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SPC640NC



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EN User manual

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**PHILIPS**

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# 1 Your WebCam

Congratulations on your purchase, and welcome to Philips! To fully benefit from the support that Philips offers, register your product at [www.philips.com/welcome](http://www.philips.com/welcome).

- At [www.philips.com/welcome](http://www.philips.com/welcome), select your language and choose 'Register my product'. Then follow the on-screen instructions for registration.

Please read the following instructions carefully, and retain them for future reference. It may be helpful to have the instructions for use for the PC at hand for reference.

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## Welcome

The Philips SPC640NC webcam you have just purchased is manufactured to the highest standards and will give you years of trouble-free use. Brilliant images and amazing sound quality, that's what you get with the SPC640NC webcam.

After installation, the new webcam can be used for all sorts of applications, such as:

- **Video:** use the Philips SPC640NC webcam for video chatting and video calling. The webcam works with Skype, Windows® Live Messenger, Yahoo! Messenger, AOL Messenger etc.;
- **Video sharing:** make your own personal videos and share them with friends and family via YouTube, Yahoo! Video, etc.;
- **Video e-mail / Video capture:** create your own video presentations, video mail, product demonstrations, training videos, Internet clips etc.;
- **Snapshot images:** use images in presentations, create postcards, or send them via e-mail.
- **Editing and special effects:** after recording the images you want with the Philips SPC640NC webcam, the images

can be easily edited using image or video editing programs.

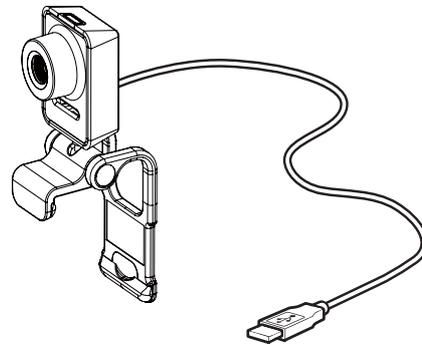
The following sections in this manual give a step-by-step description of the installation process and explain how to use the Philips SPC640NC webcam.

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## What's in the box

Please check that the following items are packed in the Philips SPC640NC box. They are provided to help you set up and use your Philips webcam.

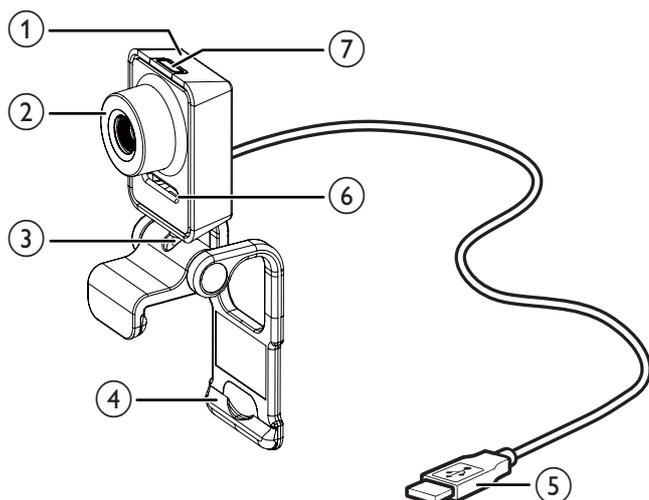
Philips SPC640NC webcam



CD-ROM for video and audio enhancement (including user manual)



## Functional overview



- ① **Snapshot button**
  - Take photos directly without the mouse.
- ② **Focus ring**
  - Adjust the focus of the image manually.
- ③ **Rotating joint**
  - Change the viewing field of the webcam manually.
- ④ **Clamp with rubber rims**
  - Mount the webcam on your (flat panel) PC monitor or notebook screen.
  - Fold the clamp when the webcam is placed on a desk or (large) desktop monitor.
- ⑤ **USB connector**
  - Connect the webcam to the USB port of the notebook or desktop PC.
  - Supply power to the webcam when it is connected to the notebook or desktop PC.
- ⑥ **Digital microphone**
  - Capture voice and sound during video calling and recording.
- ⑦ **Power LED**
  - Light up when the webcam is in use.

## 2 Getting started

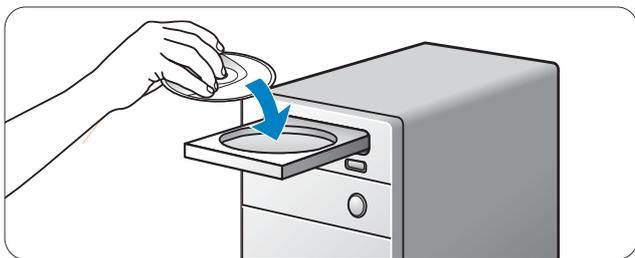
### Install the webcam software

The software supplied only works on PCs with the operating systems Microsoft® Windows® XP (SP2), Vista and Windows 7. See 'Information to the customer - System requirements'.

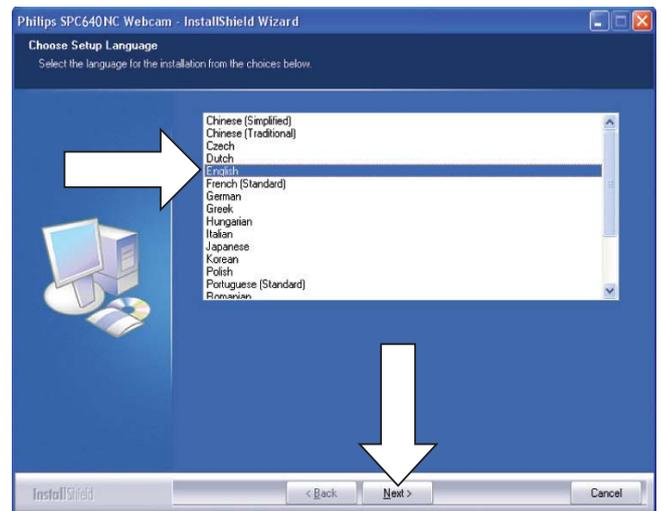
#### Note

- Before you start, unplug all your USB devices (except USB keyboard and USB mouse).
- Do not plug in your webcam yet. Run the Installation CD-ROM first.
- Have your Windows® CD-ROM at hand.
- If you connect the webcam without installation of the CD-ROM, you will not be able to use the features available in Philips applications.

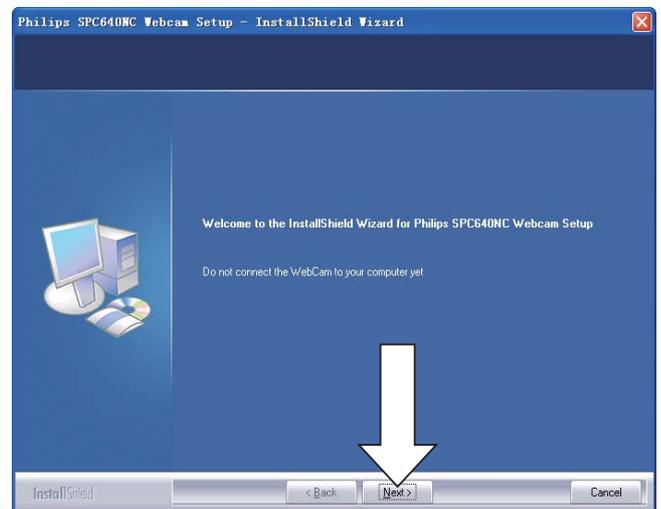
- 1 Place the installation CD-ROM onto the CD-ROM / DVD drive of your PC / notebook.



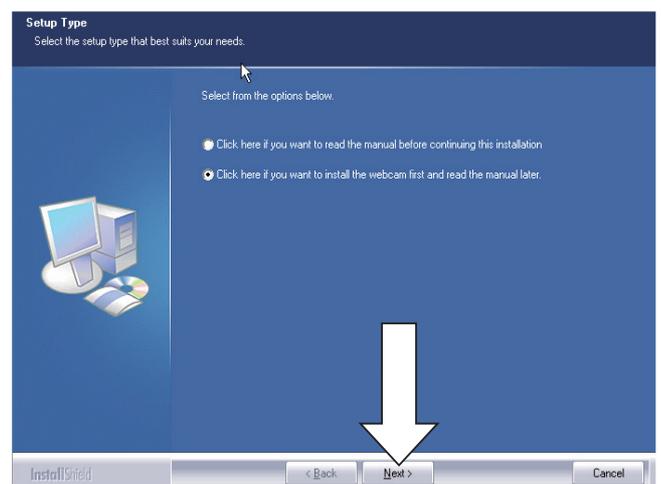
- 2 When the language selection screen appears, select your language.
  - If the language selection screen does not appear automatically, open 'Computer' or 'My computer', double click on the CD, then double click on the 'Setup.exe' icon.
  - Installation continues automatically.



- 3 When the welcome screen appears, click 'Next' to continue.

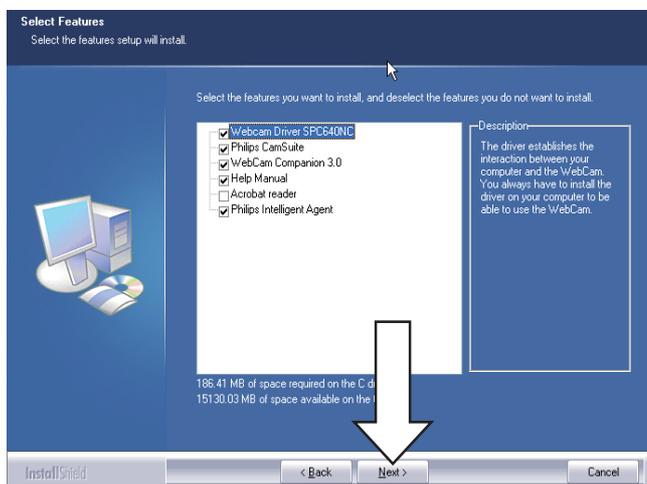


- 4 When the 'Manual' screen appears, select the second option, then click 'Next' to continue installation.

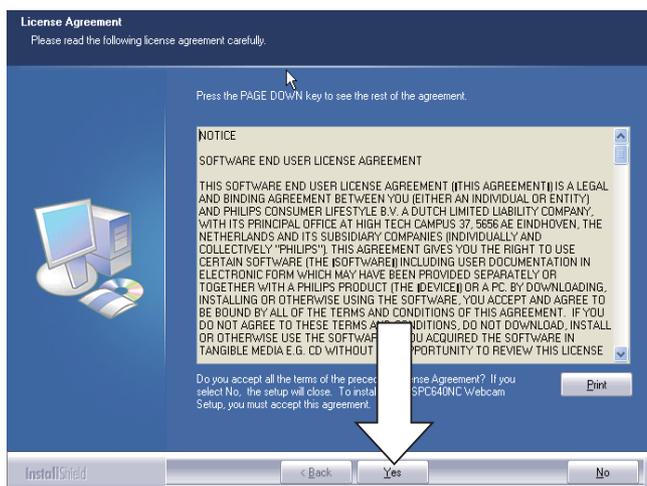


5 When the 'Installation' screen appears, click 'Next' to install all items.

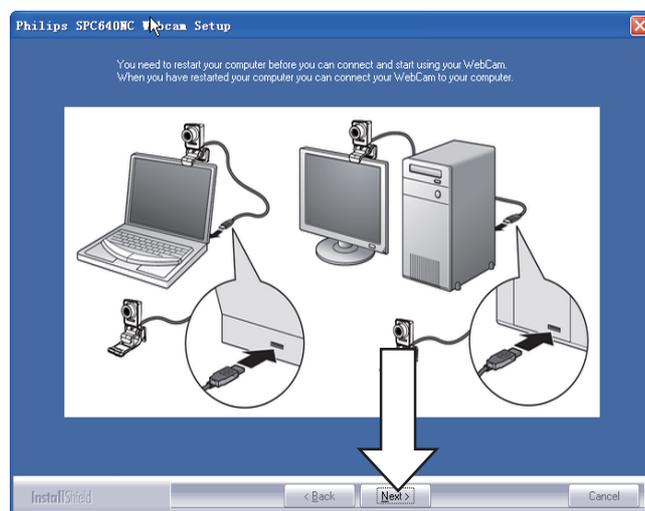
- if you do not want to install any item except 'WebCam Driver SPC640NC' and 'Philips CamSuite', uncheck the item, then click 'Next'.



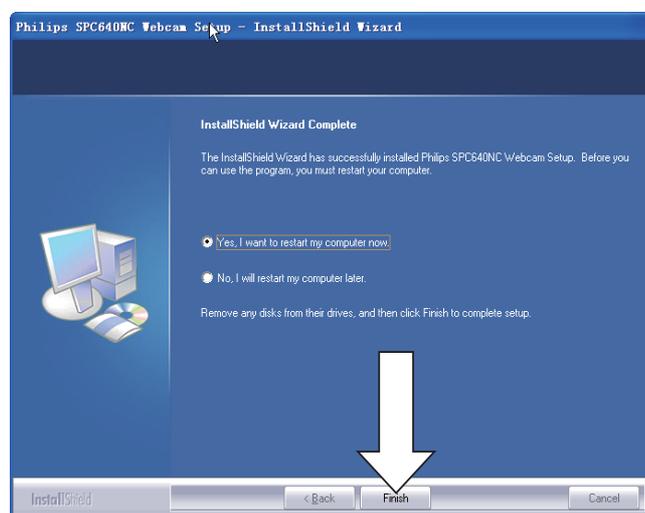
6 When the software license agreement appears, click 'Yes' to continue installation.



7 When the following screen appears, click 'Next' to continue.



8 When the 'Reboot' screen appears, select 'Yes', then click 'Finish' to restart your PC / notebook.



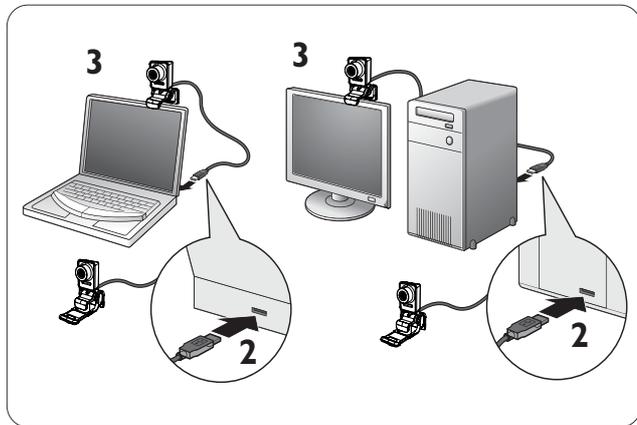
- ↳ The 'Philips CamSuite' shortcut will be visible in the Windows taskbar (bottom right of your screen).

#### Tip

- In the 'Philips CamSuite', you can adjust the webcam settings. See 'Adjust webcam settings'.

# Connect the webcam to your PC / notebook

Before you connect the webcam to the PC / notebook, make sure to run the installation CD first. See 'Install - Install the webcam software'.



- 1 Turn on the PC / notebook.
- 2 Connect the cable to the USB port of the PC / notebook.
  - Wait for completion of the installation (for first-time use only) until the following balloon appears at the bottom right corner of the screen.

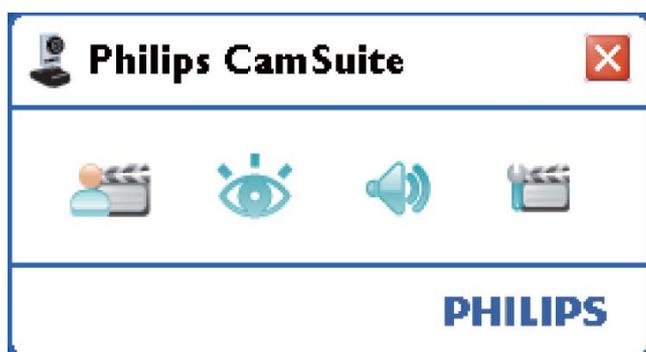


- 3 Use the clamp to mount the webcam on your PC monitor or notebook screen.
  - Fold the clamp to place the webcam on a desk or (large) desktop monitor.
- 4 Aim the webcam as needed.

## 3 Adjust webcam settings

You can adjust all SPC640NC webcam settings on respective property pages. However, through the Philips CamSuite application, you can easily access a number of the most used settings (properties). When you activate the instant messaging or VoIP service (Skype, Windows® Live Messenger, Yahoo! Messenger, etc.), the Philips CamSuite control panel appears automatically.

You can also double click  on the Philips CamSuite icon in the Windows taskbar (bottom right of your screen) to access the control panel.



The settings available on the Philips CamSuite control panel include:

- : WebCam Companion;
- : Image settings;
- : Audio settings;
- : Advanced settings (Property pages).

### WebCam Companion

Via WebCam Companion, you have access to the following webcam features:

- capture images;
- make video recordings;
- adjust monitor settings;
- broadcast your videos over the Internet;

- upload your videos to YouTube directly.
- To launch WebCam Companion, click  in the Philips CamSuite control panel.
- Or double click on the WebCam Companion icon  on the desktop.

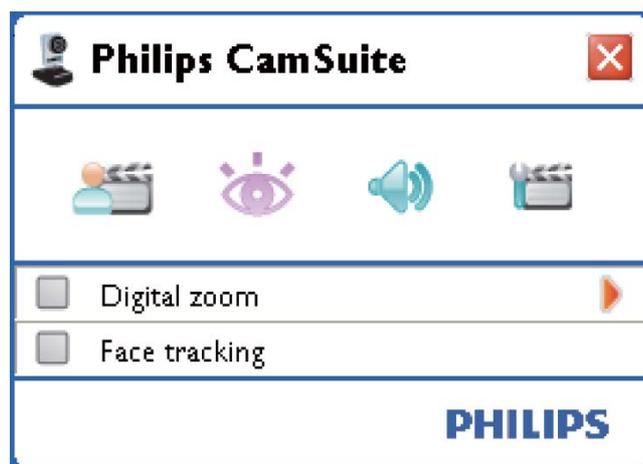
#### Tip

- For detailed information on how to use WebCam Companion, see the 'Help' menu or press the 'F1' button within the application.
- If WebCam Companion has not been selected during installation, the WebCam Companion icon  will not be visible on the desktop. When you click , an error message will appear. For details about installation, see 'Install - Install the webcam software'.
- If you are already using the webcam in another application, you will not be able to see any image in the viewer of the WebCam Companion.

### Image settings menu

In the [Image Settings] menu, you can choose available image features.

- 1 Click the  button in the Philips CamSuite control panel to open the [Image Settings] menu.



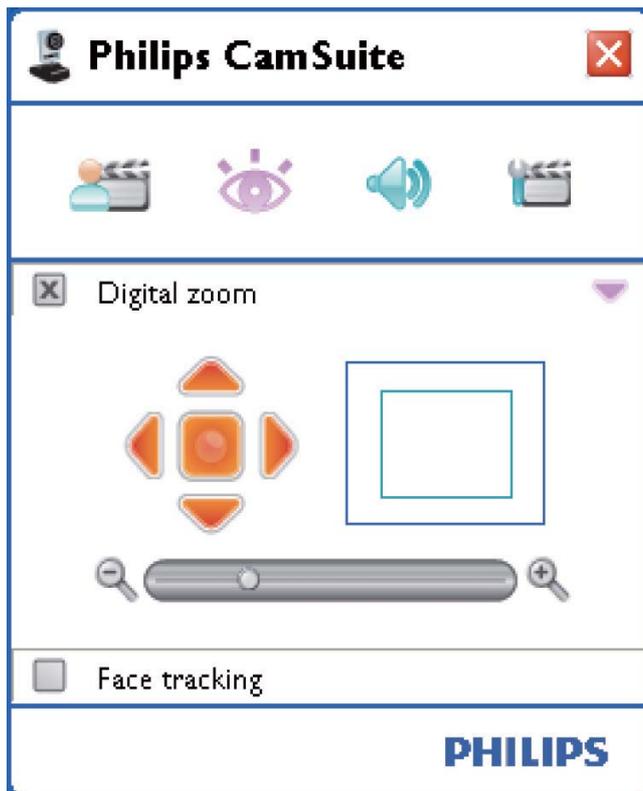
- 2 Check the box before an item to activate that item.
- 3 Click ► to open the control panel for that item.

- To close the control panel for the selected item, click ▼.
- To return to the Philips CamSuite control panel, click  again.

## Digital zoom

With this function, you can get a closer view of an object.

- 1 Press ► to open the [Digital Zoom] control panel.



- 2 Use the slider to dynamically zoom in and out.
  - ↳ The frame shows the position to the overall image. The frame increases / decreases according to the zoom factor.
  - ↳ Use the panning arrows (left / right / up / down) to move the frame.
  - ↳ Use the center button to position the frame in the center of the image.

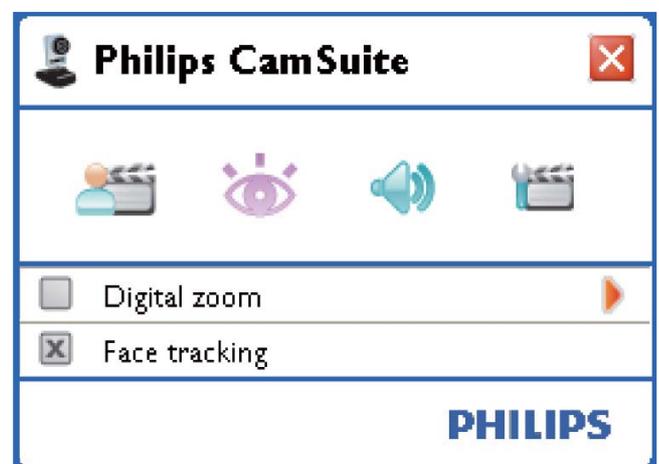
## Note

- Digital zoom magnifies the pixels but not the actual image. It degrades image quality.

## Face tracking

If you activate the [Face tracking] option, the webcam will track your face. This gives you more convenience during video chatting, because you stay in the centre of the image even if you move during video chatting.

- Just check the box before [Face tracking] to activate this option.



## Audio settings menu

In the [Audio Settings] menu, you can optimize the audio quality.

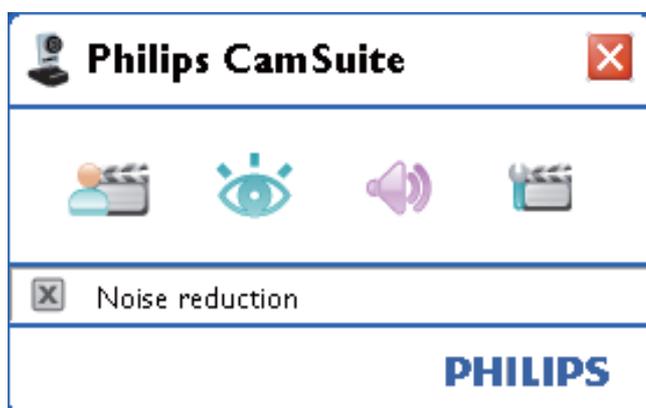
- Click the  button in the Philips CamSuite control panel to open the [Audio Settings] menu.

## Noise reduction

With this function, you can significantly reduce all stationary noises picked up by the webcam's microphone, such as air conditioner noise and the noise made by the fan inside your computer. It enhances clarity of speech in both quiet and noisy environments.

The result is more listening comfort and easier communication.

- Just check the box before **[Noise Reduction]** to activate this option.



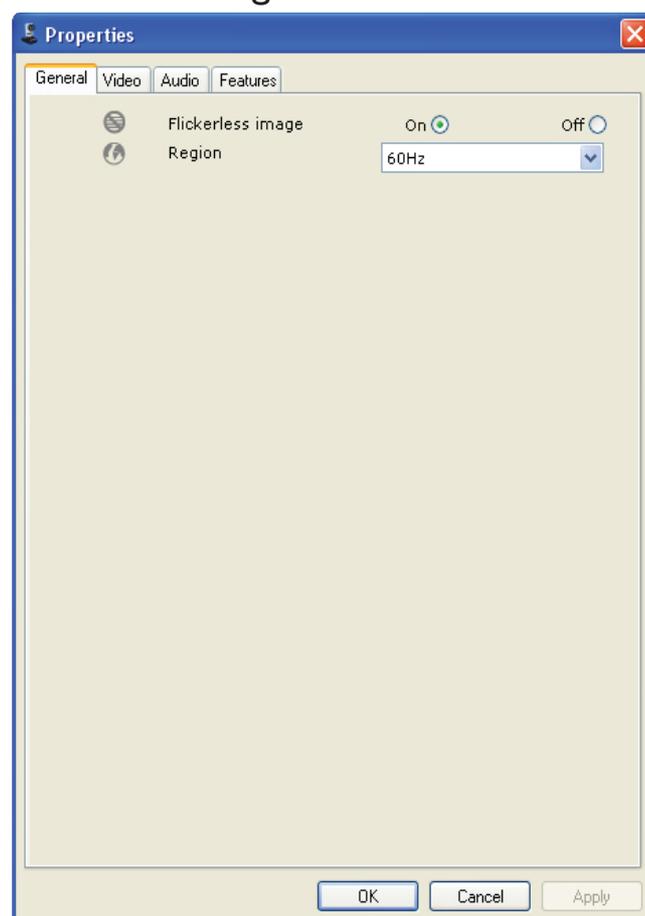
## Property pages

On the **[Properties]** pages, you can adjust all available SPC640NC webcam settings (properties).

### Note

- For easy access to the most used webcam settings (Image, Audio), open the Philips CamSuite control panel and make settings as described in the previous chapters.
- Click the  button in the Philips CamSuite control panel to open the **[Properties]** pages.
  - ↳ The '**[General]**' settings screen appears.

## General settings



You can adjust the following general settings:

### **[Flickerless image]**

The **[Flickerless image]** option should only be used under flickering light conditions (e.g. fluorescent or neon lamps) to prevent flickering or strangely colored video images. If this option is used under normal lighting conditions, the video image may be overexposed.

### **[Region]**

During installation, this parameter will be set automatically to the correct region frequency. When you travel, you may need to change the setting to optimize the image quality. The region frequency settings for different countries are listed below.

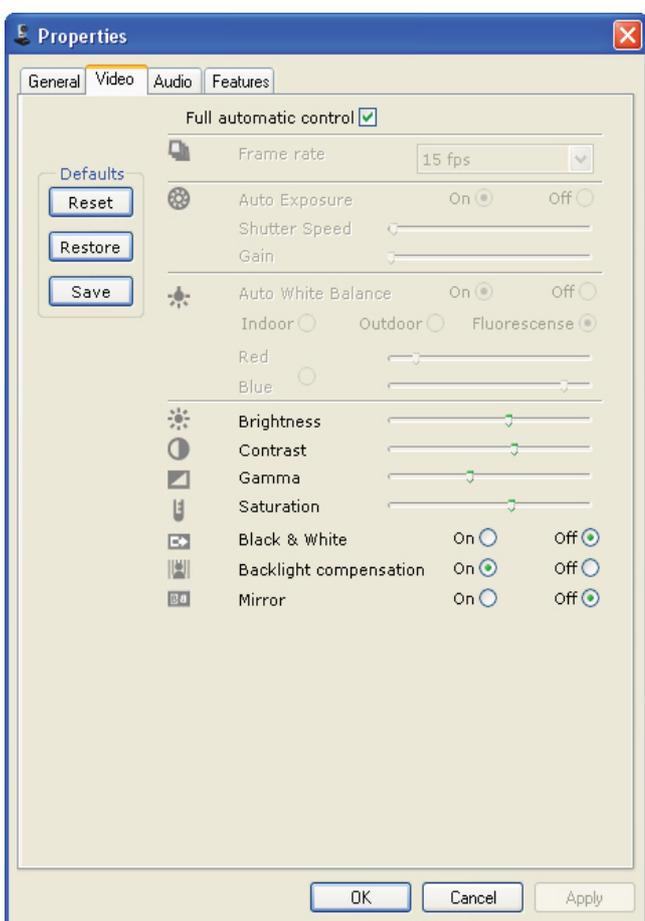
Country (region)	Region frequency
Europe	50 Hz
North America	60 Hz
China	50 Hz
Taiwan	60 Hz
Japan	Region-dependent

### Tip

- Please check your local mains output to find the correct **[Region]** setting.

## Video settings

- Click the **[Video]** tab.  
↳ The **[Video]** settings screen appears.



### Note

- To change the video resolution, find and use the corresponding function available in the WebCam Companion.

You can now adjust the following video settings:

### [Full automatic control]

This full automatic control mode provides a very easy way to get the best out of your Philips SPC640NC webcam. Or you can choose to have maximum manual control over the webcam settings by switching the full automatic control mode off. Full automatic control 'on' is the preferred setting for normal use.

Techniques active within full automatic control mode are:

### [Frame rate]

A frame is a single picture or still shot, that is shown as part of a larger video or movie. The frame rate is the number of frames displayed per second. The higher the frame rate, the better the video display but the higher the load on the processor.

You can use the scroll open menu to set the frame rate of the video that you wish to capture. For example, 30 fps means that the webcam will capture video at 30 frames per second.

### [Auto Exposure]

The exposure is the amount of light received by the sensor and is determined by how long the sensor is exposed to capture a snapshot or video frame. The result depends on the sensitivity of the sensor. The webcam will find the optimal setting if you select the automatic exposure option.

### [Shutter Speed]

The shutter speed determines how long the camera shutter remains open as a picture is taken. The slower the shutter speed, the longer the exposure time. The shutter speed controls the total amount of light reaching the sensor.

Use the slider to set the desired shutter speed.

**[Gain]**

In video, gain is the amount of white in a video picture. Use the slider to set the desired gain level.

**[Reset]**

Press this button if you would like to reset the webcam settings to the default factory settings.

**[Restore]**

Press this button if you would like to restore your personal preferred settings.

**[Save]**

Press this button if you would like to save your personal preferred settings.

**[Auto White Balance]**

Most light sources are not 100% pure white but have a certain 'color temperature'.

Normally our eyes compensate for lighting conditions with different color temperatures. If the automatic white balance is selected, the webcam will look for a reference point which represents white. It will then calculate all other colors based on this white point and compensate the other colors accordingly, just like the human eye.

You can also select fixed settings for **[Indoor]**, **[Outdoor]** and **[Fluorescence]** conditions or use the 'Red' and 'Blue' effect if you would like to set the webcam according to your personal color temperature preferences.

**[Brightness]**

Brightness enables you to adjust the brightness of the displayed image or video to suit your own preference. Use the slider to find your preferred setting.

**[Contrast]**

Contrast enables you to control the ratio between dark and light according to your own preference. Use the slider to find your preferred setting.

**[Gamma]**

Gamma enables you to brighten dark areas within the displayed image or video and visualize more details without over-exposing already light areas. Use the slider to find your preferred setting.

**[Saturation]**

Saturation enables you to set the color reproduction from black and white to a full color image or video according to your own preference. Use the slider to find your preferred setting.

**[Black & White]**

The **[Black & White]** checkbox is used to switch from color images to black and white and back.

**[Backlight compensation]**

Turn on the backlight compensation to improve the image quality when you have a scene where the background has a high illumination level (for instance when you are sitting in front of a bright light).

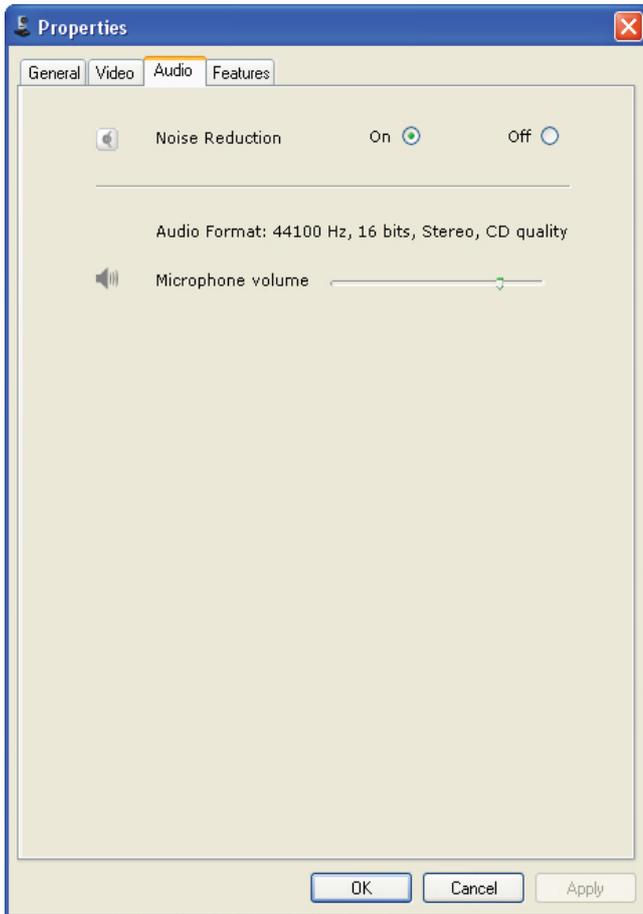
**[Mirror]**

When you enable this function, the image flips horizontally. You can use this feature when you want to use the Philips SPC640NC and monitor as a mirror, or to take pictures of mirrored images.

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## Audio settings

- Click the **[Audio]** tab.
  - ↳ The **[Audio]** settings screen appears.



You can now adjust the audio volume setting:

### **[Noise Reduction]**

For an explanation of the feature and information on how to activate it via the Philips CamSuite control panel, see 'Adjust webcam settings -Audio settings menu - Noise reduction'.

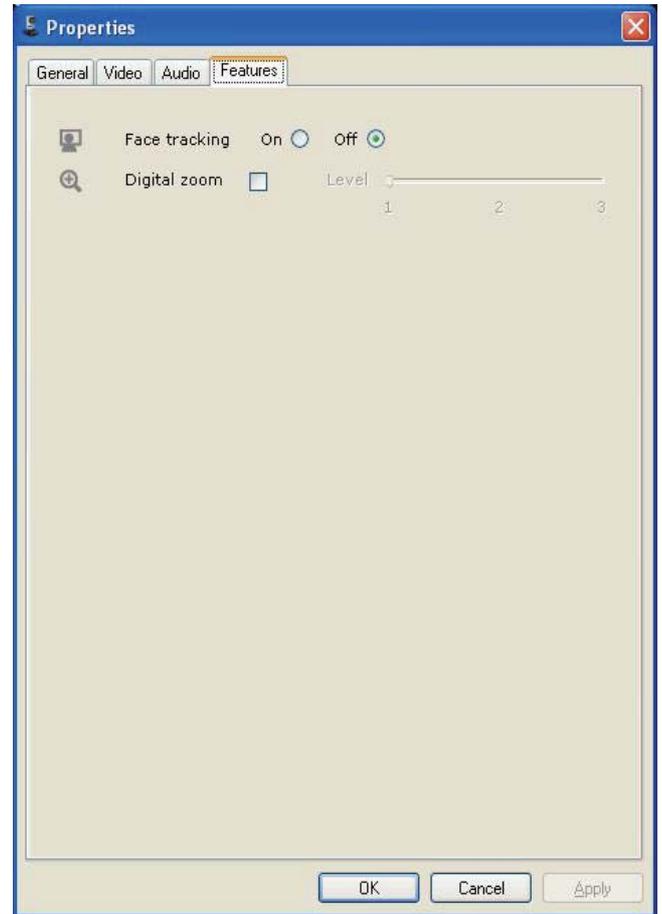
### **Volume slider**

This slider provides manual control over the microphone.

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## Features settings

- Click the **[Features]** tab.
  - ↳ The **[Features]** settings screen appears.



You can now adjust the following feature settings:

### **[Face tracking]**

For an explanation of the feature and information on how to activate it via the Philips CamSuite control panel, see 'Adjust webcam settings - Image settings menu - Face tracking'.

### **[Digital Zoom]**

For an explanation of the feature and information on how to activate it via the Philips CamSuite control panel, see 'Adjust webcam settings - Image settings menu - Digital zoom'.

## 4 Operate the webcam with video calling and chatting

The Philips SPC640NC webcam works with instant messaging and VoIP (Voice over Internet Protocol) applications such as Skype, Windows Live Messenger, Yahoo! Messenger and AOL Instant Messenger.

After installation of an application, make the required webcam settings within the application in order to be able to properly use the webcam via the specific application.



### Tip

- For details, see the help function of the application and 'Adjust webcam settings - WebCam Companion'.

# 5 Technical specifications

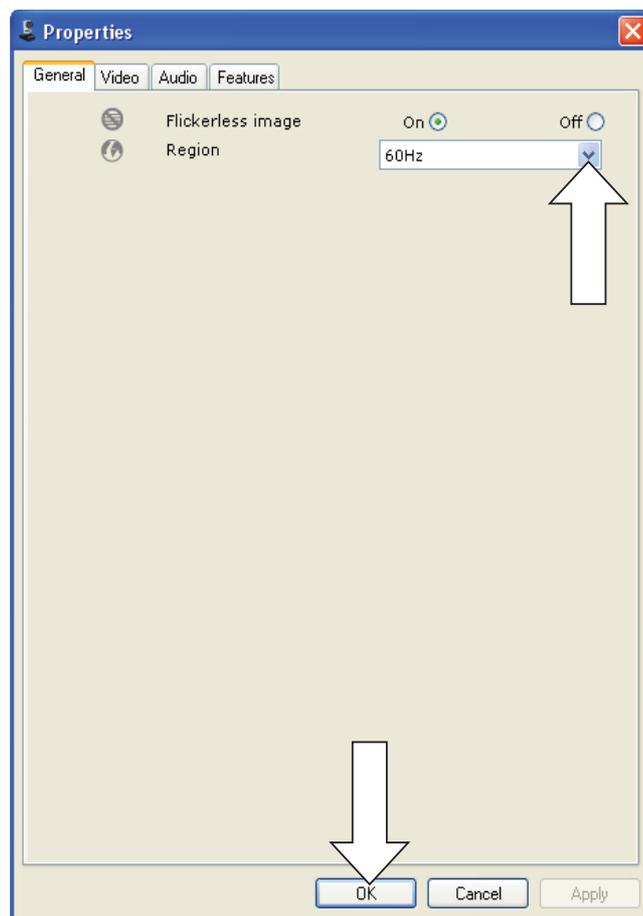
Sensor	VGA CMOS
Real video resolution (Max.)	640 × 480
Real still image resolution (Max.)	640 × 480
Interpolated still image resolution (Max.)	1280 × 960
Frames per second	30 fps (maximum)
F-number	2.6
Lens view angle	55 degrees
Interfacing	USB 2.0, UVC compliant
USB cable length	1 m
Microphone	Digital built-in
Power	Supplied via USB cable
Voltage requirements	5V (≡), 0.5A

## 6 Frequently asked questions (FAQ)

### How can I adjust image quality?

The default settings of the Philips SPC640NC webcam usually offer the best possible image quality. It might be possible that you are not completely satisfied with the current image quality. In this case, follow the steps below to adjust image quality according to your own personal preferences.

- 1 Open a webcam viewer such as WebCam Companion or an instant messaging service such as Skype, Windows® Live Messenger or Yahoo! Messenger to see what you are filming.
  - ↳ The Philips CamSuite control panel appears automatically.
  - ↳ If the Philips CamSuite control panel does not appear automatically, double click on the Philips CamSuite icon  in the Windows taskbar (bottom right of your screen) to open it.



- 2 Click the  button to open the [Properties] page.
  - ↳ The [General] settings screen appears.
- 3 Check the [Region] setting for the webcam and adjust if necessary.
  - Select '50 Hz' for Europe and China.
  - Select '60 Hz' for North America and Taiwan.
  - For other regions, check your local mains output to find the correct [Region] setting.
- 4 Click [OK] to save your settings.
- 5 Click the [Video] tab.
  - ↳ The [Video] settings screen appears.
- 6 Adjust the gamma value of the displayed image or video. The gamma setting enables you to visualize more details.
  - Use the  slider to find your preferred setting. Slide to the left to see more details; slide to the right to see less details.

- 7 Adjust the brightness of the displayed image or video.
  - Use the  slider to find your preferred setting. Sliding to the left makes the image darker; sliding to the right makes the image brighter.
- 8 Click [OK] to save your settings.

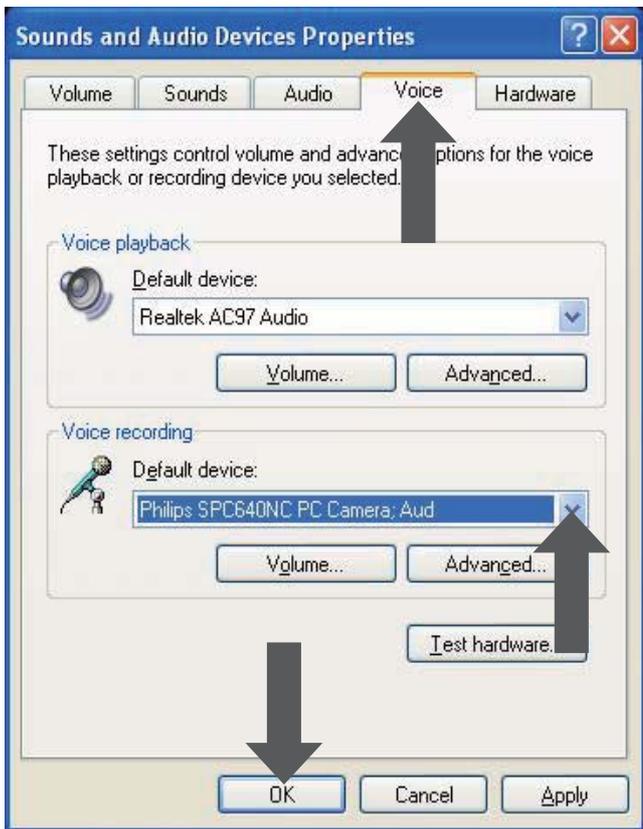
**Note**

- To change the video resolution, find and use the corresponding function available in the WebCam Companion.

**The microphone of my Philips SPC640NC webcam or headset does not work (properly). What should I do?**

For Windows XP (SP2):

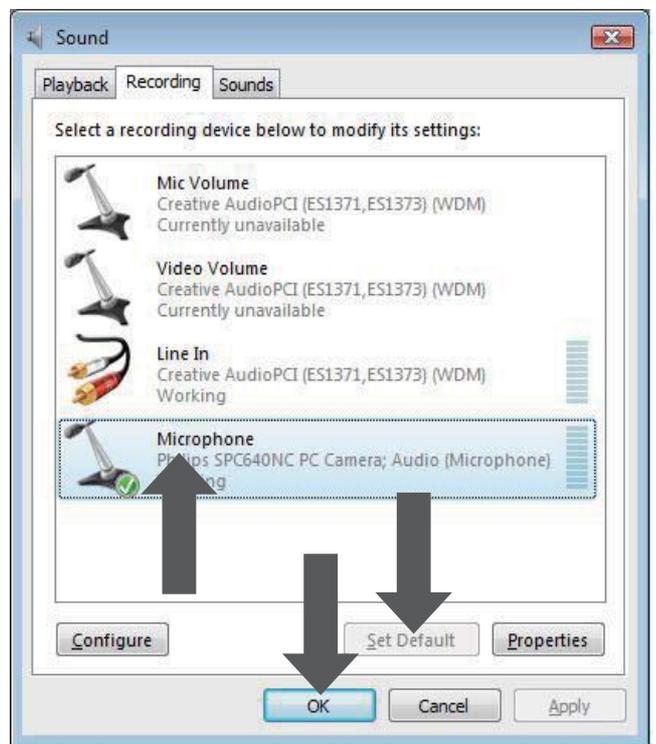
- 1 Click the Windows 'Start' button (bottom left of your screen).
- 2 Open the 'Control panel'.
- 3 Click 'Sounds and Audio Devices'.
- 4 Click the 'Voice' tab in the screen that appears.



- 5 Set the Philips SPC640NC webcam or the connected headset as default device for 'Voice recording'.
- 6 Click 'OK' to save your settings.

For Windows Vista:

- 1 Click the Windows 'Start' button (bottom left of your screen).
- 2 Open the 'Control panel'.
- 3 Click 'Hardware and Sound'.
- 4 Click 'Sound'.
- 5 Click the 'Recording' tab in the screen that appears.



- 6 Select the Philips SPC640NC webcam or the connected headset and click 'Set Default'.
- 7 Click 'OK' to save your settings.

**Using my Philips SPC640NC webcam makes my PC / notebook run slow. What should I do?**

- 1 Close software applications that do not necessarily need to run.
- 2 Double click on the Philips CamSuite icon in the Windows taskbar (bottom

- right of your screen) to open the Philips CamSuite control panel.
- 3 Click the  button to open the **[Properties]** page.
    - ↳ The **[General]** settings screen appears.
  - 4 Click the **[Video]** tab.
    - ↳ The **[Video]** setting screen appears.
  - 5 Check whether **[Full automatic control]** is enabled (box checked). If it is enabled, uncheck the box to disable **[Full automatic control]**.
  - 6 Set **[Frame rate]** to a minimum of 5 fps.
  - 7 Click **[Ok]** to save your settings.
- 3 Click the **[Video]** tab.
    - ↳ The **[Video]** setting screen appears.
  - 4 Click the **[Reset]** button.
    - ↳ All webcam settings are now reset back to the default factory settings.
  - 5 Click **[Ok]** to save your settings.

### Note

- The maximum frame rate (frames per second (fps) produced by the webcam) and the maximum image resolution depend on the specifications of your PC / notebook. The webcam software will automatically adjust frame rate and resolution as good as possible for your particular situation. It might be possible that the specifications of your PC / notebook do not meet the requirements for maximum frame rate and resolution setting.

### No image is available on the screen. What should I do?

- 1 Ensure that the webcam is connected properly.
- 2 Check whether you are using the webcam in another application.
- 3 You cannot use the webcam in more than one application at the same time. Close the application.

### How can I restore my Philips webcam to the default factory settings?

- 1 Double click on the Philips CamSuite icon in the Windows taskbar (bottom right of your screen) to open the Philips CamSuite control panel.
- 2 Click the  button to open the property pages.
  - ↳ The **[General]** settings screen appears.

# 7 Service and support

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## Need help?

First of all, read this user manual carefully. When you have additional questions about setup, usage, warranty, etc. of the SPC640NC, see [www.philips.com/support](http://www.philips.com/support).

- 1 At '[www.philips.com/support](http://www.philips.com/support)', select your country / language.
- 2 Enter 'SPC640NC' after 'Model number or keyword' and click 'Search'.
- 3 Click 'SPC640NC' under 'Your results'.
  - Under 'Product support' you will find information about setup and usage, user manuals, software update and frequently asked questions.
  - Under 'Service' you will find information on warranty.

Telephone numbers of Philips Consumer Care helpdesk can also be found on this website. The model number of your webcam is SPC640NC.

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## Information to the customer

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### Safety precautions

Observe the following guidelines to ensure that the webcam will operate safely and to prevent defects.

- Do not use your webcam in environments outside the following range: temperature: 0°C to 40°C, relative humidity: 45% ~ 85%.
- Do not use or store your webcam in/ under:
  - direct sunlight exposure;
  - very humid and dusty environment;
  - near any kind of heat sources.

- If your webcam gets wet, dry it with soft cloth as soon as possible.
- If the lens is dirty, do NOT touch the lens with your fingers.
- Clean the outside of the webcam with a soft cloth.
- Do NOT use cleaning fluids based on alcohol, methylated spirit, ammonia, etc.
- Do NOT attempt to disassemble or repair your webcam by yourself. Do not open the webcam. In the event of technical difficulties return it to your Philips retailer.
- Do NOT use your webcam in the water.
- Protect the webcam from oil, vapour, steam, moisture, and dust.
- Never point the webcam lens at the sun.

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## FCC compliance

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- ① **this device may not cause harmful interference, and**
- ② **this device must accept any interference received, including interference that may cause undesired operation.**



### Note

- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.
- These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any unauthorized modification to this equipment could result in the revocation of the authorization to operate the equipment.

## Environmental information

### Disposal of your old product

Your product is designed and manufactured with high quality materials and components, which can be recycled and reused.



When this crossed-out wheeled bin symbol is attached to a product, it means the product is covered by the European Directive 2002/96/EC.

Please be informed about the local separate collection system for electrical and electronic products.

Please act according to your local rules and do not dispose of your old product with your normal household waste. The correct disposal of your old product will help prevent potential negative consequences to the environment and human health.

All redundant packing material has been omitted. We have done our utmost to make the packaging easily separable into mono materials.

Please observe the local regulations regarding the disposal of packing materials.



### Warning

- Plastic bags can be dangerous. To avoid danger of suffocation, keep this bag away from babies and small children.

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## System requirements

- Microsoft® Windows® XP (SP2), Vista or Windows 7;
- Intel Pentium® IV, 850Mhz or equivalent;
- 512 MB RAM (for XP) or 1 GB RAM (for Windows Vista and Windows 7) with 200 MB free hard disk space;
- One free USB port (USB 2.0) and CD-ROM or DVD drive.

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## Disclaimer of warranty

The software on the CD-ROM supplied is sold 'as is' and without warranties whether expressed or implied. Because of the various software and hardware environments into which this program may be put, no warranty of fitness for a particular purpose is offered.

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## Limitations of damages

The vendor will not be liable for any indirect, special, incidental or consequential damages (including damages for loss of business, loss of profits, or the like), whether based on breach of contract, tort (including negligence), product liability or otherwise, even if the vendor or its representatives have been advised of the possibility of such damages and even if a remedy set forth herein is found to have failed its essential purpose.

