

<u>Instructions when using for the first time</u>	<u>Chapter</u>
1. Preparing the camera	(4)
2. Using the camera	(5)
3. Advanced camera settings	(6)
4. Connecting to a computer	(7)
5. Application software (PC only!)	(8)

UK

1 Introduction

This instruction manual is for users of the TRUST 970Z LCD POWERCAM OPTICAL ZOOM. The highest photograph resolution is 2048 x 1536 pixels (3.3 Mpixel). The camera has an 8 MB internal flash memory, a webcam function, an automatic exposure, a lens with a optical zoom, digital zoom and a flash function. The camera's memory can be increased up to a maximum of 512 Mbyte using an optional Secure Digital Card (SD) or Multimedia Card (MMC). In addition, the camera can record short video clips with sound. When using a MAC, be sure to read chapter 7.2. The included application software only works on a PC in Windows.

Please consult one of the Trust Customer Care Centres if you have any problems. You can find more information at the back of this instruction manual.

2 Safety

2.1 General information

Carefully read the following instructions before use.

- The TRUST 970Z POWERCAM OPTICAL 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 disassemble the camera. Touching the product's internal parts could result in injury. In the event of a malfunction, only a qualified technician should repair the product. Should the product break open as a result of a fall or other accident, take the product to an authorised service centre for inspection.
- Avoid contact with liquid crystal. Should the LCD display break, care should be taken to avoid injury due to broken glass and to prevent the liquid crystal from touching the skin or entering the eyes or mouth.
- Do not look at the sun through the viewfinder. Viewing the sun or other strong light source through the viewfinder could cause permanent visual impairment.
- Do not use in the presence of flammable gas. Using electronic equipment near flammable gas could result in explosion or fire.

- Observe caution when operating the flash. Do not use the flash close to anyone's eyes. This can cause temporary damage to eyesight. Particular care should be observed when photographing infants – keep the flash at a distance of at least 1 meter from infants' eyes.

2.2 Batteries

- Observe proper precautions when handling batteries. Uses only size AA alkaline batteries. Batteries may leak or explode if handled improperly.
- The alkaline batteries supplied with the camera are not rechargeable. Do not try to recharge them, because this may cause them to explode.
- Remove batteries (and memory card) from the camera if you are going to store the camera for extended periods of time. Ensure the camera is turned off before inserting or removing batteries.
- Do not insert batteries backwards or upside down.
- Do not disassemble batteries.
- Do not expose batteries to flame or excessive heat.
- Do not immerse batteries in or expose to water.
- Never throw the batteries onto an open fire. The batteries may explode.
- Keep the batteries out of the reach of small children.
- Discontinue use immediately if you notice any changes in the battery such as discoloration, deformation or leakage.
- When the alkaline batteries are empty, ask your local authority where you can dispose of them.

Note: *Alkaline or NiMH batteries type AA are suitable 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 Description of the camera

3.1 Front of the camera

Use table 1 in combination with figure 1.

Item	Description	Function
1	Shutter Button	Press this button to take pictures, or to select menu options.
2	Built-in Flash	For taking photographs when there is insufficient light. The flash has a maximum effective range of 3 metres.
3	Self-Timer LED	When the mode dial is set to Pre-set and the Self-Timer option is used before pressing the Shutter Button, this LED will blink for ten seconds before the camera takes a picture.
4	Light Sensor	The digital camera automatically detects ambient light levels and determines whether or not the flash is needed. Light measurements are made with this sensor.

Item	Description	Function
		Take care not to block the sensor while taking pictures.
5	Viewfinder	The viewfinder helps you frame a picture. The actual picture is taken with the lens and not the viewfinder, however.
6	Lens	The lens focuses the light onto the digital image capturing circuitry. For the best picture quality, care should be taken to ensure it remains free of dust, fingerprints, and scratches.
7	Microphone	Records audio when you use the camera for filming 1-minute movies.



Table 1: Functions of the front of the camera

3.2 Rear of the camera

Use table 2 in combination with figure 2.

Item	Description	Function
1	Status LED	When power is first turned on, or the camera is working (and not available to take a picture), the LED will flash. When the camera is ready to take a picture or accept user commands, the LED is a solid green colour.
2	Viewfinder	The viewfinder is used to frame your pictures. The actual picture is taken with the lens and not the viewfinder.
3	Power Button	Press this button to turn on the digital camera. Press it again to turn it off.
4	WB/Delete	Press this button to cycle through the White Balance pre-sets: Auto, Daylight, Shade, Tungsten and Fluorescent. See also chapter 6.2.
5	Strobe / Copy	Copies pictures during playback from internal, on-board camera memory to the SD/MMC Card.
6	Zoom Out Key	While in Snapshot mode, press this key to zoom out. If pressed repeatedly in during Playback, Zoom Out switches between thumbnail and full-screen views. If zooming in on a photo during Playback mode, pressing this key zooms back out again.
7	Zoom In Key	While in Snapshot mode, press this key to zoom in on your subject. In Playback mode, use this key to zoom in on a photo.
8	Shutter Button	Press this button to create a digital photo. While navigating the camera's options menus, use it to select menu items..
9	Power	Plug the AC Adapter into the camera here to supply it with electricity from an external, non-battery power source

TRUST 970Z POWERCAM OPTICAL ZOOM





Item	Description	Function
10	Video Out Jack	Connect your video out cable here and then the other end to your television set in order to use the camera as a digital video camera. See also chapter 5.6.
11	 USB Port	The USB (Universal Serial Bus) port is used to connect the camera to a PC as well as for transferring photos. It may also be used as a PC Video Camera.
12	Hand Strap Loop	Attach the hand strap to this loop for ease of carrying.
13	Mode Dial	Rotate to select the camera mode: Video, Preset, Snapshot, Playback, Set-up or PC Camera.
14	 Down Button	Move down through menus.
15	 Up Button	Move up through menus.
16	 Display Button	Press to cycle through the various display options: LCD, backlight and status information all turned on; LCD and backlight on but no status information; and LCD off.
17	LCD Display	Use the LCD display to preview photos. While in the Setup menu, use the LCD to see messages and configure the camera.

Table 2: Functions of the rear of the camera

3.3 Bottom of the camera

Use table 3 in combination with figure 3.

Item	Description	Function
1	Tripod Connector	Attaches the camera to a tripod. This is an optional accessory that can be used to hold the camera still and is especially useful for low light night pictures.
2	Battery / Memory Cover	Opens to allow access to the battery holder as well as the memory card slot.
3	Memory Card Slot	Accepts Secure Digital and Multi Media Cards up to 512 MB. You can take many more photographs using this optional card.
4	Battery Holder	For two Alkaline or NiMH batteries type AA.

Table 3: Bottom of the camera



3.4 Mode Dial Button

The digital camera has six separate modes of operation. You can select which mode you want to use by rotating the Mode Dial to the correct position. This chapter describes each of these modes and the different button functions in each mode. See figure 4 for the picture.





Item	Description	Function
1	PC Camera Mode 	Makes connection to the PC so that the camera could be used as video camera or web cam. USB Cable should be connected first between camera and PC!
2	Set-up Mode	Enters the configuration menu of the camera.
3	Playback Mode 	The Playback mode is used to view the photos or video clips stored in the digital camera's on-board memory or on the SD/MMC memory card.
4	Snapshot Mode 	Snapshot mode is used for taking pictures.
5	Pre-set Mode PRE SET	Pre-set Mode has five pre-set settings optimised for taking specific types of pictures: Landscape, Portrait, Night Scene, Self-Timer and Macro.
7	Video Mode 	Video mode allows you take record 60-second movie (including audio) to your camera's on-board memory or the SD/MMC Card.

Table 4: Mode Dial Button

3.5 LCD Display

When the camera is in any mode other than Set-up mode, current camera settings such as zoom, icons on the LCD display indicate quality, etc. This chapter describes these icons and their meanings (see figure 6).

Use table 5 in combination with figure 6:

Item	Function
1	Flash Mode
2	Pre-set Mode
3	White Balance Mode
4	Pictures Remaining
5	Quality
6	Date/Time
7	Exposure Compensation
8	Battery Status
9	Zoom Ratio

Table 5: LCD screen

4 Preparing the camera



4.1 Install the Memory Card

A memory card is not supplied with the camera. You can purchase these cards separately to increase the number of photograph that the camera can save. The memory cards which are supported for this camera are SD (Secure Digital) or MMC (MultiMedia). Instructions for installing memory card (see also figure 7):

1. Turn off the camera.
2. Open the battery holder by pressing on the cover and sliding in the direction of the arrow toward the outside edge of the camera.
3. Insert the memory card with the notched corner facing the cover of the battery holder.
4. Close the battery cover.

4.2 Install / replace the batteries

See also figure 8.

1. Turn off the camera.
2. Open the battery holder on the bottom of the camera by pressing on the cover and sliding in the direction of the arrow toward the outside edge of the camera.
3. Insert batteries into the chamber making sure that the positive  and negative  ends are properly oriented, as indicated on the compartment's interior wall.
4. Close the battery cover.

The battery condition is shown on the LCD screen (bottom left-hand corner) as follows:



	The batteries are full.
	The battery capacity is low. Only a few more photographs can be taken.

Table 6: Battery conditions

4.3 Placing the camera on the tripod

Screw the tripod to the fixing point (1, figure 3) on the bottom of the camera. Make sure the tripod is fitted as shown in figure 14, with the middle foot facing the side of the camera with the USB/TV connection. Move the feet of the tripod as far apart as possible, so that the camera is stable.

Caution: *If the tripod is not fitted as described above, the camera could easily fall over.*

Note: You can also fit the camera to a more professional tripod. These are available from your local photography shop.



5 Using the camera

This chapter will explain the following:

- How to set up the camera for the first time.
- The most used settings of this camera.
- How to take pictures in SNAPSHOT and PRE SET mode.
- How to record your video clips.
- How to review your pictures / video clips.
- How to connect the camera to a TV.
- How to turn-off the camera.

Note: Make sure you have installed 2 Alkaline or 2 NiMH batteries type AA.

Note: If you want to store your photos on a SD/MMC Card, make sure it is also installed before you turn on the camera. If you want to store images directly to the camera's internal memory, either remove the memory card, or select Internal from the Storage Media menu.

Note: Using the LCD display consumes more battery power. To prolong the life of your batteries it is recommended to keep the LCD display shut off when not needed.

5.1 Setting the camera for the first time

To use the camera for the first time it's recommended to set the language and date & time first before taking any pictures or recording any movies.



To go to the set-up menu of the camera do the following steps:




1. Rotate the Mode Dial to Set-up mode (2, figure 4).
2. Turn the camera on.
3. The Set-up menu will be displayed on the LCD (see figure 5).

Choose a language

The digital camera can display text and messages in English, French, Spanish, German, Italian and Japanese.

To select a different language:










4. Use the Down button  to select **Language** then press the Display button  to enter this menu.

5. Use the Up and Down buttons  /  to select the language you want to use.
6. Press the Display button  to set it. The Set-up Menu returns.



Set the date and time

When you transfer a photo to a computer and/or print it, the time and date will show when it was taken.

To set the date display style:

1. Use the Down button  to select **Date/Time** and then press the Display button .
2. Select the **Style** option by using the Down button. Press the Display button  to enter that menu.
3. Choose either **Month/Day** or **Day/Month** as the display style for the date.
4. When the settings are correct, press the Display button  to save the changes and return to main menu.
5. Select again **Date/Time** and press the Display button .
6. Select the **Clock** option.
7. Use the Up and Down buttons  /  to set the time / date values.
8. Use the Strobe / Copy button  (5, figure 2) to move through the time and date fields.
9. When finished press the Display button  to save the changes and return to main menu.

Note: *If you make a mistake and need to go back, use the White*

Balance/Delete button  

5.2 Most used settings

5.2.1 LCD screen

The LCD screen can be turned off to save the batteries. You can also turn off the menu items to have a better view of the image. The functions of the LCD button in the PLAYBACK mode (3, figure 4) are different to the functions in the SNAPSHOT (4, figure 4) or PRE SET mode (5, figure 4). The LCD button is 16 in figure 2.

PLAYBACK mode:

Press once to turn off the symbols.

Press twice to return to the beginning. The symbols are turned back on.

SNAPSHOT or PRE SET mode:

Press once to turn off the following indicators:

- pictures remaining
- quality
- battery status



Press twice to turn off LCD screen. The LCD screen is turned off to save the batteries. Use the optical viewfinder to direct the camera.

Press once again to go back to the beginning. The LCD screen will be turned on again and all symbols are visible.

5.2.2 Flash

The flash settings are automatic flash, never flash or automatic + red-eye reduction.

Carry out the following to set the flash:

1. Turn Mode Dial to SNAPSHOT or PRE SET mode.
2. Press button 5 (figure 2) to change flash-settings.
3. See table 7.1 for the description of the flash settings.

Symbol	Name	Description
< empty >	Auto Flash	The camera senses whether the flash is needed by detecting the amount of ambient light.
	Flash Off	Flash is turned off, regardless of the amount of light available.
	Red-Eye Reduction	Use the Red-Eye Reduction function to reduce the occurrence of "red-eye" (eyes appear red in the pictures due to flash reflection off the eyes' retinas.) This function causes the camera to flash quickly before the picture is taken to reduce red-eye.
	Flash On	Flash is always on, regardless of light available.

Table 7.1: Description of the flash-symbols

Note: The flash does not function when recording video clips.

5.2.3 Zoom

Optical Zoom

This camera has an optical zoom which allows you to zoom on a subject in the

highest resolution. Use Zoom In button (7, figure 2) to enlarge the subject or

Zoom Out button (6, figure 2) to widen the area of the subject. When using optical zoom the zoom-indicator at the left of the LCD screen (9, figure 6) will be in the white area.

Digital Zoom

This function allows you to zoom up to 3 x on a subject in 5 steps when taking a photograph. In the PLAYBACK mode, you could zoom in on parts of a photograph or display a number of photographs on the screen at once. The zoom ratio will appear on the middle top of the LCD screen (figure 6) and the zoom-indicator (9, figure 6) will be in the red area.

Note: *The use of the digital zoom function when taking photographs will slightly reduce the quality.*

Note: *The digital zoom does not function when recording video clips.*



5.3 Taking pictures

There are two modes for taking pictures: SNAPSHOT and PRESET. Snapshot mode is for basic picture taking, while the Pre-set mode allows you to take pictures in one of five pre-set schemes: Landscape, Portrait, Night Scene, Self-Timer and Macro.

5.3.1 Taking pictures in SNAPSHOT mode

Note: *To save the batteries, the camera will turn off automatically when it has not been used for 3 minutes*

See figure 2.

1. Turn the camera on using the ON/OFF button (3).
2. Place the MODE DIAL (13) in the SNAPSHOT mode (4, figure 4).
3. You can turn on/off the LCD screen by pressing the LCD button (16) or you can use the viewfinder (2). If the LCD screen is used, all the settings will also be visible. See chapter 3.5 for their meaning.
4. Look through the viewfinder or look at the LCD screen to get a good image of the subject.
5. You can use the Zoom In  or Zoom Out  buttons to narrow or widen the lens' field of view. Use the LCD display to preview the effects of the zoom function.
6. Press the SHUTTER button (8) half way and keep it in this position. The camera will adjust itself to the surrounding light conditions and then beep (if the beep-settings on the camera is switched on).
7. Fully press the SHUTTER button. The photograph will now be taken. The image on the LCD screen will disappear for a short period and the LED (1) will flash.
8. The next photograph can be taken when the LED no longer flashes. The photograph has been saved in the camera's memory.

Note: *Keep the glass of the lens clean. Use a lens tissue to clean the lens. If necessary, use special cleaning liquid for camera lenses. Do not use a different cleaning product.*

Tip: *The quality of the photograph depends on the surrounding light. More light will result in a better picture.*

Tip: *The number of photographs that can be taken depends on the number of details of the object to be photographed. The photograph indicator on the LCD screen is an approximation.*

Tip: *The image viewed through the viewfinder may be slightly different to what is recorded through the lens. You can use the LCD for greater accuracy.*

5.3.2 SNAPSHOT mode's button functions









 Up Button	Increases the camera exposure compensation, which allows in more light.
 Down Button	Decreases the camera exposure compensation, which gradually blocks light.
 Display Button	Cycles through the following LCD display settings: LCD, backlight and status information all turned on; LCD and backlight on but no status information; and LCD off.
 Strobe / Copy	Determines how the strobe light (flash) is used. Pressing the Strobe key cycles through the following settings: Auto (A), On, Off, and Red-Eye Reduction.
 WB / Delete	Adjusts the White Balance settings. Pressing the WB key cycles through the following settings: Auto, Day Light, Shade, Light Bulb (incandescent light), and Fluorescent Light.
 Zoom Out	Widens the area which is framed by the camera's lens.
 Zoom In	Enlarge the subject which is framed by the camera's lens.






Table 7.2: Snapshot mode's button functions

5.3.3 Taking pictures in PRE SET mode

Pre-set Mode has five pre-set settings optimised for taking specific types of pictures: Landscape, Portrait, Night Scene, Self-Timer and Macro.

1. Turn the camera on using the ON/OFF button (3).
2. Place the MODE DIAL (13) in the PRE SET mode (5, figure 4).
3. Select the type of picture you want to take using the Up and Down  buttons. The pre-set symbol will appear on the LCD display. See table 8 for the description of the pre-set symbol.
4. Press the Shutter button to take a picture.

 Landscape	This pre-set is optimised for taking landscape pictures, with the lens focus universally distributed to encompass everything within the entire frame.
 Portrait	This pre-set is optimised for taking portraits pictures of other people, focusing more on the centre of the frame than the peripheral parts.
 Night Scene	This pre-set is optimised for taking photos at night. You should hold the camera perfectly still when taking night shot or place it upon a stable surface or tripod to minimise blurring resulting from the longer exposure.



 Self-Timer	This pre-set lets you to take a photo after a ten second delay. This gives you the ability to take hands-free photos, perhaps self-portraits or group photos, for example.
 Macro	This pre-set optimises the camera for taking extreme close up shots of objects or people within a foot or less of the camera. When not using this pre-set, the camera lens cannot focus as well as normal due to the extremely short distance between it and the subject matter.

Table 8: Symbols in PRE SET mode

5.3.4 Taking pictures using Self-timer

For taking pictures using the self-timer do the following steps:

1. Position the camera on a stable surface (such as an optical tripod) and frame the shot.
2. Rotate the camera's Mode Dial to PRE-SET mode.
3. Use the Up and Down buttons to select the Self-Timer Pre-set.
4. Press the Shutter Button. The 10-second countdown begins immediately. As soon as the delay ends, the camera takes the picture.



With the exception of the Shutter button, all of the camera's other buttons behave the same as they do in the other Pre-set modes.

5.4 Recording video clips

The camera can be used to record small video clips.


1. Turn the MODE switch to the VIDEO mode (6, figure 4).
2. Turn the camera on using the ON/OFF button (3). The LCD screen will be turned on. A preview will be displayed.
3. Focus the subject you wish to record.
4. Press the SHUTTER button (figure 1, 1) briefly to start recording video. When the LCD screen is switched on, there is an indicator to see the remaining recording time.
5. Press the SHUTTER button again to stop recording. When the memory is full, the recording stops automatically. When there are no pictures present, you can record about 23 seconds of video in the internal memory of the camera. When using an optional SD/MMC card of 16MB or larger, you could record max. 60 seconds.

Like Snapshot mode, you may also zoom in and out when recording videos. The available zoom ratios in VIDEO Mode are: x1.0, x1.2, x1.4, x1.6, x1.8, and x2.0.

Pressing the Up and Down buttons  /  while recording a video increases and decreases the lens' exposure value, which variously brightens and darkens the video as light is regulated.

5.5 Reviewing pictures / video clips



One benefit of digital cameras is that you could immediately check whether or not you like the picture you just took.





To view the pictures that you have stored in internal memory or on the SD/MMC Memory Card, rotate the Mode Dial to **Playback Mode**  and turn the camera on.

U K

5.5.1 Full-screen Review

The default Playback method is to show each individual picture one at a time at full-screen size. For the Full-Screen Review method, press the Up and Down buttons

 /  to cycle through the pictures you've taken.

You can also use the Zoom buttons  /  to see more detail on a particular picture. The default zoom setting is "x1"; Press Zoom In  to increase the zoom ratios as follows: x1.0, x1.5, x2.0, x2.5, x3.0, x3.5, x4.0. Press the Zoom Out button  to decrease zoom ratios (from x4.0 down to x1.)

5.5.2 Thumbnail Review







If you press the Zoom Out button  when the zoom ratio is at x1 (default), the camera switches over to Thumbnail Review  method.

In Thumbnail Review, four pictures are shown on the LCD simultaneously. Use the

Up and Down buttons  /  to cycle through the pictures.

To return to Full-Screen Review, select the photo you want to view and press either the Shutter button or the Zoom Out button. The selected picture will then be expanded to fill the entire LCD screen.

5.5.3 PLAYBACK mode's button functions

 Up Button	Move to the previous photo.
 Down Button	Move to the next photo.
 Display Button	Cycles through the following LCD display settings: LCD, backlight and status information all turned on; LCD and backlight on but no status information; and LCD off.
 Strobe / Copy	Copies the selected image from on-board memory to the memory card or vice versa.
 WB / Delete	Deletes selected photo.
 Zoom Out	In Snapshot Mode, widens the field framed by the camera's lens from x4.0 to x1.0. If you zoom out while in Playback mode the camera switches to Thumbnail mode.


 Zoom In	Narrows the field framed by the camera's lens from x1.0 to x4.0 (x1.0, x1.5, x2.0, x2.5, x3.0, x3.5, 4.0)
--	---

Table 9: Playback mode's button functions

5.6 Connecting the camera to a TV

The camera can be connected to a TV. You will then be able to play recordings on the TV. The LCD screen will be turned off. A standard RCA video cable is supplied with the camera.

Setting the Video Out option:

1. See chapter 5.1 how to set the camera in the SET UP mode.
2. Select 'Video Out' from the set-up menu. This is the last option of the list.
3. Use the UP button until the selected item has been set correctly: PAL for Europe.
4. Press the SHUTTER button to record your selection.

Connect camera to a TV:

1. Connect one end of the AV cable to the camera into the video output located above the USB connector.
2. Connect the other end of the AV cable to your TV. Your TV must have an input for video signals (yellow RCA plug). The yellow plug is for the image signal. You will need an adapter if your TV only has a SCART plug. This can be purchased from most TV and radio shops.
3. Set your TV to display the video input.
4. Turn the camera on. The camera image will now be visible on your TV. You can also use the menu according to figure 2.

Note: *Make sure to set this to PAL for use in Europe. Setting to the wrong standard makes the screen fuzzy and everything will be displayed in black and white.*

Note: *The camera's AV output is not suitable for connecting to the aerial connection on your TV. Your TV must have a video input.*

Tip: *If you do not see an image and hear a loud humming sound through the speakers, then you may have connected the image plugs to the wrong connection. Check the connections and try again.*

5.7 Turn off the camera







When you are finished taking pictures, press the power button (3, figure 2) to turn it off. This conserves battery power.

6 Advanced camera settings



6.1 Set-up menu

See chapter 5.1 how to set the camera in the SET UP mode. See table 10 for all options.

DELETE ALL	To delete images from either the camera's internal memory or from the SD/MMC Card, select Delete All from the Set-up menu.
FORMAT	This option completely erases and reformats the storage device.
QUALITY	Adjust the image quality and resolution by selecting Quality. The higher the quality, the clearer your picture will be, but at the same time the image file size will be larger, and therefore you will be able to store fewer pictures in memory. Generally, Normal quality (800 x 600) is high enough quality for most purposes.
BUZZER	When this feature is turned on, the camera makes a beep when you push its buttons or rotate its Mode dial. To activate the beeps, select the Buzzer option from the menu. On the subsequent screen, select Yes to confirm and then press the Display button  .
DPOF	The Digital Printer Order Format (DPOF) lets you print photos directly to a printer that supports this protocol.
DATE/TIME	The digital camera marks each picture with a time stamp displaying the hour, minute and day the photo was taken. This is useful for organising and keeping track of your photo collection. For more on setting the time and date see chapter 5.1
MEMORY TYPE	You can choose whether you want to store photos in the on-board memory or in the SD/MMC Card. To set the default storage media: <ol style="list-style-type: none"> 1. Rotate the Mode Dial to Set-up. 2. Turn on the camera. 3. Use the Down button  to select Memory Type and then press the Display button . 4. Use the Up and Down  /  buttons to select either Internal, for the camera's on-board memory, or External, to use an installed SD/MMC Card. 5. Press the Display button  to confirm your selection and return to the main Setup screen.





LANGUAGE	The digital camera can display menu items in the following languages: English, French, Spanish, German, Italian and Japanese. For more on setting the default language, see chapter 3.3
VIDEO OUT	If connecting your camera to a television set by means of A/V cables, you have the option to choose a video standard format compatible with that of your TV. This allows you to record video images sent to the TV with a VCR. The camera supports audio. Select the Video Out option from the Set-up menu, and then choose either NTSC or PAL, according to your hardware and region. Press the Display button  to confirm your choice.

Table 10: Description set-up menu

6.2 White balance

Not all light has the same colour. The light in a living room, for example, is more yellow than daylight. The human eye automatically adjusts to this. The camera has also been designed to do this. You can adjust the white balance when this does not work (your photographs appear coloured). The white balance is set to AUTO when the camera is turned on. This is usually the best setting. The white balance is set manual as follows.

1. Check whether the camera is in the SNAPSHOT mode (option 4, figure 4) and the LCD screen has been turned on using the LCD button (16, figure 2).
2. Press the WB/DELETE button (4, figure 2) a number of times. The white balance symbol will be displayed at the top of the LCD screen.
3. Select one of the options from table 11 depending on the surroundings in which the photographs will be taken.

< empty >	Auto WB	The camera automatically determines the White Balance setting.
	Daylight	Use this setting when taking pictures in bright daylight, to reduce the effect of "whitewashed" pictures.
	Shade	Use this setting when taking pictures in shade, or any time your pictures come out too dark.
	Tungsten	Use this setting for taking pictures under tungsten or incandescent light.


	Fluorescent	Use this setting for taking pictures under fluorescent light.
---	--------------------	---



Table 11: Explanation of the white balance settings

Tip: *The wrong setting will also lead to coloured photographs. The LCD screen will only show an approximation of the result. You can correct coloured photographs using Photo Express, which is supplied with the camera.*

Note: *You can only use these settings in the PLAYBACK and SNAPSHOT mode. When in the PLAYBACK mode, the WB button is the delete function!*

7 Connecting to a computer

This chapter explains how to connect your digital camera to a computer for either downloading pictures to a PC or Mac or for using as a PC Camera.

Note: *There're no drivers needed to be installed on Mac OS 9.x / OS X. Please continue to chapter 7.2.*

7.1 Connecting to a PC

Caution: *Install the drivers first before connecting your camera to the PC.*

7.1.1 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.

7.1.2 TWAIN Driver Installation

1. Insert the installation software CD into your CD-ROM drive. Don't connect the camera to the PC.
2. The installation program should start automatically. If not, double click the My Computer icon on your desktop, open the CD-ROM drive, and then run the 'setup.exe' found on the installation CD-ROM.

3. Follow the on-screen instructions. All the necessary software is installed automatically. The TWAIN drivers and utility program that allow the camera to 'talk' to the computer via the USB cable are also installed.
4. Restart your computer after installing.

7.1.3 PC Camera / MSD Driver Installation

1. Set the Mode Dial to PC CAMERA mode.
2. Connect the small connector of the USB cable to the camera (see figure 13).
3. Connect the large head of the USB cable to an empty USB slot on your computer. To locate USB slots on your computer, look for the USB icon .
4. Turn on your camera.
5. The Windows Add Hardware Wizard will automatically detect the camera and lead you through the installation procedures for the corresponding mode.
6. Reboot your PC and switch the Mode Dial of your camera to PLAYBACK mode.
7. After rebooting Add Hardware Wizard will automatically detect the MSD and leads you through the installation procedures.

7.1.4 Making connection to a PC

The camera can be used in two different modes when connected to your computer:

1. **Mass Storage Device (MSD)**
MSD mode allows you to use the camera just like a standard storage device where you can copy, delete and move files to and from the camera just as you would a normal disk drive. To activate switch the Mode Dial of your camera to PLAYBACK mode (3, figure 4).
2. **PC Camera**
PC Camera mode allows you to use the camera as a standard PC video camera like the kind used for video teleconferencing, security, videophones, and so on. To activate switch the Mode Dial of your camera to CAMERA mode (1, figure 4).

Both MSD and PC Camera mode may only be used once you have connected the camera to your PC with the supplied USB cable.

7.1.5 Moving Photos to a PC

When connected to your computer in MSD mode, the digital camera behaves exactly like any another disk drive attached to your computer. This makes copying the images to your hard drive as easy as copying files from a floppy disk, zip drive or CD-ROM.


To copy photos to your computer:

1. Connect the digital camera to the computer with the USB cable.
2. Switch the Mode Dial of your camera in PLAYBACK mode.
3. Turn on the camera.

4. Open Windows Explorer. The contents of your computer will be displayed, including all your disk drives, and, if the camera is connected properly, an extra disk drive representing the camera's memory called "Removable Disk."
5. Select the digital camera drive. The camera's photos are listed. Select the photos and drag and drop them onto your computer's hard disk.

U K

7.1.6 Using as a PC Camera

To use the camera as a PC Camera, you switch the Mode dial of your camera to PC Camera mode  and then connect it to the computer via the USB port.

When connected, the camera may be used in conjunction with any commercially available video capture software to create your own home videos. Then you can edit and distribute your video files across the Internet or save them on CD-ROM for later viewing on your PC or with a VCD/DVD player.

7.2 Connecting to a Mac

Note: *There is limited support for MAC OS built-in at this date. You will be able to get pictures and video clips from the camera, but the webcam function is not supported in MAC-OS. Visit www.trust.com to see if there is any updated driver available.*

7.2.1 General info

1. Check if your MAC complies with the following system requirements: MAC OS 9.0 or later, one free USB port.
2. You might need additional software to edit your pictures as the software included with the camera is designed for a PC with Windows.
3. The recorded video clips are in a format designed for a PC and might not play correctly on Mac's without additional software for playing media files.

7.2.2 Getting your pictures

1. Make sure your computer is turned on.
2. Turn the MODE switch to the PLAYBACK position.
3. Connect the camera to your MAC. An extra folder will be added to your desktop. Your pictures are stored in this folder.
4. Open this folder to access your pictures and video clips.
5. In MAC OS X, the image capture will be activated automatically to easily import your pictures into the 'Pictures' folder on your system.

Note: *Mac OS will automatically display the camera's internal memory when there is no SD / MMC card present. When there is a memory card present in your camera, its contents will be displayed instead until you remove it.*

7.2.3 Formatting

You could both format the camera's internal memory and the external memory card with your MAC. Use only the DOS-format. However, it's recommended using the camera's format function to format the memory.

Do not format the camera's memory when you use Mac OS 10.2 (Jaguar) or higher, because this OS can only format HFS and UNIX formats, which are not compatible with your camera.

8 Application software (PC only)

A number of different applications are supplied with the camera. These applications do not have to be installed to use the camera. However, it is recommended to install these programs in order to use all the extra options available with the camera.

8.1 Installing the application software

Note: *Make sure all other applications are closed during the installation.*

8.1.1 Photo Express

Photo Express 4.0 is an application that can be used to load and edit the photographs on your PC which you have taken using TRUST 970Z POWERCAM OPTICAL ZOOM. This program requires 500 MB free hard disk space. Follow the instructions below to install Photo Express 4.0. This installation can take longer than 10 minutes.

1. Start the Trust Software Installer (see figure 9).
2. Select 'Ulead Photo Express 4.0 SE'.
3. Select the language you wish to use.
4. Follow the on-screen instructions.

8.1.2 Photo Explorer

Ulead Photo Explorer 7 is a program which you can use to organize your photographs. Simple processes can be carried out, such as rotating, printing and viewing the photographs. Photo Explorer is useful if you wish to download photographs and save them on your computer. Follow the instructions below to install Photo Explorer 7.0.

1. Start the Trust Software Installer (see figure 9).
2. Select 'Ulead Photo Explorer 7.0 SE'.
3. Select the language you wish to use.
4. Follow the on-screen instructions.

8.1.3 COOL 360

COOL 360 is an image editing program that can be used to change the photographs you have taken using the TRUST 970Z POWERCAM OPTICAL ZOOM into panoramic photographs. Follow the instructions below to install COOL 360.

1. Start the Trust Software Installer (see figure 9).
2. Select 'Ulead Cool 360'.
3. Follow the on-screen instructions.

8.1.4 DVD Picture Show

This program should only be installed if your computer has a CD-writer or a DVD-writer. DVD Picture Show allows you to transform your photographs into a slideshow which can easily be played using a DVD player. In order to enjoy maximum use of this application, you require a CD-RW or DVD-writer and a DVD player. Not all DVD players are able to read DVD's or CD-R disks which you have made yourself. If in doubt, see the instruction manual provided with your DVD player.

1. Start the Trust Software Installer (see figure 9).
2. Select 'Ulead DVD Picture Show Basic SE'.
3. Select the language you wish to use.

4. Follow the on-screen instructions.

8.2 Using the application software

U K

8.2.1 Ulead Photo Express

You can use this application to solve problems with the pictures, such as the red-eye effect, coloured photographs, photographs which are too bright or too dark, remove undesirable objects from the background, etc. You can also use this application to design calendars and cards.

Follow the instructions given below:

1. Copy your photographs to your hard disk as described in chapter 7.1.5.
2. Click on 'Start – Programs – Ulead Photo Express 4.0 SE – Ulead Photo Express 4.0 SE'. Figure 10 will appear. You will be in the 'Browse' mode.
3. Find the folder containing your photographs in the left-hand side of the window.
4. Click on this folder to view the contents. Your photographs will be visible in the main window as thumbnails.
5. Select a photograph that you wish to edit and double-click on it. After a couple of seconds, the photograph will become visible in the main window. You can now edit the photograph.
6. Click on 'Edit' at the top of the window and select an option. The most common options are included here.
7. Click on 'Save' after editing the photograph to save the finished result.

See this program's instruction manual and Help function for more information.

Note: *The photographs are saved in JPEG format to save space. JPEG reduces the size of the file by removing small details from the photograph. If you wish to edit the photographs during different sessions, use a different file format to JPEG (for example, TIFF) to prevent the loss of quality as a result of constant loading and saving in the JPEG format.*

Note: *Since editing cannot be undone, it is recommended to make a copy of the photographs and to only edit the copies. You can then always return to the original photographs. It is strongly recommended to make a back up on a CD-ROM using a CD-writer for protection against computer faults.*

8.2.2 Ulead Photo Explorer

You can use Ulead Photo Explorer 7.0 to easily download photographs and video clips onto your computer. A short description of how to use Photo Explorer is given below. For a detailed description of Photo Explorer, see the program's Help function. Follow the instructions below to use the TRUST 970Z POWERCAM OPTICAL ZOOM in Photo Explorer.

1. Turn the Mode Dial on the camera to the PLAYBACK mode.
2. Connect the camera to the computer using the USB cable.
3. Start Ulead Photo Explorer.
4. The main window will appear. The 'Set-up Internet Connection' window may also appear. Click on the 'Skip for now' button to close this window if it appears. The Trust camera will be visible as a 'Removable disk' in the list on the left-hand side of the window.
5. Double-click on this. The 'DCIM' folder will be visible.

6. Double-click on this. The '100trdsc' folder will be visible. This folder contains your photographs and video clips.
7. Double-click on this. Your photographs and video clips will slowly become visible. The window will now look like figure 11.
8. Click on one of the thumbnails in the main window to edit, print, etc. the photograph. Note: you will edit the original photograph and changes cannot be undone. Video clips can only be played, not edited or printed.
9. See the program's Help function for more information.

Note: *The program has the option to publish the photographs on the Internet (if you have a connection to the Internet). This is useful if you wish to show your photographs to friends. Remember that anybody will then be able to see your photographs and the company that administers the site has the right to use your photographs in advertisements. This is also often the case with other photograph sharing websites and is partly the reason that they are free. Read the conditions for use.*

8.2.3 DVD Picture Show

You can use DVD Picture Show to easily transform your photographs into a slideshow. This slideshow can then be viewed on your television. You need a CD-writer or a DVD-writer in order to make the CD-ROM's. You will also need a DVD player.

1. Start the program (Start - Programs - DVD Picture Show Basic SE - DVD Picture Show Basic SE).
2. A window will appear once in which you must input the country you are located in or the video system. Select the bottom option and then select 'PAL'.
3. Click on 'OK'.
4. In the following window, select 'Next'. A choice menu for the slideshow will now be displayed. This window will be empty the first time you use the program.
5. Click on 'New Slide Show' to create your first presentation. A new window will appear in which you can select the photographs and background that you wish to use for the presentation (see figure 12).
6. Follow the on-screen instructions and, if necessary, use the Help function (F1). Pay attention to the size of the file: the maximum size for a CD-ROM is approximately 600 MB.
7. Once you have finished, you can save the slideshow on a CD-ROM or DVD using the program Disc Image Recorder (Start - DVD Picture Show Basic SE - Disc Image Recorder).

Note: *This application only works with photographs, not video clips.*

8.2.4 COOL 360

Use this program if you wish to join several photographs together to make a panoramic photograph. For instructions on how to use COOL 360, please refer to the instruction manual included on the CD-ROM. The manual can be found at the following location: D:\Software\Cool360\Manual\C360.pdf
Acrobat Reader must be installed on your computer to be able to read this manual.

8.3 Using the camera as a webcam

8.3.1 General

The TRUST 970Z POWERCAM OPTICAL 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.

Caution: *The camera could be used as webcam for a limited time depending on the batteries being used.*

8.3.2 Netmeeting

NetMeeting is not provided with the camera. When using Windows 2000 / XP it's already included in Windows.

When you're using Windows 98 / ME you could download the latest version of NetMeeting by going to www.microsoft.com and searching under the headwords 'download 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 -> Accessories -> Internet Tools -> NetMeeting).
3. Two windows will be opened, namely NetMeeting and your Dial-up connection.
4. Fill in your user name and password and click on 'Connect' to connect to the Internet. A 'Dial Up Connection' window will appear if you use an external gateway, a cable modem or ADSL.
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.
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 the 'My Video (New Window)' option. An extra window ('My Video') will now be opened.
9. 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.
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.

U K

TRUST 970Z POWERC@M OPTICAL ZOOM

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 'lis servers' on the Internet. An example is <http://www.netmeetinghq.com>. 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.

Caution: *When using NetMeeting, you may contact people who have different opinions than you have. Do not allow children to use NetMeeting unsupervised.*

Microsoft has started closing down its ILS servers. This will mean that you will only be able to use NetMeeting via MSN Messenger (an instant message program) which is included with most versions of Windows. You must register with Microsoft (to obtain a passport) before this program will work. See the MSN Messenger Help function for instructions on how to register. Other organizations have active ILS servers which can also be used.

When your version of Windows does not include MSN messenger, go to www.microsoft.com/msn to download it for free.

9 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/13648)



Problem	Possible cause	Solution
The camera has no power.	The camera is turned off.	Press the power button to turn the camera ON.
	The batteries are discharged.	Replace the batteries with fresh ones. Refer to Inserting Batteries.
	The batteries are inserted incorrectly.	Check the battery orientation. Refer to Inserting the Batteries.
The camera won't take a picture.	Ensure the green Camera Ready LED indicator is on and not flashing.	If the light is flashing, wait until it emits a steady light before taking a picture. The camera may be waiting for the flash to charge.
	Is the camera connected to a computer?	The camera's buttons are not functional when connected to a PC. Disconnect the camera to take more pictures.
The flash doesn't work.	Is the flash on?	Ensure the flash is set to auto or always on. Refer to Setting the Flash.
	There's too much light.	When there's too much light the flash will not work in auto-mode.
The images are blurry.	The camera or subject was moving when the shot was taken.	Hold the camera steady or put it on a tripod to take pictures.
	There was not enough light while taking picture.	Use the flash option.
The computer does not recognize the camera	The camera was connected to a personal computer by USB before installing software.	Connect the camera to the computer with the USB cable. Select [My computer] > [Control panel] > [System] > [Device manager]. From [other devices] delete [Composite USB device] or [unknown device]. Disconnect the camera from the computer, install the software, and then reconnect the camera.

TRUST 970Z POWERCAM OPTICAL ZOOM

<p>Images lose formatting data during image capture in "PC Camera" mode.</p>	<p>If your hard disk's DMA setting is turned off images may lose formatting data during image capture. (Windows 98 and Windows ME only.)</p>	<p>Please check to make sure your hard drive's DMA setting is enabled, as follows:</p> <p>From the Windows Start menu, select Settings, then Control Panel.</p> <p>In the Control Panel double-click System, then click the Device Manager tab.</p> <p>Select your hard drive from the list, then click Properties.</p> <p>Click the Settings tab.</p> <p>Make sure the box marked DMA is checked. If not, check the box to ensure that your hard drive will protect image attributes during capture.</p>
--	--	---

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

- The article number. This is 13648.
- Your hardware information.
- A good description of what does not work.
- A good description of when the problem occurs.

10 Warranty conditions

U K

- Our products have a two-year manufacturer's warranty which is effective from the date of purchase.
- If there is a fault, return the product to your dealer and include an explanation of the fault, the proof of purchase and all the accessories.
- During the warranty period, you will receive a similar model, if one is available. If no similar product is available, your product will be repaired.
- Please contact our help desk for missing components, such as the instruction manual, software or other components.
- The warranty becomes invalid if the product is opened, if there is mechanical damage, if the product has been misused, if alterations have been made to the product, if the product has been repaired by a third party, in the case of negligence or if the product has been used for a purpose other than that originally intended.
- Excluded from the warranty:
 - Damage caused by accidents or disasters, such as fire, flood, earthquakes, war, vandalism or theft.
 - Incompatibility with other hardware/software which is not stated in the minimum system requirements.
 - Accessories, such as batteries, fuses (if applicable).
- Under no circumstances will the manufacturer be held responsible for any incidental or consequential damage, including the loss of income or other commercial losses resulting from the use of this product.