

Digital surround sound receiver

FR965/FR966
FR975/FR976



Let's make things better.



PHILIPS

Important notes for users in the U.K.

Mains plug

This apparatus is fitted with an approved 13 Amp plug.
To change a fuse in this type of plug proceed as follows:

- 1 Remove fuse cover and fuse.
- 2 Fix new fuse which should be a BS1362 5 Amp, A.S.T.A. or BSI approved type.
- 3 Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place. If the mains plug contains a fuse, this should have a value of 5 Amp. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5 Amp.

Note: The severed plug must be disposed of to avoid a possible shock hazard should it be inserted into a 13 Amp socket elsewhere.

How to connect a plug

The wires in the mains lead are coloured with the following code: blue = neutral (N), brown = live (L).

As these colours may not correspond with the colour markings identifying the terminals in your plug, proceed as follows:

- Connect the blue wire to the terminal marked N or coloured black.
- Connect the brown wire to the terminal marked L or coloured red.
- Do not connect either wire to the earth terminal in the plug, marked E (or $\perp$) or coloured green (or green and yellow).

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead - not simply over the two wires.

Copyright in the U.K.

Recording and playback of material may require consent. See Copyright Act 1956 and The Performer's Protection Acts 1958 to 1972.

Italia

DICHIARAZIONE DI CONFORMITA'

Si dichiara che gli apparecchi FR 965/966 e FR 975/976 Philips rispondono alle prescrizioni dell'art. 2 comma 1 del D. M. 28 Agosto 1995 n. 548.

Fatto a Eindhoven, il 01/03/2000 (FR 965/FR966)

Fatto a Eindhoven, il 01/04/2000 (FR 975/FR976)

Philips Consumer Electronics
Philips, Glaslaan 2
5616 JB Eindhoven, The Netherlands

Norge

Typeskilt finnes på apparatens bakside.

Observer: Nettbryteren er sekundert innkoplet. Den innebygde nettdelen er derfor ikke frakoplet nettet så lenge apparatet er tilsluttet nettkontakten.

For å redusere faren for brann eller elektrisk støt, skal apparatet ikke utsettes for regn eller fuktighet.

English4

English

Français.....26

Français

Español48

Español

Deutsch.....70

Deutsch

Nederlands92

Nederlands

Italiano.....114

Italiano

General information	
Scope of supply.....	4
Setup	4
Environmental information.....	4
Trademark acknowledgment.....	4
Controls	5
Remote control	
Remote control usage	6
Remote control buttons	7
Programming the universal remote control	8
Connectors	9
Connections	
Analogue audio connections	10
Digital audio connections	10
System control bus, CINEMA LINK	11
Video connections	11
Mains	12
Speaker connections	12
TV as the center speaker	12
Antenna connections	12
FRONT AV / GAME cap (FR 975 only)	12
System setup	
Positioning of the speakers	13
Speaker setup and testing	13
Power handling	13
Headphones	13
Maintenance	13
Display	14
Menus	
Receiver menu	15–16
TV menu	16
Source selection	
SOURCE SELECTOR	17
6 CHANNEL / DVD INPUT selection	17
Reassigning a source selection	17
Using one source selection for two or more appliances	17
About 6 CHANNEL / DVD INPUT	17
Playback, recording	
Playing a source	18
Adjusting the sound	18
Recording from a source	18
Recording from the digital output	18
Surround sound	
About surround sound	19
Switching surround sound	19
Surround sound settings	20
Tuner	
Tuning to radio stations	21
Switching FM sensitivity	21
Storing radio stations	21
Tuning to stored radio stations	22
Resorting stored radio stations	22
Naming radio stations	22
Clearing station names	22
RDS	23
RDS News and Traffic Announcement	23
Technical data	
Receiver	24
Troubleshooting	
Warning	25
Troubleshooting	25

This set complies with the radio interference requirements of the European Community.

Scope of supply

This receiver is supplied including:

- an universal remote control
- 2 batteries for the remote control, size AA
- a coaxial cable for audio connection with a DVD player
- a system bus cable for the CINEMA LINK connection
- a loop antenna
- a wire antenna
- this instruction booklet

Setup

If you have stacked the components of your system, the receiver must be on top. Place the receiver on a flat, hard, stable surface. Do not cover any vents and leave 50 cm above and 10 cm left and right of the receiver free for ventilation.

For good reception the loop antenna should not be placed on top of or beneath VCRs, CD recorders, DVD players, TVs and other radiation sources.

Environmental information

All redundant packing material has been omitted. We have done our utmost to make the packaging easily separable into three mono materials: cardboard (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet).

Your set consists of materials which can be recycled if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packing materials, exhausted batteries and old equipment.

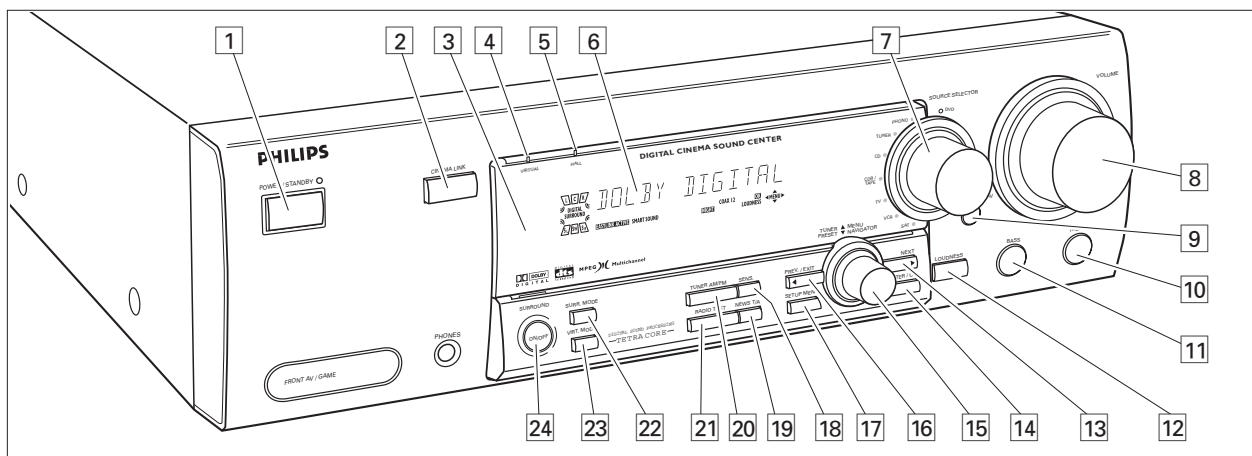
As an ENERGY STAR® partner, Philips has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.



Trademark acknowledgment

Manufactured under license from Dolby Laboratories. "DOLBY", "DOLBY DIGITAL", "PRO LOGIC" and the double-D symbol  are trademarks of Dolby Laboratories. Confidential unpublished works. © 1992–1997 Dolby Laboratories. All rights reserved.

"DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc. Copyright 1996 Theater Systems, Inc. All Rights Reserved.



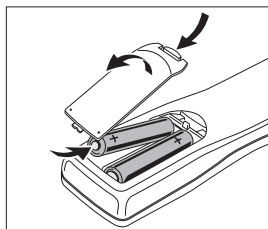
- 1 POWER / STANDBY**Switches the receiver on and off.
- 2 CINEMA LINK**Switches the system control bus between the receiver and the TV on and off.
- 3**Sensor for the infrared remote control.
- 4 VIRTUAL**Control light for virtual surround.
- 5 HALL**Control light for HALL.
- 6**Display
- 7 SOURCE SELECTOR**Selects the different audio and video connectors.
- 8 VOLUME**Increases and decreases the volume level.
- 9 FRONT AV**Selects the FRONT AV / GAME input (FR 975 only).
- 10 TREBLE**Adjusts the treble when used in combination with VOLUME.
- 11 BASS**Adjusts the bass when used in combination with VOLUME.
- 12 LOUDNESS**Switches LOUDNESS on and off.
- 13 NEXT ►**TUNER: searches radio stations. MENU: switches to the next menu level.
- 14 ENTER / OK**Confirms selected menu values.

- 15 TUNER PRESET ◄ MENU NAVIGATOR**
TUNER: switches to the next and previous stored radio station.
MENU: moves upwards and downwards.
- 16 ◄ PREV. / EXIT**TUNER: searches radio stations. MENU: switches to the previous menu level.
- 17 SETUP MENU**Switches the menu on and off.
- 18 SENS.**Switches between low and high tuner sensitivity.
- 19 NEWS/TA**Switches the RDS news and RDS traffic announcement on and off.
- 20 TUNER AM/FM**Switches the wavebands of the tuner.
- 21 RADIO TEXT**Scrolls through the different RDS information.
- 22 SURR. MODE**Switches through the different speaker configurations.
- 23 VIRT. MODE**Scrolls through the different virtual surround sound modes.
- 24 SURROUND ON/OFF**Switches between the last selected surround mode and stereo.

REMOTE CONTROL

Remote control usage

Open the battery compartment of the remote control and insert 2 alkaline batteries, type **AA** (R06, UM-3).



Remove batteries if they are flat or the remote control is not going to be used for a long time.

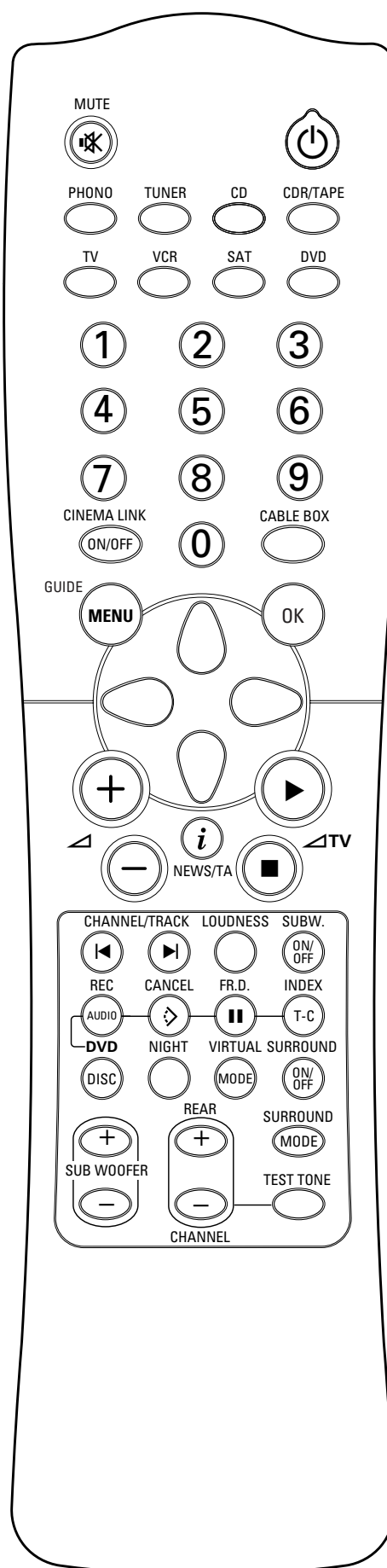
Batteries contain chemical substances, so they should be disposed of properly.

The buttons on the remote control work the same way as the corresponding ones on the receiver.

Important!

You have to press a source button for longer than 1 second to switch the sound source on the receiver. Pressing a source button for less than 1 second will only switch the remote control to use the commands for the selected product.

The remote control remains tuned to the selected source until another source button on the remote control is pressed. This enables you to operate additional sources (i. e. winding a tape) without changing the source on the receiver.



Remote control buttons

 MUTE	Mutes the sound of the receiver.	REC, DVD AUDIO	CDR, VCR: Starts recording. DVD: Switches audio tracks.
	Switches the receiver to standby.	CANCEL, DVD 	CD, CDR, SAT, VCR: Clears a program, cancels selections. DVD: Switches the view angle.
PHONO, TUNER, CD, CDR/TAPE, TV, VCR, SAT, DVD.....	Switches the remote control to the commands of the different products. Selects the sources if pressed longer than 1 second. SAT only works with <i>digital</i> satellite receivers.	FR.D., DVD 	TUNER: Switches to FREQUENCY DIRECT. CD, CDR, VCR, DVD: Pauses playback.
1-0.....	Keys in numbers for tracks, stations or frequencies. Numbers consisting of two figures must be keyed in within 2 seconds.	INDEX, DVD T-C.....	VCR: Switches the index search on and off. SAT: Switches the themes on and off. DVD: Switches between title and chapter.
CINEMA LINK ON/OFF.....	Switches the system connection between the receiver and the TV on and off.	DISC.....	CD-, CDR-, DVD-Changers: Switches to the next disc.
CABLE BOX.....	Without function.	NIGHT	Switches NIGHT MODE on and off.
MENU GUIDE	TUNER: Switches the receiver menu on and off. DVD, TV: Switches the DVD/TV menu on and off.	VIRTUAL MODE.....	Scrolls through the different virtual surround sound modes.
OK.....	Confirms menu options.	SURROUND ON/OFF	Switches SURROUND SOUND on and off.
Arrow buttons	TUNER: Moves in the menus. Right/left arrows are tuning up/down. CD, CDR: Left/right arrows are searching backwards/forwards, up/down arrows are selecting the next/previous track.	+ / - SUBWOOFER.....	Increases/decreases the subwoofer volume.
+ 	Increases the receiver volume.	+ / - REAR	Increases/decreases the volume of the rear speakers. While test tone is on, the volume of the speakers you are hearing can be increased/decreased with these buttons.
- 	Decreases the receiver volume.	SURROUND MODE.....	Scrolls through the different surround modes.
 NEWS/TA.....	Switches the functions NEWS and TRAFFIC ANNOUNCEMENT on and off. TV: Switches teletext on and off. SAT: Switches the information text on and off.	TEST TONE	Switches the test tone on and off. While test tone is on, the volume of the speakers you are hearing can be increased/decreased with + / - REAR.
  TV	Increases the TV volume.		
  TV	Decreases the TV volume.		
 CHANNEL/TRACK	Selects the previous preset tuner station. VCR: Rewinds the tape. CD, CDR, DVD: Selects the previous track. TV: Selects the previous channel.		
 CHANNEL/TRACK	Selects the next preset tuner station. VCR: Fast forwards the tape. CD, CDR, DVD: Selects the next track. TV: Selects the next channel.		
LOUDNESS	Switches LOUDNESS on and off.		
SUBW. ON/OFF	Switches the subwoofer on and off.		

Programming the universal remote control

You can identify the universal remote control by the inscription **Multibrand/Universal**.

The universal remote control must be programmed to use the codes for your appliances of different brands. This is done by keying in a 4-digit code or by scanning the codes until the correct one is found. We recommend to using the 4-digit code. This method is faster and more reliable. The code scanning method should only be used if you cannot find the code for one of your appliances. The code table can be found at the end of the booklet.

Important!

The buttons of the remote control must be used for programming, not the buttons of the receiver or other appliances.

Programming with the 4-digit code

- 1 Keep the source button for the appliance which should be controlled and  pressed for 3 seconds.
- 2 Key in the 4-digit code for the appliance (codetable at the end of the booklet).

Notes: – If more than 4 digits are entered, the remote control will recognize only the ones keyed in first.
 – If you do not key in a code within 30 seconds the remote control will switch off the programming function without changing the code.
 – To program a new appliance, simply overwrite the old code by entering a new one.

Scanning the codetable

- 1 Switch on the appliance which should be controlled.
 - 2 Keep the source button for the appliance which should be controlled and  pressed for 3 seconds.
 - 3 Press and release  again.
 → The remote control sends the codes for channel up or standby (depending on the selected source) for one brand after the other.
 - 4 As soon as the appliance reacts – switches to the next channel or to standby – press  to confirm the code.
 → The identified code will be used.
- If the set does not react within 2 minutes, the code for this appliance is not stored in the remote control. The code of the remote control will remain unchanged.

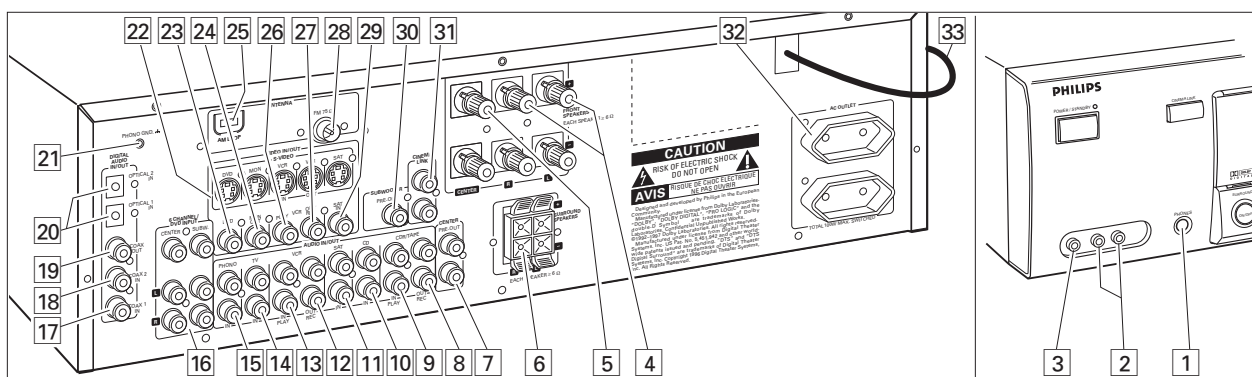
Note: When taking out the batteries of the remote control for more than 1 minute the codes must be reprogrammed.

Once you have found and tested the codes for your various appliances, you may want to write them down here.

PHONO
 TUNER.....
 CD
 CDR/TAPE
 TV
 VCR
 SAT
 DVD

Resetting the remote control

- 1 Keep one of the source buttons and  pressed for 3 seconds.
- 2 Key in the 3-digit code 981.
 → The remote control is now reset to all its original Philips codes.

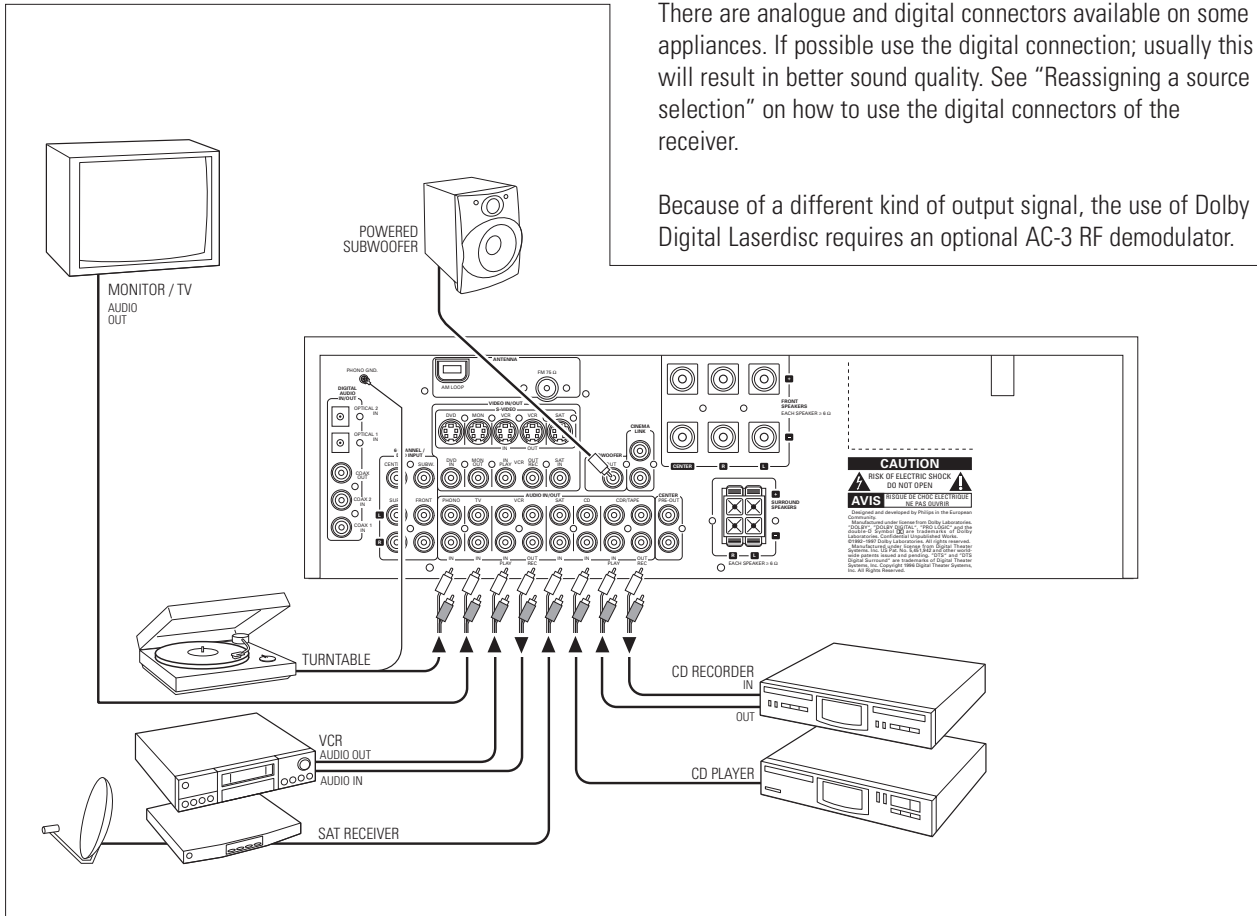


Connectors	Connectors name	Connect to:
6.3 mm headphone socket at the front	1 PHONES	A headphone with a 6.3 mm plug.
Audio and video inputs at the front (FR 975 only)	2 FRONT AV / GAME	Left and right audio out sockets of appliances such as video cameras and game consoles.
	3 FRONT AV / GAME	Video out sockets of appliances such as video cameras and game consoles.
FRONT SPEAKERS	4 R, L	Right and left front speaker.
	5 CENTER	Center speaker.
SURROUND SPEAKERS	6 R, L	Right and left surround speaker.
AUDIO IN/OUT	8 CDR/TAPE OUT	Input of a CD recorder or a tape deck.
	9 CDR/TAPE IN	Output of a CD recorder or a tape deck.
	10 CD IN	Output of a CD player.
	11 SAT IN	Output of a satellite system.
	12 VCR OUT	Input of a video recorder.
	13 VCR IN	Output of a video recorder.
	14 TV IN	Output of a TV.
	15 PHONO IN	Output of a turntable with MM coil.
	21 PHONO GND	Ground cable of a turntable.
6 CHANNEL / DVD INPUT	16 6 CHANNEL / DVD INPUT	6 channel output of appliances such as DVD or laserdisc players.
DIGITAL AUDIO IN/OUT	17 COAX 1 IN	Coaxial output of digital appliances (default input for source DVD).
	18 COAX 2 IN	Coaxial output of digital appliances.
	19 COAX OUT	Coaxial input of digital appliances such as CD recorders or MD recorders.
	20 OPTICAL IN	Optical output of digital appliances such as DVD players, CD players, CD recorders or MD players (FR 965 only).
	20 OPTICAL 1 (2) IN	Optical output of digital appliances such as DVD players, CD players, CD recorders or MD players (FR 975 only).
VIDEO IN/OUT	22 S-VIDEO	S-Video inputs/outputs of video appliances for better video quality (FR 975 only).
	23 DVD IN	Output of a DVD player.
	24 MON OUT	Input of a monitor (e. g. the TV).
	26 VCR IN	Output of a video recorder.
	27 VCR OUT	Input of a video recorder (for recording).
	29 SAT IN	Output of a satellite system.
Antenna connectors	25 AM LOOP	Frame antenna supplied.
	28 FM 75 Ω	Wire antenna supplied or exterior antenna.
Preamplified outputs	7 CENTER PRE-OUT	Input of a TV when it is used as the centre speaker (only possible when the CINEMA LINK system bus is connected).
	30 SUBWOOFER PRE-OUT	Input of a powered subwoofer.
System control bus	31 CINEMA LINK	System control bus sockets of a Philips TV with CINEMA LINK.
Mains outlets (not on all versions)	32 AC OUTLET	Supplies same voltage as mains. Up to 100 W total permitted load.
Mains lead	33	After all other connections have been made , connect the mains lead to the wall socket.

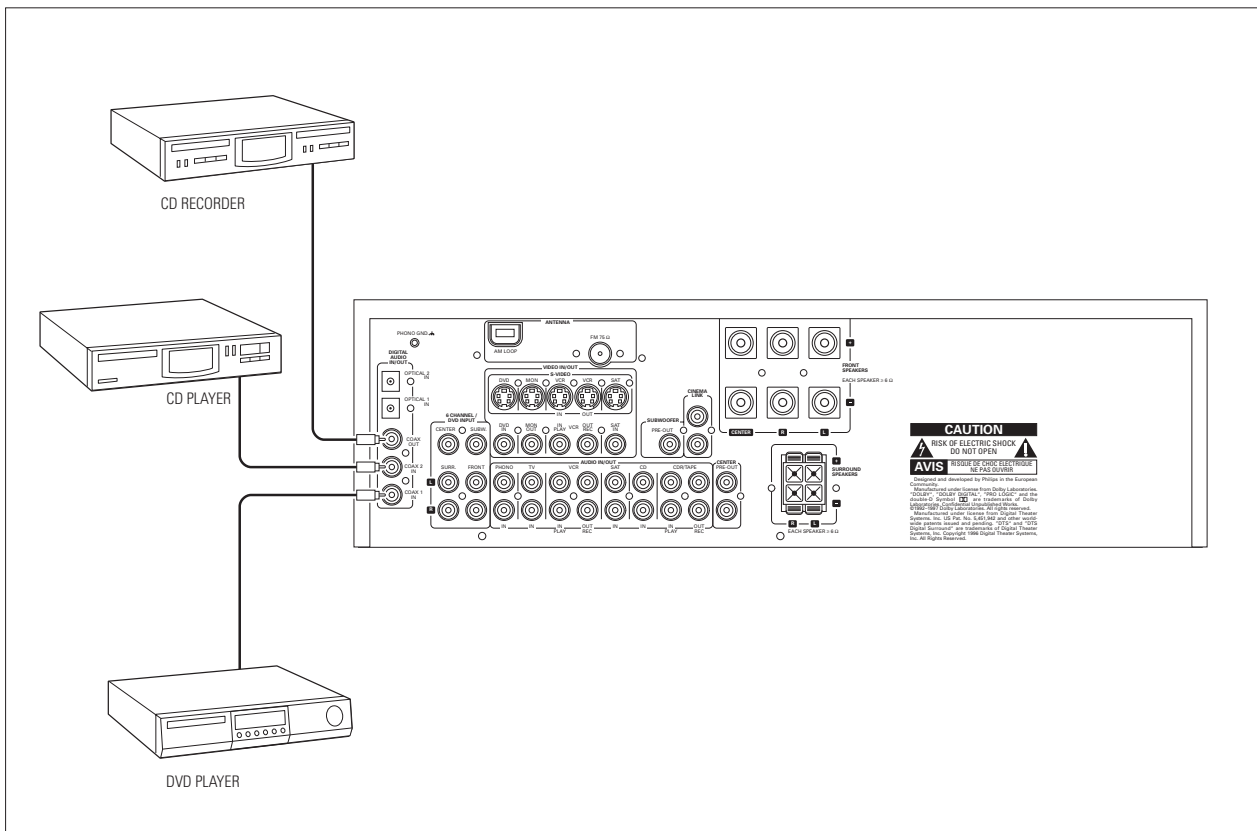
CONNECTIONS

English

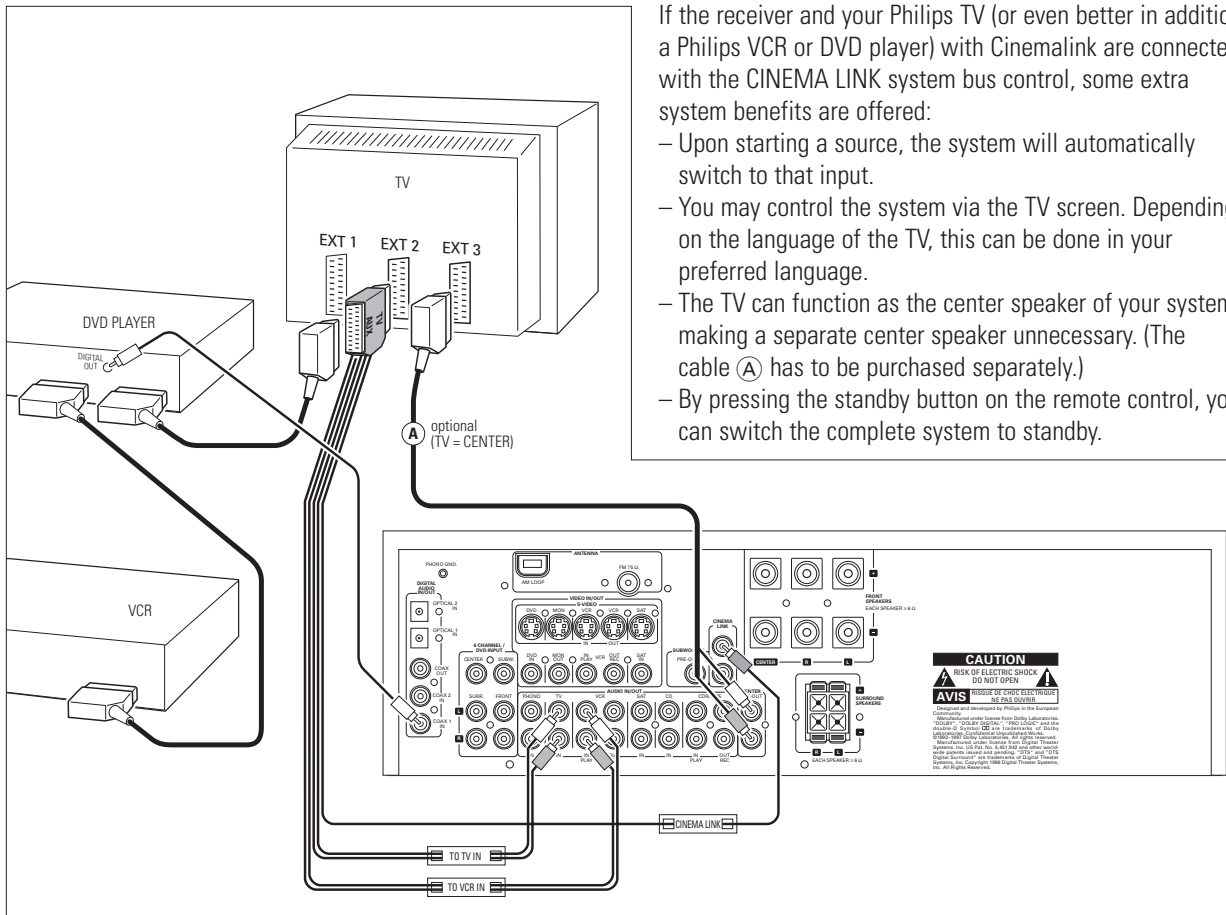
Analogue audio connections



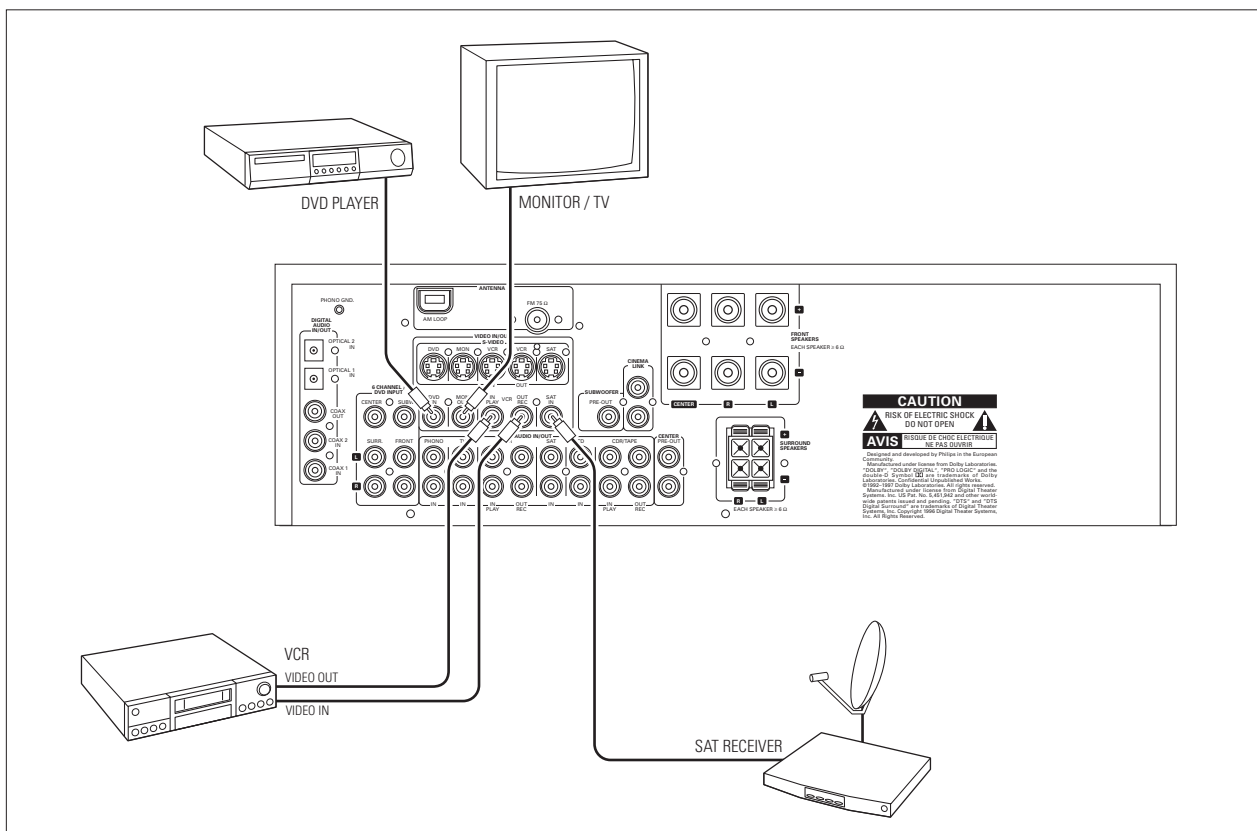
Digital audio connections



System control bus, CINEMA LINK



Video connections



CONNECTIONS

Mains

The type plate is located on the rear of the receiver.

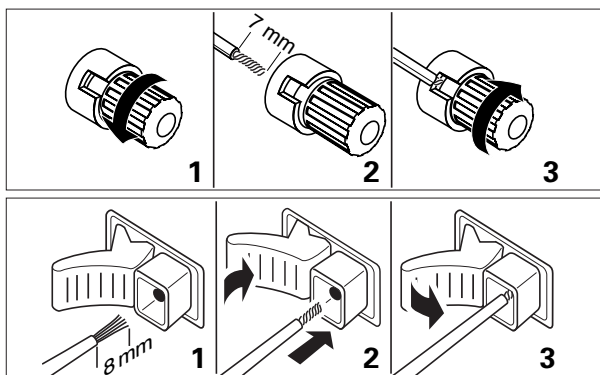
- 1 Check whether the mains voltage as shown on the type plate corresponds to your local mains voltage. If it does not, consult your dealer or service organization.
- 2 Connect the mains cable to the wall socket.

To disconnect the set from the mains completely, remove the mains plug from the wall socket.

For users in the U. K.: please follow the instructions on page 2.

Speaker connections

Some of the speaker connections on the receiver are screw connectors and some are click-fit connectors. Use them as shown below.



- 1 Always connect the coloured (or marked) wire to the coloured terminal and the black (or unmarked) wire to the black terminal.
- 2 Connect:
 - Left front speaker to L (red and black)
 - Right front speaker to R (red and black)
 - Center speaker to CENTER (blue and black)
 - Left surround speaker to SURROUND L (grey and black)
 - Right surround speaker to SURROUND R (grey and black)

TV as the center speaker

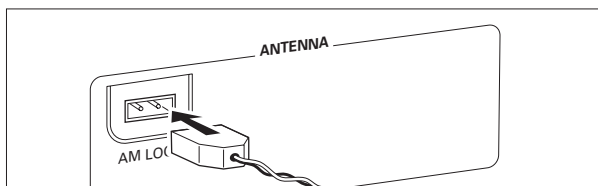
You may use your Philips TV with CINEMA LINK as the center speaker. For TVs with a scart connector an additional audio cinch-to-scart cable is needed. For TV's with cinch connectors additional cinch cables are needed. These cables must be connected to the blue CENTER PRE-OUT connector on the back. Look into the instruction manual of your TV on how to use it as the center speaker.

Antenna connections

AM (MW) antenna

The loop antenna supplied is for indoor use only. Position the antenna as far away as possible from the receiver, the TV, the cables, a DVD player, a VCR and other radiation sources.

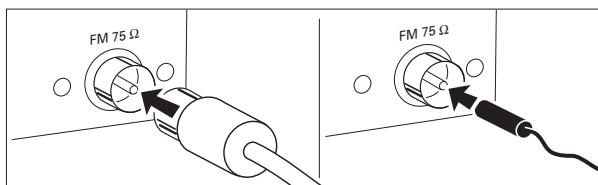
- 1 Fit the plug of the frame antenna to AM LOOP as shown below.
- 2 Turn the antenna for optimum reception.



FM antenna

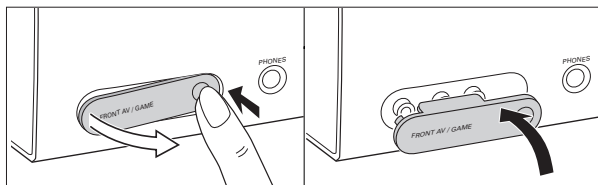
The wire antenna supplied can only be used to receive nearby stations. For better reception we recommend using a cable antenna system or an outdoor antenna.

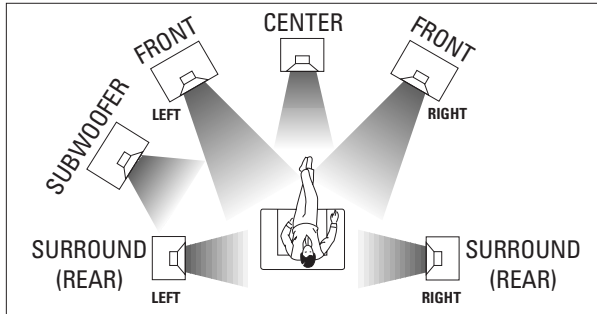
- 1 Fit the supplied wire antenna to FM 75 Ω as shown below.
 - 2 Move the antenna in different positions for optimum reception.
- If you are using a cable antenna system or an outdoor antenna, fit the antenna plug to FM 75 Ω instead of the wire antenna.



FRONT AV / GAME cap (FR 975 only)

- To remove the FRONT AV / GAME cap, press on the right side of the cap.
- Insert the cap from below to close the compartment.





Positioning of the speakers

General hints for positioning

Avoid positioning the speakers in a corner or on the floor as this will boost the bass tones too much. Placing the speakers behind curtains, furniture, etc. will reduce the treble response. The listener should always be able to "see" the speakers.

Each room has different acoustic characteristics and the positioning possibilities are often limited. You can find the best position for your speakers by referring to the picture above.

As a minimum we recommend 5 speakers (2 front, a center, 2 surround) for good surround sound. It is possible to reproduce some kind of surround sound with fewer speakers. This is done by redirecting the signals which are foreseen for the missing speakers to the existing ones. See "Menus" on how to set up the receiver correctly for the number and size of the speakers used.

Positioning the front speakers

The front speakers should be placed right and left in front of the listening position like usual stereo speakers.

Positioning the center speaker

The center speaker should be placed in the center between the two front speakers, e. g. underneath or on top of the TV. The best height for the center speaker is the height of the listener's ears (while seated).

Positioning the surround speakers

The surround speakers should face each other and be in line with, or slightly behind the listener.

Positioning the subwoofer

A subwoofer can be used to enhance the bass performance of your system dramatically. The subwoofer can be positioned anywhere in the room, because it is not possible to locate the source of deep tones. Nevertheless, you should not place the subwoofer in the middle of a room, since the bass could be severely weakened. Do not place any object on the subwoofer.

Speaker setup and testing

The relative volume of the speakers must be adjusted for optimal surround sound. You should be at your usual listening position when adjusting the speaker volume. See "Receiver menus" on how to set up the receiver for the used speakers. Ideally, the volume in the listening position should be the same from all speakers.

- 1 Press POWER / STANDBY to switch on the receiver.
- 2 Press TEST TONE on the remote control.
 - ➔ A test tone coming from the different speakers, except the subwoofer, is heard.
- 3 Press + / - REAR on the remote control to increase/decrease the volume of the actual speaker. The best result is achieved when all speakers have equal volume in the listening position.
- 4 Press TEST TONE on the remote control.
 - ➔ The test tone stops.

Note: If you are not completely satisfied with the volume settings, we recommend making minor adjustments to them during surround sound playback.

Power handling

If the receiver is used at very high power it can produce distortions which may seriously damage your speakers. If distortions occur, reduce the volume and the tone controls to a level where the sound is acceptable again.

To avoid overheating of the set a safety circuit has been built in. Therefore your set may disconnect under extreme conditions. If this happens, switch the set off and let it cool down before reusing it.

Headphones

Connecting headphones to PHONES will switch off the speakers. The receiver switches to STEREO and surround sound will be reduced to a stereo signal which is reproducible by standard headphones.

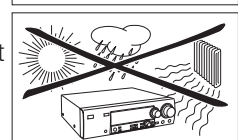
Disconnecting the headphones switches on the speakers again. If you wish to enjoy surround sound again, switch the receiver back to surround sound.

Maintenance

Clean the receiver with a soft, slightly dampened, lint-free cloth. Do not use any cleaning agents as they may have a corrosive effect.



Do not expose the receiver to humidity, rain, sand or excessive heat (caused by heating equipment or direct sunlight).



The display of the receiver is divided into 4 sections, which are to be used for the following:

 DIGITAL SURROUND

PRESET SENS HILO STEREO EON TA NEWS AMA COAX I2 OPT I2 LOUDNESS

CINEMA LINK ON RDS HALL DOWNMIX

5.1virtual surround sound
SURROUNDsurround sound is reproduced
DIGITAL SURROUNDdigital surround sound is reproduced
L, Rfront left and right speaker
Ccenter speaker
SL, SRsurround speakers
SWsubwoofer

DIGITAL SURROUND

 PRESET SENS HILO STEREO

CINEMA LINK ON

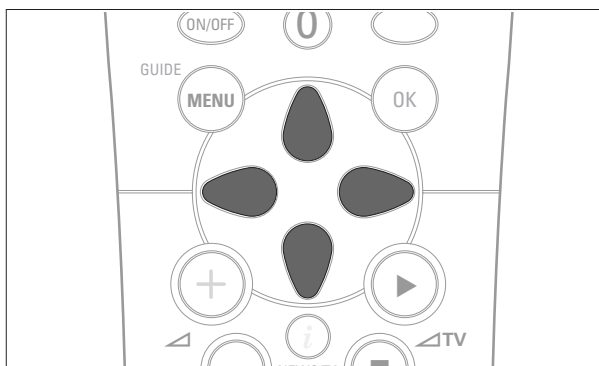
 EON TA NEWS ANA

RDS HALL NIGHT

COAX I2 OPT I2

DOWNMIX LOUDNESS

MENU	menu is on
◀.....	You may move backwards to the previous menu topic using ◀ PREV. / EXIT ("left" key on the remote control).
▲.....	You may move up in an option list using ♦ MENU NAVIGATOR ("up" key on the remote control).
▼.....	You may move down in an option list using ♦ MENU NAVIGATOR ("down" key on the remote control).
▶.....	You may move forward to the next menu topic using NEXT ▶ ("right" key on the remote control).
OK.....	You may confirm the displayed value.



 DIGITAL SURROUND

PRESET SENS HILO STEREO TA NEWS ANA OPT 12

CINEMA LINK ON NIGHT

MENU

PRESET	Tuner is tuned to a preset radio station.
SENS HI	Tuner is switched to high sensitivity.
SENS LO	Tuner is switched to low sensitivity.
CINEMA LINK ON	CINEMA LINK is active
STEREO	An FM station is being received in stereo.
 RDS	An RDS station is being received.
EON	An RDS station with EON is being received.
HALL	HALL effect is on.
TA	RDS traffic announcement is on
NEWS	RDS news announcement is on
ANA	Analogue input is being used for the playing source.
NIGHT	NIGHT MODE is on.
COAX 1	Coaxial digital input COAX 1 is being used for the playing source.
COAX 2	Coaxial digital input COAX 2 is being used for the playing source.
DOWNMIX	Incoming multi channel signals are being reduced to fewer output signals (depending on the number of speakers).
OPT	Optical digital input OPTICAL IN is being used for the playing source (FR 965 only).
OPT 1	Optical digital input OPTICAL 1 IN is being used for the playing source (FR 975 only).
OPT 2	Optical digital input OPTICAL 2 IN is being used for the playing source (FR 975 only).
LOUDNESS	LOUDNESS is switched on.

PRESET SENS HILO STEREO EON TA NEWS ANA COAX I2 OPT I2

CINEMA LINK ON RDS HALL NIGHT DOWNMIX LOUDNESS

14

Receiver menu

The receiver is equipped with a menu system. The menu is used for the setup of the receiver. The different menu options are related to each other in a logical way. Let's assume you have no center speaker connected, and therefore switched *CENTER SPEAKR* to *NO*. If you try to use *VOL CENTER*, a message will be scrolled that this is not possible (*INSTALL CENTER SPEAKER*).

The menu always works the same way. Arrows in the display show you the possible moving directions.

- 1 Press **SETUP MENU**.
→ **MENU**, and * *EFFECTS* is displayed.
- **You can exit the menu at any time by pressing SETUP MENU.**
- 2 Turn **◀ MENU NAVIGATOR** until the desired option (or a value) is displayed.
- 3 Press **NEXT ▶** to choose the displayed option (or **ENTER / OK** to confirm a value).
- You can leave any option (values remain unchanged) by pressing **◀ PREV. / EXIT**.

Menu structure

- * *EFFECTS*
Switches sound effects.
 - *VIRT SURR*
virtual surround: 0...100 %
- * *VOL BALANCE*
Adjusts the relative volume balance between the connected speakers.
 - *TEST TONE*
Test tone: on/off
 - *VOL FRONT-L*
Volume front left speaker: -50...+50
 - *VOL FRONT-R*
Volume front right speaker: -50...+50
 - *VOL CENTER*
Volume center speaker: -50...+50
 - *VOL REAR-L*
Volume rear left speaker: -50...+50
 - *VOL REAR-R*
Volume rear right speaker: -50...+50
 - *VOL SUBWOOFER*
Volume subwoofer: -50...+50

Note: When using the 6 CHANNEL / DVD INPUT the values below cannot be changed.

- * *SPEAKR SETUP*
Selects the used speakers.
 - *SUBW PRESENT*
Subwoofer present: yes/no
 - *CENTER SPEAKR*
Center speaker present: yes/no
 - *REAR SPEAKER*
Rear speakers present: yes/no
- * *SPEAKR SIZES*
Chooses the speaker sizes of the used speakers, for optimal sound reproduction. *LARGE* indicates a speaker which can reproduce frequencies lower than 50 Hz. If *SUBW PRESENT* is set to *NO*, *FRONT SIZE* can only be set to *LARGE*. If *FRONT SIZE* is set to *SMALL*, *CENTER SIZE* can only be set to *SMALL* and consequently a subwoofer must be connected.
 - *FRONT SIZE*
Left and right front speakers: small/large
 - *CENTER SIZE*
Center speaker: small/large
 - *REAR SIZE*
Rear speakers: small/large
- * *SPK DISTANCE*
Distance between the usual listening position and the speakers. This defines the delay time for the surround sound.
 - *DISTANCE L/R*
Distance to front speakers: 1...10 m
 - *DISTANCE CNTR*
Distance to center speaker: 1...10 m
 - *DISTANCE REAR*
Distance to rear speakers: 1...10 m

* SELECT INPUT

Assigns the audio input connectors to the different source selections chosen with SOURCE SELECTOR (see "SOURCE SELECTION" for details).

- COAX 1
Digital coaxial input 1, COAX 1 IN
- COAX 2
Digital coaxial input 2, COAX 2 IN
- OPT (FR 965 only)
Digital optical input, OPTICAL IN
- OPT 1 (FR 975 only)
Digital optical input, OPTICAL 1 IN
- OPT 2 (FR 975 only)
Digital optical input, OPTICAL 2 IN
- SAT IN
Analogue audio input SAT IN
- VCR IN
Analogue audio input VCR IN
- TV IN
Analogue audio input TV IN
- CDR IN
Analogue audio input CDR IN
- CD IN
Analogue audio input CD IN
- 6 CH IN
Analogue audio input 6 CHANNEL / DVD INPUT

* TUNER

Setup for preset radio stations (see "TUNER" for details).

- AUTO INSTALL
Stores radio stations automatically
- MAN INSTALL
Stores radio stations manually
- GIVE NAME
Allows to assign names to stored radio stations
- RESHUFFLE
Resorts stored radio stations

TV menu

If the receiver is connected to a Philips CINEMA LINK TV via the CINEMA LINK system control bus sockets (see "CONNECTIONS"), you may use the TV to set up the system. An option called RECEIVER will be added to the TV menu.

If CINEMA LINK is on, adjustments on the receiver will be shown on the TV screen for a few seconds. Consult the instruction booklet of your TV on how to use the TV menu. The options offered may vary by TV model.

Switching the connection

- Press CINEMA LINK to switch the connection between the receiver and the TV either on or off.
 - If the connection is switched on, **CINEMA LINK ON** is displayed.

Note: We recommend switching CINEMA LINK off during recording. This avoids unwanted interruptions due to switching TV functions.

If CINEMA LINK is switched on and the TV menu is active, **TV MENU** is displayed and the menu and sound functions on the receiver are locked.

SOURCE SELECTOR

When selecting a source by turning SOURCE SELECTOR, the audio and video inputs with the corresponding name are activated. The incoming signal is reproduced by all audio and – if the source includes a video signal – video outputs of the receiver. It is possible to reassign a source selection to other than these standard inputs.

Source selected Connectors used

DVD.....	COAX 1 digital audio input and DVD IN video input
PHONO.....	PHONO IN audio input
TUNER	The tuner part of the receiver is used, all inputs are switched off.
CD	CD IN audio input
CDR/TAPE.....	CDR/TAPE IN audio input
TV.....	TV IN audio input and no video input
VCR	VCR IN audio input and VCR IN video input
SAT	SAT IN audio input and SAT IN video input

6 CHANNEL / DVD INPUT selection

The 6 CHANNEL / DVD INPUT connectors can be assigned to any of the available sources (excluding TUNER and PHONO). The assignment can be done via the * *SELECT INPUT* option in the menu. See below for more details.

Reassigning a source selection

If a source is selected with SOURCE SELECTOR the standard audio input is used. To change this, the source selection must be reassigned to another audio input.

Example: Reassigning **CD** from the analogue CD IN audio input to the digital COAX 2 IN audio input.

- 1 Choose * *SELECT INPUT* from the menu and press NEXT ►.
- 2 Turn SOURCE SELECTOR to select the source which should be reassigned (e. g. **CD**).
→ The name of the source is displayed and the light of the source flashes.
- 3 Turn **◆** MENU NAVIGATOR to select the input connectors which should be used (e. g. **CD** → **COAX 2**).
- 4 Press ENTER / OK to confirm your selection.
→ **STORED** is displayed briefly.
- 5 This source selection is now using the chosen audio input (e. g. **CD** uses the COAX 2 IN input connectors, **COAX 2** lights when switching to CD).

Using one source selection for two or more appliances

You may assign more than one source to a source selection. This can be useful when products are connected one after the other in a chain.

Example: A VCR is connected to the TV but only the TV is connected to the receiver. Both SOURCE SELECTOR settings, TV as well as VCR, have to use the TV input connectors.

- 1 Choose * *SELECT INPUT* from the menu and press NEXT ►.
- 2 Turn SOURCE SELECTOR to select the source which should be reassigned (e. g. **VCR**).
→ The name of the source is displayed and the light of the source flashes.
- 3 Turn **◆** MENU NAVIGATOR to select the input connectors which should be used (e. g. **VCR** → **TV IN**).
- 4 Press ENTER / OK to confirm your selection.
→ **STORED** is displayed briefly.
- 5 This source selection is now using the chosen audio input (e. g. **VCR** uses the TV IN input connectors, **VCR (TV IN)** is displayed briefly when switching to VCR).

About 6 CHANNEL / DVD INPUT

The 6 CHANNEL / DVD INPUT can be used to connect a device with a built-in multichannel decoder (e.g. Dolby Digital, DTS, etc.) and 6-channel output connector, i. e. a high end DVD player.

When using the 6 CHANNEL / DVD INPUT audio input, the receiver works as a multichannel amplifier. The source reproduces surround sound and sends it to the receiver divided into the necessary channels. Therefore the SURROUND ON/OFF, HALL and SURR. MODE button have no effect since the provided signal is already multichannel.

From a source which is connected to the 6 CHANNEL / DVD INPUT audio input cannot be recorded.

Playing a source

- 1 Press POWER / STANDBY to switch on the receiver.
- 2 Turn SOURCE SELECTOR to select a source.
→ The name of the source is displayed.
- You can select the FRONT AV / GAME input by pressing FRONT AV (FR 975 only).
- 3 Start playback of the source as usual.

Adjusting the sound

- Turn VOLUME to adjust the volume.
→ VOLUME and the volume level between 0 and 50 is displayed.
- 1 Press BASS or TREBLE.
→ BASS or TREBLE and the actual value are displayed briefly. Then TURN VOLUME KNOB TO CHANGE is scrolled.
- 2 Turn VOLUME to adjust the bass or treble.
→ BASS or TREBLE and the actual value are displayed.

Note: If VOLUME is not turned within 5 seconds or if any other control is used, the bass or treble adjustment is switched off.

- If a subwoofer is connected, press SUBW. ON/OFF to increase the bass performance.

Note: In case of digital surround sound, a subwoofer signal will only be available when supported by the source material.

- Press LOUDNESS to switch loudness either on or off.
→ LOUDNESS is displayed if loudness is on.

Recording from a source

If you wish to record from a source you must select it with SOURCE SELECTOR. The incoming signal is reproduced by all audio and – if the source includes a video signal – video outputs of the receiver. The sound settings do not affect the recording.

- 1 Turn SOURCE SELECTOR (or press FRONT AV – FR 975 only) to select the source you want to record from.
→ The name of the source is displayed.
- 2 Prepare the desired recording appliance. It must be connected to one of the outputs of the receiver.
- 3 Start recording on the recording appliance.
- 4 Start the playback of the source as usual.

Notes: – The audio and video signal of VCR IN is not reproduced by VCR OUT. The same applies to the audio signal of CDR/TAPE IN to CDR/TAPE OUT.
– We recommend not to use the digital output COAX OUT of the receiver to record from an analogue source. Use the analogue output CDR/TAPE instead.
– From a source which is connected to the 6 CHANNEL / DVD INPUT audio input cannot be recorded.

Recording from the digital output

It is possible to connect a digital recorder to the digital output of the receiver. In this way, all signals coming from the digital inputs can be recorded directly on the connected audio recorder. The receiver will also convert all signals coming from the analogue inputs to the digital output.

The receiver can be used to record digitally a multichannel surround sound audio signal (Dolby Digital, DTS or MPEG) from, for example, DVD to CD-R. The receiver will convert the digital multichannel signal into a stereo signal without loss of relevant sound information.

Notes: – When recording a Dolby Digital, DTS or MPEG signal, each track must be recorded individually.
– Digital recording is not possible when the digital source material is copy-protected.

About surround sound

Surround sound gives you a complete new listening sensation. You will have the feeling of being in the middle of the action, because sound is coming from everywhere around you. Look out for TV broadcasts, audio and video tapes and discs with the , ,  or  **Multichannel** marks which are encoded for multichannel surround sound. You should prefer Dolby Digital, DTS or MPEG Multichannel to get the best out of your receiver.

The FR 965 and FR 975 are able to reproduce DTS surround sound. DTS is a premium multichannel surround sound system available on DVD discs, laserdiscs and audio discs. Consult your software dealer on the availability of DTS software in your region.

Notice that DVD discs do not always carry full multichannel surround. To be sure that a disc is multichannel encoded consult your dealer.

Most ordinary stereo tapes and discs can be replayed using surround sound settings with good results. If the reproduction is distorted in surround mode, switch to normal stereo mode.

The availability of the various surround sound modes described depends on the number of speakers used and the incoming sound information.

Switching surround sound

With surround sound on, you can switch through the different surround modes. Note that the possibilities are related to speaker setup defined in the receivers menu.

If a digital surround signal is detected, the receiver will scroll either *DOLBY DIGITAL*, *DTS* or *MPEG*.

- 1 Press SURROUND ON/OFF to switch on the surround sound.
→ The surround mode in use is scrolled.
- 2 Press SURR. MODE repeatedly to listen to the different surround modes (if available).
→ The chosen mode and the speakers used are displayed.
If the incoming multichannel signals are reduced to fewer output signals, **DOWNMIX** is displayed.
- 3 Press VIRTUAL MODE as often as necessary to switch through the virtual surround sound modes:
1 × to activate *3D SURROUND*
2 × to activate *MULTI FRONT*
3 × to activate *MULTI REAR*
4 × to activate *NATURAL SURROUND*
→ A light indicates if a virtual surround sound mode is on.
 -signs indicate which virtual surround sound mode is active.
- 4 Press SURROUND ON/OFF to switch off the surround sound.
→ *SURROUND OFF* is scrolled.

Surround sound settings

HALL

The sound reproduction is enhanced and a slight echo is added. This gives the impression of being in a large room. Can only be used in stereo mode.

SURROUND

The surround mode enables normal surround sound reproduction with 4 or 5 speakers. Depending on the source material, Dolby Surround Pro Logic, Dolby Digital, DTS or MPEG is reproduced.

PRO LOGIC, DOLBY DIGITAL, DTS, MPEG

In addition to **SURROUND**, the surround mode used – depending on the source material – will be displayed. In case of digital surround, the sound format AC-3 (for Dolby Digital), DTS or MPEG (for MPEG 2 Multichannel) will be displayed, followed by the sound channels, available on the source (e. g. DVD).

Example: **AC-3 3/2.1** Dolby Digital, 3 front channels, 2 surround channels and a subwoofer channel.
MPEG 2/0.0 MPEG Multichannel, stereo sound only.
AC-3 3/1.0 Dolby Digital, 3 front channels, 1 (mono) surround channel without subwoofer signal.
DTS 3/2.1 DTS, 3 front channels, 2 surround channels and a subwoofer channel.

FRONT-3 STEREO

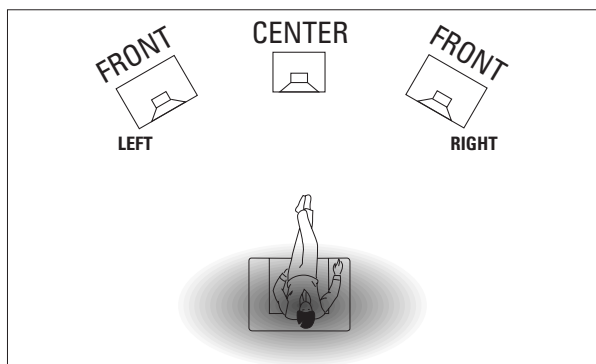
The surround sound is muted. 3 Stereo lets you listen to surround sound without using the surround speakers.

STEREO

All sound is reproduced and played through the front left and right speakers. This enables standard stereo reproduction.

Virtual Surround

Your receiver is able to reproduce one or more forms of virtual surround sound. Virtual surround gives a more real life sound impression by creating phantom speakers in addition to or instead of real speakers. The position of the listener influences the surround effect. The area where the effect is best is shown in grey.



The level of virtual surround sound effect can be adjusted in the setup menu. The following surround sound modes are available:

3D SURROUND

No rear speakers are needed. The sound of the rear channel is simulated by the front speakers. Surround sound is simulated through the front left, right and center speakers.

MULTI FRONT

Phantom speakers are created next to the left and right front speaker.

MULTI REAR

Phantom speakers are created next to the left and right rear speaker.

NATURAL SURROUND

Phantom speakers are created next to the left and right front and rear speakers.

*Note: The availability of **MULTI FRONT** and **MULTI REAR** depends on the sound channels on the source material.*

NIGHT MODE (only on the remote control)

The loud parts of the sound are lowered and the soft passages are raised. You can enjoy surround sound without disturbing sleeping children or neighbours. Night mode only works with Dolby Digital and MPEG, and only if supported by the source material.

Tuning to radio stations

You can search for radio stations by scanning the frequency band. You can also key in the frequency of a known radio station. If an FM station is being broadcast and received in stereo, **STEREO** is shown.

Searching for radio stations

- 1 Turn SOURCE SELECTOR to select the tuner.
→ **TUNER** is displayed.
 - 2 Select a waveband by pressing TUNER AM/FM repeatedly.
→ The selected waveband is displayed.
 - 3 Keep ◀ or ▶ pressed for approximately 1 second.
→ **SEARCH** is displayed and the tuner tunes to a station with sufficient strength.
 - 4 Repeat this procedure until you find the desired station.
- To fine tune to a weak transmitter, briefly press ◀ or ▶ as often as necessary for optimum reception.

Tuning to a radio station by frequency (with the remote control only)

- 1 Press TUNER.
→ **TUNER** is displayed.
- 2 Press FR. D..
→ **_** is displayed.

- 3 Use 1–0 to key in the frequency of a radio station.

Note: Only valid numbers within the frequency range of the tuner can be keyed in.

Switching FM sensitivity

You can switch the tuner to a lower search sensitivity, to search only for stations with a strong signal (FM only).

- 1 Turn SOURCE SELECTOR to select the tuner.
→ **TUNER** is displayed.
- 2 Press SENS. on the receiver.
→ Either **SENS HI** or **SENS LO** is displayed for 5 seconds.

*Note: While searching for radio stations, the actual sensitivity is displayed. In this case, **SENS LO** means the tuner is only looking for radio stations with a strong signal.*

Storing radio stations

You may store up to 30 radio stations in the memory. The receiver can select and program radio stations by itself or you can choose them yourself.

Automatic programming

- 1 Choose * **TUNER** from the menu and press NEXT ▶.
- 2 Choose **AUTO INSTALL** and press NEXT ▶.
→ The preset number where programming will start, the waveband and **AUTO** are displayed.
- 3 Turn TUNER PRESET ⬆ to change the preset number where programming should start.
- 4 Use TUNER AM/FM to switch to the desired waveband.
- 5 Press ENTER / OK to start programming.
→ **AUTO INSTALL** flashes and all available radio stations are programmed, this may take a few minutes. Programming is done when **AUTO INSTALL** stops flashing.

Manual programming

- 1 Choose * **TUNER** from the menu and press NEXT ▶.
- 2 Choose **MAN INSTALL** and press NEXT ▶.
→ A preset number, the waveband and the frequency are displayed.
- 3 Turn TUNER PRESET ⬆ to change to the preset number where the radio station should be stored.
- 4 Tune to the desired radio station (see "Searching for radio stations").
- 5 Press ENTER / OK to confirm your selection.
→ **STORE** is displayed briefly. The radio station is programmed at the chosen preset number.
- 6 Select and store all desired radio stations this way.

Tuning to stored radio stations

- 1 Turn SOURCE SELECTOR to TUNER to select the tuner.
→ **TUNER** is displayed.
- 2 Turn TUNER PRESET $\blacklozenge$ to select a preset radio station.
→ **PRESET**, the preset number and station are displayed.

Resorting stored radio stations

After programming radio stations, you might want to change their sequence. **RESHUFFLE** allows you to exchange the positions of presets.

- 1 Choose * **TUNER** from the menu and press NEXT $\blacktriangleright$.
- 2 Choose **RESHUFFLE** and press NEXT $\blacktriangleright$.
→ **PRESET**, a preset number and station are displayed.
- 3 Turn TUNER PRESET $\blacklozenge$ to select a preset station.
- 4 Press ENTER / OK to confirm the selection.
→ The selected preset number **SWAP** (↔) and a second preset number are displayed.
- 5 Turn TUNER PRESET $\blacklozenge$ to select the other preset station.
- 6 Press ENTER / OK to confirm the exchange.
→ **RESHUFFLE** is displayed briefly and these two preset numbers are swapped.

Naming radio stations

It is possible to assign a name to any of the preset radio stations. RDS station names also can be overwritten.

- 1 Choose * **TUNER** from the menu and press NEXT $\blacktriangleright$.
- 2 Choose **GIVE NAME** and press NEXT $\blacktriangleright$.
→ A preset radio station is displayed.
- 3 Turn TUNER PRESET $\blacklozenge$ to select the preset to be renamed.
- 4 Press ENTER / OK to confirm your selection.
→ The existing name or _____ is displayed.
- 5 Turn TUNER PRESET $\blacklozenge$ to select a letter and NEXT $\blacktriangleright$ or $\blacktriangleleft$ PREV. to move to the next or previous position.
- 6 After you have entered the entire name, press ENTER / OK to confirm.
→ **STORED** is displayed and the name is stored.

Note: If you want to use the transmitted RDS station name again, simply clear the given name.

Clearing station names

- 1 Use the menu option * **TUNER**, choose **GIVE NAME**.
→ A preset radio station is displayed.
- 2 Turn $\blacklozenge$ MENU NAVIGATOR to select the name to be cleared.
- 3 Press ENTER / OK to confirm your selection.
- 4 Press $\blacktriangleleft$ PREV. while the first letter is flashing.
→ **CL** is flashing to the left of the station name.
- 5 Press ENTER / OK to clear the station name.
Or, if you have changed your mind,
press $\blacktriangleleft$ PREV. to leave the station name as it is.

RDS

Radio Data System is a service that allows FM stations to send additional information. If you are receiving an RDS station,  and the station name are displayed.

Switching through different RDS information

- Press RADIO TEXT on the receiver repeatedly to switch through the following information (if available):
 - Radio text messages
 - RDS clock
 - Frequency
 - Station name

Note: The time signal broadcasted from certain RDS stations may not always be accurate.

RDS News and Traffic Announcement

It is possible to set up the tuner in such a way that any playback is interrupted by news or traffic information of a chosen RDS station. Announcement functions only work if the necessary RDS signals are being broadcast.

If RDS stations are also carrying an EON signal (**E**nhanced **O**ther **N**etworks), **EON** is displayed. This signal enables the tuner to search not only the chosen RDS station, but the whole EON station network for news and traffic information.

- 1** Tune to the desired RDS station.
- 2** Press NEWS/TA:
 - Once** to display **NEWS**, this switches on the news announcement function.
 - Twice** to display **TA**, this switches on the traffic announcement function.
 - Three times** to display **TA** and **NEWS**, this switches on both announcement functions.
- 3** Select and play any other source as usual.
 - ➔ While news or traffic information is being broadcast the receiver will switch to tuner and **NEWS** or **TA** will flash.
- 4** Press NEWS/TA until the display indication disappears to switch off the function(s).
 - or**
 - Press NEWS/TA during an announcement to switch off the function(s).

Note: Be sure to switch the news and traffic announcement off during recording, otherwise these announcements also will be recorded.

Receiver

Subject to modification without notice.

General

Power consumption (FR 965)	210 W
Power consumption (FR 975)	255 W
Standby power consumption	< 2 W
Dimensions, w × h × d	435 × 135 × 350 mm
Weight (FR 965)	8.6 kg
Weight (FR 975)	9.4 kg

Amplifier part (0.7 % THD, 6 Ω, 1 kHz)

Output power, stereo mode (FR 965) (DIN)	2 × 60 W
Output power, surround mode (FR 965)	
Front	2 × 60 W
Center	60 W
Surround	2 × 60 W
Output power, stereo mode (FR 975) (DIN)	2 × 100 W
Output power, surround mode (FR 975)	
Front	2 × 100 W
Center	100 W
Surround	2 × 100 W
Bass	±9 dB at 100 Hz
Treble	±9 dB at 10 kHz
Loudness	+6 dB at 100 Hz (-30 dB); +3 dB at 10 kHz (-30 dB)
Total harmonic distortion	0.05 % at 1 kHz, 5 W
Frequency response	20–20,000 Hz, ±1 dB
S/N ratio	≥ 82 dB
Stereo separation (1 kHz)	≥ 45 dB
Crosstalk (1 kHz)	≤ -65 dB

Inputs

Linear inputs	250 mV/47 kΩ
6 CH	250 mV/40 kΩ
Front AV (FR 975 only)	250 mV/22 kΩ
Phono	5 mV/47 kΩ
Digital coaxial	75 Ω acc. IEC 958
Digital optical	Toslink
Digital sampling frequency	
(FR 965 only)	32 kHz, 44.1 kHz, 48 kHz
Digital sampling frequency	
(FR 975 only)	32 kHz, 44.1 kHz, 48 kHz, 96 kHz

Outputs

Power supply AC outlets (switched)	totally max. 100 W
Linear outputs	250 mV/1 kΩ
Digital coaxial	75 Ω acc. IEC 958
Digital output sampling frequencies	
Analogue in	out 48 kHz
Digital in 32 kHz	out 32 kHz
Digital in 44.1 kHz	out 44.1 kHz
Digital in 48 kHz	out 48 kHz
Digital in 96 kHz (FR 975 only)	out 48 kHz
Subwoofer pre-out	0.8 V/1 kΩ
Center pre-out	0.8 V/1 kΩ
Headphones	8–600 Ω (3 V e.m.f., 60 Ω)
Speakers	≥ 6 Ω

Tuner part

Wave range	
FM	87.5–108.0 MHz
MW	531–1,602 kHz
LW	153–279 kHz
Sensitivity	
Stereo FM	41 dBf
Mono FM	15 dBf
Total harmonic distortion	
Stereo FM	0.3 %
Mono FM	0.85 %
Frequency response	63–12,500 Hz ±1 dB
S/N ratio	
Stereo FM	55 dB
Mono FM	60 dB
Channel separation	35 dB at 1 kHz

WARNING

Under no circumstances should you try to repair the set yourself as this will invalidate the guarantee. Do not open the set as there is a risk of electric shock.

If a fault occurs, first check the points listed, before taking the set for repair.

If you are unable to solve a problem by following these hints, consult your dealer or service centre.

PROBLEM	POSSIBLE CAUSE	SOLUTION
No sound	VOLUME is not correctly adjusted.	Adjust the VOLUME.
	Headphones are connected.	Disconnect headphones.
	The wrong source is selected.	Turn SOURCE SELECTOR to select the correct source.
No sound on the left or right side	One speaker is wrongly connected.	Connect the speaker properly.
	A speaker cable is damaged.	Replace the cable.
	Volume balance in the receiver menu is wrongly adjusted.	Adjust <i>VOL FRONT-L</i> and <i>VOL FRONT-R</i> in the receiver menu.
Poor sound or no sound at the center or surround speakers	SURROUND mode is not switched on.	Press SURROUND ON/OFF to switch on the surround sound.
	Surround and/or center speakers are not (properly) connected.	Connect the speakers properly.
	Surround and/or center speakers are switched off in the <i>SPEAKER SETUP</i> menu.	Set speaker present to <i>YES</i> .
	A speaker cable is damaged.	Replace the cable.
Poor bass sound	Speakers are not in phase.	Connect the coloured (or marked) wires to the coloured terminals and the black (or unmarked) wires to the black terminals.
Bad sound	Badly matching setting for the given type of music or sound.	Correct the sound settings on the receiver.
Surround sound level is too low or too high	The level of the surround sound is not properly adjusted.	Adjust the level of the surround sound on the receiver.
Center sound level is too low or too high	The sound level of the center channel is not properly adjusted.	Adjust the level of the center channel on the receiver.
Only center speaker is heard in Dolby Surround Pro Logic	A mono signal is reproduced.	Choose a different sound source or switch off surround sound.
Bad radio reception, automatic programming does not work properly	Receiver or antenna is positioned near a radiation source such as a TV, CD player, CD recorder, DVD player, etc.	Change the position of the interfering unit or try to switch it off.
No digital recording possible via digital output	The sampling frequency is not accepted by the digital recorder.	Make sure the digital recorder can handle sampling frequencies between 32 kHz and 48 kHz or make the recording via analogue output.
Whole recording appears as one track when recording from DVD disc	The DVD player does not provide track information.	Record each track individually or use the "manual track increment" feature on the recorder.

CABLE BOX

ABC.....	0030, 0035, 0038, 0040, 0028, 0034, 0041, 0044
Allegro.....	0180, 0342
Antronix.....	0049, 0234
Archer.....	0049, 0180, 0234, 0824
Belcor.....	0083
Bell & Howell.....	0041
Cable Star.....	0083
Cabletenna.....	0049
Cableview.....	0049
Century.....	0180
Citizen.....	0180, 0342
Colour Voice.....	0052, 0058
Comtronics.....	0067
Contec.....	0046
Digi.....	0664
Eastern.....	0029
Emerson.....	0824
Everquest.....	0042, 0067
Focus.....	0427
France Telecom.....	0923
GC Electronics.....	0083, 0234
Garrard.....	0180
Gemini.....	0269, 0042
General Instrument.....	0303, 0503, 0038, 0837
GoldStar.....	0067, 0171
Goodmind.....	0824
Hamlin.....	0047, 0036, 0286, 0061
Hitachi.....	0038
Hytex.....	0034
Jasco.....	0042, 0180, 0342
Jerrold.....	0030, 0039, 0303, 0038, 0041, 0042, 0051, 0503, 0837
Linsay.....	0467
Magnavox.....	0054, 0041
Memorex.....	0027
Movie Time.....	0090, 0183
NAP.....	0034
NSC.....	0183, 0090
Novaplex.....	0645
Oak.....	0046, 0034
Optimus.....	0048
Panasonic.....	0048, 0134, 0027
Panther.....	0664
Paragon.....	0027
Philips.....	0052, 0058, 0269, 0317, 0054, 0180
Pioneer.....	0171, 0050, 0560
Popular Mechanics.....	0427
Proscan.....	0048
Pulsar.....	0027
Quasar.....	0027
RCA.....	0048
Radio Shack.....	0824, 0042, 0342, 0910
Realistic.....	0234
Recoton.....	0427
Regal.....	0286, 0047
Regency.....	0029
Rembrandt.....	0038
Runco.....	0027
SL Marx.....	0067

Samsung.....	0067, 0171
Scientific Atlanta.....	0035, 0044, 0504
Seam.....	0537
Signal.....	0042, 0067
Signature.....	0038
Sprucer.....	0048
Starcom.....	0030, 0042
Stargate.....	0067, 0042, 0824
Starquest.....	0042
Sylvania.....	0028
TFC.....	0337
TV86.....	0090
Tandy.....	0285
TeleCaption.....	0248
Televue.....	0067
Texscan.....	0028
Timeless.....	0445
Tocom.....	0039, 0040
Toshiba.....	0027
Tusa.....	0042
Unika.....	0234, 0180, 0049
United Artists.....	0034
Universal.....	0234, 0049, 0083, 0218, 0180
Viewstar.....	0285, 0054, 0090
Westminster.....	0132
Zenith.....	0027, 0552, 0081, 0035, 0042, 0234
Zentek.....	0427

CD

ADC.....	0045
Adcom.....	0261, 0182
Aiwa.....	0151, 0039, 0184
Akai.....	0183
Anthem.....	0924
Audio Alchemy.....	0221
Audio-Technica.....	0197
BSR.....	0272, 0221
Burmester.....	0447
California Audio Lab.....	0056
Carrera.....	0221
Carver.....	0184, 0206, 0464
Craig.....	0642
Crown.....	0149
Curtis Mathes.....	0056
DAK.....	0272
DBX.....	0281
DKK.....	0027
Denon.....	0030, 0061, 0900
Emerson.....	0182, 0191, 0332, 0496
Fisher.....	0115, 0206, 0201, 0369
GE.....	0036
Garrard.....	0307, 0272, 0420, 0447, 0452
Genexxa.....	0059, 0191, 0332
GoldStar.....	0444
Harman/Kardon.....	0200, 0184, 0453
Hitachi.....	0059, 0182
JVC.....	0099, 0682, 0685
Kenwood.....	0055, 0217, 0708, 0853, 0064
Kodak.....	0314
Krell.....	0184
Kyocera.....	0045

LXI.....	0332
Linn.....	0184
Luxman.....	0120
MCS.....	0056, 0070
MGA.....	0110
MTC.....	0447
Magnavox.....	0184, 0553, 0332
Marantz.....	0184, 0056, 0207, 0462
McIntosh.....	0314
Mission.....	0184
Mitsubishi.....	0110
NAD.....	0046
NEC.....	0261, 0070
NSM.....	0184
Nakamichi.....	0174
Nikko.....	0197, 0191, 0201
Onkyo.....	0128, 0895
Optimus.....	0447, 0495, 0059, 0453, 0206, 0223, 0464, 0202, 0332, 0064, 0114, 0172, 0221, 0307, 0369, 0027
Panasonic.....	0056, 0394, 0330, 0779
Parasound.....	0447, 0221
Philips.....	0184, 0314
Pioneer.....	0059, 0495, 0271, 0332
Proscan.....	0080
Proton.....	0184
QED.....	0184
Quasar.....	0056
RCA.....	0080, 0332, 0036, 0182, 0206, 0791
Realistic.....	0182, 0202, 0191, 0206, 0207, 0447
Rotel.....	0184, 0447, 0924
SAE.....	0184
STS.....	0045
Sansui.....	0229, 0184, 0332
Sanyo.....	0114, 0206
Scott.....	0191, 0182, 0332
Sears.....	0332
Sharp.....	0064, 0207, 0888
Sherwood.....	0141, 0207, 0223, 0453
Shure.....	0070
Sony.....	0027, 0212, 0631, 0517, 0632
Soundesign.....	0172, 0452
Sylvania.....	0184
Tascam.....	0447
Teac.....	0420, 0447, 0201, 0207
Technics.....	0056, 0330, 0234
Toshiba.....	0046
Vector Research.....	0221, 0444
Victor.....	0099
Wards.....	0080, 0184
Yamaha.....	0214, 0063, 0197
Yorx.....	0488
Zenith.....	0642

TAPE

Aiwa.....	0224, 0227, 0056
Akai.....	0310
Carver.....	0056
Denon.....	0103
Fisher.....	0101
Garrard.....	0335, 0466

Harman/Kardon.....	0209, 0056
JVC.....	0271, 0300
Kenwood.....	0098, 0097, 0260
Magnavox.....	0056
Marantz.....	0056, 0036
Mitsubishi.....	0310
NAD.....	0171
Onkyo.....	0162, 0163, 0309
Optimus.....	0247, 0054, 0364, 0466
Panasonic.....	0256
Philips.....	0056
Pioneer.....	0054, 0247, 0126
Proscan.....	0053
RCA.....	0053
Revox.....	0217
Sansui.....	0036, 0056
Sharp.....	0258
Sherwood.....	0364
Sony.....	0270, 0197, 0318
Teac.....	0335, 0316
Technics.....	0256
Victor.....	0300
Wards.....	0054
Yamaha.....	0121, 0124

DVD

Harman/Kardon.....	0609
JVC.....	0585
Kenwood.....	0561
Magnavox.....	0530
Mitsubishi.....	0548
Onkyo.....	0530
Optimus.....	0552
Panasonic.....	0517
Philips.....	0566, 0530
Pioneer.....	0552, 0598
Proscan.....	0549
RCA.....	0549
Samsung.....	0600
Sony.....	0560
Technics.....	0517
Thomson.....	0578
Toshiba.....	0530
Yamaha.....	0572, 0517
Zenith.....	0618, 0530

TV

A-Mark.....	0030
AOC.....	0079, 0030, 0212, 0046, 0057
Abex.....	0059
Admiral.....	0120
Adventura.....	0073
Aiko.....	0119
Akai.....	0057
Alaron.....	0206
Allegro.....	0747, 0801
Ambassador.....	0204
Ampro.....	0778
Anam.....	0207
Anam National.....	0082
Archer.....	0030

Audiovox.....0119, 0030, 0207, 0478, 0650
 Aumark.....0087
 Baysonic.....0207
 Belcor.....0046
 Bell & Howell.....0043, 0181
 Bradford.....0207
 Brockwood.....0046
 Broksonic.....0030, 0263, 0490
 CCE.....0064, 0244
 CXC.....0207
 Candle.....0213, 0073, 0057, 0083
 Capehart.....0079
 Carnivale.....0057
 Carver.....0081
 Celebrity.....0027
 Cinerall.....0478, 0119
 Citizen.....0213, 0073, 0083, 0057, 0066, 0087,
 0119, 0307
 Clairtone.....0212
 Concerto.....0083
 Contec.....0184, 0207, 0212
 Craig.....0207
 Crosley.....0081
 Crown.....0066, 0207
 Curtis Mathes.....0087, 0057, 0181, 0043, 0066, 0074, 0078,
 0081, 0083, 0120, 0172, 0193, 0478, 0493
 Daewoo.....0119, 0650, 0046, 0651, 0478, 0066
 Daytron.....0046, 0066
 Denon.....0172
 Dumont.....0044, 0046
 Dwin.....0747, 0801
 Dynatech.....0244
 Electroband.....0027, 0212
 Electrohome.....0408
 Emerson.....0263, 0207, 0205, 0206, 0490, 0204,
 0309, 0307, 0651, 0066, 0212, 0650,
 0046, 0065, 0181
 Envision.....0057
 Fisher.....0181, 0186
 Fujitsu.....0206
 Funai.....0207, 0198, 0206
 Futuretech.....0207
 GE.....0048, 0054, 0074, 0082, 0078, 0205,
 0162, 0309, 0478, 0120
 Gibraltar.....0044, 0046, 0057
 Go Video.....0087
 GoldStar.....0028, 0205, 0057, 0046, 0059, 0066, 0083
 Gradiente.....0083, 0080
 Grundig.....0064, 0222
 Grunpy.....0206, 0207
 Hallmark.....0205
 Harley Davidson.....0206
 Harman/Kardon.....0081
 Harvard.....0207
 Hitachi.....0172, 0178, 0065, 0083, 0059
 Infinity.....0081
 Inteq.....0044
 JBL.....0081
 JCB.....0027
 JVC.....0080
 Janeil.....0073
 KEC.....0207

KTV.....0307, 0207, 0212, 0244, 0066, 0057
 Kaypani.....0079
 Kenwood.....0057, 0046
 Kloss.....0073, 0051
 LG.....0083
 LXI.....0181, 0205, 0074, 0044, 0081, 0183
 Loewe.....0539
 Logik.....0043
 Luxman.....0083
 MEI.....0212
 MGA.....0177, 0046, 0057, 0205
 MTC.....0087, 0046, 0057, 0212, 0083
 Magnavox.....0081, 0214, 0051, 0123, 0047, 0213,
 0057, 0413, 0206
 Majestic.....0043
 Marantz.....0081, 0064, 0057
 Matsushita.....0078, 0277
 Megatron.....0030, 0172, 0205
 Memorex.....0205, 0043, 0083, 0087, 0177, 0181, 0277
 Midland.....0044, 0059, 0066, 0074, 0078, 0162
 Minutz.....0048
 Mitsubishi.....0177, 0046, 0205, 0120
 Motorola.....0082, 0120
 Multitech.....0244, 0207
 NAD.....0183, 0193, 0205
 NEC.....0057, 0046, 0083, 0524
 NTC.....0119
 Nikko.....0205, 0044, 0074, 0057, 0119, 0181, 0183
 Noshi.....0045
 Onwa.....0207
 Optimus.....0277, 0193, 0181
 Optonica.....0120, 0192
 Orion.....0263, 0206, 0490
 Panasonic.....0078, 0277, 0082, 0028, 0074, 0080,
 0081, 0087, 0120, 0172, 0177, 0181,
 0183, 0192, 0205
 Penney.....0074, 0057, 0087, 0048, 0054, 0162,
 0045, 0205, 0078, 0066, 0046, 0030,
 0059, 0083, 0183
 Philco.....0047, 0046, 0057, 0081, 0123, 0172,
 0490, 0051, 0213, 0214
 Philips.....0081, 0044, 0047, 0066, 0064, 0027,
 0045, 0046, 0048, 0051, 0054, 0079
 Pilot.....0046, 0057, 0066
 Pioneer.....0193, 0065
 Portland.....0119, 0046, 0066
 Prism.....0078
 Proscan.....0074, 0057
 Proton.....0493, 0205, 0030, 0079
 Pulsar.....0044, 0046
 Quasar.....0078, 0082, 0277, 0192
 RCA.....0074, 0045, 0162, 0046, 0065, 0078,
 0117, 0120
 Radio Shack.....0192, 0207, 0205, 0057, 0066, 0046,
 0181, 0059, 0074, 0083
 Realistic.....0192, 0207, 0181, 0057, 0066, 0205,
 0046, 0059, 0083
 Rhapsody.....0212
 Runco.....0044, 0524, 0057
 SSS.....0046, 0207
 Sampo.....0057, 0059, 0066, 0079

Samsung.....0087, 0059, 0205, 0046, 0057, 0066,
 0083, 0064
 Samsux.....0066
 Sansei.....0478
 Sansui.....0490
 Sanyo.....0181, 0186, 0173
 Scimitsu.....0046
 Scotch.....0205
 Scott.....0263, 0205, 0206, 0207, 0046
 Sears.....0186, 0181, 0173, 0183, 0081, 0083,
 0198, 0205, 0074, 0206
 Semivox.....0207
 Semp.....0183
 Sharp.....0192, 0120, 0413, 0066, 0184
 Shogun.....0046
 Signature.....0043
 Simpson.....0213, 0214
 Sony.....0027, 0138, 0107
 Soundesign.....0205, 0207, 0206, 0213
 Spectricon.....0030
 Squareview.....0198
 Starlite.....0207
 Supre-Macy.....0073
 Supreme.....0027
 Sylvania.....0081, 0047, 0123, 0057, 0408, 0051,
 0213, 0214
 Symphonic.....0198
 TMK.....0083, 0204, 0205
 Tandy.....0120
 Tatung.....0030, 0082
 Technics.....0078, 0277, 0044, 0074
 Technol Ace.....0206
 Techwood.....0030, 0078, 0083
 Teknika.....0213, 0043, 0206, 0046, 0066, 0081,
 0207, 0083, 0119, 0177, 0087
 Telefunken.....0083
 Toshiba.....0183, 0087, 0181
 Tosonic.....0212
 Totevision.....0066
 Trical.....0184
 Universal.....0054, 0048
 Vector Research.....0057
 Victor.....0080
 Vidikron.....0081
 Vidtech.....0046, 0205
 Viking.....0073
 Wards.....0081, 0192, 0205, 0183, 0043, 0047,
 0048, 0123, 0138, 0214, 0054, 0107,
 0206, 0046, 0057, 0083, 0162
 White Westinghouse.....0651, 0650
 Yamaha.....0046, 0057
 Zenith.....0044, 0043, 0119, 0173
 Zonda.....0030

VCR

Admiral.....0075
 Adventura.....0027
 Aiko.....0305
 Aiwa.....0334, 0027, 0064
 Akai.....0133, 0080, 0088, 0068
 American High.....0062
 Asha.....0267

Audiovox.....0064
 Beaumark.....0267
 Bell & Howell.....0131
 Blaupunkt.....0033
 Broksonic.....0211, 0148, 0388, 0029, 0236, 0238,
 0322, 0506
 CCE.....0099, 0305
 Calix.....0064
 Canon.....0062
 Capehart.....0047
 Carver.....0108
 Cinerla.....0305
 Citizen.....0305, 0064
 Colt.....0099
 Craig.....0064, 0074, 0099, 0267, 0298
 Curtis Mathes.....0062, 0068, 0087, 0189
 Cybernex.....0078, 0267
 Daewoo.....0305, 0588, 0047, 0072
 Daytron.....0047
 Denon.....0069
 Dynatech.....0027
 Electrohome.....0064
 Electrophonic.....0064
 Emerex.....0059
 Emerson.....0211, 0029, 0148, 0236, 0063, 0238, 0305,
 0321, 0115, 0235, 0506, 0088, 0239, 0588,
 0095, 0322, 0388, 0027, 0064, 0070
 Fisher.....0074, 0131, 0081, 0093
 Fuji.....0060, 0062
 Funai.....0027
 GE.....0062, 0087, 0229, 0075, 0267
 Garrard.....0027
 Go Video.....0459, 0553
 GoldStar.....0064, 0065
 Gradiente.....0035, 0027
 HI-Q.....0074
 Harley Davidson.....0027
 Harman/Kardon.....0108, 0065
 Harwood.....0095, 0099
 Headquarter.....0073
 Hitachi.....0069, 0132, 0027, 0068
 JVC.....0094, 0035, 0068
 Jensen.....0068
 KEC.....0064, 0305
 KLH.....0099
 Kenwood.....0068, 0094, 0065, 0073
 Kodak.....0062, 0064
 LXI.....0064
 Lloyd's.....0027, 0235
 Logik.....0099
 MEI.....0062
 MGA.....0070, 0088, 0267
 MGN Technology.....0267
 MTC.....0027, 0267
 Magnasonic.....0305
 Magnavox.....0062, 0108, 0027, 0066, 0176
 Magnin.....0267
 Marantz.....0108, 0065, 0062
 Marta.....0064
 Matsushita.....0062, 0481, 0189
 Memorex.....0131, 0074, 0027, 0064, 0062, 0075,
 0267, 0334, 0073, 0066

Metz.....0033, 0064, 0189, 0323
 Minolta.....0132, 0069
 Mitsubishi.....0070, 0088, 0094, 0075
 Motorola.....0062, 0075
 Multitech.....0027, 0099
 NAD.....0085
 NAP.....0060, 0061, 0062, 0064, 0066, 0069,
 0093, 0132
 NEC.....0065, 0067, 0068, 0094, 0131
 Nikko.....0064
 Nikon.....0061, 0280
 Noblex.....0267
 Olympus.....0062
 Optimus.....0085, 0075, 0064, 0459, 0131, 0189, 0481
 Optonica.....0089
 Orion.....0506, 0322, 0029, 0211
 Panasonic.....0062, 0104, 0189, 0252, 0481
 Penney.....0062, 0267, 0064, 0065, 0069, 0067, 0081
 Pentax.....0069, 0132
 Philco.....0062, 0506, 0236
 Philips.....0108, 0062, 0089
 Pilot.....0064
 Pioneer.....0085, 0094
 Portland.....0047
 Profitronic.....0267
 Proscan.....0087, 0229
 Protec.....0099
 Pulsar.....0066, 0078
 Quarter.....0073
 Quartz.....0073
 Quasar.....0062, 0189, 0104, 0481
 RCA.....0087, 0176, 0229, 0069, 0132, 0104,
 0133, 0062, 0075, 0267
 Radio Shack.....0027
 Radix.....0064
 Randex.....0064
 Realistic.....0074, 0027, 0131, 0075, 0064, 0062,
 0089, 0073, 0093
 Ricoh.....0061, 0280
 Runco.....0066
 STS.....0069
 Samsung.....0267, 0072, 0080, 0078
 Sanky.....0066, 0075
 Sansui.....0506, 0068, 0298, 0027, 0094
 Sanyo.....0073, 0074, 0131, 0267
 Scott.....0211, 0148, 0238, 0072, 0237, 0239, 0070
 Sears.....0069, 0132, 0081, 0073, 0064, 0074,
 0131, 0027, 0062, 0093
 Semp.....0072
 Sharp.....0075, 0089
 Shintom.....0099
 Shogun.....0078, 0267
 Signature.....0062
 Singer.....0099
 Sony.....0060, 0061, 0059, 0280, 0062, 0027
 Sunpak.....0280
 Sylvania.....0062, 0108, 0027, 0070
 Symphonic.....0027
 TMK.....0063, 0235, 0267
 Tatung.....0068
 Teac.....0027, 0068
 Technics.....0062, 0189, 0066, 0087, 0229

Teknika.....0027, 0062, 0064
 Thomas.....0027
 Toshiba.....0072, 0239, 0237, 0093, 0070
 Totevision.....0064, 0267
 Unitech.....0267
 Vector.....0072
 Vector Research.....0065, 0067
 Video Concepts.....0067, 0088, 0072
 Videosonic.....0267
 Wards.....0062, 0075, 0089, 0027, 0087, 0074,
 0072, 0267, 0239, 0069, 0099, 0176,
 0108
 White Westinghouse.....0305
 XR-1000.....0099, 0027, 0062
 Yamaha.....0065, 0068
 Zenith.....0066, 0060, 0061, 0027, 0506

SAT

AlphaStar.....0799
 Astro Industries.....0122
 BSR.....0122
 Capetronic.....0122
 Channel Master.....0045, 0239
 Chaparral.....0080, 0236, 0243
 DX Antenna.....0068
 Drake.....0091, 0272, 0045
 Echostar.....0307, 0802, 0175, 0186, 0296
 Expressvu.....0802
 General Instrument.....0388, 0896, 0654
 Grundig.....0200
 HTS.....0802
 Hitachi.....0846
 Homecable.....0265
 Hughes Network Syst.....0776
 Hytek.....0122
 IQ.....0237
 IQ Prism.....0237
 JVC.....0802
 Janeil.....0179
 Jerrold.....0388, 0654
 Legend.....0296
 Macom.....0045
 Magnavox.....0749, 0751
 Memorex.....0296, 0751
 Next Level.....0896
 Panasonic.....0179, 0728
 Philips.....0227, 0126, 0749, 0751
 President.....0101
 Primestar.....0654, 0388
 Proscan.....0593
 RCA.....0593, 0170, 0882
 Radio Shack.....0593
 Realistic.....0079
 STS.....0237, 0068
 Sony.....0666
 Star Choice.....0896
 Star Trak.....0207
 Toshiba.....0109, 0817
 Uniden.....0265, 0397, 0079, 0101, 0751, 0103, 0749
 Zenith.....0091, 0883, 0272

English

Français

Español

Deutsch

Nederlands

Italiano

Meet Philips at the Internet
<http://www.philips.com>

