

SPC530NC

User manual



PHILIPS

What's in the box?

Please check that the following items are packed in the Philips SPC530NC box. They are provided to help you set up and use your Philips SPC530NC.

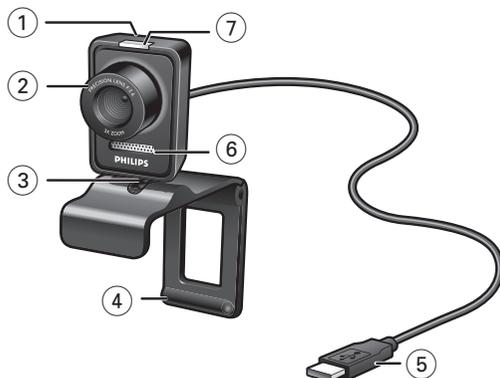


*Philips SPC530NC
WebCam*



*Installation CD-ROM
including manual*

Legend of functions



1 Snapshot button

Enables you to take photos without using your mouse.

2 Focus ring

For manually adjusting the focus of the lens.

3 Rotating foot

For manually changing the vertical angle of the WebCam.

4 Clamp with rubber rims / camera foot

For attaching the WebCam to your (flat panel) PC monitor or laptop screen.

The clamp can be folded when the WebCam is placed on a desk or (large) desktop monitor.

5 USB connector

For connecting the WebCam to the USB port of the laptop or desktop PC.

The WebCam will derive its power from the laptop or desktop PC when a USB connection is made.

6 Digital microphone

For adding voice and sound when video calling and video recording.

7 Power LED

Lights up blue when the WebCam is in use.



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Welcome

The Philips SPC530NC WebCam you have just purchased is manufactured to the highest standards and will give you years of trouble-free use. Brilliant images and blazing colors, that's what you get with the SPC530NC WebCam.

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

- **Video:** use the Philips SPC530NC WebCam for video chatting and video calling. The WebCam works with Skype, Windows® Live Messenger, Yahoo! Messenger, AOL Messenger, QQ and other free instant messaging and VoIP (Voice over Internet Protocol) services;
- **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 SPC530NC 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 SPC530NC WebCam.

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.

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.

Copyright

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Installation

Installing the WebCam software

The software supplied only works on PCs with the operating systems Microsoft® Windows® XP and Vista.

Notes!

- Unplug all your USB devices (except USB keyboard and USB mouse) before you start.
- Do not plug in your WebCam yet. Run the Installation CD-ROM first.
- Have your Windows® CD-ROM at hand.



1 Place the installation CD-ROM in your PC's / laptop's CD-ROM / DVD drive.

> After a couple of seconds the 'Language selection' screen appears.

Note!

If the 'Language selection' screen does not appear automatically, open the Microsoft® Windows® Explorer and double click on the 'Set-up.exe' icon in the CD-ROM directory.



2 Select your language.

> Installation continues automatically.



> The 'Welcome' screen appears.

3 Click 'Next' to continue.



> The 'Manual' screen appears.

4 Select the first option if you wish to read the user manual before continuing installation. You can print out the manual so you will have it at hand during the rest of the installation process.

After you read or printed the user manual, continue installation by selecting the second option.

Or:

Select the second option if you wish to continue installation.

Click '**Next**' to continue.

> The 'Installation' screen appears. The items that can be installed are shown on the left side of the screen. An explanation of each item is given on the right side.

All items are already selected for installation.

5 Click the '**Next**' button if you wish to install all items.

Or:

If there are certain items you do not wish to install, check the boxes before these items.

Select at least 'SPC530NC WebCam Driver' and 'Philips VLounge'. Click the '**Next**' button.

> The following software license agreement appears.

6 Click on '**Yes**' to continue the installation.

> The following screen appears when the installation was successful.

7 Select the user manual.

Or:

Click '**Next**' to continue.

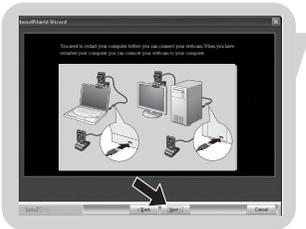
> The 'Reboot' screen appears.

8 Select '**Yes**' to restart your PC / laptop.

> V(ideo)-Lounge desktop shortcut 'VL' will be installed after installation.

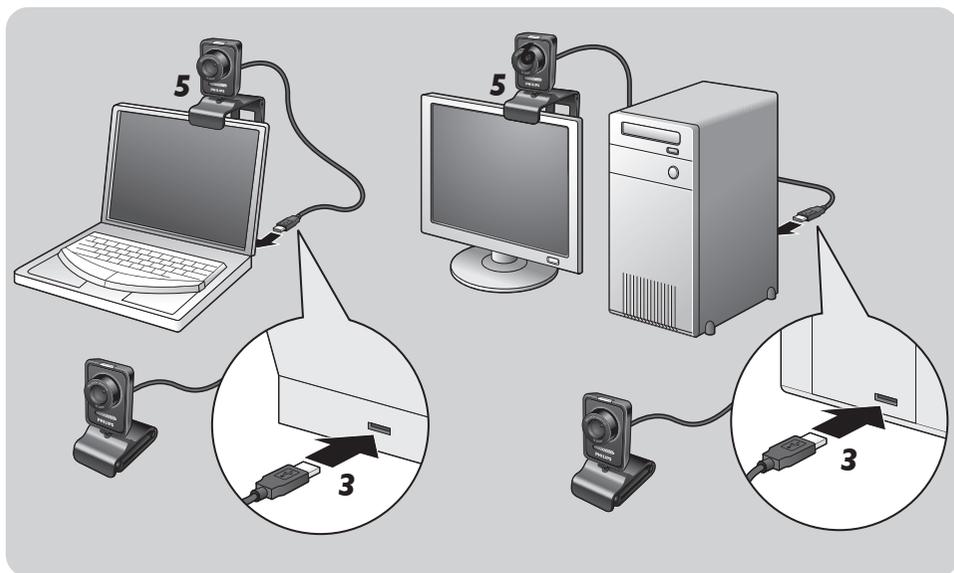
> Via VLounge you have access to all camera-related software. See 'Operating the WebCam'.

9 You can now connect your WebCam.



Installation

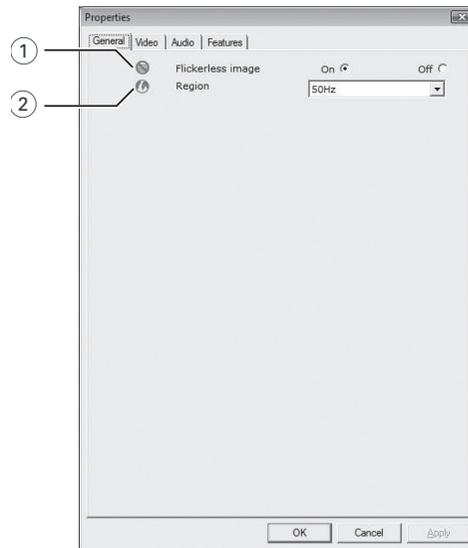
Connecting the WebCam to your PC / laptop



- 1** Be sure to run the installation CD first, before connecting the WebCam to the PC / laptop.
- 2** Turn on the PC / laptop.
- 3** Connect the USB connector of the USB cable to the USB port of the PC / laptop.
> The WebCam will now derive its power from the PC / laptop.
- 4** Aim the webcam as required.
- 5** Use the clamp and the two rubber rims to attach the WebCam to your PC monitor or laptop screen.
 - Fold the clamp to place the WebCam on a desk or (large) desktop monitor.

- The Philips SPC530NC video properties can be changed:
- from within an application;
 - by clicking the VProperty icon  in the Windows taskbar; bottom right of your screen;
 - by selecting 'PC Camera Settings' under 'Preferences' in the VLounge selection screen;
 - by clicking the '' icon in the VLounge selection screen.

General settings



① 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.

② Region

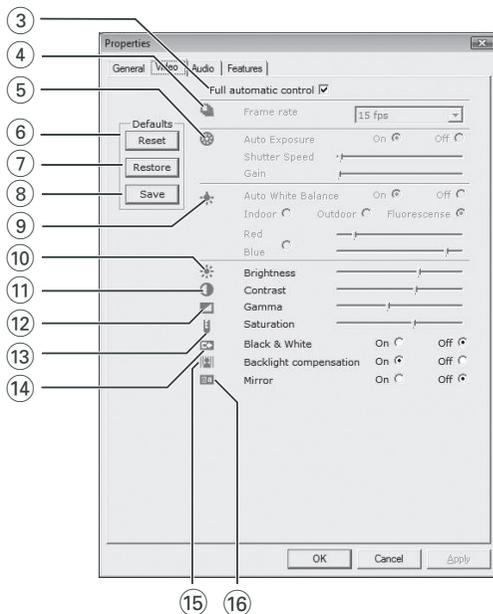
If you are using the Philips SPC530NC in Europe, select '50 Hz' and if you are using the Philips SPC530NC in North America, select '60 Hz'.

For Asia this setting is dependent on the local mains output. E.g. for China, select '50 Hz' and for Taiwan, select '60 Hz'.

For Japan the setting is region dependent. Please check your local mains output to find the correct 'Region' setting.

WebCam settings

Video settings



③ Full automatic control: on/off

This full automatic control mode provides a very easy way to get the best out of your Philips SPC530NC 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:

- *Automatic exposure control* and automatic white balance control, to provide the best video source signal possible;
- *Automatic frame rate selection* for improved WebCam sensitivity in low light conditions.

④ Frame rate

You can use the scroll open menu to set the frame rate of the video you wish to capture. E.g. 30 fps means that the WebCam will capture video at 30 frames per second.

⑤ 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.

⑥ Reset

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

⑦ Restore

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

⑧ Save

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

⑨ 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' sliders if you would like to set the WebCam according to your personal color temperature preferences.

WebCam settings

- ⑩ **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.
- ⑪ **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.
- ⑫ **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.
- ⑬ **Saturation**

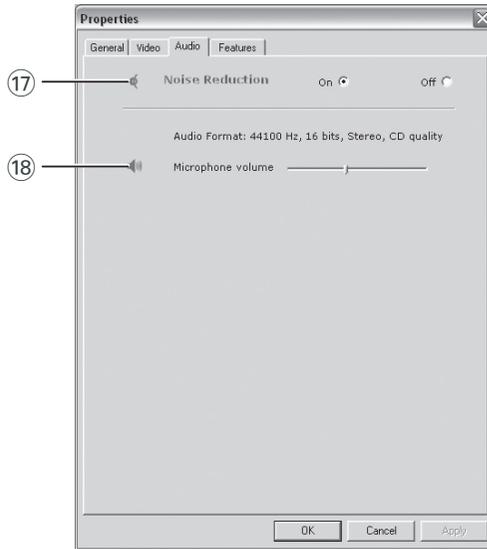
Saturation enables you to set the color reproduction from black and white to a full color image or video according to your own preference. Use the slider to find your preferred setting.
- ⑭ **Black and white**

The 'Black and white' checkbox is used to switch from color images to black and white and back.
- ⑮ **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).
- ⑯ **Mirror**

Clicking the 'Mirror Image' checkbox flips the image horizontally. You can use this feature when you want to use the Philips SPC530NC and monitor as a mirror; or to take pictures of mirrored images.

Audio settings



17 Noise reduction

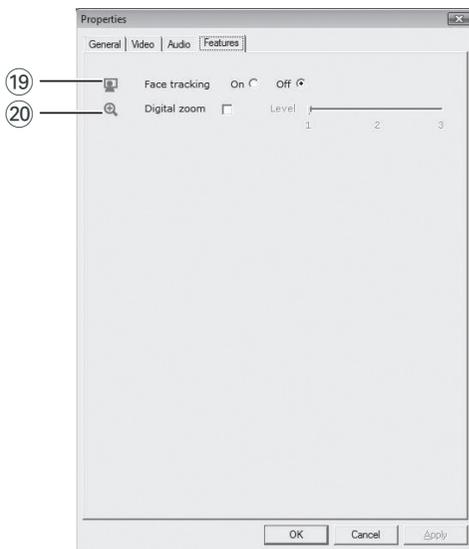
Noise reduction significantly reduces all stationary noises picked up by the WebCam's microphone, such as the noise made by the air conditioning and the fan inside your computer. The result is a clear sound, free of noise, more listening comfort and easier communication.

18 Volume slider

This slider provides manual control over the microphone.

WebCam settings

Features settings



19 Face tracking

If you enable the face tracking option the WebCam will track your face. This will give you more convenience while video chatting, because you don't need to sit still during your video conversation.

20 Digital zoom

Use the digital zoom option to get an object closer. Digital zoom magnifies the pixels but not the actual image. It degrades image quality. Use the slider to set the desired volume level.

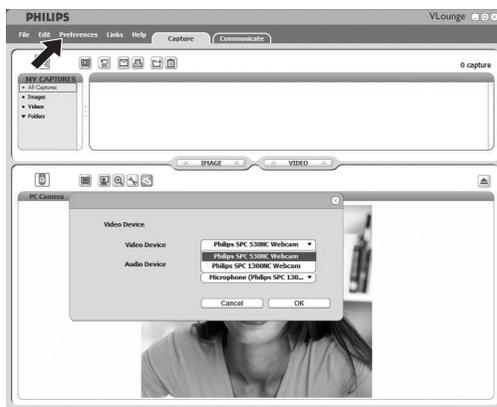
V Lounge

All applications can be accessed via the Philips V(ideo)-Lounge application. V Lounge is the central application for easy access to your Philips WebCam.

- **Start V Lounge:**
 - through the Windows QuickLaunch menu in your taskbar;
 - via the program group 'SPC530NC WebCam';
 - by clicking the V Lounge icon  on the desktop.
- > The V Lounge application will now be initiated and the V Lounge selection screen appears.

Selecting your WebCam

When more than one WebCam is installed and connected to your PC / laptop, you can select the WebCam you wish to operate.

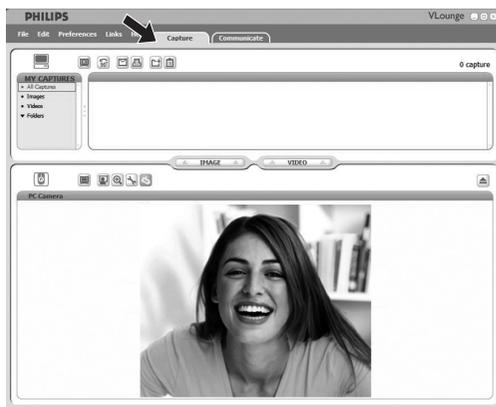


- 1 Open the '**Preferences**' menu.
- 2 Select '**Video Device**'.
 - > All WebCams connected are shown.
- 3 Select the WebCam you wish to operate.
- 4 Click the '**OK**' button.
 - > The V Lounge-selection screen for the selected WebCam appears.

Operating the WebCam

Capturing images / making video recordings

In the 'Capture' menu you can capture images and make video recordings and transfer; preview, edit, e-mail, print and organise your photos and video recordings.



- Click the **'Capture'** tab to open the Capture menu.
> *The camera starts operating immediately.*
- Click **'IMAGE'** to capture an image.
- Click **'VIDEO'** to start a video recording.
Click **'VIDEO'** again to stop recording.
- Click  to maximize the lower part of the screen and display the camera preview.
- Click  to maximize the upper part of the screen and display your captured images and video recordings.
- Move your cursor onto a button to see a brief explanation of the button function.
- If you need assistance select **'Application Help'** in the **'Help'** menu.

Instant messaging and Internet calling (video chatting, video calling and VoIP)

The Philips SPC530NC WebCam works with *all* free instant messaging and VoIP (Voice over Internet Protocol) applications such as Skype, Windows® Live Messenger, Yahoo! Messenger, AOL Messenger and QQ.



- 1 Click the **'Communicate'** tab to open the Communicate menu.
> The available applications are shown by their icons.
- 2 Click the appropriate **'Install'** button to download and install an application.
- 3 Follow the on-screen instructions during downloading and installing.
- 4 After installing an application, make the required WebCam settings *within* the application in order to be able to properly use the WebCam via the application.
- 5 Click the appropriate **'Launch'** button to start an application.

Technical specifications

Sensor	VGA CMOS
Real video resolution (Max.)	640 x 480
Real still image resolution (Max.)	640 x 480
Interpolated still image resolution (Max.)	1240 x 960
Frames per second	30 fps
F-number	2.6
Lens view angle	50 degrees
Data format	YUY2
Interfacing	USB 2.0, UVC
USB cable length	1.5 m
Microphone	Digital built-in
Power	Supplied via USB cable
Voltage requirements	5V (— — —), 0.5A

Disclaimer

Philips makes no warranty of any kind with regard to this material, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Philips assumes no responsibility for any error that may appear in this document. Philips makes no commitment to update nor to keep current the information contained in this document.

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.

Important information

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 inform yourself 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 products with your normal household waste. The correct disposal of your old product will help prevent potential negative consequences for the environment and human health.

WARNING

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

System requirements

- Microsoft® Windows® XP or Vista;
- Pentium® III, 850 Mhz or equivalent;
- 256MB RAM and 200 MB free hard disk space;
- One free USB port and CD-ROM or DVD drive.

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.

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.

How can I adjust image quality?

The default settings of the Philips 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 Click the VLounge icon  on your desktop to start VLounge.



- 2 Open the 'Preferences' menu.
- 3 Select 'PC Camera Settings'.
> The General settings screen appears.
- 4 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.
- 5 Click 'OK' to save your settings.



Frequently asked questions (FAQ)

6 Click the Video tab.

> The Video settings screen appears.



7 Adjust the gamma value of the displayed image or video.

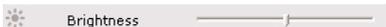
The gamma setting enables you to visualize more details.

- Use the slider to find your preferred setting. Slide to the left to see more details; slide to the right to see less details.



8 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.

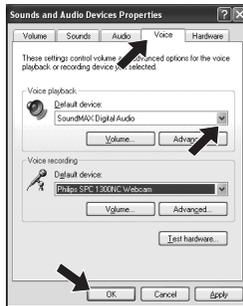


9 Click 'OK' to save your settings.

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

Windows® XP (SP2)

- 1 Click the Windows 'Start' button (bottom left of your screen).
- 2 Open the 'Control panel'.
- 3 Click 'Sound, speech and audio devices'.
- 4 Click 'Sound and Audio Devices'.
- 5 Click the 'Voice' tab in the screen that appears.
- 6 Set the Philips WebCam or the connected headset as default device for 'Voice recording'.
- 7 Click 'OK' to save your settings.



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 WebCam or the connected headset and click 'Set Default'.
- 7 Click 'OK' to save your settings.



Frequently asked questions (FAQ)

Using my Philips WebCam makes my PC / laptop run slow. What should I do?

- 1 Close software applications that do not necessarily need to run.
- 2 Click the VProperty icon '📷' in the Windows taskbar, bottom right of your screen;
> *The General settings screen appears.*
- 3 Click the Video tab.
> *The Video settings screen appears.*
- 4 Check whether Full automatic control is enabled (box checked). If enabled, disable Full automatic control by dischecking its box.
- 5 Set Frame rate to a minimum of 5 fps.
- 6 Click 'OK' to save your settings.

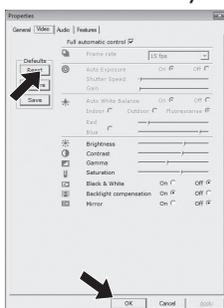


Note!

The maximum frame rate (frames per second (fps) produced by the WebCam) and the maximum image resolution depend on the specifications of your PC / laptop. 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 / laptop do not meet the requirements for maximum frame rate and resolution setting.

How can I reset the settings of my Philips WebCam to the default factory settings?

- 1 Click the VProperty icon 'V' in the Windows taskbar, bottom right of your screen;
> The General settings screen appears.
- 2 Click the Video tab.
> The Video settings screen appears.
- 3 Click the 'Reset' button.
> All WebCam settings are now reset back to the default factory settings.
- 4 Click 'OK' to save your settings.



Where to go for information and support?

Please visit our website: www.philips.com for the latest product information.

Go to: www.philips.com/support for the latest version of drivers and for troubleshooting tips.

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