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GoGear

SA2CAM04

SA2CAM08

SA2CAM16



EN User manual

PHILIPS

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Need help?

Please visit

www.philips.com/welcome

where you can access a full set of supporting materials such as the user manual, the latest software updates, and answers to frequently asked questions.

1 Important safety information

General maintenance

The translation of this document is for reference only.

In the event of any inconsistency between the English version and the translated version, the English version shall prevail.

Caution

- To avoid damage or malfunction:
- Do not expose the product to excessive heat caused by heating equipment or direct sunlight.
- Do not drop the product or allow objects to fall on your player.
- Do not allow the product to be submerged in water. Do not expose headphone socket or battery compartment to water; as water entering the set may cause major damage.
- Active mobile phones in the vicinity may cause interference.
- Back up your files. Ensure that you retain the original files you have downloaded to your device. Philips is not responsible for any loss of data if the product becomes damaged or not readable / legible.
- Manage (transfer, delete, etc.) your music files only with the supplied music software to avoid problems.
- Do not use any cleaning agents containing alcohol, ammonia, benzene, or abrasives as these may harm the product.

About operating and storage temperatures

- Operate in a place where temperature is always between 0 and 35°C (32 to 95°F)
- Store in a place where temperature is always between -20 and 45°C (-4 to 113°F).
- Battery life may be shortened in low temperature conditions.

Replacement parts/accessories:

Visit www.philips.com/support to order replacement parts/accessories.

Hearing Safety



Listen at a moderate volume:

Using headphones at a high volume can impair your hearing. This product can produce sounds in decibel ranges that may cause hearing loss for a normal person, even for exposure less than a minute. The higher decibel ranges are offered for those that may have already experienced some hearing loss.

Sound can be deceiving. Over time your hearing 'comfort level' adapts to higher volumes of sound. So after prolonged listening, what sounds 'normal' can actually be loud and harmful to your hearing. To guard against this, set your volume to a safe level before your hearing adapts and leave it there.

To establish a safe volume level:

Set your volume control at a low setting. Slowly increase the sound until you can hear it comfortably and clearly, without distortion.

Listen for reasonable periods of time:

Prolonged exposure to sound, even at normally 'safe' levels, can also cause hearing loss.

Be sure to use your equipment reasonably and take appropriate breaks.

Be sure to observe the following guidelines when using your headphones.

Listen at reasonable volumes for reasonable periods of time.

Be careful not to adjust the volume as your hearing adapts.

Do not turn up the volume so high that you can't hear what's around you.

You should use caution or temporarily discontinue use in potentially hazardous situations.

Do not use headphones while operating a motorized vehicle, cycling, skateboarding, etc.; it may create a traffic hazard and is illegal in many areas.

Modifications

Modifications not authorized by the manufacturer may void user's authority to operate the product.

Copyright information

All other brands and product names are trademarks of their respective companies or organizations.

Unauthorized duplication of any recordings whether downloaded from the Internet or made from audio CDs is a violation of copyright laws and international treaties.

The making of unauthorized copies of copy-protected material, including computer programs, files, broadcasts and sound recordings, may be an infringement of copyrights and constitute a criminal offense. This equipment should not be used for such purposes.

The Windows Media and the Windows logo are registered trademarks of Microsoft Corporation in the United States and/or other countries.

Be responsible! Respect copyrights.



**Be responsible
Respect copyrights**

Philips respects the intellectual property of others, and we ask our users to do the same. Multimedia content on the internet may have been created and/or distributed without the original copyright owner's authorization.

Copying or distributing unauthorized content may violate copyright laws in various countries including yours.

Compliance with copyright laws remains your responsibility.

The recording and transfer to the portable player of video streams downloaded to your computer is intended only for use with public domain or properly licensed content. You may only use such content for your private, non-commercial use and shall respect eventual copyright instructions provided by the copyright owner of the work. Such instruction may

state that no further copies shall be made. Video streams may include copy protection technology that prohibits further copying. For such situations the recording function will not work and you will be notified with a message.

Data logging

Philips is committed to improving the quality of your product and enhancing the Philips user experience. To understand the usage profile of this device, this device logs some info / data to the non-volatile memory region of the device. These data are used to identify and detect any failures or problems you as a user may experience while using the device. The data stored, for example, will be the duration of playback in music mode, duration of playback in tuner mode, how many times battery low was encountered, etc. The data stored do not reveal the content or media used on the device or the source of downloads. The data stored on the device are retrieved and used ONLY if the user returns the device to the Philips service center and ONLY to simplify error detection and prevention. The data stored shall be made available to user on user's first request.

Recycling the product

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

When you see the crossed-out wheel bin symbol attached to a product, it means the product is covered by the European Directive 2002/96/EC:



Never dispose of your product with other household waste. Please inform yourself about

the local rules on the separate collection of electrical and electronic products. The correct disposal of your old product helps prevent potentially negative consequences on the environment and human health.

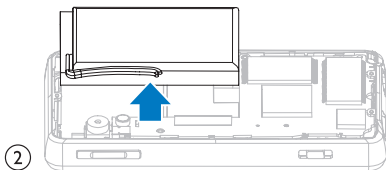
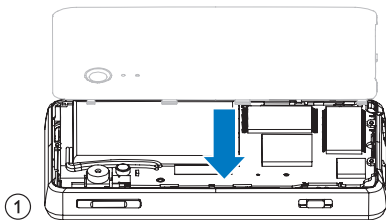
 Warning

- Removal of the built-in battery invalidates the warranty and can destroy the product.
- The following removal and disposal instructions are steps that are to be performed at the end of the product's life only.

Your product contains a built-in rechargeable battery covered by the European Directive 2006/66/EC, which cannot be disposed of with normal household waste.



To safeguard the functionality and safety of your product, take your product to an official collection point or service center where a professional can remove or replace the battery as shown:



Please inform yourself about the local rules on separate collection of batteries. The correct disposal of batteries helps prevent potentially

negative consequences on the environment and human health.

Notice for the European Union

This product complies with the radio interference requirements of the European Union.

2 Your new CAM

CAM allows you to

- play MP3 and WMA files
- view video files
- capture still photos and videos
- listen to FM radio
- make recordings

What's in the box

Check that you have received the following items:

Player



Earphones



USB + AV cable



Quick start guide

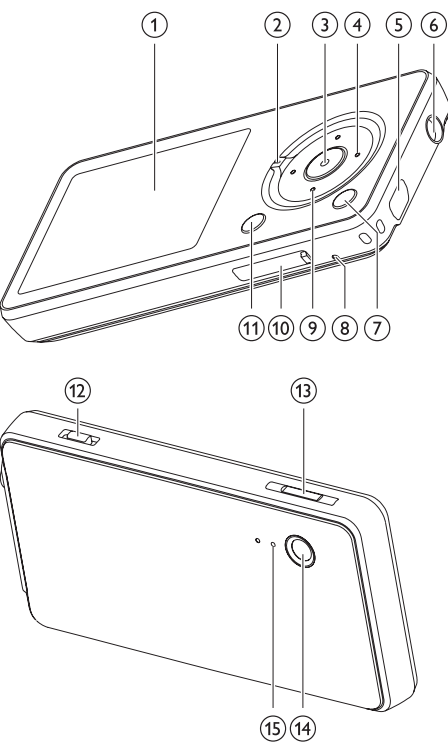


Note

- The images serve as reference only. Philips reserves the right to change color/design without notice.

3 Getting started

Overview of the controls and connections



1	display
2	mode selector
3	press: play/capture/record/ pause/confirm
4	press: skip to previous/next press and hold: scroll back/ forward at high speed
5	USB connection jack
6	headphone jack
7	view available options
8	RESET press: reset CAM

9	press: scroll up/down press and hold: scroll up/ down at high speed
10	MICRO SD Micro SD card slot
11	press: back one level press and hold: return to main menu
12	slide and hold: turn CAM on/off slide: lock/unlock all buttons except + / -
13	+ / - press: increase/decrease the volume press and hold: increase/ decrease fast
14	camera
15	MIC microphone

Mode selector options:

1	show current play/display screen
2	enter photo capture mode
3	enter video capture mode
4	enter settings mode

Limit the volume

! Caution

- Listening to loud sounds for longer than a moment can be harmful to the listener.

Set the volume level of CAM to limit the maximum volume output.

- 1 From the main menu, select **[Settings] > [Sound settings] > [Volume limit]**.
- 2 Press the volume controls **- / +** to adjust the level.
- 3 Press **⏻** to confirm.
↳ When you set a volume limit, CAM can no longer exceed the set volume, even if you press the volume **+** button.

To enable maximum volume again:

- 1 Select **[Settings] > [Sound settings] > [Volume limit]**.
- 2 Set the volume limit to maximum.
- 3 Press **⏻** to confirm.

Software loaded on the CAM

CAM comes with the following software:

- Philips CAMshare (helps you upload and edit your video recordings)
- Philips Device Manager (helps you get firmware updates for CAM)

Connect and charge

CAM has a built-in battery that can be charged through the USB port of a computer (USB cable included).

Connect CAM to a computer

- 1 Connect the USB plug of the supplied USB cable to a spare USB port on your computer.
- 2 Connect the small USB plug of the USB cable to the small USB jack on CAM.
- 3 Turn on your computer.
↳ CAM charges.

When you connect the CAM to the PC for the first time, a pop-up window appears:

- 1 Select **Philips Device Manager**.
- 2 Follow the on-screen instructions to complete the installation of the software.

≡ Note

- The installation requires you to agree to the license terms.

If the pop-up window is not displayed automatically:

- 1 Select **My Computer** (Windows XP / Windows 2000) / **Computer** (Windows Vista / Windows 7).
- 2 Right click on the **Philips GoGear CAM** icon.
- 3 Select **Install Philips Device Manager**.
- 4 Follow the on-screen instructions to complete the installation of the software.

≡ Note

- The installation requires you to agree to the license terms.

Battery level indication

The display indicates the approximate levels of the battery status as follows:

				
100%	75%	50%	25%	0%

- ➔ A flashing battery screen indicates that the battery is low. The player saves all settings and switches off within 60 seconds.

Note

- Rechargeable batteries have a limited number of charge cycles. Battery life and number of charge cycles vary by use and settings.
- The charging animation stops and the  icon is displayed when the charging process is completed.

Tip

- You can conserve battery power and increase the play time of CAM if you ensure that the shortest timer setting is selected. (To check/adjust the timer settings, set the mode selector to  and then select **[Display Settings]** > **[Backlight timer]**).

- 1 Slide and hold  for approximately 2 seconds to turn CAM on again.

Automatic shut-down

CAM has an automatic shut-down feature that can save battery power.

After 10 minutes in idle mode (no music plays, no button is pressed), CAM turns off.

- 1 Slide and hold  for approximately 2 seconds to turn CAM on again.

Lock the keys

CAM has a lock switch to prevent accidental operation.

- 1 To lock the buttons when you play, move the slider to position .
➔ All buttons except the volume keys are locked and the display shows a lock icon.
- 2 To unlock the buttons again, move the slider to the center position.

Select the mode

- 1 Slide the mode selector to switch between modes.



4 Music

Listen to music

- 1 Set the mode selector to position ►.
- 2 Navigate the main menu to select **[Music]**.
- 3 Navigate the music menu and sub-menus to locate the music file.
- 4 Press  to play.
 - Press  to toggle between pause and play.



Tip

- In music mode, press  to view more music options.

This is how to navigate within a music track:

- 1 While you listen to a music track, press and hold  /  to quickly scan forward / backward.
 - Release  to resume normal speed play.

Find your music

Choose from these list options to find your music:

[All songs]

- Alphabetically listed tracks

[Artists]

- Alphabetically listed artists
- Alphabetically listed albums
- Tracks listed in album order

[Albums]

- Alphanumerically listed albums
- Tracks listed in album order

[Genres]

- Alphanumerically listed genres
- Alphanumerically listed artists
- Alphanumerically listed albums
- Tracks listed in album order

Delete a music file from CAM

- 1 While you listen to music, press  and then select **[Delete]**.
- 2 Select **[Yes]** to confirm the deletion.
 - Select **[No]** to abort the deletion.

Organize your music on CAM

CAM can store hundreds of music tracks (files) that can be sorted into folders.

- 1 With CAM connected to the USB port of the computer, open the Explorer application of the computer.
- 2 Create folders in the mass storage of CAM.
- 3 Use drag and drop actions to sort your music into the folders.

5 Camera

Take photos



Caution

- Caution! The camera feature triggers loud noise emissions.
- To avoid harming your ears, remove the earphones before you use the camera feature.

- 1 Set the mode selector to position .
- 2 Press  to take a photo.
↳ CAM displays an options menu.
- 3 Select an option from the menu to:
 - take a new photo
 - display the last photo
 - delete the last photo

The photo camera has effect options that you can change:

- 1 While you display the photo that you have captured, press  and then select the effect options.
- 2 Press  or  to navigate the options list.
- 3 Press  to confirm an option.
- 4 Press  to return to camera mode.

Record videos

- 1 Set the mode selector to position .
- 2 Press  to record a video.
 - Press  again to stop recording.
 - CAM displays an options menu.
- 3 Select an option from the menu to:
 - record a new video
 - play the last video
 - delete the last video

6 Video

Play videos

- 1 Set the mode selector to position ►.
- 2 Navigate the main menu to select [Video].
- 3 Navigate the video menu and sub-menus to locate the video file.
- 4 Press to play.
 - Press to toggle between pause and play.



Tip

- In video mode, press to view more video options.

This is how to navigate within a video:

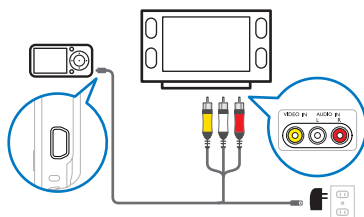
- 1 While you watch a video, press and hold / to quickly scan forward / backward.
 - Release to resume normal speed play.

Play videos on a TV

This is how you play video clips from CAM on a TV:

Connect CAM to a TV

- 1 On CAM, select the TV-out signal that matches the TV:
 - Set the mode selector to position and then select [Screen settings] > [TV-out signal];
 - Select [PAL] or [NTSC].
- 2 Connect the supplied USB AV cable to
 - the small USB jack of the CAM;
 - the AV outlet jacks of the TV.
 - To extend the play time: Use a USB charger (sold separately) to connect the CAM to the mains supply.



Play videos on a TV

- 1 Turn on the TV.
- 2 On CAM, play a video:
 - Set the mode selector to position ► and then select [Video];
 - Select a video file and press to play.
- 3 On CAM, press , and select [Start TVout].
 - ➔ The video plays on your TV.
 - Press the buttons on the CAM for play options and navigation.

Delete a video file from CAM

- 1 While you play a video, press and then select [Delete].

- 2 Select **[Yes]** to confirm the deletion.
 - Select **[No]** to abort the deletion.

Transfer videos to a PC

You can transfer your videos from CAM to a PC.

- 1 On the PC, click **My Computer** or **Computer**.
- 2 Connect CAM to your PC by using the USB cable.
 - ↳ CAM is displayed after recognized by the PC.
- 3 Find the desired files/folders:
 - On CAM, find your videos in **Video** > **Captures**.
 - On the PC, find a location (e.g. a file folder) to store the videos.
- 4 Drag and drop videos from CAM to the desired location on the PC.

7 Pictures

Add pictures to the CAM

CAM can store hundreds of pictures that can be sorted into folders.

- 1 With CAM connected to the USB port of the computer, open the Explorer application of the computer.
- 2 Create folders in the mass storage of CAM.
- 3 Use drag and drop actions to sort your pictures into the folders.

View pictures

- 1 Set the mode selector to position ►.
- 2 Navigate the main menu to select **[Pictures]**.
- 3 Navigate the picture menu and sub-menus to locate the picture file.
- 4 Press  to view the picture in full-screen mode.
 - Press  again to start slideshow play.



Tip

- In picture mode, press  to view more picture options.

View your pictures as a slideshow

- 1 Set the mode selector to position ►.
- 2 Navigate the main menu to select **[Pictures]**.
- 3 Navigate the picture menu and sub-menus to locate the picture file.
- 4 Press  to view the picture in full-screen mode.
- 5 Press  again to start slideshow play.
 - Press  and then select **[Time per slide]** to change the slideshow settings.

Delete a picture file from CAM

- 1 While you view a picture, press  and then select **[Delete]**.
- 2 Select **[Yes]** to confirm the deletion.
 - Select **[No]** to abort the deletion.

Transfer pictures to a PC

You can transfer your photos from CAM to a PC.

- 1 On the PC, click **My Computer** or **Computer**.
- 2 Connect CAM to your PC by using the USB cable.
 - ↳ CAM is displayed after recognized by the PC.
- 3 Find the desired files/folders:
 - On CAM, find your photos in **Pictures > Captures**.
 - On the PC, find a location (e.g. a file folder) to store the photos.
- 4 Drag and drop photos from CAM to the desired location on the PC.

8 Radio

Auto-tune to FM radio stations

The auto-tune feature searches for FM radio stations and then stores the frequencies of the first 20 stations under preset numbers.

Here is how to auto-tune to FM radio stations:

- 1 Set the mode selector to position ►.
- 2 Connect the earphones with the wire fully extended.
↳ The earphone wire acts as antenna.
- 3 Navigate the main menu to select **[Radio]**.
- 4 Navigate the preset menu, and then press ⌂ to select an unassigned preset.
- 5 Select **[Yes]** to confirm the screen prompt.
↳ CAM searches the FM frequency band for radio signals of broadcasting stations.
↳ CAM stores the first 20 radio signals under the preset numbers.
↳ CAM displays the list of presets*.

Note

- *In areas of low radio signal reception, CAM displays the manual tuning screen so you can manually tune to a radio station.

Listen to FM radio

- 1 Set the mode selector to position ►.
- 2 Connect the earphones with the wire fully extended.
↳ The earphone wire acts as antenna.
- 3 Navigate the main menu to select **[Radio]**.
- 4 Navigate the list to select a preset.
 - Press ⌂ to toggle between “sound off” and “sound on”.

Tip

- In radio mode, press ≡ to view more radio options.

Manually tune to FM radio stations

In areas of low radio signal reception, CAM displays the manual tuning screen so you can manually tune to a radio station.

Here is how to manually tune to FM radio stations:

- 1 While in the manual tuning screen, press ⌂ / ⌂ to slowly scan the FM frequency band.
- 2 Press and hold ⌂ / ⌂ to quickly scan the FM frequency band.

Tip

- Press ≡ to view more options.

Save a radio station to a preset number

Here's how to save the currently playing radio station to a preset number:

- 1 While you listen to the radio, press  and then select **[Save to preset]**.
 - ↳ CAM displays the list of preset numbers.
- 2 Select a preset number and then press  to confirm the selected number.
 - ↳ CAM prompts you to save the FM frequency to the preset.
- 3 Select **[Yes]** and then press  to confirm the preset.

9 Recordings

Record from the FM radio

- 1 While you listen to the FM radio, press  and then select **[Start FM radio recording]** to start recording.
 - Press  to toggle between pause and record.
- 2 Press , and then select
 - **[Yes]** to save the recording in the recordings library.
 - **[No]** to discard the recording.

Record voices/audio

- 1 Set the mode selector to position .
- 2 Navigate the main menu to select **[Recordings] > [Start voice recording]**.
- 3 Press  to toggle between record and pause.
- 4 Press , and then select
 - **[Yes]** to save the recording in the recordings library.
 - **[No]** to delete the recording.

Listen to recordings

Listen to FM radio* recordings:

- 1 Set the mode selector to position .
- 2 From the main menu, select **[Recordings library] > [FM radio]**.
- 3 Select a recording.
- 4 Press  to play your recording.



Note

- * FM radio recording feature is available with some versions only. Refer to the on-screen menu of CAM to find out which features are available to you.

Listen to voice/audio recordings:

- 1 Set the mode selector to position .
- 2 From the main menu, select **[Recordings Library] > [Voice]**.
- 3 Select a recording.
- 4 Press  to play your recording.

Upload your recordings to a computer

Use the **Philips Songbird** software to sync your media files.

Alternatively, you can transfer recordings in Windows Explorer:

- 1 Connect CAM to the computer.
- 2 In Windows Explorer, open CAM.
- 3 Select the folder **Recordings > Voice** or **FM radio***.
- 4 Copy and paste the recordings to any location on the computer.



Note

- * FM radio recording feature is available with some versions only. Refer to the on-screen menu of CAM to find out which features are available to you.

Delete one or more recordings

This is how to delete recordings in Windows Explorer:

- 1 Connect CAM to the computer.
- 2 In Windows Explorer, locate the folder **Recordings > Voice** or **FM radio***.
- 3 Delete the recordings as you normally would on the computer.



Note

- * FM radio recording feature is available with some versions only. Refer to the on-screen menu of CAM to find out which features are available to you.

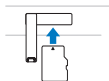
10 Micro SD cards

CAM has a slot to accommodate a Micro SD card. This chapter shows you how to

- insert the Micro SD card
- browse files and folders on the Micro SD card
- import (copy) files to CAM

Insert a Micro SD card

This is how to insert a Micro SD card:



Access the files on a Micro SD card

- 1 With the Micro SD card inserted, set the mode selector to position ►.
- 2 Select the type of files you want to access:
 - **[Music]** (for music files)
 - **[Video] > [Storage]** (for video files)
 - **[Pictures] > [Storage]** (for picture files)
- 3 Press  /  /  /  to navigate lists and menus.
- 4 Press  to confirm a selection.

11 Use CAM to carry files

CAM allows you to carry files in **Windows Explorer**.

- 1 With CAM connected to the USB port of the computer, open **Windows Explorer**.
- 2 Create folders in CAM.
- 3 Use drag and drop actions to sort your files into the folders.

12 Settings

This is how you customize CAM:

- 1 Set the mode selector to position .
- 2 Press  /  to select an option.
- 3 Press  to confirm a selection and go to the next level (when available).
- 4 Press  to return to the previous level.

In the  mode, the following options are available:

Settings	Options menu	Sub-options menu	
Screen settings	Brightness		
	Backlight	• Always on • 10 seconds (default) • 30 seconds • 60 seconds	
	Widescreen	• Actual ratio (default) • Fit to screen	
	TV-out signal	• PAL (default) • NTSC	
Play mode	Shuffle	• Off (default) • On	
	Repeat	• Off (default) • Repeat 1 • Repeat all	
Sound settings	Set volume limit		
	Equalizer	• Off (default) • Rock • Funk • Jazz	• Classical • Hip hop • Techno • Custom
	FullSound	• Off • On*(default)	
Memory for recording [Int]/[SD]	• Internal memory (default) • SD card (only available when SD is inserted)		
Sleep timer	• Off (default) • 15 minutes • 30 minutes • 60 minutes		

Settings	Options menu	Sub-options menu
Language	• Czech • Danish • German • English (default) • Spanish • French • Italian • Hungarian • Dutch • Norwegian	• Polish • Portuguese • Portuguese (Brazilian) • Slovak • Finnish • Swedish • Turkish • Greek • Russian • Simplified Chinese • Traditional Chinese • Japanese • Korean • Thai (some versions only) • Hebrew (some versions only) • Arabic (some versions only)
Date and time	Time	
	Time format	• 12h (default) • 24h
	Date	• DD/MM/YYYY (default) • MM/DD/YYYY • YYYY/MM/DD • YYYY/DD/MM
	Show time in header	• Off • On (default)
Factory settings	Restore factory settings? (Files are not affected.)	• Yes • No (default)
Information	Capacity Free space SD card capacity (if SD card is inserted) SD card free space (if SD card is inserted) Firmware version Model Support site	

*Equalizer deactivates when FullSound is selected.

13 Update CAM

CAM is controlled by an internal program called firmware. Newer versions of the firmware may have been released after you have purchased CAM.

The software program called **Philips Device Manager** can use your computer to check for firmware updates that are available on the Internet.

Install **Philips Device Manager** on your computer from CAM or download the latest version from www.philips.com/support.



Note

- Your music files are not affected by a firmware update.

Manually verify / update firmware

- 1 Ensure that your computer is connected to the Internet.
- 2 Connect CAM to the computer (see section **Connect CAM to a computer** for instructions).
- 3 On your computer, click **Start > Programs > Philips Digital Audio Player > GoGear SA2CAMXX Device Manager** to launch **Philips Device Manager**.
- 4 Click **Update**
 - ↳ **Philips SA2SAMXX Device Manager** checks for updates and installs new firmware from the Internet, if available.
- 5 When the display shows **Update completed**, click **OK**.
- 6 Disconnect CAM from the computer.
 - ↳ CAM restarts after the firmware is updated and is ready for use again.

14 Technical data

Power

Power supply: 850 mAh Li-ion polymer internal rechargeable battery

Play times¹

- Music: 12 hours
- Video: 3 hours
- Video recording: 2 hours

Software (stored on the CAM)

Philips CAMshare

Philips Device Manager

Connectivity

Headphone 3.5 mm

USB 2.0 High speed

Sound

Channel separation: 40 dB

Frequency Response: 45 Hz - 16,000 Hz

Output power: 2 x 2.4 mW

Signal to noise ratio: > 80 dB

Audio playback

Supported formats:

MP3:

MP3 bit rates: 8 - 320 kps and VBR

MP3 sample rates: 8, 11.025, 16, 22.050, 32, 44.1, 48 kHz

WMA:

WMA bit rates: 5 - 192 kbps

WMA sample rates: 8, 11.025, 16, 22.050, 32, 44.1, 48 kHz

WAV

ID3-tag support

Video playback

Supported formats:

MPEG4 SP (*.avi, *.mp4)

WMV9

Picture display

Supported formats:

JPEG

BMP

Capture format

Photo: JPEG

Audio: MP3

Video: MPEG4

Tuner

FM

20 presets

Storage media

Built-in memory capacity²:

SA2CAM04 4GB NAND Flash

SA2CAM08 8GB NAND Flash

Compatibility with external memory:

Micro SD card: 32 GB

Audio recording

Audio file recording format: MP3

Built-in microphone: mono

Photo / video capture

Video format: MPEG4 + PCM 640 x 480

Photo format: JPEG with 2 megapixels

Media transfer³

Drag and drop in Windows® Explorer

Display

Color LCD 220 x 176 pixels



Note

- ¹ Rechargeable batteries have a limited number of charge cycles. Battery life and number of charge cycles vary by use and settings.
- ² 1GB = 1 billion bytes; available storage capacity is less. Full memory capacity may not be available as some memory is reserved for the player. Storage capacity is based on 4 minutes per song and 128 kbps MP3 encoding.
- ³ Transfer speed depends on operating system and software configuration.

System requirements

- Windows® XP (SP2 or above) / Vista / 7
- Pentium III 800 MHz processor or higher
- 512 MB RAM
- 500 MB hard disk space
- Internet connection
- Windows® Internet Explorer 6.0 or later
- CD-ROM drive
- USB port

15 Glossary

B

Bit rate

Bit rate is the number of bits that are conveyed or processed per unit of time. The bit rate is usually measured in some multiple of bits per second (kilobits per second: kbps). The term bit rate is a synonym for data transfer rate (or simply data rate).

C

Compression

In audio terms, this is a process of temporarily or permanently reducing audio data for more efficient storage or transmission. A temporary reduction in file size is called 'non-lossy' compression, and no information is lost. A permanent reduction in file size (such as with MP3 files) is called 'lossy' compression, and involves discarding unnecessary information which is irretrievably lost.

D

Decibel (dB)

A unit of measure used to express relative difference in power or intensity of sound.

F

FM (Frequency Modulation)

In radio broadcasting: a method of modulation in which the frequency of the carrier voltage is varied with the frequency of the modulation voltage.

Frequency Response

Is the range of frequencies that a speaker reproduces, lowest frequency to the highest. While the optimal normal is 20-20,000 Hz (Hertz), the range of human hearing for individuals is often much more restricted. A good full-range speaker system however, reproduces as much of this range as possible to cover all variations. Individual drivers are limited to reproduce only that part of the spectrum for which they were made, so their response is limited, but still a necessary point to consider when designing a complete sound system.

FullSound

FullSound™ is an innovative technology designed by Philips. FullSound™ faithfully restores sonic details to compressed music, enhancing it to provide a full sound experience without any distortion.

L

LCD (Liquid Crystal Display)

Probably the most common way to show visual information on non-computer electronic equipment.

Lossless compression

A system for reducing the number of data bits (density) in a musical signal without corrupting the original.

M

MP3

A file format with a sound data compression system. MP3 is the abbreviation of Motion Picture Experts Group 1 (or MPEG-1) Audio Layer 3. With the MP3 format, one CD-R or CD-RW can contain about 10 times more data than a regular CD.

MSC [Mass Storage Class]

The USB mass storage device class (or USB MSC or UMS) is a set of computing communications protocols that provide an interface to storage devices. Devices that support this standard are referred to as MSC (Mass Storage Class) devices.

MTP [Media Transfer Protocol]

Media Transfer Protocol supports the transfer of music and video files to portable audio and video players.

R

Rip (ripping)

Using a software program that “grabs” digital audio from a compact disc and transfers it to a computer hard drive. The integrity of the data is preserved, because the signal does not pass through the computer sound card, and need not be converted to an analog format. The digital-to-digital transfer creates a WAV file that can then be converted into an MP3 file.

S

SuperScroll

SuperScroll™ is a navigation feature of the double-action search keys of the product. SuperScroll™ allows easy speed control when scrolling through large libraries to swiftly find items within large libraries. Longer press of the button results in faster scroll speed.

