Philips SPC 700NC PC Camera

Instructions for use

PHILIPS

Introduction

Philips SPC 700NC PC Camera

The Philips SPC 700NC PC Camera you have just purchased is manufactured to the highest standards and will give you years of trouble-free use. Brilliant images and blazing colours, that's what you get with the SPC 700NC PC Camera. Forget about installing interface cards and separate power supplies, because you don't need them any more. Power is supplied direct to the camera through the USB cable and the camera returns audio and video straight to your PC!

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

- **Video conferencing:** use the Philips SPC 700NC PC Camera for video chatting and conferencing (the Philips SPC 700NC PC Camera works with MSN Messenger, Yahoo! Messenger, AOL Messenger, Windows NetMeeting and Windows Messenger);
- **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 or on diskette. The camera works with all applications that use the TWAIN interface to acquire an image.
- **Editing and special effects:** after recording the images you want with the Philips SPC 700NC PC Camera, 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 SPC 700NC PC Camera.

Contents

1. Things you should know

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 camera will operate safely and to prevent defects.

- Do not use your camera in environments outside the following range: temperature: 0°C to 40°C, relative humidity: 45% ~ 85%.
- Do not use or store your camera in/under:
    – direct sunlight exposure;
    – very humid and dusty environment;
    – near any kind of heat sources;
- If your camera gets wet, dry it with soft cloth as soon as possible.
- If the lens is dirty, please use the lens brush or soft cloth to clean the lens. Do NOT touch the lens with your fingers.
- Clean the outside of the camera with a soft cloth.
- Do NOT use cleaning fluids based on alcohol, methylated spirit, ammonia, etc.
- Do NOT attempt to disassemble or repair your camera by yourself. Do not open the camera. In the event of technical difficulties return it to your Philips retailer.
- Do NOT use your camera in the water.
- Protect the camera from oil, vapour, steam, moisture, and dust.
- Never point the camera lens at the sun.

Copyright

Pack contents

Please check that the following items are packed in the Philips SPC 700NC box.
They are provided to help you set up and use your Philips SPC 700NC.
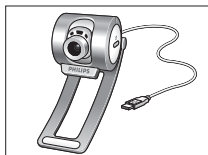
Philips SPC 700NC
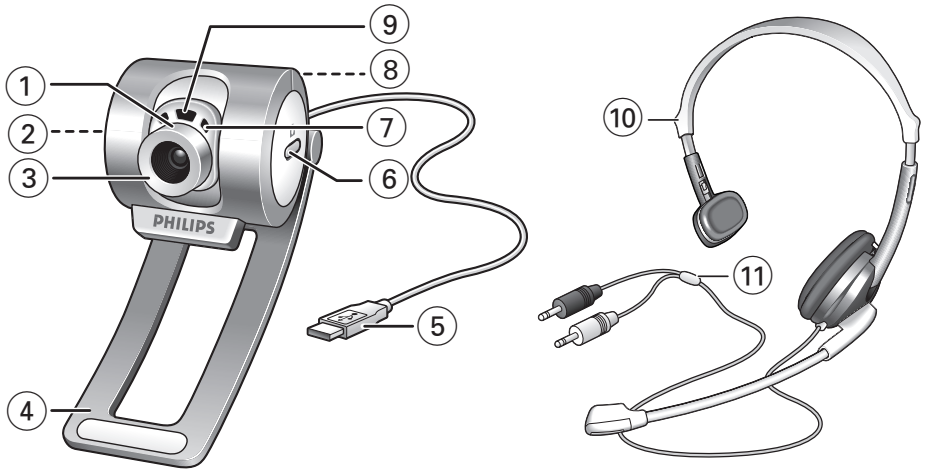*PC Camera*

Headset with headphone
amd microphone

Installation CD-ROM
including manual

Quick Installation Guide

2. Functional overview

1 **Viewing angle**
   For manually changing the vertical angle of the camera.
2 **Quicklaunch button**
   For quick and easy start-up of the VLounge software.
3 **Rotating lens**
   For adjusting the focus of the image manually.
4 **Clamp with rubber rim**
   For attaching the camera to your monitor.
5 **USB cable**
   For connecting the camera to a USB port of the PC.
   The camera will derive its power from the PC when it is connected.
6 **Snapshot button**
   For taking photos.
7 **Built in digital microphone**
   For adding sound when video chatting and recording.
8 **Screw thread**
   For moutning the camera to a tripod.
9 **Activity LED**
   Lights up when the camera is in use.
10 **Headset with headphone and microphone**
   For talking and listening to your meeting partner during video chatting.
11 **Audio cable**
   Black headphone plug ($\bigcap$) - for connecting to the Audio out socket of the pc sound card.
   White microphone plug (!) - for connecting to the Audio in socket of the pc sound card.

3. Installation

Installing the camera software

The software supplied only works on PCs with the operating systems Microsoft® Windows® 98SE, ME, 2000 and XP.

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

1 Place the installation CD-ROM in your computer's CD-ROM-/DVD drive.
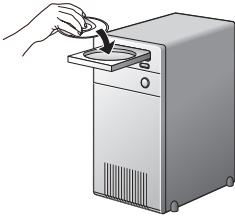
> After a couple of seconds the the 'Language selection' screen appears automatically.

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 and click on the 'OK' button.
> The following screen appears.
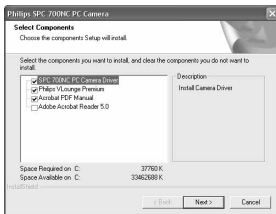
3 Select at least the 'SPC 700NC PC Camera Driver' and click on the 'OK' button.
> The following software license agreement appears.
Click on 'Agree' to continue the installation.
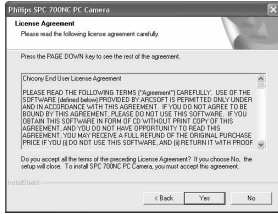
> The following screen, including a progress bar, appears.
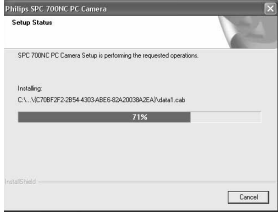
> The screen below appears when the installation was successful.
  You can now connect your PC Camera.
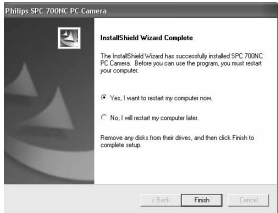
Note!

The SPC 700NC PC Camera is 'XP Plug & Play'.

This means if you are running Windows XP and you have installed Service Pack 2 and the latest Microsoft Windows XP updates you don't need to install the SPC 700NC PC Camera driver. Simply plug in the camera and you can start using your SPC 700NC PC Camera.

Connecting the camera to your PC

1 Be sure to run the installation CD *first, before* connecting the camera to the PC.
2 Turn on the PC.
3 Connect the USB plug of the USB cable to a USB port of the PC.
   > The camera will now derive its power from the PC.
4 Use the clamp and the two rubber rims to attach the camera to your PC monitor or laptop screen or fold out the clamp and place the camera on your desk.
5 Connect the headset audio cable to the sound card of your PC.
   • Connect the black headphone plug (🎧) to the Audio out socket of the sound card.
   • Connect the white microphone plug (!) to the Audio in socket of the sound card.
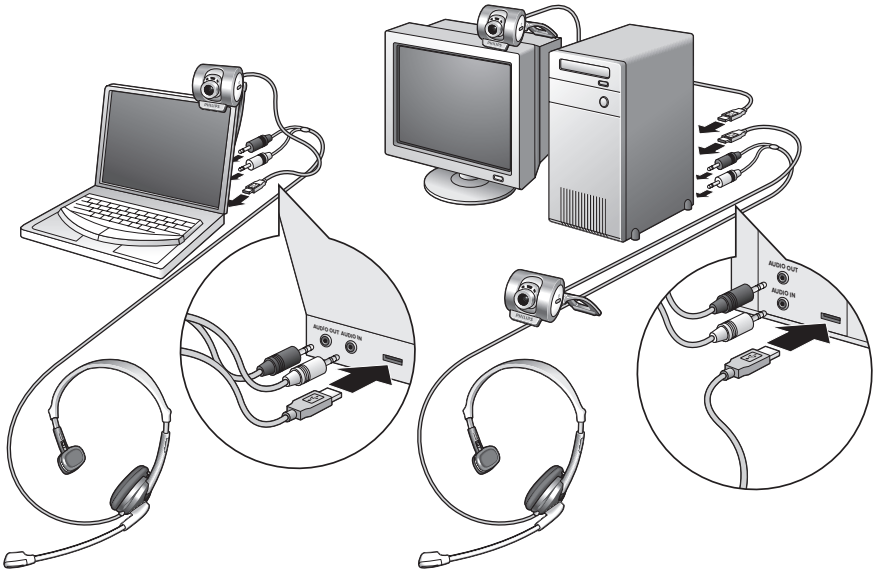
4. Camera settings

The Philips SPC 700NC properties (audio and video) can be changed from within an application, or independently by clicking the VProperty icon ' ' which can be found in the Windows taskbar bottom right of your screen. Most applications can show a 'live preview' video image on your monitor. Always use this option to see the effect of changed settings on your screen.

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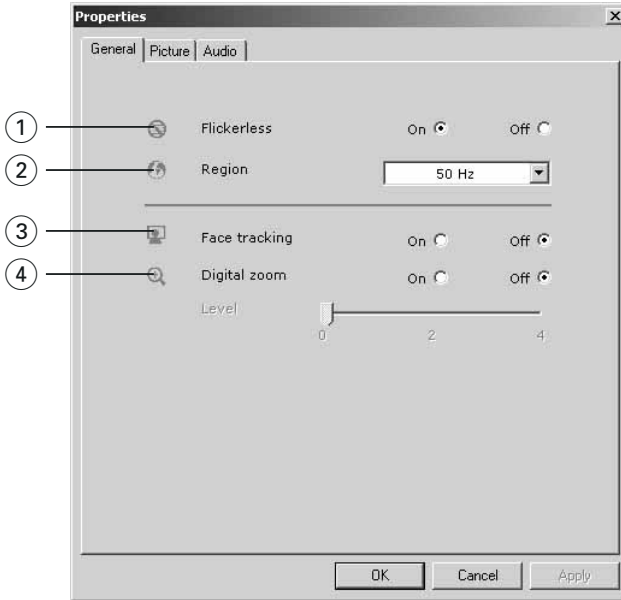
1) **Flickerless**
The Flickerless option should only be used under flickering light conditions (e.g. fluorescent or neon lamps) to prevent flickering or strangely coloured video images. If this option is used under normal lighting conditions the video image may be overexposed.

2) **Region**
If you are using the Philips SPC 700NC in Europe, select '50 Hz' and if you are using the Philips SPC 700NC 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 '60Hz'.
Please check your local mains output to find the correct 'Region' setting.

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

4) **Digital zoom**
Use the digital zoom option if you would like to get an object closer.

Picture controls
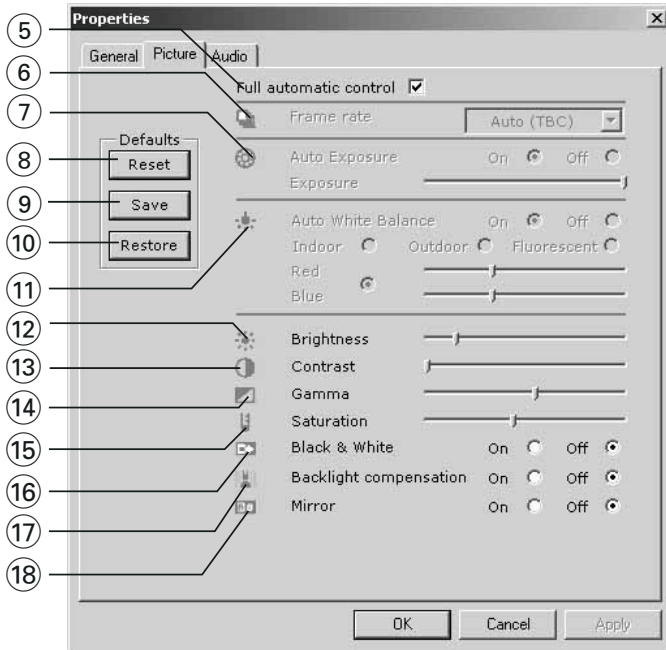
⑤ **Full automatic control: on/off**
This full automatic control mode provides a very easy way to get the best out of your
Philips SPC 700NC PC Camera. Or you can choose to have maximum manual control over
the camera settings by switching the full automatic control mode off. Full automatic control
'on' 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 camera sensitivity in low light conditions.

⑥ **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 PC Camera will capture video of 30 frames per second.

⑦ **Auto exposure & exposure slider**
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 PC Camera will find the optimal setting if you select the auto
exposure option. You can use the exposure slider if you would like to set the camera
according to your personal preferences.

⑧ **Reset**
Press this button if you would like to reset the camera settings to the default factory settings.

⑨ **Save**
Press this button if you would like to save your personal preferred settings

⑩ **Restore**
Press this button if you would like to restore your personal preferred settings

⑪ **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 Auto White balance is selected, the camera will search for an object of which the camera knows the color temperature of and will compensate all the other colors in the view of the camera accordingly.

You can also select the 'Indoor', 'Outdoor' and 'Fluorescence' options to provide the camera with more information to find the right setting. You can use the 'Red' and 'Blue' sliders if you would like to set the camera according to your personal preferences.

⑫ **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.

⑬ **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.

⑭ **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.

⑮ **Saturation**
Saturation enables you to set the colour reproduction from black and white to a full colour image or video according to your own preference. Use the slider to find your preferred setting.

⑯ **Black and white**
The 'Black and white' checkbox is used to switch from colour images to black and white and back.

⑰ **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).

⑱ **Mirror**
Clicking the 'Mirror Image' checkbox flips the image horizontally. You can use this feature when you want to use the Philips SPC 700NC and monitor as a mirror, or to take pictures of mirrored images.

Audio controls
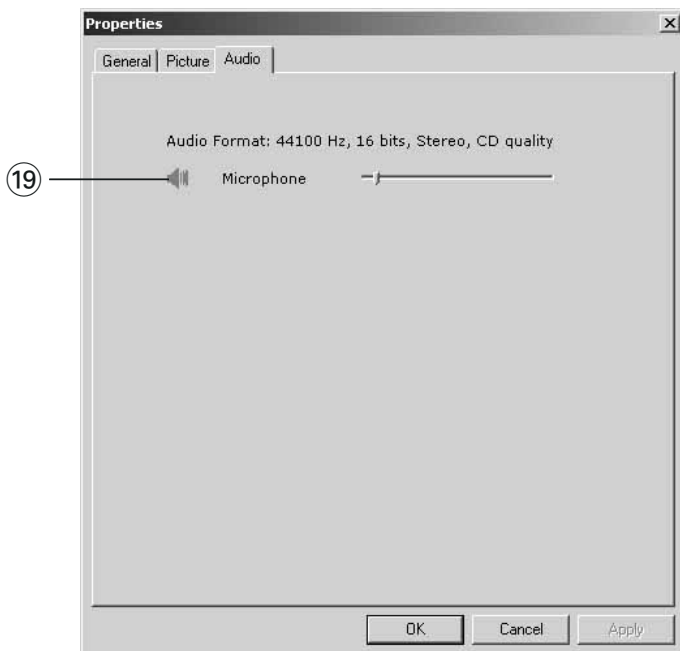
⑲ **Volume slider**
This slider provides manual control over the microphone volume.

5. Using the applications

VLounge

- For quick and easy start-up of the VLounge software, press the camera's Quick launge button.

- For additional support read the 'Help' documentation within the 'Help' option of the menubar of VLounge.

MSN messenger

You can download and install MSN Messenger via Microsoft MSN Messenger websites.
In the list below you will find the website address for your country for downloading MSN Messenger:

USA - http://messenger.msn.com
Germany - http://messenger.msn.de
France - http://messenger.msn.fr
United Kingdom - http://messenger.msn.co.uk
Spain: - http://messenger.msn.es
Portugal - http://messenger.msn.com
Italy - http://messenger.msn.it
Belgium (Dutch) - http://messenger.msn.be
Belgium (French) - http://messenger.fr.msn.be

Norway - http://messenger.msn.no
Finland - http://messenger.msn.fi
Sweden - http://messenger.msn.se
Denmark - http://messenger.msn.dk
The Netherlands - http://messenger.msn.nl
Austria - http://messenger.msn.at
Swiss (German) - http://messenger.msn.ch
Swiss (French) - http://messenger.fr.msn.ch

Please follow the on-screen instructions during downloading and installation of MSN Messenger.

msn Messenger

Yahoo! Messenger

You can download and install Yahoo! Messenger via Yahoo! Messenger websites. In the list below you will find the website address for your country for downloading Yahoo! Messenger:

USA - http://messenger.yahoo.com
Germany - http://de.messenger.yahoo.com/
France - http://fr.messenger.yahoo.com/
United Kingdom - http://uk.messenger.yahoo.com
Spain - http://es.messenger.yahoo.com/
Portugal - http://messenger.yahoo.com
Italy - http://it.messenger.yahoo.com/
Belgium - http://messenger.yahoo.com

Norway - http://no.messenger.yahoo.com/
Finland - http://messenger.yahoo.com
Sweden - http://se.messenger.yahoo.com/
Denmark - http://dk.messenger.yahoo.com/
The Netherlands - http://messenger.yahoo.com
Austria - http://messenger.yahoo.com
Swiss - http://messenger.yahoo.com

Please follow the on-screen instructions during downloading and installation of Yahoo! Messenger.

AOL Instant Messenger

You can download and install AOL Instant Messenger via the America Online website.
Please find below the website address for downloading AOL Instant Messenger:

http://www.aim.com/

Please follow the on-screen instructions during downloading and installation of AOL Instant Messenger.

Microsoft NetMeeting

Microsoft NetMeeting is a standard application that comes with your Windows operating system (from Windows 98SE onwards). Windows NetMeeting is already installed on your PC during the installation of your Windows operating system. To create a shortcut on your PC's desktop you need to do the following:

1 Use the Windows search option within the Windows 'Start' menu.
2 Search for 'NetMeeting' on your C:\ drive.
3 The search utility will find the following: NetMeeting .
4 Click on NetMeeting using your right mouse button and select:
'Send To → Desktop (create shortcut)'.

To initiate a video chat:
1 Double click on the 'NetMeeting Shortcut' on your PC's Desktop to start a NetMeeting session.
2 Click on 'Help' → 'About NetMeeting' and find out your local IP address.
You can ask your meeting partner to find out his/her IP address in the same way.

3 Click the telephone icon.

4 In the 'Place A Call' dialogue box, fill in your partner's IP address in 'To: '
5 Click on 'Call' and wait for response.

Note!
If you or your partner are/is behind a firewall or is using a proxy server (common for office users), please refer to NetMeeting Help about detail solutions.

To respond to an incoming call:
1 You can choose 'Automatically Accept Calls' or you can accept manually.
2 When the 'Incoming Call' dialogue box appears, click on 'Accept'.

Notes!
– *Only two computers in a NetMeeting conference can use audio for communication. All other*
  participants must communicate through other options, like Chat or the shared Whiteboard.
– *You can also initiate a video conference with more than one partner. Please read Help in*
  Microsoft®NetMeeting.

Making snapshots using Windows® XP

You can use Microsoft® Windows® XP to make snapshots with your Philips SPC 700NC
PC Camera.

If you need additional support, please refer to the 'Help' topics of Microsoft® Windows® XP.
Search for 'Get picture'.

6. Technical specifications

Sensor .... QVGA CMOS VGA CMOS

Video resolution (Max.) .... QVGA (320 × 240) VGA CMOS

Image resolution (Max.) .... VGA (640 × 480) SGVA (900 × 600)

Illumination .... < 10 lux < 5 lux

Integrated lens .... F=2.8

Data format .... I420, IYUV

Interfacing .... USB 2.0 compatible (2.1m USB cable)

Microphone .... Built in digital microphone / External microphone supplied

Power .... Supplied via USB cable

Voltage requirements .... 5V ($\overline{}$), 0.5A

7. Important information

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.

Environmental information

All redundant packaging has been omitted. We have done our utmost to make the packaging easily separable into four materials: cardboard, polystyrene foam, PET and polyethylene. Your set consists of materials which can be recycled if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packaging, exhausted batteries and old equipment.

02
PE - HD

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

Information to the Consumer

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.

System requirements

- Microsoft® Windows® 98SE/2000/ME or XP;
- Pentium® III, 500 Mhz or equivalent;
- 128MB RAM and 100 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.

8. Helpline

Need Help?

If you have any questions about the Philips SPC 700NC Camera, please contact our helpline for assistance! You can find the number in the list below.

Before you call, please read this manual carefully. You will be able to solve most of your problems.

The model number of the camera is SPC 700NC.

Date of purchase: _____ /_____ /_____
                                 day   /month /year

If you have any questions about the Philips SPC 600NC Camera, please contact our helpline for assistance! You can find the number in the list below. Before you call, please read this manual carefully and/or go to www.philips.com/support. You will be able to solve most of your problems.

België/ Belgien/ Belgique 070 222 303	**Nederland** 0900 8407
Danmark 35-25-8759	**Norge** 2270-8111
Deutschland 0180 5356 767	**Österreich** 0810 001 203
España 902 888 784	**Portugal** 2 1359 1442
France 08 9165 0005	**Schweiz/ Suisse/ Svizzera** 0844 800 544
Έλληνας 0 0800 3122 1280	**Suomi** 09 6158 0250
Italia 899 23 45 06	**Sverige** 08 5792 9100
Luxemburg/ Luxembourg 40 6661 5644	**UK (United Kingdom)** 0906 1010 016

9. Warranty

Guarantee certificate   **Certificat de garantie**   **Garantieschein**
Garantiebewijs   **Certificado de garantia**   **Certificato di garanzia**
Certificado de garantia   **Εγγύηση**   **Garanticertifikat**
Garantibevis   **Garantibevis**   **Takuutodistus**

2

year warranty   χρόνσς εγγύηση
année garantie   år garanti
Jahr Garantie   år garanti
jaar garantie   år garanti
año garantia   vuosi takuu
anno garanzia   año garantia

Type: **SPC 700NC**

Serial no: _____

Date of purchase - Date de la vente - Verkaufsdatum - Aankoopdatum - Fecha de compra - Date d'acquisito - Data da adquirição - Ημερομηνία αγοράς - Inköpsdatum - Anskaffelsesdato - Kjøpedato - Oatopäivä -

Dealer's name, address and signature
Nom, adresse et signature du revendeur
Name, Anschrift und Unterschrift des Händlers
Naam, adres en handtekening v.d. handelaar
Nombre, direccion y firma del distribudor
Nome, indirizzo e firma del fornitore

Ονοματεπώνμο, διεύθυνση και υπογραφή του εμπ. προμηθευτη
Återförsäljarens namn, adress och signatur
Forhandlerens navn, adresse og unterskrift
Forhandlerens navn, adresse og unterskrift
Jälleenmyyjän nimi, osoite ja allekirjoitus
Nome, morada e assinature da loja

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