from your speakers.
13. Set the desired volume using the slide bar. If you do not hear anything, then your sound card has not been installed correctly. See the instruction manual provided with your sound card for instructions on how to install it correctly. If you hear a noise, click on 'Stop'. Click on 'Next'. Figure 29 will appear.

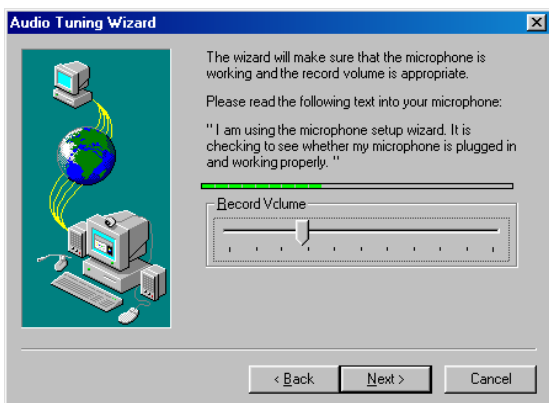


Figure 29: Installing Microsoft ® NetMeeting

Note: Make sure the microphone is connected to your sound card's microphone connection.

14. Speak through the microphone to test the microphone. The indicator must change position. If it moves into the yellow or red area, you should adjust the sensitivity using the 'Record Volume' slide bar until it moves into the green area. Click on 'Next' to continue. Figure 30 will appear.

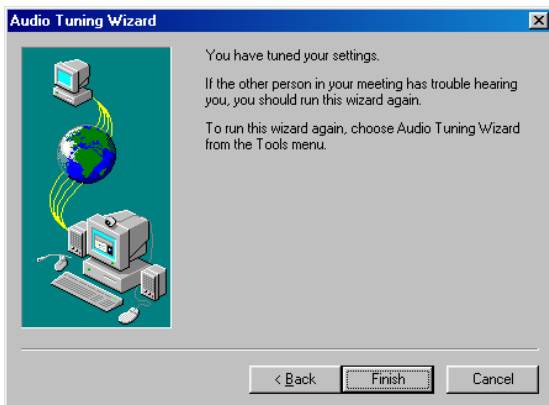


Figure 30: Installing Microsoft ® NetMeeting

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- Click on 'Finish' to complete the installation of NetMeeting. NetMeeting will now start automatically. See chapter 6.4 for instructions on how to use NetMeeting.

6. Using the camera

6.1 Positioning the camera

The camera can be positioned, placed and clicked in many different positions, such as on your notebook. Use the clip (D) to attach it to your notebook (see figure 1).

If there is too much space between the camera clip and the object to which it is attached, the rubber strip can be used to fill this space. Follow the instructions given below to attach this rubber strip.

- Clean and remove any grease from the area where the rubber strip is going to be stuck.
- Remove the white protective coating from the rubber strip.
- Position the strip as shown by the arrow in figure 31.

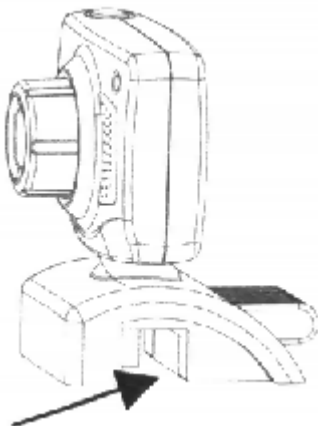


Figure 31: Fitting the rubber strip

- Push the rubber strip firmly into place on the desired object.

6.2 Trust SpaceC@m 350 Portable software

The Trust SpaceC@m 350 Portable program is installed during the installation of the camera. Follow the instructions given below to use this program.

- Go to 'Start - Programs - Trust - SpaceC@m 350 Portable' and click on 'Trust SpaceC@m 350 Portable'. Figure 32 will appear.



Figure 32: SpaceC@m 350 Portable software

	Description
File	For saving the edited recordings.
Devices	For selecting the recording device.
Options	For adjusting the camera and sound settings, such as the brightness, contrast, colour, audio format, etc.
Capture	For making video recordings.
Help	For more information about the program.

Table 2: SpaceC@m 350 Portable software

- This program can be used to take photographs and to make short video recordings. Click on the Help function for more information.

6.3 Using Ulead PhotoExplorer

A short description of how to use Ulead Photo Explorer 6.0 is given below. For more information, please see this program's instruction which is included on the CD-ROM.

- Start Photo Explorer 6.0 SE. Figure 33 will appear.

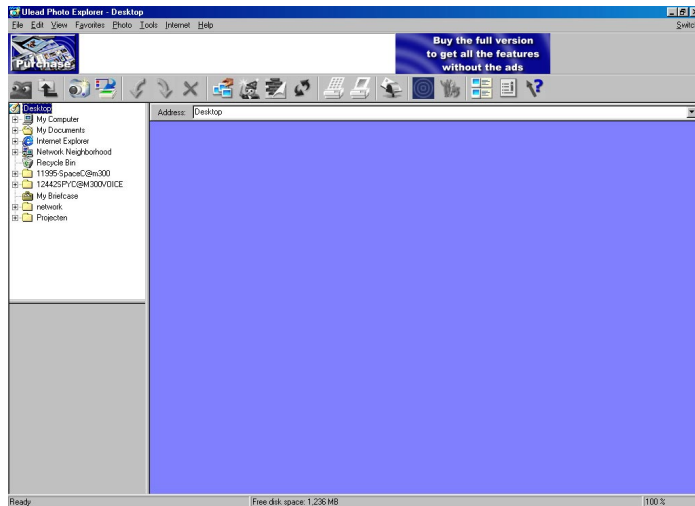


Figure 33: Photo Explorer main screen

- Go to 'File → TWAIN Acquire → Select Source'. Figure 34 will appear.

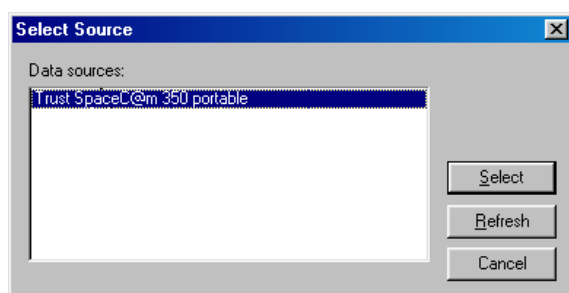


Figure 34: Selecting a camera

- Select the 'Trust SpaceC@m 350 Portable' and click on 'Select'.

The correct camera has now been installed and photographs can be loaded from the camera's memory.

- Go to 'File → TWAIN Acquire → Acquire Now'. Figure 35 will appear.

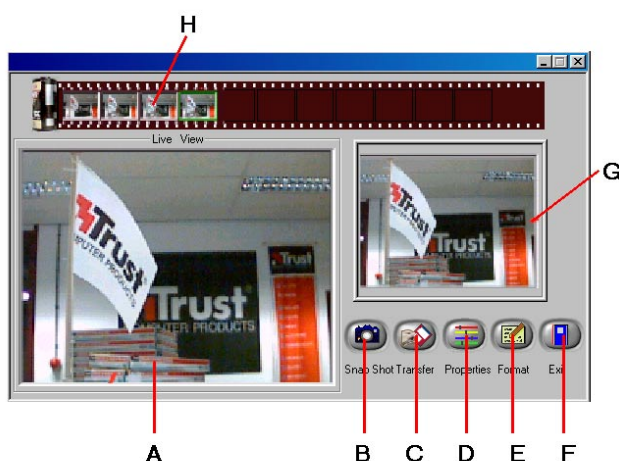


Figure 35: SpaceC@m 350 Portable software

Function	Description
A	This window displays the current camera image. See chapter 6.3.1 for instructions on how to adjust the image.
B	'Snap Shot' button: Takes a snapshot of the image (A). The snapshot is displayed in the window (G) and is added to the 'Thumbnails' (H). A snapshot can also be taken using the button on the camera.
C	'Transfer' button: Opens the snapshot displayed in the window (G) in the selected image editing program.
D	'Properties' button: Adjusts the camera settings.
E	'Format' button: For selecting the file format which the snapshot is saved in. Choose between BMP and JPEG formats. The compression can also be adjusted in the JPEG format.
F	'Exit' button: Closes the program.
G	This window displays the image of the snapshot.
H	This is where the 'Thumbnails' of the snapshots are placed. Click on the 'Thumbnails' to view the snapshot in the window (G).

Table 3: SpaceC@m 350 Portable software



6.3.1 Advanced image settings

Follow the instructions given below to adjust the image settings.

Note: Only adjust the settings if necessary. If the image settings are incorrect, this may cause problems for other applications (such as NetMeeting).

1. Click on the 'Properties' button (D). Figure 36 will appear.

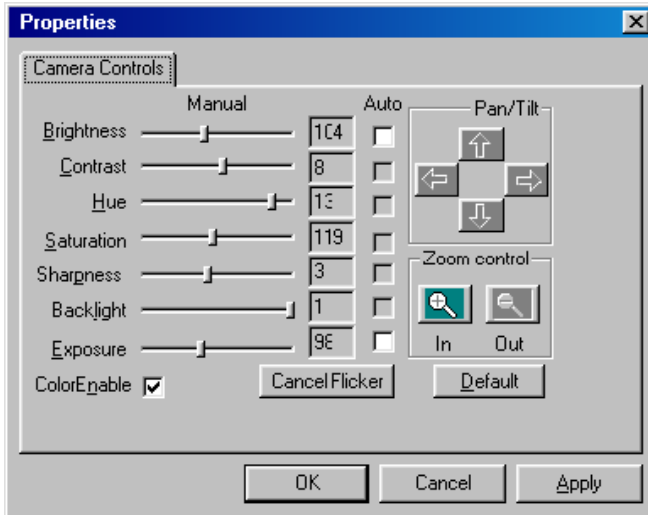


Figure 36: Camera settings

2. The camera settings, such as the brightness, contrast and image sharpness, can be adjusted here. It is also possible to zoom in on the image and to alter the size of the image.
3. Click on 'Apply' to save the new settings. Click on 'OK' to return to figure 35.

6.3.2 Taking a snapshot

Follow the instructions given below to take and edit a snapshot.

1. Click on the 'Snap Shot' button (B) or the camera button to take a snapshot. The image will be displayed in the window (G) and will be added to the 'Thumbnails' (H) (see figure 35).
2. A maximum of 10 'Thumbnails' can be displayed. If more snapshots are taken, you will receive a message telling you to save or remove some images.
3. Click on the 'Transfer' button (C) to transfer the selected image to the image editing program.
4. The image can then be edited and saved. If necessary, see the Help function of the image editing program.

For more information on how to edit photographs in Photo Explorer, please refer to this program's instruction manual on the CD-ROM: D:\Software\Pex6\C360.pdf

6.4 Using Microsoft ® NetMeeting

1. Make sure you have an Internet account installed before starting NetMeeting.

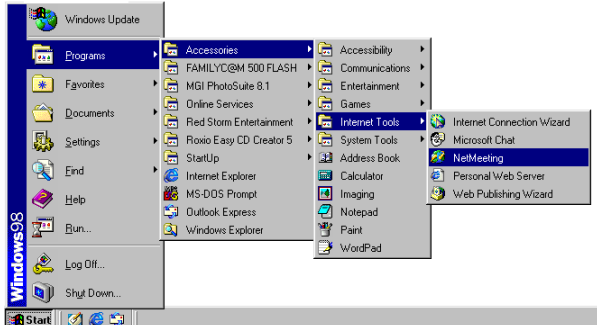


Figure 37: Starting NetMeeting

2. Start NetMeeting (Start -> Programs -> Accessories -> Internet Tools -> NetMeeting) (see figure 37).
3. Two windows will be opened, namely NetMeeting and your Dial-up connection (see figure 38).

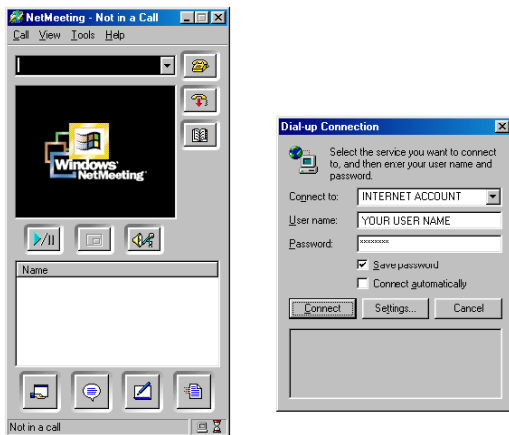


Figure 38: Using Microsoft ® NetMeeting

4. Fill in your user name and password and click on 'Connect' to connect to the Internet.
5. Once a connection has been made with the Internet, only the NetMeeting window will remain visible (see figure 39).

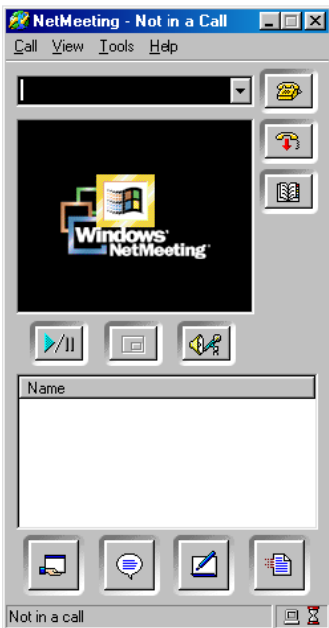


Figure 39: Using Microsoft ® NetMeeting

6. A number of settings should be made only once. Go to 'Tools -> Options...'. Figure 40 will appear.



Figure 40: Once-only settings for Microsoft ® NetMeeting

7. Click on the 'Video' tab. Figure 41 will appear.

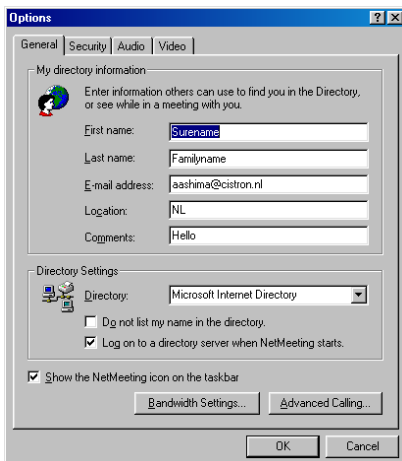


Figure 41: Once-only settings for Microsoft ® NetMeeting

8. To prevent a mirror image of your camera, do not select 'Show mirror image in preview video window'. Image settings, such as the image size and quality, can also be changed in this window. Click on 'OK' to save the new settings and return to the start window of NetMeeting (see figure 39). The once-only settings have now been completed.
9. Click on 'View' (see figure 39) and select the 'My Video (New Window)' option. An extra window ('My Video') will now be opened (see figure 42).



Figure 42: Using Microsoft ® NetMeeting

10. Click on the 'Play' button (▶/||) to turn on your current video image. This image will also be seen by the person you make a NetMeeting connection with.
11. You are now ready to make a NetMeeting connection. Click on the telephone book icon (see figure 39). Figure 43 will appear.



Figure 43: Using Microsoft ® NetMeeting

12. In the address bar, type 'ils server name' (for example, ils.worldonline.nl) and click on 'Enter'. Figure 44 will appear.

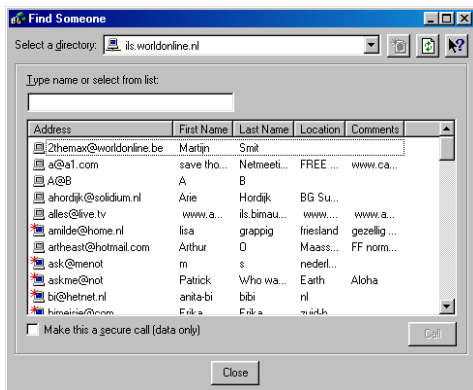


Figure 44: Using Microsoft ® NetMeeting

13. Double-click on a person in the list. A NetMeeting connection will be made.

The person may not wish to make a connection with you, because this person may be communicating with somebody else. If this is the case, select somebody else from the list.

You can find other ils server addresses on the Internet.

For more information or instructions on how to solve problems, click on 'Help' (see figure 39). This contains a description of all the functions available with NetMeeting.

6.5 Webcam & Internet

The Trust SPACEC@M 350 PORTABLE can also be used as a webcam, for example, on your Internet page. A number of informative sites about webcams are given below:

<http://www.camarades.com>

<http://www.teveo.com>

At these sites, you can download software that you can use to send live video images over the Internet. Please refer to the sites concerned for information on how to install and use the software.



7. Troubleshooting

Problem	Cause	Possible solution
Windows does not detect a new device after connecting the camera.	The computer's USB port does not work.	Delete the USB port from the 'Device Manager' and reinstall it.
The computer becomes jammed when using the USB connection.	The USB port has shared an IRQ with another device.	Remove cards from your computer or divide them differently. See your Windows and/or PC instruction manual for more information.
Error message 'Capture device was not detected' is displayed.	The camera is not connected to the USB port.	Connect the camera to a USB port.
	The camera is connected to a USB HUB which does not have a power supply.	Connect the camera to a USB HUB which has a power supply or to a USB port on your computer.
The Trust SpaceC@m 350 Portable is marked with an exclamation mark '!' in the 'Device Manager'.	The camera is connected to a USB HUB which does not have a power supply.	Connect the camera to a USB HUB which has a power supply or to a USB port on your computer.
A photograph cannot be taken using the Snap Shot button.	The 'Trust SpaceC@m 350 Portable' program is not running.	Start the 'Trust SpaceC@m 350 Portable' program.
The camera does not give an image in the application.	Another application is open and is using the camera image.	Close the other application first before starting the test program.
	The camera is not correctly connected to the USB port.	Connect the camera correctly to the USB port.
The SPACEC@m 350 PORTABLE does not work in combination with the TV / capture card.	There is a conflict between the camera and the TV card.	Carry out the following: 1) Remove the TV Capture card 2) Install the SPACEC@m 350 PORTABLE 3) Install the TV Capture card
The problem is not listed here.	The latest FAQ update is available on the Internet.	Go to www.TRUST.com/12777 for FAQ and other product information.

Table 4: Troubleshooting

Check the FAQ's on the Internet (www.trust.com). You can also register your product at www.trust.com, so that you can receive optimal guarantee and service support. You will be automatically informed of developments to your product and other Trust products. You will also have the chance of winning some spectacular prizes.

If you have a problem with the USB connection, please refer to www.trust.com/customer-care/help/usb. This contains a number of tips which may help to solve the problem with the USB connection.

If you still have problems after trying these solutions, please contact one of the Trust Customer Care Centers. The last page of this electronic instruction manual, as well as the back of the printed quick installation manual, contains more information. Please have the following information available:

- The article number. This is 12777.
- Your hardware information.
- A good description of what does not work.
- A good description of when the problem occurs.

8. Specifications

Sensor type	CMOS
Image sensor	1/3"
Focus	Manual focus
Pixel resolution	300K (640x480)
Colour depth	24 bit (16.7 million colours)
Distance	5 cm to infinity
Exposure	1/60 – 1/25,000 sec
Minimum lighting	50 Lux
Data transfer speed	60 fps for the 160 x 120 image format
	30 fps for the 320 x 240 image format
	15 fps for the 640 x 480 image format
TWAIN interface	Yes
Connection	USB 1.0
Power supply	Via the USB port
Size (HxWxD)	70 x 70 x 65
Weight	100 grams

Table 5: Technical specifications

9. Trust Customer Care Centers

www.trust.com	
Residents in the UK and Ireland should contact:	
From 8:00 - 16:00	UK Office Phone +44-(0)0845-6090036 Fax +44-(0)1376-514633
I residenti in Italia possono contattare:	
Orario: 9:00 - 13:00 / 14:00 - 18:00	Ufficio italiano Telefono +39-051-6635947 Fax +39-051-6635843
Les habitants de la France et de l'Afrique du Nord peuvent contacter :	
De 9:00 à 17:00	Bureau français Téléphone +33-(0)825-083080 Fax +33-(0)1-48630261
Kontaktadresse für Einwohner Deutschlands:	
Erreichbar: 9:00 - 17:00	Deutsche Geschäftsstelle Telefon 0800-00TRUST (0800-0087878) Fax +44-(0)2821-58873
Los habitantes de España pueden ponerse en contacto con:	
De las 9:00 a las 17:00 horas	Oficina española Teléfono +34-(0)902-160937 Fax +31-(0)78-6543299
Inwoners van Nederland kunnen contact opnemen met:	
Van 9:00 - 17:00 uur	Kantoor Nederland Telefoon 0800-BELTRUST (0800-23587878) Fax +31-(0)78-6543299
All other countries / Alle anderen Länder / Tous les autres pays Tutti gli altri paesi / Todos los demás países / Alle andere landen	
From: 9:00 - 17:00	European Head Office Phone +31-(0)78-6549999 Fax +31-(0)78-6543299