Streamium

PHILIPS

Philips Consumer Lifestyle

PHILIPS

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2008

....
(Year in which the CE mark is affixed / Année au cours de laquelle le marquage CE a été apposé)

EC DECLARATION OF CONFORMITY
(DECLARATION DE CONFORMITE CE)

.

We / Nous, PHILIPS CONSÙMER LIFESTYLE B.V.
(Name / Nom de l'entreprise)

TUSSENDIEPEN 4, 9206 AD DRACHTEN, THE NETHERLANDS
(address / adresse)

Declare under our responsibility that the electrical product(s):
(Déclarons sous notre propre responsabilité que le(s) produit(s) électrique(s):)

Philips..   ....MCi500H/12 ....
(brand name, nom de la marque)   *(Type version or model, référence ou modèle)*

Wireless Micro Hi-Fi System
....
(product description, description du produit)

To which this declaration relates is in conformity with the following harmonized standards:
(Auquel cette déclaration se rapporte, est conforme aux normes harmonisées suivantes)

(title, number and date of issue of the standard / titre, numéro et date de parution de la norme)

EN50371 : 2002	EN62301 : 2005
EN55020 : 2007	EN55013 : 2001 + A1:2003 + A2:2006
EN55022 : 2006	EN66024 : 1998 + A1:2001 + A2:2003
EN301489-1 V1.7.1. : 2007	EN301489-17 V1.3.2. : 2008
EN300328 V1.7.1 :2006	EN60065 : 2002 + A1: 2006

Following the provisions of :
(Conformément aux exigences essentielles et autres dispositions pertinentes de:)

1999/5/EC (R&TTE Directive)
2004/108/EC (EMC Directive)
2005/32/EC (EuP) – EC/1275/2008

And are produced under a quality scheme at least in conformity with ISO 9001 or CENELEC Permanent Documents
(Et sont fabriqués conformément à une qualité au moins conforme à la norme ISO 9001 ou aux Documents Permanents CENELEC)

The Notified Body .... Electrosuisse............. performed ....CB Scheme..............
(L'Organisme Notifié)   *(Name and number/ nom et numéro)*   (a effectué)   (description of intervention / description de l'intervention)

CH-4184, M1 M2, M3
And issued the certificate, ...
(et a délivré le certificat)   *(certificate number / numéro du certificat)*

Remarks:
(Remarques:)

Leuven, November 26, 2009	Frank Dethier Development Manager, Innovation Lab Leven *Frank Dethier*
.... *(place,date / lieu, date)*	.... *(signature, name and function / signature, nom et fonction)*

Contents

English

1 Important

Safety

Information for Europe:
Know these safety symbols

```
        ┌─────────────────────────┐
  ⚡    │       CAUTION           │   ⚠
 ╱ ╲   │  RISK OF ELECTRIC SHOCK │  ╱!╲
       │       DO NOT OPEN        │
       ├─────────────────────────┤
       │ CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT │
       │ REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS │
       │ INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. │
       └─────────────────────────┘
```

The 'exclamation mark' calls attention to features for which you should carefully read the supplied literature to prevent operating and maintenance problems.
The 'lightening bolt' symbol indicates uninsulated components within the product that can cause an electric shock.
To reduce the risk of fire or electric shock, do not expose the product to rain or moisture and do not place any ojects filled with liquids, such as vases, on the product.

a Read these instructions.

b Keep these instructions.

c Heed all warnings.

d Follow all instructions.

e Do not use this product near water.

f Clean only with dry cloth.

g Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

h Do not remove the casing of this product.

i Only use this product indoors. Do not expose the product to dripping / splashing water, rain or high humidity.

j Keep this product away from direct sunlight, naked flames or heat.

k Do not install near any heat sources such as radiators, heat registers, stoves, or other electrical equipment (including amplifiers).

l Do not place any other electrical equipment on the product.

m Do not place any sources of danger on the product (e.g. objects containing liquids, burning candles).

n This product may include batteries. Please refer to safety and disposal instructions for batteries in this user manual.

o This product may contain lead and mercury. Disposal of these materials may be regulated due to environmental considerations. Please refer to disposal instructions in this user manual.

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.

Environmental notices

Class II equipment symbol:

This symbol indicates that this product has a double insulation system.

Modifications

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

Disposal of product & packing material

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.

Battery disposal information

Batteries (including built-in rechargeable batteries) contain substances that may pollute the environment. Always hand the appliance in at an official collection point to remove any built-in batteries before you discard the appliance. All batteries must be disposed of at an official collection point.

Information about the use of batteries:

> ⚠️ **Caution**
>
> - Risk of leakage: Only use the specified type of batteries. Do not mix new and used batteries. Do not mix different brands of batteries. Observe correct polarity. Remove batteries from products that are not in use for a longer period of time. Store batteries in a dry place.
> - Risk of injury: Wear gloves when handling leaking batteries. Keep batteries out of reach of children and pets.
> - Risk of explosion: Do not short circuit batteries. Do not expose batteries to excessive heat. Do not throw batteries into the fire. Do not damage or disassemble batteries. Do not recharge non-rechargeable batteries.

CE 0984 ① R&TTE Directive 1999/5/EC

BE	✓	DK	✓	GR	✓	ES	✓	FR	✓
IE	✓	IT	✓	LU	✓	NL	✓	AT	✓
PT	✓	FI	✓	SE	✓	UK	✓	NO	✓
DE	✓	CH	✓	PL	✓	HU	✓	SK	✓
CZ	✓	CY	✓	IS	✓				

2 Your Wireless Micro Hi-Fi System

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.

Overview

Front view
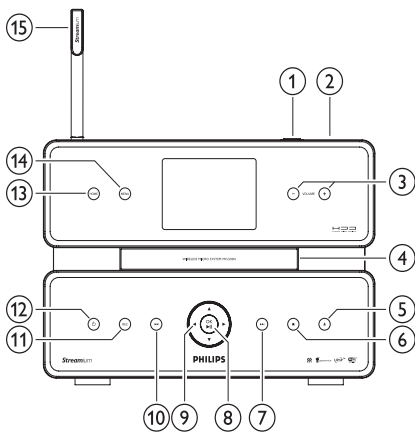
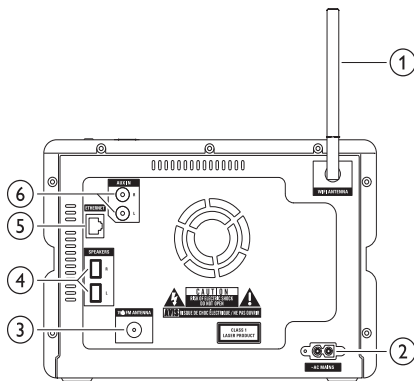| (1)		USB jack
(2)	🎧	
(3)	+VOLUME−	volume up / down
(4)		CD drive
(5)	⏏	eject CD
(6)	■	stop
(7)	▶▶⎸	skip forward
(8)	OK/▶❚❚	confirm / play/pause
(9)	◀ / ▶ / ▲ / ▼	navigate

(10)	⎹◀◀	skip back
(11)	REC	record
(12)	⏻	
(13)	HOME	
(14)	MENU	
(15)		Wi-Fi antenna

Back view

(1)		Wi-Fi antenna
(2)	~ AC MAINS	power supply connection
(3)	FM ANTENNA	FM radio antenna
(4)	SPEAKERS L / R	
(5)	ETHERNET	
(6)	AUX IN R / L	external device connections

Remote control

⑫	SHUFFLE	random play
⑬	INCR.SURR.	Incredible Surround sound
⑭	RDS/NEWS	
⑮	SAME GENRE	
⑯	SAME ARTIST	
⑰	DBB	Dynamic Bass Boost
⑱	SMART EQ	
⑲	SLEEP	standby timer
⑳	REPEAT	
㉑	MUSIC BROADCAST	
㉒	Alphanumeric keys	
㉓	MUTE	
㉔	▲ SCROLL ▼	
㉕	■	
㉖	CLEAR/◄◄	skip back
㉗	REC●	record
㉘	MARK/ UNMARK	
㉙	AUX	select external device
㉚	HD	harddisk music
㉛	MP3-CD/CD	
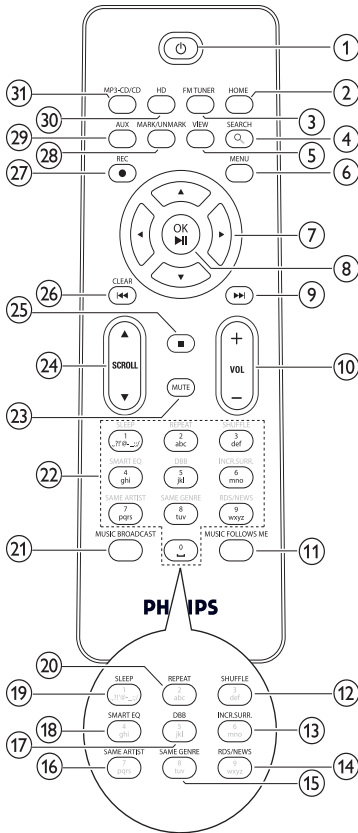
①	⏻	
②	HOME	
③	FM TUNER	
④	SEARCH	
⑤	VIEW	
⑥	MENU	
⑦	◄ / ► / ▲ / ▼	navigate
⑧	OK/►II	confirm / play/pause
⑨	►►I	skip forward
⑩	+VOL−	volume up / down
⑪	MUSIC FOLLOWS ME	

3 Prepare

(1) Open the battery compartment.

(2) Insert 2 AAA batteries with correct polarity (+/-) as indicated.

(3) Close the battery compartment.
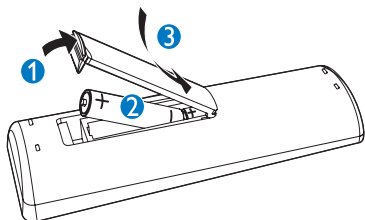
Position Wireless Micro Hi-Fi System

Connect to AC power

1 Connect Wireless Micro Hi-Fi System to the power supply.
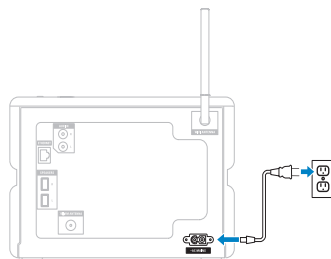
» Wireless Micro Hi-Fi System turns on and is ready to be set up for use.

Turn on / switch to standby

You can select from the following status options:

- On
- Standby
    - Active standby. The ⏻ button on the remote control can turn on Wireless Micro Hi-Fi System.
- Eco standby
    - Passive standby. Only the ⏻ button on the top panel can turn on Wireless Micro Hi-Fi System.

1 To turn on Wireless Micro Hi-Fi System, press ⏻.

2 To switch Wireless Micro Hi-Fi System to standby, press ⏻.

3 To switch Wireless Micro Hi-Fi System to eco standby, press and hold the ⏻ button on the top panel.

Note

- When Wireless Micro Hi-Fi System is in eco standby mode, the remote control is inactive.

In eco standby mode, the Wireless Micro Hi-Fi System still consumes a small amount of power.
To save energy during longer periods of non usage, pull the plug from the power supply to switch off the Wireless Micro Hi-Fi System completely.

First-time installation

When you connect Wireless Micro Hi-Fi System to the power supply, the automatic installation process starts. You must select the language before you can continue.

Select language

When you connect Wireless Micro Hi-Fi System to the power supply for the first time:

1 Wait until the language selection menu pops up, to select your language.

2 Press ▲ or ▼, then ▶ to select language.
   ↳ The display shows the Home menu.
   ↳ To select the network settings, follow the steps on how to Connect to a home network.

Tip

- After the first-time language set-up, you can change the language in the Settings menu.

4 Connect to a home network

Before you connect Wireless Micro Hi-Fi System to a router:

- Ensure that the PC meets the minimum requirements.
  You can choose one of these modes of connection:
- Wireless connection with automatic IP address
- Wireless connection with static IP address
- Wired connection with automatic IP address
- Wired connection with static IP address

Create wireless connection with automatic IP address

This is how to navigate and select with the remote control:

- Press ▲ or ▼ to select a menu option.
- Press ▶ to confirm a selection.
  - Press ◀ to go back to the previous screen.
- Press **HOME** to go to the Home menu. The alphanumeric buttons of the remote control are multi-function buttons:
- To select a number or an alphanumeric character, press a button once or more until you see the number or alphabetic character in the display of Wireless Micro Hi-Fi System.
- To cycle through the alphanumeric characters that are available, press a button repeatedly.
- To delete the last character entry from the display, press **CLEAR**.
  This chapter shows you how to create a wireless connection to a home network with automatic IP address.

1 Ensure that your network name and network password or encryption key are available.
  - Some Internet service providers (ISP) require the use of a proxy server.

2 Turn on your wireless access point or wireless router with broadband Internet.

3 Turn on Wireless Micro Hi-Fi System.

4 On Wireless Micro Hi-Fi System, press **MENU**.

5 Select **[Settings]** > **[Network]** > **[Wireless]** and confirm.

6 Select the network from the list in the display.
  - Enter encryption key with the remote control, then press **OK** / ▶❚❚ to continue (if required).

7 Select **[Automatic]** > (Apply settings?) **[Yes]** and confirm.
  » Wireless Micro Hi-Fi System displays a confirmation screen that the settings are saved.

Create wireless connection with static IP address

This is how to navigate and select with the remote control:

- Press ▲ or ▼ to select a menu option.
- Press ▶ to confirm a selection.
  - Press ◀ to go back to the previous screen.
- Press **HOME** to go to the Home menu. The alphanumeric buttons of the remote control are multi-function buttons:
- To select a number or an alphanumeric character, press a button once or more until you see the number or alphabetic character in the display of Wireless Micro Hi-Fi System.

- To cycle through the alphanumeric characters that are available, press a button repeatedly.
- To delete the last character entry from the display, press **CLEAR**.
  This chapter shows you how to create a wireless connection to a home network with static IP address.

1 Ensure that your encryption key (if required) is available.

2 Turn on your wireless access point or wireless router with broadband Internet.

3 Turn on Wireless Micro Hi-Fi System.

4 On Wireless Micro Hi-Fi System, press **MENU**.

5 Select **[Settings]** < **[Network]** > **[Wireless]** and confirm.

6 Select the network from the list in the display.
  - Enter encryption key with the remote control, then press **OK** / ▶Ⅱ to continue (if required).

7 Select **[Static]** and confirm.

8 Enter the static IP address with the remote control and confirm.

9 Select (Apply settings?) **[Yes]** and confirm.
  ›› Wireless Micro Hi-Fi System displays a confirmation screen that the settings are saved.

Create wired connection with automatic IP address

This is how to navigate and select with the remote control:
- Press ▲ or ▼ to select a menu option.
- Press ▶ to confirm a selection.
  - Press ◀ to go back to the previous screen.
- Press **HOME** to go to the Home menu. The alphanumeric buttons of the remote control are multi-function buttons:

- To select a number or an alphanumeric character, press a button once or more until you see the number or alphabetic character in the display of Wireless Micro Hi-Fi System.
- To cycle through the alphanumeric characters that are available, press a button repeatedly.
- To delete the last character entry from the display, press **CLEAR**.
  This chapter shows you how to create a wired connection to a home network with automatic IP address.

1 Use an Ethernet cable (sold separately) to connect Wireless Micro Hi-Fi System to the access point or router that connects to your home network with broadband Internet access.

2 Turn on your wireless access point or wireless router with broadband Internet.

3 Turn on Wireless Micro Hi-Fi System.

4 On Wireless Micro Hi-Fi System, press **MENU**.

5 Select **[Settings]** > **[Network]** > **[Wired]** > **[Automatic]** > (Apply settings?) **[Yes]** and confirm.
  ›› Wireless Micro Hi-Fi System displays a confirmation screen that the settings are saved.

Create wired connection with static IP address

This is how to navigate and select with the remote control:
- Press ▲ or ▼ to select a menu option.
- Press ▶ to confirm a selection.
  - Press ◀ to go back to the previous screen.
- Press **HOME** to go to the Home menu. The alphanumeric buttons of the remote control are multi-function buttons:
- To select a number or an alphanumeric character, press a button once or more

until you see the number or alphabetic character in the display of Wireless Micro Hi-Fi System.

- To cycle through the alphanumeric characters that are available, press a button repeatedly.
- To delete the last character entry from the display, press **CLEAR**.
  This chapter shows you how to create a wired connection to a home network with automatic IP address.

1 Use an Ethernet cable (sold separately) to connect Wireless Micro Hi-Fi System to the access point or router that connects to your home network with broadband Internet access.

2 Turn on your wireless access point or wireless router with broadband Internet.

3 Turn on Wireless Micro Hi-Fi System.

4 On the item, press **MENU**.

5 Select **[Settings]** > **[Network]** > **[Wired]** > **[Static]** and confirm.

6 Enter the static IP address with the remote control and confirm.

7 Select (Apply settings?) **[Yes]** and confirm.
  » Wireless Micro Hi-Fi System displays a confirmation screen that the settings are saved.

5 Build a music library on the harddisk

Be responsible
Respect copyrights

You have the following options to build a music library on the harddisk:
- rip music from CDs
- import music from a PC
- record music from FM radio
- record music from an external device

Music recognition technology and related data are provided by Gracenote®. Gracenote is the industry standard in music recognition technology and related content delivery. For more information, please visit www.gracenote.com.

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Import music from a PC

The import of music into Wireless Micro Hi-Fi System requires the WADM (Wireless Audio Device Manager) in the supplied PC installer. Before you can import music from a PC that is connected to a home network, you need to connect Wireless Micro Hi-Fi System to the PC.

Rip music from CDs on Wireless Micro Hi-Fi System

Important:
The CD rip process consists of various stages (ripping, compressing, converting, etc.). After the initial CD rip stage is complete, It takes approximately 15 minutes to process the ripped data. This happens in the background and during this time you can operate Wireless Micro Hi-Fi System as normal.
To avoid loss of data during or after CD rip:
- do not switch to eco standby during rip process
- do not disconnect Wireless Micro Hi-Fi System from the power supply for at least 15 minutes after the rip process stops

    Rip from a CD to the harddisk of Wireless Micro Hi-Fi System at high speed:
    (Audio CD, MP3/WMA CD)

Note

- While Wireless Micro Hi-Fi System is ripping, only the stop ■ function is available.

Tip

- You can rip while you listen, if you press **REC** ● during play.
-

1 On Wireless Micro Hi-Fi System, insert CD with printed side facing up.

2 In the track list screen, press **REC** ●.

3 Press **MARK/UNMARK** to select/
deselect tracks. (By default, Wireless
Micro Hi-Fi System rips all tracks of the
CD when no tracks are marked.)
- • Long press **MARK/UNMARK** to
  select/deselect all tracks.
4 Press **REC** ● to start ripping.
5 To rip another CD, repeat above steps 1
to 4.
6 To stop ripping, press ■.

✳ **Tip**

• For information about how to change the rip
quality, see chapter Settings.

Record music

You can record from 2 different sources.
1 Press
- • **AUX** to record from an external
  device.
- • **FM TUNER** to record from FM
  radio.
2 Press **REC** ●.
3 To stop recording, press ■.

6 Play

Play CD

1 Press ▲ to open the CD tray.
2 Insert CD with printed side facing up.
3 Press ▲ to close the CD tray.
4 Press **OK** / ▶❙❙ to play.

Internet radio

> **Note**
>
> • Internet radio features require broadband Internet access.
> • Internet radio features require registration, if you run firmware version 1.xx.xxxx on Wireless Micro Hi-Fi System.

Listen to Internet radio

1 Ensure that Wireless Micro Hi-Fi System is turned on.
2 Ensure that Wireless Micro Hi-Fi System is connected to the Internet.
3 Press **HOME**.
4 Press ▲ or ▼, then ▶ to select **[Internet Radio]**.
  ↳ The options are displayed.

• Press ▲ or ▼, then ▶ to select the station.
• To return to the Home menu, press **HOME**.

> **Note**
>
> • Internet radio features require broadband Internet access.

Mark Internet radio stations as Favorites

You can mark Internet radio stations as your Favourites so next time you want to listen to a station, it is easy to find.

1 Ensure that Wireless Micro Hi-Fi System is turned on.
2 Ensure that Wireless Micro Hi-Fi System is connected to broadband Internet.
3 When you listen to Internet radio, press ▶ to mark the station.

• To return to the Home menu, press **HOME**.
• The next time you connect to the Internet radio, the radio station is shown in the Favorite Stations menu.

> **Note**
>
> • Internet radio features require broadband Internet access.
> • You can also place bookmarks for Internet radio stations when you log on at **www.philips.com/welcome** and on the registered product site click the link **Streamium Management**.

Listen to Favorite Stations

When you place bookmarks for Internet radio stations, you can find them under Favorite Stations.

1 Ensure that Wireless Micro Hi-Fi System is turned on.
2 Ensure that Wireless Micro Hi-Fi System is connected to the Internet.
3 Press **HOME**.
4 Press ▲ or ▼, then ▶ to select **[Internet Radio]** > **[Favorite Stations]**.

• To return to the Home menu, press **HOME**.

Manually add Internet radio stations

This chapter explains how to register with Philips and add individual URL addresses for Internet radio stations on the PC.

1 Turn on Wireless Micro Hi-Fi System.

2 Ensure that Wireless Micro Hi-Fi System is connected to broadband Internet.

3 Follow the steps to register Wireless Micro Hi-Fi System with Philips, if you have not done so already.

4 On the registered product site, click the link **Streamium Management**.

5 Select **My Media**.

6 Click on the tab **Music**.

7 Enter the URL address of Internet radio station in the first column.

8 Enter a nickname in the second column.
   - » The nickname is the Internet radio stations identification that is displayed Wireless Micro Hi-Fi System.

9 Enter a description in the third column.

10 Click on **Save** to confirm your entries.

Listen to My Media

My Media allows you to access Internet radio stations that are not part of the standard service.

1 Follow the steps to register Wireless Micro Hi-Fi System with Philips.

2 Follow the steps to manually add Internet radio stations.

3 Ensure that Wireless Micro Hi-Fi System is turned on.

4 Ensure that Wireless Micro Hi-Fi System is connected to the Internet.

5 Press **HOME**.

6 Press ▲ or ▼, then ▶ to select **[Internet Radio Services]**.

7 Press ▲ or ▼, then ▶ to select **[My Media]**.
   - To return to the Home menu, press **HOME**.

FM radio

You can listen to FM radio with Wireless Micro Hi-Fi System, if you connect the supplied antenna:
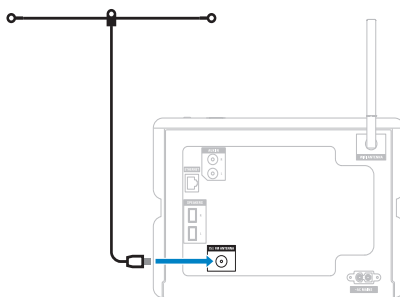
Listen to FM radio

1 Ensure that Wireless Micro Hi-Fi System is turned on.

2 Ensure that you fully extend the connected FM antenna.

3 Press HOME.

4 Press FM TUNER.
   » The current frequency is displayed.

   » To return to the Home menu, press HOME.

✻ Tip

- You can optimize the reception when you rotate the FM antenna.
- You can use the automatic search & store function to store channels under presets.

Change frequency

To fine tune the reception of a channel, you can adjust the channel frequency.

1 Ensure that Wireless Micro Hi-Fi System is turned on.

2 Press HOME.

3 Press FM TUNER.
   » The current frequency is displayed.

4 Press ▲▼ to adjust the frequency.
   • To return to the Home menu, press HOME.

✻ Tip

- You can store channel frequencies under a preset channel number.

Automatic channel search

Wireless Micro Hi-Fi System can automatically search available channels.

1 Ensure that Wireless Micro Hi-Fi System is turned on.

2 Press HOME.

3 Press ▲ or ▼, then ▶ to select [FM Tuner].
   » The current frequency is displayed.

4 Press and hold ▲ or ▼ to start automatic search function.
   » When a channel is found, the search stops.

5 Press MENU.

6 Select [Save to Preset].

7 Press ▲ or ▼, then ▶ to select.
   » The frequency is stored under the selected preset number.

   » To return to the Home menu, press HOME.

Automatic channel search & autostore

Wireless Micro Hi-Fi System can automatically search and store up to 60 channels under the preset numbers.

1 Turn on Wireless Micro Hi-Fi System.

2 Press HOME.

3 Press ▲ or ▼, then ▶ to select [FM Tuner].
   » The current frequency is displayed.

   » Press MENU.

4 Select [Autostore radio].
   » Wireless Micro Hi-Fi System searches and stores channels.

   » When all available channels are stored, the search stops.

   » To return to the Home menu, press HOME.

Select preset channels

You can find your preset channels in the preset channel list.

1 Turn on Wireless Micro Hi-Fi System.

2 Press HOME.

3 Press ▲ or ▼, then ▶ to select **[FM Tuner]**.
 » The current frequency is displayed.

4 Press ▶ to display preset channel numbers.

5 Press ▲▼ to select, then press ▶.
 • To return to the Home menu, press **HOME**.

Manual search & store

You can manually search and store channels.

1 Turn on Wireless Micro Hi-Fi System.

2 Press **HOME**.

3 Press ▲ or ▼, then ▶ to select **[FM Tuner]**.
 » The current frequency is displayed.

4 Press ▲▼to change the frequency.

5 Press **MENU**.

6 Select **[Save to Preset]**.

7 Press ▲▼ to select, then press ▶.
 » The frequency is stored under the selected preset number.
 » To return to the Home menu, press **HOME**.

> **✳ Tip**
>
> • You can overwrite preset channel numbers with new frequencies.

Wirelessly stream music from a computer

You can wirelessly stream music to Wireless Micro Hi-Fi System from a connected computer. The following chapters show you how to
• install the software on your computer
• configure the computer to share your music

> **▤ Note**
>
> • If TwonkyMedia™ Server is already installed on the computer, you can skip the installation section and continue with the configuration.
> • For any other media players, refer to the instructions of the player.

Install TwonkyMedia™ Server

1 On the computer, insert the supplied software CD.
 » Installation of TwonkyMedia™ starts.

2 Follow the instructions on the computer to install the software.

Configure a PC to share music

You can share music from a PC with Wireless Micro Hi-Fi System. This chapter shows you how to configure the PC to share music.

1 Follow the instructions to install TwonkyMedia™ Server (see 'Install TwonkyMedia™ Server' on page 20).

2 On the PC, click **Start** > **Programs** > **TwonkyMedia™** > **TwonkyMedia™ Tray Control**.

3 On the task bar, click the TwonkyMedia™ Server icon.

4 Choose **Media Server Settings**.

5 In the **Basic Settings** of the Configuration Page, click on **Sharing**.
 » The content directories are scanned.
 » to manually locate the music, click **Browse**
 » to manually add a new content directory, click **Add new content directory**.
 » To save the changes, press **Save changes**.

6 On the remote control of Wireless Micro Hi-Fi System, press **HOME**.

7 Select **[UPnP]** and confirm with **OK**.

» The display shows **[Searching for UPnP servers…]**.

**8** Press ▲ / ▼ to select the server name and confirm with **OK**.

✳ Tip

• The TwonkyMedia™ sharing page lets you set the rescan behavior of the server. The default setting is -1 minutes, which ensures auto-scan.

Play from a flash memory USB device

You can play music from a USB device. You can also transfer the music library of Wireless Micro Hi-Fi System to a USB mass storage device.

**1** Insert the USB plug of the USB device into the USB socket of Wireless Micro Hi-Fi System.
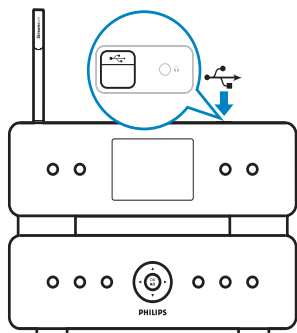
2 On Wireless Micro Hi-Fi System, press **HOME**.

3 Press ▲ or ▼, then ▶ to select **[USB]**.
» The display shows the USB device.

4 Press ▲ or ▼, then ▶ to select the USB content,
• To return to the Home menu, press **HOME**.

Connect audio devices (AUX)

You can play music from an external appliance that is connected to the AUX input of Wireless Micro Hi-Fi System.

1 Consult the user manual of the external appliance to connect the supplied audio cable to the audio output jack of the external appliance.

2 Connect the other end of the audio cable to the **AUX IN** jack of Wireless Micro Hi-Fi System.
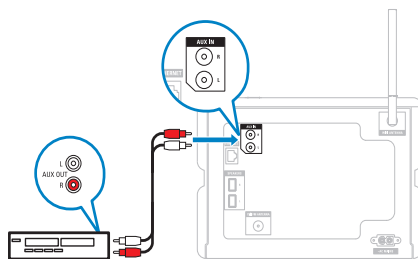
3 On the remote control of Wireless Micro Hi-Fi System, press **HOME**.

4 Press ▲ or ▼, then ▶ to select **[AUX]**.

5 Operate the controls of the external appliance to play music.

Play HD music

1 Press **HD** to enter the HD music menu.

2 Press ▲ or ▼, then ▶ to select menu options.
» The display guides you through the menu.

3 Press **OK** / ▶II to play.
• To stop play, press ■.

7 Play options

You can choose between various play options:
- Repeat play
- Shuffle play
- Play by artist
- Play by genre

Repeat play

You can repeat one or all audio files of the current selection.

1 In play mode, press **REPEAT** to toggle the repeat function as follows:
   - **Repeat 1**
   - The current audio file is continuously repeated until another mode or setting is selected.
   - **Repeat all**
   - All audio files of the current selection are continuously repeated until another mode or setting is selected.
   - **Off** (default)

Shuffle play

You can play the audio files of the current selection in random order (shuffled).

1 During play, press **SHUFFLE** to toggle shuffle on and off.
   - ↪ When you turn shuffle on, the current selection of audio files is played in random order.

Play by artist

You can play all audio files of the same artist from the HD of the Philips Wireless Music Center.

1 When you play HD audio, press **SAME ARTIST** .

Play by genre

You can play all audio files of the same genre from the HD of the Philips Wireless Music Center.

1 When you play HD audio, press **SAME GENRE**.

Create a playlist

You can create up to 99 playlists on the hard disk of the connected Philips Wireless Music Center.

1 Ensure that Wireless Micro Hi-Fi System is turned on.

2 On the remote control of Wireless Micro Hi-Fi System press **HD**.

3 Press **MENU** to enter the HD menu.

4 Press ▲ or ▼, then ▶ to select **[Create Playlist]**.
   - ↪ A new playlist with a default album name, such as Playlist_001, is created.
   - ↪ To return to the Home menu, press **HOME**.

Add audio files to a playlist

You can add up to 300 audio files to a playlist.

1 Ensure that Wireless Micro Hi-Fi System is turned on.

2 On the remote control, press **HD**.

3 Press ▲ or ▼, then ► to select audio file.

4 Press **MENU** to enter the HD menu.

5 Press ▲ or ▼, then ► to select **[Add To Playlist]**.

6 Press ▲ or ▼, then ► to select playlist.
   » The audio file is added to the selected playlist.
   » To return to the Home menu, press **HOME**.

Play from a playlist

1 Ensure that Wireless Micro Hi-Fi System is turned on.

2 On the remote control, press **HD**.

3 Press **MENU** to enter the HD menu.

4 Press ▲ or ▼, then ► to select **[Playlists]**.

5 Press ▲ or ▼, then ► to select playlist.

6 Press **OK / ►II** to play.

• To stop play, press ∎.
   • To return to the Home menu, press **HOME**.

8 Record from HD to USB

You can record music files from the HD (harddisk) of Wireless Micro Hi-Fi System to a flash memory USB device.

1 Insert the USB plug of the USB device into the USB socket of Wireless Micro Hi-Fi System:
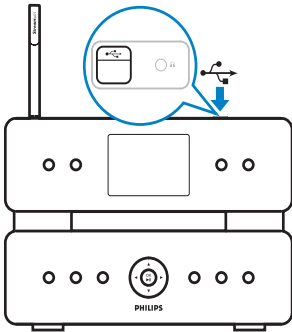
Use the remote control of Wireless Micro Hi-Fi System for the following steps:

2 Press **HD**.

3 Press **REC** ●.

4 Press **MARK/UNMARK** to select/ deselect tracks. (By default Wireless Micro Hi-Fi System records all tracks of the HD when no tracks are marked.)

• Long press **MARK/UNMARK** to select/deselect all tracks.

5 Press **REC** ● to start recording.

6 To stop recording, press ■.

9 Alphanumeric search

You can search for specific audio files on a connected UPnP device.

1 Ensure that Wireless Micro Hi-Fi System is turned on.

2 Press **HOME**.

3 Press ▲ or ▼, then ▶ to select the music source.
   ↳ The display shows the available lists.

4 Press ▲ or ▼, then ▶ to select list.

5 Press **SEARCH**.
   ↳ The display shows a text box.

6 Press the alphanumeric buttons on the remote control to enter the search word.

7 Press **OK** / ▶❚❚ to start the search.
   ↳ Wireless Micro Hi-Fi System shows the closest alphabetical match.

8 To stop the search, press ■.
   • To return to the Home menu, press **HOME**.

Note

• The alphanumeric search is available in HD source and UPnP source.

10 Gracenote® CD information

Gracenote® CD Information
Gracenote MusicID® provides the set with CD track information (including album, artist, genre, track information) from its built-in database. It allows the recorded CD tracks to be properly categorized (for example, under Artists, Albums, Genres or All tracks) and be merged with the existing tracks in the hard disk.
Gracenote® Media Database
A CD database is embedded in every MCi500H for quick look-up on track information. An update file that contains newly released CDs is available quarterly on www. club.philips.com for download.
Update Gracenote® Media Database
Use your PC to register your product on www. club.philips.com and go to "Show Upgrades & Support" page to download Gracenote® Media Database update. Note that the updates are posted quarterly and new updates are independent from old updates, i.e. a new update can be installed, even without the previous update.

11 Settings

Adjust volume

1 During play, press **+ VOL -** to adjust the volume.

Mute

You can turn off the sound of your audio.
1 During play, press **MUTE**.
- To turn the sound back on, press **MUTE** again.

Change Equalizer (EQ) settings

You can adjust the audio sound with the following equalizer settings:
- **[Rock]**
- **[Pop]**
- **[Jazz]**
- **[Neutral]**
- **[Techno]**
- **[Classical]**

1 Turn on Wireless Micro Hi-Fi System.
2 Press **MENU**.
3 Press ▲ or ▼, then ▶ to select **[Equalizer]**.
4 Press ▲ or ▼ to select.
- To return to the Home menu, press **HOME**.

Activate Smart EQ

1 Ensure that Wireless Micro Hi-Fi System is turned on.
2 Press **SMART EQ** to toggle between the options:
- activate Smart EQ
- deactivate Smart EQ

- The Smart EQ function automatically selects equalizer settings according to the genre that is associated with the audio file.
- If no genre is associated with the audio file, the default setting is Pop.

Adjust treble / bass

1 Ensure that Wireless Micro Hi-Fi System is turned on.
2 Press **MENU**.
3 Press ▲ or ▼, then ▶ to select **[Settings]** > **[Bass/Treble].**
4 Press ▲ or ▼, then ▶ to select.
5 Press ▲ or ▼, then ▶ to adjust.
- To return to the Home menu, press **HOME**.

Set Dynamic Bass Boost (DBB)

You can choose from the following DBB settings:
- **[DBB]**
- **[DBB2]**
- **[DBB3]**
- **[DBB OFF]** (default)

1 To toggle between the settings, press **DBB**.

Activate Incredible Surround sound

1 To activate the Incredible Surround sound feature, press **INCR.SURR.**.
- To deactivate the feature, press the button again.

Time settings

This chapter shows you how to change the time settings.

Synchronize with RDS radio station

RDS (Radio Data System) is a service that allows FM stations to send additional information along with the FM radio signal. Automatic time synchronization is one of the RDS features.

1 Ensure that the radio station you select for synchronization has RDS.
2 Ensure that Wireless Micro Hi-Fi System is turned on.
3 Press **MENU**.
4 Press ▲ or ▼, then ▶ to select **[Settings]** > **[Time]** > **[Auto Time Sync]**.
5 Press ▲ or ▼, then ▶ to select the RDS station.
6 To return to the Home menu, press **HOME**.

Set the time format

1 Ensure that Wireless Micro Hi-Fi System is turned on.
2 Press **MENU**.
3 Press ▲ or ▼, then ▶ to select **[Settings]** > **[Time]** > **[Time Format]**.
4 Press ▲ or ▼, then ▶ to select format.
5 Press ◀ to return to the previous selection menu.
   • To return to the Home menu, press **HOME**.

Set the time manually

1 Ensure that Wireless Micro Hi-Fi System is turned on.
2 Press **MENU**.
3 Press ▲ or ▼, then ▶ to select **[Settings]** > **[Time]** > **[Set Time]**.
4 Press ▲ or ▼to adjust, then ▶ to confirm the time.
5 Press ◀ to return to the previous selection menu.
   • To return to the Home menu, press **HOME**.

✳ Tip

• You can also press the numeric buttons (0-9) and enter the time directly.

Set standby timer

You can select a set time period after which Wireless Micro Hi-Fi System automatically switches to standby.
The timer offers the following options in minutes:
• **[Sleep 15]**
• **[Sleep 30]**
• **[Sleep 45]**
• **[Sleep 60]**
• **[Sleep 90]**
• **[Sleep 120]**
• **[Sleep off]**

1 Ensure that Wireless Micro Hi-Fi System is turned on.
2 Press **SLEEP** one or more times to select a time period.
   » When you set the timer, the display shows the sleep icon: 💤
   » To view the remaining countdown time to standby, press **SLEEP** anytime.

Change recording speed

You can change the speed at which Wireless Micro Hi-Fi System rips a CD.

1 Press **CD**.
2 Press **MENU**.
3 Press ▲ or ▼, then ▶ to select **[Settings]**.
4 Press ▲ or ▼, then ▶ to select **[Normal speed]** or **[Fast speed]**.

Change recording quality

You can change the quality in which Wireless Micro Hi-Fi System rips a CD.

1 Press **CD**.
2 Press **MENU**.
3 Press ▲ or ▼, then ▶ to select **[Settings]**.
4 Press ▲ or ▼, then ▶ to select **[Rec quality]**.
5 Press ▲ or ▼, then ▶ to select the bit rate.

Change language

You can change the language that you have set during the first-time installation.

1 Ensure that Wireless Micro Hi-Fi System is turned on.
2 Press **MENU**.
3 Select **[Settings]** > **[Language]**.
4 Press ▲ or ▼, then ▶ to select.
5 To return to the Home menu, press **HOME**.

Maintenance

Cleaning

Note

• Avoid moisture and abrasion.

1 Clean Wireless Micro Hi-Fi System only with a soft dry cloth.

Update

• When Wireless Micro Hi-Fi System is connected to a PC, you can download new firmware updates.

Update through PC connection

This chapter shows you how to install the WADM (Philips Wireless Audio Device Manager) software. The WADM is necessary to search and download software updates for Wireless Micro Hi-Fi System.

1 On the PC, visit the <Website>.
2 Download the latest software for Wireless Micro Hi-Fi System to the harddisk of the PC.
3 Ensure that Wireless Micro Hi-Fi System is turned on.
4 Ensure that Wireless Micro Hi-Fi System is connected to the network of the PC.
5 Press **MENU**.
6 Insert the PC Suite CD into the PC.
7 Follow the instructions on the PC to install WADM.
8 When the security alert message (Microsoft Windows Firewall) pops up, press 'Unblock' to allow the WADM application to run on the PC.
   ↳ The firewall is still effective and only allows the WADM to run.
9 On the WADM screen, select **Device Configuration**.

10 In the Device Configuration screen, select **Firmware upgrade** and click **OK**.

11 Click **Browse** to locate the software image file that you saved on the harddisk of the PC.

12 Click **OK** to start the update.
  » The software update progress is shown.
  » When the software installation is complete, Wireless Micro Hi-Fi System restarts.

✳ Tip

• You can also consult the user manual of the PC and manually add the WADM application to your list of programs that are safe to run.

Restore the default settings

You can restore the default settings (including network settings) of Wireless Micro Hi-Fi System.

1 Ensure that Wireless Micro Hi-Fi System is turned on.

2 Press **MENU** to enter the menu display.

3 Press ▲ or ▼, then ▶ to select **[Settings]** > **[Restore settings]**.

4 Press ▶.

5 Press ▶ to select **[Yes]**.
  » Wireless Micro Hi-Fi System restarts when the factory settings are restored.
  » The language selection display is shown.

✳ Tip

• You can restore the default settings without losing the audio files on the harddisk of a connected PC or Center.

12 Add a Philips Wireless Music Station (sold separately)

You can add up to 5 Philips Wireless Music Stations (sold separately) and expand your wireless music to other locations in your home.

Add a Philips Wireless Music Station to Wireless Micro Hi-Fi System

This connection creates a wireless of the Philips Wireless Music Station to the home network that Wireless Micro Hi-Fi System connects to:

1 Place Wireless Micro Hi-Fi System and the Philips Wireless Music Station next to each other.

2 Follow the instructions of the Philips Wireless Music Station to connect the Station to the power supply.

3 Turn on Wireless Micro Hi-Fi System.

4 Turn on the Philips Wireless Music Station.
   • If you turn on the Philips Wireless Music Station for the first time, follow the instructions of the Philips Wireless Music Station to select the language.
   • The devices are ready for the connection setup.

Connection setup:

1 On the remote control of Wireless Micro Hi-Fi System, press **HD**.

2 Press **MENU** to enter the menu screen.

3 Press ▲ or ▼, then ▶ to select **[Station Mgnt]**.

4 Press ▲ or ▼, then ▶ to select **[Add New Station]**.
   » Wireless Micro Hi-Fi System searches for Philips Wireless Music Stations.

5 Follow the instructions of the Philips Wireless Music Station to enter the '**Installation Mode**' on the Station. (The Philips Wireless Music Station must be in '**Installation Mode**' so that Wireless Micro Hi-Fi System can find it.)

6 When the display of Wireless Micro Hi-Fi System shows that the Philips Wireless Music Station is found, press ■.
   » Wireless Micro Hi-Fi System stops to search.
   » You can relocate the devices.

Note

• Thick walls and metal obstacles between the devices can impair the wireless connection.

Broadcast music to Philips Wireless Music Stations

Note

• This feature requires that you first connect Wireless Micro Hi-Fi System to a Philips Wireless Music Station (sold separately).

1 Ensure that the Philips Wireless Music Station is turned on.

2 Ensure that Wireless Micro Hi-Fi System is turned on.

3 While playing music, press **MUSIC BROADCAST**.
   » After a short delay, all connected Philips Wireless Music Stations play the music you broadcast from Wireless Micro Hi-Fi System.
   » To stop the broadcast on Wireless Micro Hi-Fi System, press ■.

» To stop the broadcast on the connected Philips Wireless Music Station, press ■.

Music Follows Me

As you move around at home, let the music move with you between Wireless Micro Hi-Fi System and one or more connected Philips Wireless Music Stations. The unit where the music is playing is the source unit. The unit to which you want to move the music is the destination unit.

1 Ensure that source unit and the destination unit are turned on.

2 On the source unit, press **MUSIC FOLLOWS ME**.
» The displays of the source unit and the destination unit show an icon to indicate that the feature is activated.

3 On the destination unit, press **MUSIC FOLLOWS ME**.
» The icon disappears from the displays.
» The music play simultaneously stops on the source unit and starts on the destination unit.
» To stop the music play, press ■ on the unit where the music plays.

Delete a Philips Wireless Music Station from Wireless Micro Hi-Fi System

1 On the remote control of Wireless Micro Hi-Fi System, press **HD**.

2 Press **MENU**.

3 Press ▲ or ▼, then ▶ to select **[Station Mgnt]**

4 Press ▲ or ▼, then ▶ to select **[Delete Station]**.
» The display shows all the Philips Wireless Music Stations that are connected to the network of Wireless Micro Hi-Fi System.

5 Press ▲ or ▼, then ▶ to select the Philips Wireless Music Station you want to delete.

6 Press ▲ or ▼, then ▶ to select **[Yes]**.
» The Philips Wireless Music Station is deleted from the network of Wireless Micro Hi-Fi System.

Relocate Wireless Micro Hi-Fi System or Philips Wireless Music Station after connection

1 Turn off (or switch to Eco Standby) the device you want to relocate.

2 Disconnect the device from the power supply.

3 Reconnect the device to the power supply in the new location.
» The Wi-Fi connection recovers automatically.

13 Technical data

General

AC Power	Voltage information is printed on the back or the underside of the MCi500H.
Dimensions (w × h × d)	260 × 180 × 275 mm
Weight (net)	Main unit: ~ 3.5 kg Main unit + speakers: ~ 5.5 kg

Power consumption

On	45 W
Standby (active)	< 15 W (typically 12 W)*
ECO (passive) standby	< 0.9 W

* Power consumption during active standby is based on Wi-Fi infrastructure, no LAN connection, no background music compression and no streaming to other stations.

Amplifier

Output power	2 × 50 W (RMS)
Frequency response	30 - 22,000 Hz (-3 dB)
Signal to noise ratio	75 dBA (IEC)

Speakers

Power	50 W (RMS) / 75 W (MPO)
Frequency response	60 Hz - 30 kHz (-6 dB)
Sensitivity	84 dB / m / W
Impedance	9 Ω
Speaker drivers	2-way bass reflex system 5¼'' woofer, 25 mm dome tweeter
Dimensions (w × h × d)	173 × 300 × 265 mm

Headphone

Impedance	16 - 150 Ω

Input sensitivity

AUX IN	500 mV / 1 V (user selectable)

Wireless

Wireless standard	802.11g, backwards compatible to 802.11b
Wireless security	WEP (64 or 128 bit), WPA/WPA2 (8-63 characters)
Frequency range	2412 - 2462 MHz CH1-CH11

Wired (LAN / Ethernet)

Wired standard	802.3 / 802.3 u
Speed	10 / 100 MBit/s
Mode	half / full duplex
Crossover detection (Auto MDIX)	Yes

Tuner

FM wave range	87.5 - 108.0 MHz
Number of presets	60 Ω
FM antenna / cable	COAX / dipole antenna (75 Ω IEC connector)

HD player

Frequency range	30 - 20,000 Hz (-3 dB)
Signal to noise ratio	75 dBA (IEC)
M4A (AAC) bit rate	16 - 320 kbps, CBR / VBR
MP3 bit rate	32 - 320 kbps, CBR / VBR
WMA bit rate	up to 192 kbps, CBR / VBR
Sampling frequencies	32, 44.1, 48 kHz
HD storage capacity	160 GB*
Recording quality	128, or 160, or 192, or 256, or 320 kbp
Recording speed	1x, 4x
CDDB (CD recognition database)	Internal Gracenote® / online access enabled
Album artwork	Supported

* Actual formatted capacity will be less

CD player

Frequency range	60 - 20,000 Hz (-3 dB)
Signal to noise ratio	75 dBA (IEC)
M4A (AAC) bit rate	16 - 320 kbps, CBR / VBR
MP3 bit rate	32 - 320 kbps, CBR / VBR
WMA bit rate	up to 192 kbps, CBR / VBR
Sampling frequencies	32, 44.1, 48 kHz

USB player

USB	12 Mbps, V1.1 (supports MP3, WMA and M4A files)
USB class	MSC, MTP
Number of tracks / titles	maximum 9999
File format	FAT, FAT-32 only

Specifications and external appearance are subject to change without notice.

MCi500H - Supplied accessories

- Remote control
- 2 AAA batteries
- AC power cable
- RCA cable
- FM radio antenna

PC connection requirements

The minimum requirements for PC connections are:

- Windows 2000 SP4 (or above) / XP SP2 / Vista
- Pentium III 500 MHz processor or higher
- 256 MB RAM
- CD-ROM drive
- Adapter
    - Ethernet enabled, plus Ethernet cable (for wired connection)
    - Wireless network 802.11 b/g (for wireless connection)
- 500 MB free hard disk space

14 Troubleshooting

Wireless Micro Hi-Fi System is connected to a home network and music skips during play (from any source including HD), what do I do?
- Ensure that the network router is turned on.
- Ensure that the network settings are correct for the selected network (see section 'Connect to a home network').

I cannot hear any sound or the sound is poor, what do I do?
- Press **+ VOL -** to increase the volume.
- Press the **MUTE** button again to reactivate the sound output.
- Check that the RCA cable is connected correctly.
- Check that you have selected 'Aux in' as the source on the connected stereo system.
- Check if the volume control of the connected stereo system is adjusted correctly.

The radio reception is poor, what do I do?
- Adjust the antenna for better reception.
- Increase the distance between Wireless Micro Hi-Fi System and TV or VCR devices.

Is there a maximum distance of transmission between a Philips Wireless Music / Micro Center and Wireless Micro Hi-Fi System for effective streaming?

Yes. The maximum distance of Wi-Fi transmission is 250m measured in open spaces. However, in a home environment, where solid obstacles such as walls and doors are present, the effective transmission distance is reduced to 50-100m. Reposition the devices if you experience transmission problems.

How do I avoid Wi-Fi interferences from other devices that operate in the same (2.4GHz) frequency spectrum, such as Dect phones or bluetooth devices?
- Move Wireless Micro Hi-Fi System at least 3m away from such devices.
- Use a WEP/WPA encryption key when you create the wireless connection your PC / home network.
- Change the operating channel on the interfering devices.
- Turn the devices in different directions to minimize interference.

The wireless firmware update failed, what do I do?

1 Ensure that the PC is connected to the Internet.

2 Use an Ethernet cable (sold separately) to connect Wireless Micro Hi-Fi System to the PC.

3 On the PC, launch the WADM to update the firmware.

I have done all the steps described to connect Wireless Micro Hi-Fi System to my wireless home network, but Wireless Micro Hi-Fi System is still not connected.
- On Wireless Micro Hi-Fi System, press **MENU**. Select **[Information]** > **[Wireless]** > **[Wireless Mode]** Check that Wireless Micro Hi-Fi System has been changed from **Ad hoc mode** to **Infrastructure mode**. Also check that the SSID, IP address, WEP key, or WPA key matches the setup of your wireless home network.
- Try to change the SSID on your router to a more unique name to ensure that

it is different from the SSID that your neighbors use for their router.

- Wireless Micro Hi-Fi System supports wireless and wired connection at the same time. There is a chance that your wireless IP address and your wired IP address are on the same subnet. This will confuse the device. Consider changing the DHCP range of your wireless router so that the wireless IP received by the device is on a different subnet from its wired IP address.
- Try to change the channel of your home network settings on the router.
- On your router, consider using a WPA key instead of a WEP key. When you use a WEP as your encryption key, set all 4 keys to be the same.
- Ensure that the turbo mode of your wireless router is switched off, if your router has this function.

After ripping music from a CD the data is lost, why is that?

The CD rip process consists of various stages (ripping, compressing, converting, etc.). After the initial CD rip stage is complete, It takes approximately 15 minutes to process the ripped data. This happens in the background and during this time you can operate Wireless Micro Hi-Fi System as normal.

Solution to avoid loss of data during or after CD rip:

- do not switch to eco standby during rip process
- do not disconnect Wireless Micro Hi-Fi System from the power supply for at least 15 minutes after the rip process stops

The wireless firmware update failed, what do I do?

1 Ensure that the PC is connected to the Internet.

2 Use an Ethernet cable (sold separately) to connect Wireless Micro Hi-Fi System to the PC.

3 On the PC, launch the WADM on the PC to update the firmware.

I have problems installing WADM or launching WADM after installation, what do I do?

- Ensure that the operating system of the PC meets the requirements.
- Ensure that the PC is virus-free.

Some files on the USB device are not displayed, what do I do?

- Check if the number of folders exceeds 99 or the number of titles exceeds 999.
- Only completely recorded MP3/WMA files can be found and played. Check if the file has been recorded completely.
- DRM-protected WMA files cannot be played.

The remote control does not function properly, what do I do?

- Reduce the distance between the remote control and Wireless Micro Hi-Fi System.
- Insert the batteries with correct polarity (+/- as indicated inside the battery compartment).
- Replace the batteries.
- Point the remote control directly at the infrared sensor.

The screen of Wireless Micro Hi-Fi System is stuck in a menu or shows no response for a long period of time (2-5 minutes), what do I do?

- Press ⏻/ON/STANDBY/ECO-STANDBY.
- If the problem persists, restart the power (disconnect and reconnect the power plug) to reset Wireless Micro Hi-Fi System.

'No Disc' / 'Cannot read CD' is displayed, what do I do?

- Insert a suitable disc.
- Check if the disc is inserted with the graphics side (label) facing up.
- Wait for the condensation moisture on the lens to clear.
- Replace or clean the disc.
- Use a finalized CD-RW or CD-R.

15 Glossary

A

AAC (Advanced Audio Coding)
An audio compression scheme defined as part of the MPEG-2 standard (also known as MPEG-2 AAC or MPEG-2 NBC, or Not Backwards Compatible). It offers better sound and a compression ratio that is superior by roughly 30 percent compared to the MPEG-1 MP3 format.

AC (alternating current)
An alternating current is an electrical current whose magnitude and direction vary cyclically, as opposed to DC (direct current), whose direction remains constant. The usual waveform of an AC power circuit is a sine wave, as this results in the most efficient transmission of energy. However certain applications use different waveforms, such as triangular or square waves.

Amplifier
A device, either a single stage or a large scale circuit with multiple stages for creating gain, i.e. it makes small signals larger.

Antenna
A device, such as a rod or wire, which picks up a received radio frequency signal or radiates a transmitted RF signal.

Audio output
High-level (speaker) or line-level (RCA) signals sent from one system component to another; or the high-level signal from an amplifier to the system speakers.

AUX
Auxiliary input that allows you to connect portable audio devices.

B

Bass
The lowest three octaves of the audio band. Low bass is the bottom octave (20-40Hz), mid-bass is the middle octave (40-80Hz), and upper bass is the 80-160Hz octave.

Bit / bits
A bit is a binary digit, taking a value of either 0 or 1. For example, the number 10010111 is 8 bits long.

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

CBR (constant bit rate)
With CBR the encoder spends the same amount of bits on each frame, regardless of how much it may really need. Disadvantage of CBR: Bits are wasted in case of absolute blackness of a picture or complete silence in an audio frame. And pictures or audio frames with a lot of elements may need those bits.

CD (Compact Disc)
Format developed by Phillips, Sony, and Pioneer for conveying music and data. CDs record information by deforming the inner metal foil on the disc with tiny micro pits burned in by a laser.

CDDB
A centralized database of CDs, CD tracks, and artists on the Web, now known as Gracenote. The audio player or burner program can log on to CDDB. It uploads the ID of the CD being played, and then downloads the title, artist, and track list.

Coaxial

A single copper conductor, surrounded with a layer of insulation, covered by a surrounding copper shield and finally, an insulating jacket. An unbalanced transmission line with constant impedance. In audio, this type is commonly used for low level, line signals terminated in RCA connectors.

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

dB (Decibel)

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

DC (direct current)

Direct current or continuous current is the constant flow of electric charge. This is typically in a conductor such as a wire. In direct current, the electric charges flow in the same direction, distinguishing it from AC (alternating current).

DHCP

DHCP stands for Dynamic Host Configuration Protocol. It is a protocol for assigning dynamic IP addresses to devices on a network.

Digital

A method to encode information using a binary code of 0s and 1s. Many wireless phones and networks use digital technology.

Digital Audio

Digital Audio is a sound signal that has been converted into numerical values. Digital sound can be transmitted through multiple channels.

Analog sound can only be transmitted through two channels.

Duplex (half/full)

- Full duplex is the ability to send and receive data simultaneously. Duplex is synonymous with full duplex. Example: when a modem operates in full-duplex mode, it can transmit data in two directions simultaneously. In half-duplex mode it can transmit data in two directions, but not simultaneously.

E

Eco (Eco Standby)

Eco Standby is the most 'economic' mode of the MCi500H and consumes less than 1W. It is 'economic' and environmentally friendly to use this mode during longer times of non-usage of the MCi500H.

EQ (Equalizer)

A class of electronic filter circuits designed to augment or adjust electronic or acoustic systems. Equalizers can be fixed or adjustable, active or passive. Many equalizers divide the spectrum into 3 to 12 bands. This allows each section to be either increased or decreased in amplitude without changing the response of the rest.

F

Fidelity

A term used to describe the accuracy of recording, reproduction, or general quality of audio processing. "High Fidelity" (Hi-Fi) is the goal of every designer.

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

The property or condition of occurring at frequent intervals. In sound, this simply refers

to the regular occurrence of compression and rarification of air that we experience as sound.

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.

H

Hi-Fi (High Fidelity)
A method of sound reproduction that emphasizes the highest possible adherence to the exact character of the original sound. This is a principal that must be paramount in every stage of the recording, transportation, and recreation of the signal to be fully operational. It is usually the listener's equipment wherein this objective is most seriously compromised.

Hz (Hertz)
Cycles per second, named after Heinrich Hertz.

I

Impedance
The resistance to the flow of an electric current in a circuit. This is effectively the electrical load that a loudspeaker presents to the amplifier which drives it and is measured in ohms.

Incredible Surround Sound (Incr.Surr.)
An improved system that creates realistic, three-dimensional sound fields. These sound fields are usually achieved with multiple speakers that are arranged around the listener.

Input sensitivity
SPL (sound pressure level) a speaker produces, given one watt of power, measured from a one-meter distance at a typical input frequency (usually 1kHz unless otherwise noted on the speaker).

Interface
A device or protocol which facilitates the linking of any two devices or systems; or when used as a verb ('to interface'), the process of linking.

IP address
An IP (Internet Protocol) address is a unique computer address that enables electronic devices to communicate with and identify each other.

K

Kbps
Kilobits per second. A digital-data-rate measurement system which is often used with highly compressed formats such as AAC, DAB, MP3 etc. The higher the amount, the better the quality generally is.

kHz (kilo Hertz)
1000Hz or 1000 cycles per second.

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

M4A
The audio file format used by Apple in their iTunes Music Store often appears on your

system with the '.m4a' filename extension. M4A can produce better audio quality than MP3 using less physical space for the files.

MHz (Mega Hertz)
One million cycles per second.

Midrange
The middle three octaves (more or less) of the audio band, where the ear is most sensitive, usually between 160Hz-3kHz.

Mono (monaural)
The operation of an amplifier in one channel for both input and output. Can refer to an amplifier with only one channel of amplification or operating in bridged mode. For low-frequency amplification applications, it provides better phase coherence and less distortion than stereo operation.

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.

Mute
A control found on receivers, and some mixers or signal processing units that silences (mutes) a signal path, or output.

O

Ohm
Measure of resistance to current (impedance). The lower the impedance of a speaker, the harder it is to drive.

P

PCM (Pulse Code Modulation)
Pioneering form of digital recording.

R

RDS (Radio Data System)
RDS tuners can automatically tune in stations according to the types of music (or talk) they broadcast. RDS also enables a receiver to display text messages and even graphics (usually call letters and format information) that many FM stations include on a sub-carrier signal within their normal broadcast signal. Some RDS equipped tuners can even override with traffic alerts or emergency broadcasts, during playback of other media - CD MD, or cassette. There are other useful features too, many of which are offered by the growing number of RDS stations.

RF (radio frequency)
An alternating current or voltage with a frequency (or carrier wave) above about 100kHz. It is called radio frequency because these frequencies have a capacity to be radiated as electromagnetic waves by radio (and television) stations.

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.

RMS (Root Mean Square)
A formula that provides a reasonably accurate means to measure and compare continuous AC power. The use of this measure is preferred when matching system components, like amplifiers and receivers.

S

S/PDIF (SPDIF) (Sony/Philips Digital Interface)
A standard audio-file transfer-format that was developed jointly by Sony and Philips. S/

PDIF allows the transfer of digital audio signals from one device to another, without the need to convert first to analog. This prevents the quality of the digital signal degrading during transfer to analog.

Sampling rate
The precision with which a digital file describes the analog sound it represents. Basically, a lower rate produces files that sound worse and take up less drive space than those with a higher rate. CDs have a sampling rate of 44.1kHz, and DAT machines have a sampling rate of 48kHz. MiniDisc player/recorders with a built-in sampling rate converter can handle both rates.

Sensitivity
Volume that a speaker offers for a specific voltage input, expressed in decibels per watt (dB/W).

Shuffle
A feature that plays audio files (tracks) in random order.

Signal to noise ratio
Represents the difference between the level of the audio signal, and any interference. The larger the figure, the purer the sound.

SPL (sound pressure level)
An acoustic measurement of sound energy. 1 dB SPL is the smallest increment in sound level to which the average human is sensitive. Theoretically, 0 dB SPL is the threshold of human hearing while approximately 120 dB is the threshold of pain.

Stereo
Literally means solid. Usually taken to refer to two channel stereo, though developments in digital audio facilitate multichannel stereo.

Streaming
A technique for transferring data such that it can be processed as a steady and continuous stream. Streaming technologies are often used on the Internet because many users do not have fast enough access to download large multimedia files quickly, so the client browser or plug-in can start displaying the data before the entire file has been transmitted.

Subwoofer
The extra-low frequency drive-unit (loudspeaker) that can be used to augment both stereo and surround system.

T

Treble
High frequencies at the top end of the audio band i.e. above 3kHz.

Tweeter
The drive unit (loudspeaker) that reproduces high frequency sounds.

U

UPnP (Universal Plug and Play)
Universal Plug and Play is a networking architecture developed by a consortium of companies to ensure easy connectivity between products from different vendors. UPnP devices should be able to connect to a network automatically, handling identification and other processes on the fly. The standards developed by the UPnP Forum are media-, platform-, and device-independent.

USB (universal serial bus)
A hardware interface used to connect devices such as computer audio players, digital cameras, and more. USB is UPnP enabled (also called hot-swappable), meaning that a computer does not need to be turned off when new devices are plugged in and the devices do not need to be configured. USB supports data transfer rates of up to 60MB per second (in USB 2.0).

V

VBR (variable bit rate)
With VBR, the encoder takes as much bits as it needs. So black pictures get few bits and

complex pictures get as much as they need. While this provides the best quality the final size cannot be predicted at all.

Volume

Volume is the most common word used to specify the control of relative loudness of sounds. It also pertains to the function on many electronic devices that is used to control the loudness.

W

W (wattage)

A measurement of power. In speakers, wattage is a term that indicates power-handling characteristics in dealing with electrical voltage inputs from the amplifier.

WAP (Wireless Application Protocol)

Global protocol used in some wireless devices that allows the user to view and interact with data services. Generally used as a means to view Internet web pages using the limited transmission capacity and small display screens of portable wireless devices.

WAV

A format for sound files developed jointly by Microsoft and IBM. Built into Windows 95 to XP, which made it the de facto standard for sound on PCs. WAV sound files end with a '.wav' extension and works with nearly all Windows applications that support sound.

WEP (Wired Equivalent Privacy)

All 802.11b (Wi-Fi / wireless) networks use WEP as their basic security protocol. WEP secures data transmissions using 64-bit or 128-bit encryption; however, it does not offer complete security and is usually used in conjunction with other security measures such as EAP.

Wi-Fi

Wi-Fi (Wireless Fidelity) is a wireless technology brand owned by the Wi-Fi Alliance intended to improve the interoperability of wireless local area network products based on the IEEE 802.11 standards. Common applications for Wi-Fi include Internet and VoIP phone access, gaming, and network connectivity for consumer electronics such as televisions, DVD players, and digital cameras.

Wireless

Telecommunications using electromagnetic waves rather than wires or cable to transmit information. Wireless communication can be used for free-ranging mobile systems such as cell phones and global positioning systems (GPS), which use satellite technology. Wireless systems can also be fixed, such as LANs that provide wireless communications within a limited area (such as an office), or wireless peripherals such as mice and keyboards.

WMA (Windows Media Audio)

An audio format owned by Microsoft, is a part of Microsoft Windows Media technology. Includes Microsoft Digital Rights Management tools, Windows Media Video encoding technology, and Windows Media Audio encoding technology.

Woofer

The drive unit (loudspeaker) that reproduces the bass (low) frequencies.

WPA / WPA2 (Wi-Fi Protected Access)

A Wi-Fi standard that was designed to improve upon the security features of WEP. The technology is designed to work with existing Wi-Fi products that have been enabled with WEP (i.e. as a software upgrade to existing hardware), but the technology includes two improvements over WEP.

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