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1 Introduction

This instruction manual is for users of the TRUST 620 LCD POWERC@M ZOOM. The TRUST 620 LCD POWERC@M ZOOM can be used to take photographs, to record live video images and can also be used as a webcam for chatting on the Internet. The applications supplied with the camera have a wide range of options for editing photographs and video recordings.

When the Trust 620 LCD PowerC@m Zoom is connected to your computer, it can be accessed directly like a removable disk. You can directly open the photographs and video recordings, edit them, send them via e-mail, save them on your computer, etc.

2 Safety

2.1 General information

Carefully read the following instructions before use.

- The TRUST 620 LCD POWERC@M ZOOM does not require any special maintenance. Use a slightly damp, soft cloth to clean the camera.
- Do not use aggressive substances, such as white spirit, to clean the device. These may harm the material.
- Do not submerge the device in liquid. This may be dangerous and will damage the device. Do not use this device near water.
- Make sure nothing is placed on the cable. Do not use this device in an area where the cable can become worn or damaged as a result of people walking over it.
- Do not repair this device yourself. If you open this device, you may touch live components.
- Under the following circumstances, have the device repaired by qualified personnel:
 - The cable or plug is damaged or worn.
 - The device has come into contact with rain, water or another liquid.

2.2 Batteries

- The alkaline batteries supplied with the camera are not rechargeable. Do not try to recharge them, because this may cause them to explode.
- Never throw the batteries onto an open fire. The batteries may explode.

- Never drill holes into the batteries.
- Keep the batteries out of the reach of small children.
- Only use AA alkaline batteries with this camera. Duracell Ultra batteries are recommended for use with the camera. You can also use rechargeable AA NIMH batteries (minimum 1700 mAh).
- When the alkaline batteries are empty, ask your local authority where you can dispose of them.

Note: *Standard AA NiCd batteries are unsuitable for use with this device.*

Note: *Do not use old and new batteries at the same time, because the old batteries may deplete the new ones.*

Note: *The batteries should be removed if the camera is not going to be used for some time. This will save the battery capacity.*

3 Installation

3.1 Uninstalling old drivers and devices

The most common cause of faults during installation is the presence of a driver for a similar, old device. The best solution is to first remove all drivers related to old devices before installing the new driver. Make sure you only delete programs for old, unused (similar) devices.

1. Enter the Windows 'Safe Mode'. (Press F8 when starting Windows before the Windows start screen is displayed and select 'Safe Mode'.).
2. Click on 'Start – Settings – Control Panel' and double-click on the 'Add/Remove Programs' icon.
3. Find all the programs for similar, old devices and remove these by clicking on the 'Add/Remove' button. When in the 'Safe Mode', it is possible for some programs to appear twice. In that case, remove all the programs which appear twice.
4. Restart the computer.

3.2 Installing the driver in Windows 98 / Windows ME / Windows 2000 / Windows XP

Note: *You must first install the driver before connecting the Trust 620 LCD PowerC@M Zoom to your computer.*

Note: *The latest drivers can be downloaded from www.trust.com/13327. Check whether a new driver is available and use this for the installation.*

Note: *Make sure all other programs (except Windows) are closed during the installation.*

Note: *During installation in Windows 2000 and Windows XP, you may receive a message saying that the driver has not been signed. This does not cause a problem for the functionality. Continue with the installation.*

1. Start Windows.
2. Insert the CD-ROM containing the drivers and applications into your CD-ROM drive.
3. The Trust Software Installer will start automatically (see figure 1). If it does not start automatically, click on 'Start – Run', type [D:\SETUP.EXE] in the command line and click on 'OK'.

Note: *In the example, 'D' is used to indicate the CD-ROM drive. Check which letter is used to indicate your CD-ROM drive.*

4. Click on 'Digital Camera Driver v1.0' to start the installation of the driver (see figure 1). The driver consists of 2 components, namely an MSDC (USB Mass Storage Device) for the photographic camera function and a PC-Cam (WDM Web camera) for the webcam function. Both components are installed simultaneously.

Note: *By default, Windows ME, Windows 2000 and Windows XP support MSDC and the camera will be recognized as a USB Mass Storage Device. Only the WDM Web camera component of the driver will be installed from the CD-ROM.*

5. The installation window will appear. Click on 'Next' and follow the on-screen instructions to install the driver.
6. After the driver has been installed, click on 'Finish' to complete the installation process and restart your computer.



3.3 Installing Microsoft DirectX 8.1b

Note: *See www.microsoft.com/directx for the latest driver. You can also read the FAQ's here.*

Note: *DirectX 8.1b is only suitable for Windows 98, Windows ME and Windows 2000.*

Install Microsoft Direct X 8.1b for the best MultiMedia support for your camera in programs such as Microsoft NetMeeting. Follow the instructions given below to install DirectX 8.1b.

1. Follow points 1 to 3 in chapter 3.2 to start the Trust Software Installer (see figure 1).
2. Click on 'Microsoft DirectX 8.1b' to start the installation.
3. Follow the on-screen instructions.
4. Restart your computer after the installation.

Note: *The installation button for DirectX is disabled in Windows XP. By default, Windows XP already has DirectX 8.1. To install later releases of DirectX in Windows XP, use the 'Windows Update' option or install Windows XP Service Pack 1.*

3.4 Installing Microsoft NetMeeting 3.01

NetMeeting is a program which is included with Windows 98, Windows ME, Windows 2000 and Windows XP. With this program, you can use the Trust 620 LCD PowerC@m Zoom as a webcam. The latest version of NetMeeting (3.01) for Windows 98 and Windows ME is included on the CD-ROM. Windows 2000 already has NetMeeting 3.01. The latest version can also be downloaded for free from www.microsoft.com/windows/netmeeting.

Although installed in Windows XP, NetMeeting is not visible. Windows Messenger is used instead. Carry out the following to use NetMeeting in Windows XP.

1. Start Windows XP.
2. Click on 'Start – Run', type [**Conf**] in the command line (without the brackets) and click on 'OK'
3. The NetMeeting installation window will appear after approximately 30 seconds (the length of time depends on the speed of your computer). Follow the on-screen instructions.

Follow the instructions given below to install Microsoft NetMeeting 3.01 in Windows 98 and Windows ME from the installation CD-ROM provided with the camera.

Note: *The installation button for NetMeeting in the Trust Software Installer is disabled in Windows 2000 and Windows XP. Use the 'Windows Update' option to download later releases of NetMeeting in Windows 2000 and Windows XP.*

1. Follow points 1 to 3 in chapter 3.2 to start the Trust Software Installer (see figure 1).
2. Click on 'Microsoft NetMeeting 3.01' to start the installation in Windows 98 or Windows ME.
3. Follow the on-screen instructions.
4. Restart your computer after the installation.
5. Click on 'Start' in the bottom left-hand corner of your Windows desktop, point to 'Programs' and click on 'NetMeeting'.
6. Click on 'Next' to continue.
7. 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. Next, click on 'Continue'.
8. If you do not want to be displayed in the NetMeeting list, select 'Do not list my name in the directory'. Click on 'Next' to continue with the installation. Follow the on-screen instructions.
9. You must select a camera during the installation. Select the Mega Pixel Camera as the camera you wish to use for NetMeeting and click on 'Next' to continue.
10. 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.
11. Click on 'Next' to continue with the installation. Follow the on-screen instructions to configure the audio and image settings.
12. At the end of the installation process, click on 'Finish' to complete the installation of NetMeeting. NetMeeting will now start automatically. First, close the program.
13. If you are not able to properly test or configure your audio settings, check whether the sound card and the devices satisfy the system requirements for NetMeeting and/or whether these have been correctly connected and installed.

3.5 Installing MGI PhotoSuite III SE

MGI PhotoSuite can be used to open, edit and print the photographs you have made using the Trust 620 LCD PowerC@m Zoom, to send them via e-mail and many other things. Follow the instructions below to install MGI PhotoSuite.

1. Follow points 1 to 3 in chapter 3.2 to start the Trust Software Installer (see figure 1).
2. Click on 'MGI PhotoSuite III SE' to start the installation.
3. Follow the on-screen instructions.
4. Restart your computer after the installation.

Note: *See the following chapters for instructions on how to use the camera in MGI PhotoSuite. See the program's Help function for a detailed description of this program.*

4 Use



4.1 Inserting the batteries

1. Open the battery compartment on the bottom of the camera by sliding the cover slightly to the side and then opening the flaps (see figure 2).
2. Insert the two AA alkaline batteries provided with the camera as shown in figure 2. The position is also shown on the inside of the battery holder.
3. Close the battery compartment again by pushing it closed and sliding it into place.

The TRUST 620 LCD POWERC@m ZOOM is now ready for use.

Note: *Inserting the batteries incorrectly may cause damage to the camera. The warranty will then no longer be valid.*

Note: *Standard AA NiCd batteries are unsuitable for use with this device.*

Note: *You can also use rechargeable AA NiMH batteries (minimum 1700 mAh) with the Trust 620 LCD PowerC@m Zoom.*

Note: *The batteries will not be recharged when the camera is connected to a USB port on your computer.*

4.2 Inserting the Compact Flash memory card

The Trust 620 LCD PowerC@m Zoom has an 8 MB internal memory. This memory can be expanded up to a maximum of 128 MB using a Compact Flash type 1 memory card (not supplied).

Follow the instructions given below to insert the optional CF type 1 memory card into the camera.

1. Open the flap for the memory slot on the bottom of the camera (see figure 3).
2. Insert the CF memory card into the slot. When doing so, hold the memory card so that the pin connector is facing towards the camera. The front of the memory card must face towards the front of the camera (see figure 3).
3. Press the CF memory card fully into the camera and then close the flap. If you wish to remove the memory card, press the button next to the card.

Note: *There is only one way to insert the CF memory card into the slot. Do not force the card into the slot. This may damage both the camera and the CF memory card.*

Note: *The CF memory card must be formatted before taking photographs. See chapter 4.3, function G, and chapter 4.5 for more information.*

4.3 Camera functions

See figure 4 and the table below for a description of the various camera functions.

	Function	Description
A	Flash button	<p>Use this button to set the flash. Also see the status display (P) on the LCD screen (J). You can choose from 3 options:</p> <p>⚡A: Auto Flash: the camera determines whether the flash must be used.</p> <p>⊘: No Flash: the flash is turned off.</p> <p>⚡: Force Flash: the flash is always used when taking photographs.</p> <p>Note: The default setting is 'No Flash'.</p>
B	Self-Timer / Digital Zoom button	<p>This button has a double function. It can be used to select the SELF-TIMER function and the DIGITAL ZOOM function. Also see the status display (P) on the LCD screen (J).</p> <p>⌚: Self-Timer: a photograph is taken 10 seconds after the EXPOSURE button (E) is pressed. You can use this function to take a picture of yourself.</p> <p>2X: Digital Zoom: you can use this function to zoom in (x2) on the object to be photographed. Set the camera to the RECORD mode using button (H) to view the PREVIEW on the LCD screen (J). Direct the camera at the subject to be photographed and press the DIGITAL ZOOM button to zoom in on the subject.</p> <p>Note: The DIGITAL ZOOM does not work in the 2M resolution.</p>
C	Photo quality button	<p>Use this button to select the resolution used when taking photographs. You can choose from the following options:</p> <p>★: Normal quality: takes photographs in a resolution of 576 x 432 (VGA). You can take approximately 107 photographs when using the 8 MB internal memory.</p> <p>★★: Fine quality: takes photographs in a resolution of 1152 x 846 (1M pixel). You can take approximately 32 photographs when using the 8 MB internal memory.</p> <p>★★★2M: High quality: takes photographs in a resolution of 1600 x 1200 (2M pixel). You can take approximately 15 photographs when using the 8 MB internal memory.</p>
D	On/Off button	<p>Press this button for 1 second to turn the camera on or off. Two beeps will be heard.</p>

	Function	Description
		Note: The camera will turn off automatically if it is not used for approximately 2 minutes.
E	Exposure button	Press this button to take photographs or to start/stop recording a short video.
F	Viewfinder	Use this to view the subject.
G	Menu button	Use this button to request the camera menu on the LCD screen (J), to scroll through the menu and to select options (see chapter 4.5). M : Menu button: press this button to request the menu. The menu will be displayed on the LCD screen (J). ▲ : Up arrow: scrolls upwards through the menu. ▼ : Down arrow: scrolls downwards through the menu. OK: press this button to select the desired menu option.  : Delete button: Set the camera to the PLAY mode using button (H) and press the DELETE button to delete the photographs from the memory or to format the memory. Note: The OK function and the DELETE function work using the same button.
H	Record / Play mode button	Use this button to change the camera mode to RECORD or PLAY.  : Record mode: when in this mode, you can take photographs or record videos.  : Play mode: when in this mode, you can view photographs and videos on the LCD screen (J). You can also delete any photographs or videos you do not wish to keep.
I	LCD screen on/off button	 : Use this button to turn the LCD screen (J) on or off. Note: To save the batteries, the LCD screen will turn off automatically if it is not used for approximately 30 seconds.
J	LCD screen	On the LCD screen, you can view the subject to be photographed (PREVIEW), view photographs and videos, view the camera settings, and use and set the camera menu.
K	Digital connections	There are 3 connections on the left-hand side of the camera for video-out, power and USB. See figure 6 for details. A: Video-out: connection for connecting the camera to a TV or video recorder in order to view the photographs and videos on a TV. B: Power: connection for connecting the power

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	Function	Description
		adapter (3.3 VDC/2A, not supplied) to the camera. You can use a power adapter to save the batteries when the camera is connected to a computer. Note: <i>The batteries will not be recharged.</i> C: USB: connection for connecting the camera to a computer's USB port. Via this connection, you can save photographs and videos on a computer or use the camera as a webcam to chat on the Internet.
L	Fixing ring for the wrist strap	Fix the wrist strap supplied with the camera to this ring. The wrist strap will prevent you from accidentally dropping the camera.
M	Lens	Records the image to be taken. Note: <i>Keep the lens clean. Dirt and fingerprints affect the result.</i>
N	Macro mode	You can select the MACRO mode using the ring which surrounds the lens. Rotate the ring to one of the two options.  Macro mode: select this mode to take close-up photographs (distance 40 to 70 cm).  Normal mode: select this mode to take photographs of the surroundings or people (distance 70 cm to infinity).
O	Flash	Use the built-in flash to give the subject extra lighting if it is in dark surroundings.
P	Status display	The status display on the top of the camera shows the settings, the battery status and the number of photographs. See chapter 4.4 and figure 5 for more information.

4.4 Status display functions

See the table below for a description of the various functions in the camera's status display (P). Also see figure 5.

	Function	Description
	Record mode	In this mode, you can take photographs or record videos.
	Play mode	In this mode, you can view photographs and videos on the LCD screen (J). You can also delete any photographs or videos you do not wish to keep.
	Full battery power	The batteries are full.
	Low battery power	The batteries are almost empty. Replace the batteries.
	Battery empty	The batteries are empty. The camera will turn itself off. Replace the batteries

	Function	Description
★	Normal quality	Takes photographs in a resolution of 576 x 432 (VGA).
★★	Fine quality	Takes photographs in a resolution of 1152 x 846 (1M).
★★2M	High quality	Takes photographs in a resolution of 1600 x 1200 (2M).
NTSC / PAL	TV video standard	Displays the TV video standard for the camera's video-out connection. This is either NTSC (America/Japan) or PAL (Europe).
⚡	Auto Flash	The camera determines whether the flash must be used.
⚡	Force Flash	The flash is always used when taking photographs.
⊘	No Flash	The flash is disabled (default setting).
⌚	Self-Timer	A photograph is taken 10 seconds after the EXPOSURE button (E) is pressed.
🔍	2x Digital Zoom	Takes photographs twice as close up (zoom). Note: This function does not work in the 2M resolution.
🌲	1x Digital Zoom	Takes photographs without an enlargement.
888	Picture Counter	In the RECORD mode, displays the number of photographs which can still be taken. In the PLAY mode, displays the number of photographs which have already been taken.

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4.5 LCD functions

On the LCD screen, you can view the subject to be photographed (PREVIEW), view photographs and videos, view the camera settings (the icons are the same as in the status display) and use the camera menu.

See the table below for a description of the various options in the camera's LCD screen. These options can be requested using the MENU button (G, figure 4).

Function	Option	Description
Setup	EV	Use this option to select the quantity of light. A positive value produces lighter photographs and a negative value produces darker photographs. You can choose from the following options: + 1.0 : Maximum lighting + 0.5 : Increased lighting Normal : Normal lighting (default setting) - 0.5 : Less lighting - 1.0 : Minimum lighting

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Function	Option	Description
	WB	Use this option to set the white balance. This option determines the type of light for the surroundings. Choose from the following options: Auto: The camera automatically determines the best white balance setting (default setting). Sun : Select this option if the subject stands in bright sunlight. Shade : Select this option if the subject is in shadow. Tungst : Select this option if the subject is indoors and is lit by normal lighting. FLRSCN : Select this option if the subject is indoors and is lit by fluorescent lighting.
	TV Mode	Use this option to select the TV video standard for the camera's video-out connection. Choose from the following options: PAL : Video standard for most European countries. NTSC : Video standard for America and Japan Note: Also see the instruction manual supplied with your TV or video recorder for the correct option.
	Language	Select the language you wish to use to display the menu. The menu is available in English, German, French, Spanish and Italian.
	Exit	Returns to the main menu.
USB	WEB Cam	Select this option if you wish to use the camera as a webcam on your computer (for example, to chat on the Internet using NetMeeting). Note: Select this option first before connecting the camera to your computer. Windows will detect the webcam hardware and install the correct driver.
	Storage	Select this option if you wish to use the camera as a removable disk on your computer. The photographs and videos will be accessible as JPG images and AVI films. Note: Select this option first before connecting the camera to your computer. Windows will detect the MSDC hardware and install the correct driver.
Capture	Video	Select this option if you wish to record short video fragments using the camera. The camera will then record a video at 20 frames per second (fps) and save it as an AVI film in the memory. Note: A video lasting for approximately 1 minute can be saved on the 8 MB internal memory.
	Still	Select this option if you wish to take photographs using the camera.
DPOF	No	DPOF is disabled.

Function	Option	Description
	Yes	DPOF (Digital Print Order Format) is enabled. You can use this option if your printer supports DPOF, so that you can send the photographs in the camera directly to the DPOF printer.
Exit	Exit	Exits the main menu.

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Set the camera to the PLAY mode and press the DELETE button to delete photographs from the camera's memory or format the memory card (see chapter 4.3). The following menu will then appear on the LCD screen.

Function	Option	Description
Erase	Erase one	Deletes the selected photograph from the memory. Select 'Yes' to confirm the deletion.
	Erase all	Deletes all the photographs from the memory. Select 'Yes' to confirm the deletion.
	Format Memory	Formats the internal memory or a Compact Flash type 1 memory card. Select 'Yes' to confirm the formatting. <i>Note: The CF memory card must be formatted before it can be used to store photographs.</i>
	Exit	Exits the menu.

4.6 Formatting the memory

If you use a CF memory card, it must first be formatted before you can take photographs. Follow the instructions given below to do this.

1. Insert the memory card into your camera as described in chapter 4.2.
2. Turn the camera on using the  ON/OFF button (D, figure 4). A green LED next to the viewfinder (F) will be lit and the LCD screen (J) and the status display (P) will be turned on automatically.
3. Set the camera to the PLAY mode  using the RECORD/PLAY button (H, figure 4).
4. Press the  DELETE button (G) to request the ERASE menu.
5. Press the  DOWN ARROW button (G) to scroll through the ERASE menu to FORMAT MEMORY.
6. Press the OK button (G) and then select YES. Press OK again to confirm the formatting of the memory.
7. A beep will be heard and the LCD screen will display the message 'No pictures in memory'. The CF memory card has now been formatted.

4.7 Taking photographs

Follow the instructions given below to take photographs using the Trust 620 LCD PowerC@m Zoom.

1. Turn the camera on using the  ON/OFF button (D, figure 4).

2. Set the camera to the RECORD mode (H) using the RECORD/PLAY button (H).
3. If you wish to take close-up photographs (40 to 70 cm), set the lens ring (N) to the MACRO mode (M) by turning the ring anticlockwise. If you wish to take photographs of the surroundings or of people (70 cm to infinity), set the lens ring (N) to the NORMAL mode (N) by turning the ring clockwise.
4. Use the VIEWFINDER (F) or the LCD screen (J) to direct the camera at the subject you wish to photograph. You can turn the LCD screen (J) on using the (I) LCD ON/OFF button (I, figure 4).
5. Press the EXPOSURE button (E) to take a photograph. The photograph will appear on the LCD screen for a couple of seconds with the message 'Processing', until the photograph has been saved in the memory.
6. The LCD screen will then return to the normal display. You can now direct the camera at the next subject and take more photographs.

Note: *If you take photographs with the default camera settings, it is possible that the quality of the photographs will not always be optimal. Different surroundings produce different results. Adjust the camera settings as required. See chapters 4.3, 4.4 and 4.5 for the possible options.*

4.8 Viewing photographs

Once you have taken some photographs, you can view them on the LCD screen (J). Follow the instructions given below to do this.

1. Turn the camera on using the (D) ON/OFF button (D, figure 4).
2. Set the camera to the PLAY mode (I) using the RECORD/PLAY button (H, figure 4).
3. Use the (G) UP ARROW and the (G) DOWN ARROW button (G) to scroll through the photographs in the memory and view them on the LCD screen (J, figure 4).

Tip: *To save the batteries, connect a power adapter (3.3 VDC/2A, not supplied) to the camera when viewing photographs.*

4.9 Deleting photographs

You can choose to delete one photograph from the memory (if you do not wish to keep it) or all the photographs (if you wish to clear the camera's memory and start taking photographs again). Follow the instructions given below to do this.

4.9.1 Deleting one photograph

Follow the instructions given below to delete one photograph.

1. Turn the camera on using the (D) ON/OFF button (D, figure 4).
2. Set the camera to the PLAY mode (I) using the RECORD/PLAY button (H, figure 4).
3. Use the (G) UP ARROW and the (G) DOWN ARROW button (G) to scroll through the photographs in the memory and view them on the LCD screen (J, figure 4).

4. If you see a photograph that you wish to delete, press the  DELETE button (G) to request the ERASE menu.
5. Select ERASE ONE in the menu and press the OK button (G) to delete the selected photograph.
6. Select YES and press the OK button (G) to confirm the deletion, or select CANCEL and press the OK button (G) if you have changed your mind and wish to keep the photograph.



4.9.2 Delete all the photographs

Follow the instructions given below to delete all the photographs from the memory.

Note: *Make sure you have saved all the photographs you wish to keep on your computer before deleting all of the photographs from the memory (see chapter 5).*

1. Turn the camera on using the  ON/OFF button (D, figure 4).
2. Set the camera to the PLAY mode  using the RECORD/PLAY button (H, figure 4).
3. Press the  DELETE button (G) to request the ERASE menu.
4. Select ERASE ALL in the menu and press the OK button (G) to delete all the photographs in the memory.
5. Select YES and press the OK button (G) to confirm the deletion, or select CANCEL and press the OK button (G) if you have changed your mind and wish to keep the photographs.
6. After all the photographs have been deleted, the message 'No pictures in memory' will be displayed on the LCD screen (J). You can now take new photographs.

4.10 Recording video

You can use the Trust 620 LCD PowerC@m Zoom to record short video fragments at 20 frames per second. The video recording will be saved in AVI format. Follow the instructions given below to record a video.

1. Turn the camera on using the  ON/OFF button (D, figure 4).
2. Press the  MENU button (G) to request the main menu.
3. Press the  DOWN ARROW button (G) to scroll through the main menu to CAPTURE. Press the OK button (G) to select the option.
4. In the CAPTURE menu, select VIDEO and press the OK button (G).
5. Press the  DOWN ARROW button (G) to scroll through the menu to EXIT. Press the OK button (G) to close the menu. The video icon  will be displayed on the LCD screen (J).
6. Set the camera to the RECORD mode  using the RECORD/PLAY button (H).
7. Press the EXPOSURE button (E) to start recording the video. The video images that are being recorded will be displayed on the LCD screen. The red text 'REC' will be displayed in the top right-hand corner of the LCD screen (J). A clock will be displayed in the bottom right-hand corner of the LCD screen which shows the remaining recording time. The clock counts down whilst recording.
8. Press the EXPOSURE button (E) again to stop recording the video. The video recording will now be saved as an AVI file in the memory.

5 Connecting the camera to the computer

The Trust 620 LCD PowerCam Zoom can be used on a computer in two different ways, namely as a removable disk (MSDC, USB Mass Storage Device) or as a PC-Cam (WDM Web camera).

Before connecting the camera to your computer, you must first select which function you wish to use from the camera menu. Follow the instructions given below to do this.

Note: *All the buttons on the camera will be disabled when it is connected to your computer. The camera must be disconnected from the computer if you wish to alter the camera settings.*

5.1 Using the camera as a removable disk

When the camera is used as a removable disk, photographs and videos can be accessed in the same way as they would be on a normal hard disk. The photographs are saved as JPG files and the videos recordings are saved as AVI files. Follow the instructions given below.

Note: *The MSDC driver must be installed in Windows 98 before connecting the camera to your computer (see chapter 3). By default, Windows ME, Windows 2000 and Windows XP support the camera's MSDC function.*

1. Turn the camera on using the **ON/OFF** button (D, figure 4).
2. Press the **MENU** button (G) to request the main menu.
3. Press the **DOWN ARROW** button (G) to scroll through the main menu to USB. Press the **OK** button (G) to select the option.
4. In the USB menu, select **STORAGE** and press the **OK** button (G).
5. Press the **DOWN ARROW** button (G) to scroll through the menu to **EXIT**. Press the **OK** button (G) to close the menu.
6. Start Windows.
7. Connect the USB cable supplied with the camera to the camera's digital connection (C, figure 6).
8. Connect the other end of the USB cable to a free USB port on your computer.
9. The new hardware will be detected by Windows. The correct driver will be found automatically and installed as a USB Mass Storage Device.
10. Double-click on the 'My Computer' icon on your Windows desktop. The icon for a removable disk will now be visible (120_CAMERA in Windows XP). This is the camera's memory.
11. Double-click on the icon for the removable disk and then open the **DCIM \ 100AOLDR** folder. This folder contains the photographs in JPG format and the videos in AVI format. Double-click on the photograph or film files to open them.

You can now use the camera in applications such as MGI PhotoSuite to edit your photographs (see chapter 6.1).

5.2 Using the camera as a webcam

When the Trust 620 LCD PowerC@m Zoom is used as a webcam, it can be used to chat on the Internet in applications such as Microsoft NetMeeting (supplied with the camera). You can also use the camera as a WDM video camera in applications which support WDM for editing video, such as MGI VideoWave (not supplied). Follow the instructions given below.



Note: *You must first install the driver before connecting the camera to your computer (see chapter 3).*

Note: *During installation in Windows 2000 and Windows XP, you may receive a message saying that the driver has not been signed. This does not cause a problem for the functionality. Continue with the installation.*

1. Turn the camera on using the  ON/OFF button (D, figure 4).
2. Press the  MENU button (G) to request the main menu.
3. Press the  DOWN ARROW button (G) to scroll through the main menu to USB. Press the OK button (G) to select the option.
4. In the USB menu, select WEB CAM and press the OK button (G).
5. Press the  DOWN ARROW button (G) to scroll through the menu to EXIT. Press the OK button (G) to close the menu.
6. Start Windows.
7. Connect the USB cable supplied with the camera to the camera's digital connection (C, figure 6).
8. Connect the other end of the USB cable to a free USB port on your computer.
9. The new hardware will be detected by Windows. The correct driver will be found automatically and installed as a 'Mega pixel Camera'.

Note: *In Windows 2000 and Windows XP, select the option to automatically search for the best driver.*

You can now use the camera as a webcam in applications such as Microsoft NetMeeting (see chapter 6.2).

The Trust 620 LCD PowerC@m Zoom can also be used as a WDM video camera in Windows ME and Windows XP. Follow the instructions below for this.

1. Double-click on the 'My Computer' icon on your Windows desktop (this is included in the Start menu in Windows XP).
2. Double-click on the new 'Mega pixel Camera, WDM Video Capture' icon.
3. The camera's live video image will now be visible. You can also take snapshot photographs of the video image.

Note: *The snapshot photographs are taken in the same resolution as the video image (320 x 240). Use the Trust 620 LCD PowerC@m Zoom as a photographic camera to take photographs in a high resolution.*

6 Using the applications

6.1 MGI PhotoSuite III SE

A short description is given below of how to use the Trust 620 LCD PowerCAM Zoom in MGI PhotoSuite. See MGI PhotoSuite's Help function for a detailed description of all the functions available in this program.

1. Connect the camera to your computer as a removable disk (see chapter 5.1).
2. Start MGI PhotoSuite III SE.
3. In MGI PhotoSuite's start window, click on the 'Get' button (see figure 7).
4. In the 'Get Photo' menu, click on the 'Computer' button (see figure 8).
5. Scroll to the '\ DCIM \ 100AOLDR \' folder on the removable disk (camera memory) and select the photograph that you wish to edit. Next, click on the 'Open' button (see figure 9).
6. The selected photograph will now appear in the main window of MGI PhotoSuite (see figure 10). You can now edit the photograph. See PhotoSuite's Help function for a detailed description of the various options.
7. After editing the photograph, click on the 'Share' button. Next, click on 'Save As' in the 'Save & Share' menu to save the photograph. Specify the location as an existing folder or create a new folder on your computer's hard disk.
8. For 'File name', input a name for the photograph you wish to save.
9. For 'Save as type', select the file format you wish to save the photographs in (for example, TIF, JPG or BMP). Next, click on the 'Save' button.

Note: *Do not specify the removable disk (camera memory) as the location to save the edited photograph. The camera does not recognize other file formats.*

6.2 Microsoft NetMeeting

1. Make sure you have an Internet account installed and your speakers and microphone are connected before starting NetMeeting.
2. Start NetMeeting (Start -> Programs -> NetMeeting, or Start -> Programs -> Accessories -> Internet Tools -> NetMeeting, depending on your version of Windows).
3. Two windows will be opened, namely NetMeeting and your Dial-up connection (see figure 11).
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. The Dial-up Connection window will disappear.
6. A number of settings should be made only once. Go to 'Tools -> Options...' and click on the 'Video' tab (see figure 12).
7. 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. The once-only settings have now been completed.

8. Click on 'View' in the NetMeeting window and select 'My Video (New Window)'. An extra window ('My Video') will now be opened.
9. Click on the 'Play' button () to turn on your camera's current video image. This image will also be seen by the person you make a NetMeeting connection with.
10. You are now ready to make a NetMeeting connection. Click on NetMeeting's telephone book icon. A new window will appear.
11. In the address bar, type an 'ils server name' (for example, ils.worldonline.nl) and click on 'Enter'.
12. Double-click on a person in the list. A NetMeeting connection will be made.



You can find other ils server addresses on the Internet.

For more information or solutions to problems, click on 'Help' in NetMeeting's start window. This contains a description of all the functions available with NetMeeting.

6.3 Webcam & Internet

The Trust 620 LCD PowerC@m Zoom 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 Connecting the camera to Mac OS 9.0 or later releases

Mac OS 9.0 and later releases support the camera's removable disk (USB Mass Storage Device), so that you can also open the photographs you have taken on your Macintosh system. Follow the instructions given below to do this.

Note: *The camera's webcam function does NOT work on a Macintosh.*

1. Turn the camera on using the  ON/OFF button (D, figure 4).
2. Press the  MENU button (G) to request the main menu.
3. Press the  DOWN ARROW button (G) to scroll through the main menu to USB. Press the OK button (G) to select the option.
4. In the USB menu, select STORAGE and press the OK button (G).
5. Press the  DOWN ARROW button (G) to scroll through the menu to EXIT. Press the OK button (G) to close the menu.
6. Start your Macintosh system (version 9.0 or a later release).
7. Connect the USB cable supplied with the camera to the camera's digital connection (C, figure 6).
8. Connect the other end of the USB cable to a free USB port on your Macintosh system.

9. A new folder entitled '120_CAMERA' will appear on the Mac desktop. Open the '\DCIM\100AOLDR\' folder in this folder. This folder contains the photographs in JPG format.

Note: *If you also have also recorded video using the camera, you will not be able to open these files on your Macintosh system. The AVI format is only supported by Windows.*

Note: *In MAC OS X, a window will appear in which you can automatically download the photographs onto your computer.*

See on www.apple.com/software or go to <http://download.cnet.com> and select MAC to download photograph editing programs for the Mac.

To remove the Trust 620 LCD PowerC@m Zoom from your Macintosh system, drag the '120_CAMERA' folder on your desktop to the Trash and disconnect the camera from the USB port.

8 Connecting the camera to the TV

Follow the instructions given below if you wish to view the photographs in the camera's memory on your TV.

1. Turn the camera on using the  ON/OFF button (D, figure 4).
2. Press the  MENU button (G) to request the main menu.
3. Select SETUP. Press the OK button (G) to select the option.
4. In the SETUP menu, press the  DOWN ARROW button (G) to scroll to TV MODE and press the OK button (G). Select the TV standard for your TV or video recorder (PAL or NTSC).

Note: *Also see the instruction manual supplied with your TV or video recorder for the correct TV standard and possible video connections.*

5. Press the  DOWN ARROW button (G) to scroll through the menu to EXIT. Press the OK button (G) to close the menu.
6. Connect the composite video cable supplied with the camera to the camera's video-out connection (A, figure 6).
7. Connect the other end of the composite video cable to the composite video input (yellow plug) on your TV or video recorder.

Note: *If your TV or video does not have a composite video input, then you can purchase a composite to SCART adapter from your local TV shop.*

8. Switch on your TV and/or your video recorder.
9. Turn the TV to the video-in channel to which the camera is connected. Also see the instruction manual provided with TV.
10. Set the camera to the PLAY mode  using the RECORD/PLAY button (H, figure 4).

You can now view the photographs in the camera's memory on your TV.

9 Removal

Follow the instructions below if you wish to remove the Trust 620 LCD PowerCAM Zoom from your computer.

1. Click on 'Start - Settings - Control Panel' and double-click on the 'Add/Remove Programs' icon.
2. Select the 'Mega pixel Camera' from the list and click on 'Add/Remove'.
3. Follow the on-screen instructions to remove the camera from your computer.
4. Remove the camera's USB plug from the USB port on your computer.
5. Restart your computer.



10 Troubleshooting

Method
1. Read the solutions given below. 2. Check for up-to-date FAQ's, drivers and instruction manuals on the Internet (www.trust.com/13327).

Problem	Cause	Possible solution
Windows does not detect a new device after connecting the camera.	The computer's USB port does not work.	Check the settings of your USB port. For more information, see www.trust.com/customer-care/help/usb .
	The camera has not been connected to a USB port.	Connect the camera to a USB port
	The camera has been 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.
Error message 'Capture device was not detected' is displayed.	The camera has not been connected to a USB port.	Connect the camera to a USB port
	The camera has been 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 620 LCD POWERCAM ZOOM is marked with an exclamation mark '!' in the 'Device Manager'.	The camera has been 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 620 LCD POWERCAM ZOOM 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 TRUST 620 LCD POWERCAM ZOOM. 3) Install the TV capture card.
The camera does not do anything.	The batteries have been inserted incorrectly.	Reinsert the batteries (see chapter 4.1).
	Camera is still connected to your computer.	Disconnect the USB cable. The camera cannot be operated when it is connected to a computer.
	The camera is turned off or is in the sleep setting.	Turn the camera on or take it out of the sleep setting by pressing the LCD ON/OFF button.

Problem	Cause	Possible solution
	The batteries are empty.	Replace the batteries (see chapter 4.1).
The camera does not react, although the batteries are full.	The camera must be reset.	Disconnect the USB cable and remove the batteries from the camera. Reinsert the batteries after approximately 10 minutes.
The camera suddenly turns itself off.	NiCd batteries are used.	Use Alkaline or rechargeable NiMH batteries.
	The camera has not been used for more than 3 minutes.	Turn the camera on again.
	The power in the batteries is low.	Replace the batteries
The camera cannot be turned on or turns off immediately.	The batteries are empty.	Replace the batteries
The recordings are not clear (hazy).	The camera was moved when taking a picture.	Try to hold the camera still or use the stand.
	The distance to the subject is too small.	Increase the distance to the subject to be photographed.
	There is insufficient light.	Improve the lighting.
No photograph is taken when the exposure button is pressed.	The automatic exposure is still turned on.	Turn the automatic exposure off.
	The memory is full.	Transfer photographs to your computer and delete them from the memory. You can take many more photographs using a CF card. Ask your dealer.
	The camera is still busy saving the previous photograph.	Wait until the photograph has been saved in the memory.
There is no connection with the computer.	The camera has been connected incorrectly.	Reconnect the cables.
The camera does not give an image in the application (webcam).	Another application is open and is using the camera image.	Close the other application first before starting the program.
A live recording gives a displaced image and the wrong colours.	An old version of DirectX is installed.	Install DirectX 8.1b from the CD-ROM supplied with the camera or download the latest version from www.microsoft.com/directx
	If a too high VGA resolution is used (for example, 1600 x 1200), it is possible that there is insufficient memory for the video overlay.	Set your VGA card to a lower resolution and colour depth (for example, 800 x 600 / 16 bits colours).

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Problem	Cause	Possible solution
		Updating your VGA driver may also solve the problem.
The photographs are coloured.	The white balance has been incorrectly set on the camera.	Set the white balance correctly (see chapter 4.5).
	The background lighting is not white.	Alter the white balance (see chapter 4.5). If this does not help, use MGI PhotoSuite to edit the colour.
	The monitor has not been set correctly.	Compare the photograph to other photographs (for example, on the Internet) where you know the colour is correct. Adjust your monitor correctly (see the instruction manual provided with your monitor).
	The printer has been set incorrectly.	If the photographs look good on your monitor, check your printer settings.
	An inkjet printer has a blocked ink cartridge.	See the instruction manual provided with your printer for instructions on how to test the printer and solve any problems.
	The paper used is unsuitable for printing photographs.	Use original paper from your printer manufacturer for the most reliable result.
There is noise in the photographs or the photographs are too dark.	The photographs are taken in dark surroundings.	Make sure there is sufficient light or use the flash.
	The flash has been used, but the distance is too great.	Use the flash up to a distance of 2 metres. The flash cannot be used for greater distances.
The photographs are overexposed.	The flash has been used in bright daylight.	The flash is not suitable for providing additional lighting. Do not use it in daylight.
	The contrast in the subject is too great.	Change the lighting or take the photograph closer by or further away.
	The photographs were taken in bright sunlight.	Take photographs in the shadow or try to adjust the white balance (see chapter 4.5).
No more recordings are made.	The camera's memory is full.	Download the recordings onto your computer and then delete them all from the camera's memory.
The problem is not listed here.	Check the Internet for the latest update of the camera Troubleshooter.	Go to www.trust.com/customer-care/help/camera

If you still have problems after trying these solutions, please contact one of the Trust Customer Care Centers. You can find more information at the back of this instruction manual. Please have the following information available.

- The article number. This is 13327.
- A good description of what does not work.
- A good description of when the problem occurs.

