



MATCH  **LINE**

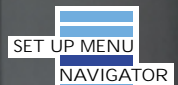
Digital Audio/Video Receiver

ROW **FR975**

Digital Audio/Video Surround Receiver

- *Integrated Dolby Digital® (AC-3), Dolby Pro-Logic®, DTS and MPEG Multichannel Surround Sound decoder*
- *500 Watts Surround Power Output : 3 x 100 Watts + 2 x 100 Watts*
- *Stereo Power Output : 2 x 100 Watts (DIN, 1 kHz, 0.7% THD, 6 Ohm)*
- *Digital Surround Processing via TETRA CORE*
- *Automatic Sound Type Detection (AC-3, MPEG, Dolby Pro-Logic®, DTS or PCM audio)*
- *Natural Surround for more realistic Surround Sound*
- *Unique digital stereo downmix from multichannel sound (record audio from DVD)*
- *'Hall' feature for normal stereo with rear speaker sound (simulated surround)*
- *96 kHz processing (enables connection to DVD-Audio player)*
- *12 Audio input connections*
- *All Dolby Surround Modes and Delay Times*
- *Night mode for Dynamic Range Compression of Digital Sound*
- *4 Digital Inputs (2 coax, 2 optical) and a Digital Output Connection (coax) for Digital (CD) Recordings*
- *4 Video Input and 2 Output Connections*
- *5 S-Video connections*
- *6 Channel Input, DVD Audio and Super-Audio CD prepared*
- *Front AV/Game Input*
- *Screw terminals for Left, Right and Center speaker connections*
- *'Cinema Link' System Control Bus*
- *51-key Audio/Video MultiBrand Universal Remote Control*
- *Menu Navigator Rotary Knob for quick set-up*

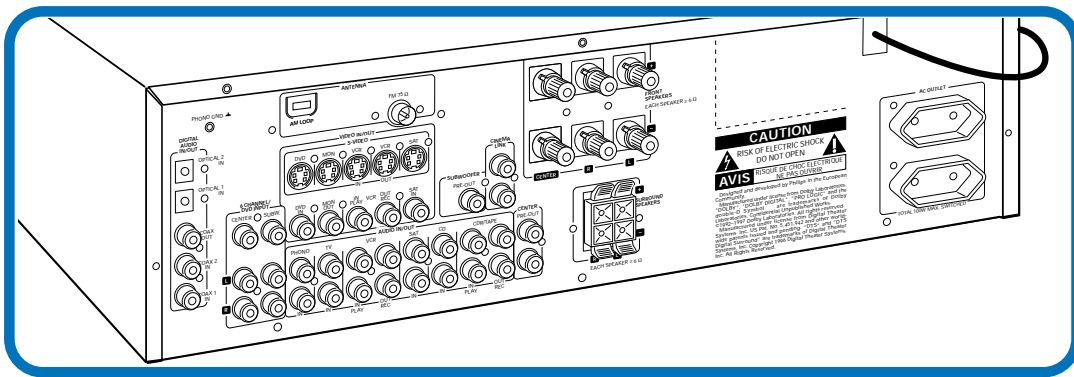
MPEG  **Multichannel**



Let's make things better.



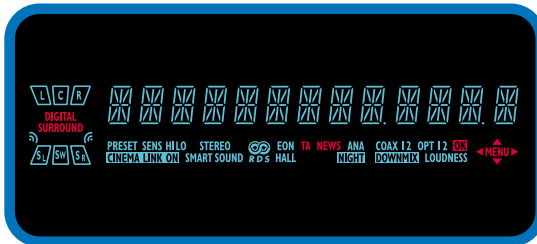
PHILIPS



Back View of FR975



Sound Panel



Display Graphics



Menu Navigator



* Optional Touch Screen Remote : Philips 'Pronto'



* Recommended subwoofer : Philips FB301



* Champagne/Gold version of FR975



* Recommended speaker package : Philips FB975



	/00	/01	/15
Asia Pacific		•	
Latam		•	
Europe	•		
E Europe			
tuner			
FM65.81 - 74 MHz			
FM87.5 - 108 MHz	•	•	
MW531 - 1602 kHz	•		
MW530 - 1700 kHz		•	
LW 153 - 279 kHz	•		
RDS EON	•		
mains supply			
120/230V 50-60Hz	•		
230V/50Hz	•		
colour			
Champagne/Gold	•		

EAN Code: 87 10101 37145 0 (/00)
 EAN Code: 87 10101 37146 7 (/01C)
 EAN Code: 87 10101 37164 1 (/15C)

Product Dimensions:
 435mm W x 135mm H x 350mm D (set)
 Product weight: 9.4kg

Package Dimensions:
 519mm W x 216mm H x 488mm D
 Product weight: 10kg

Carton contains: receiver FR975, remote control, batteries, instruction for use, AM loop + FM wire antenna, warranty information, coax cable, scart audio adaptor (/00).

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Specifications subject to change without notice.
 Dolby Digital®, Dolby ProLogic® and the double-D symbol are trademarks of Dolby Laboratories
 "DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems Inc.

* Not available in all countries

Let's make things better.



PHILIPS

Sound Enhancement

Dolby Digital Surround Sound - Available on DVD, Laserdisc*, satellite broadcasts. Digital Surround offers the ultimate experience in home theater surround with six discrete channels of digital CD sound. Discrete means that each channel carries its own sound and depending on what happens on screen each speaker plays its own unique role in providing the right sound. Front left, center and right join two surround speakers to reproduce highs, mid and bass frequencies in five full-range channels of surround. Bass rumble, explosions and low frequency effects you feel are delivered through a dedicated sixth, subwoofer channel. Dolby Digital (also known as AC-3 or Dolby 5.1) and MPEG Multichannel delivered the expanded sense of depth, localization and overall realism which was formerly only known from digital surround sound equipped movie cinemas.

DTS - DTS surround sound is a cinema surround sound format that offers superior digital audio performance than other available surround sound formats. DTS is said to offer more clarity and definition especially for higher tones. The better sound quality is a direct result of the limited sound compression (3:1 instead of 11:1 for Dolby Digital) and the 20-bit resolution. DTS movie and music software is available on various DVD and CD titles.

MPEG MultiChannel Sound - MPEG MultiChannel is an audio coding method for digital multichannel surround sound just as Dolby Digital (AC-3) is. Next to Dolby Digital, MPEG MultiChannel is the alternative coding format for DVD. With MPEG as the (exclusive) audio coding format for multi channel digital TV broadcasting in Europe, the Philips receiver guarantees compatibility for the near future - making its purchase a save investment.

500W surround power output: - The five, 3x100W (left, right, center) and 2x100W (rear), receiver amplifiers deliver 400 Watts of home theater power. The stereo output power of 100W per channel is specified at 6 Ohm, DIN, 1kHz and 0.7% total harmonic distortion (THD). The amplifiers have been designed with special attention to a short 'rise' and 'fall' time, so characteristic for the frequent and sudden drastic changes in dynamics of movie sound in general. Furthermore, the amplification reserves are designed such that they are more than sufficient to follow sudden needs for more sound pressure.

Digital Sound Processing via Tetra CORE - The Philips Tetra Core sound processor is the successor to the DUET Core. The Tetra Core IC decodes Dolby Digital, DTS and MPEG Multichannel surround sound. Its huge processing power of 100 MIPS (million instructions per second) and resolution of 24-bits assures the highest possible accuracy in digital audio processing. The Tetra Core accepts incoming digital signals with sampling frequencies of 32, 44.1, 48 and 96 kHz (the latter is used in DVD-Audio). Other characteristics are automatic source detection (Dolby Digital, DTS, MPEG and PCM audio) with smooth (clicking free) switching. Lastly, the Tetra Core carries digital bass cross-over filters (for subwoofer signal) and 4th generation virtualizer algorithms for highly realistic virtual surround sound.

Natural Surround - Natural Surround creates a more realistic (natural) surround sound impression by creating phantom speakers in addition to the real speakers. These phantom speakers are created using psycho-acoustical sound encoding algorithms. Natural Surround gives the listener the impression of being surrounded by a 'wall of sound' and thus creates an even higher sense of realism. Natural Surround consists of in fact two features: multi-front and multi-rear, which can be activated individually or simultaneously in case of multi-front, phantom speakers are added to the front speakers. For multi-rear phantom speakers are added to the rear speakers.

* Dolby Digital laserdisc use requires optional AC-3 RF demodulator.

Sound Enhancement

3D Virtual Surround / Virtual Dolby Surround - A new Surround playback system that delivers amazingly rich and convincing surround sound from only the two or three front speakers. The ProLogic, MPEG, DTS or Dolby Digital surround channel is processed by a 'virtualizer' DSP to add surround effect from just the front speakers.

'Hall' feature - For use with non-surround sound sources in order to create a cinema effect through normal stereo with rear speaker sound. This 'simulated' surround provides an extra musical ('live') ambience to stereo sound.

Screw terminals - For left, right and center speaker connection ensures a loss-less flow of electrical signals from the set to all main loudspeakers.

Convenience

96kHz capable - DVD Audio offers 96kHz sound quality. As the processor of the receiver (Tetra Core) is capable of handling 96kHz and processing it in 24-bits, a DVD Audio player can be digitally connected to the receiver whilst preserving the sound quality of DVD Audio. At the same time, the digital output will provide a signal that can be recorded on any digital recorder like CDR.

Stereo Downmix - The digital output will automatically provide a stereo downmix in case a multichannel signal is detected at any of the digital input connectors. In that way digital audio recordings can be made from movie DVD's (e.g. Live concerts from music DVD's)

Night mode - Establishes dynamic range compression of digital sound to reduce the volume differences between the loud and soft passages in source material with digital surround sound where sound level differences can be so dramatic. This feature is especially useful at night when you don't want to disturb the neighbors or wake up the kids!

Digitals input and output - 4 digital inputs (2 coax, 2 optical) are foreseen to connect digital sound sources (e.g. DVD player, CD player and Digital TV). A digital output connection (coax) is foreseen to enable digital (CD) recordings from any of the digital inputs.

Video Connections - 4 video input connections and 2 outputs (incl. monitor) are foreseen to hook up video sources. As these video inputs switch simultaneously with the audio inputs, correct picture with correct sound is guaranteed.

Front A/V, Game Input - For quick and easy connection to e.g. a camcorder or video game.

6 Channel input (DVD Audio prepared) - Six input selectors at the back of the set allow to connect to any type of multichannel decoder. Be it DVD Audio or Super Audio CD. The 6 Channel input makes your system future proof!

Cinema Link System Control Bus - When connected to a Philips TV with 'Cinema Link' (and even better, in addition a Philips VCR and/or DVD player), the combination offers an interesting range of extra user benefits: *One Touch Cinema* - upon starting your e.g. DVD disc, the complete system will automatically switch to the correct source and sound mode. *High Resolution OSD* - the onscreen display of the television will feature the 'receiver' menu option. This option can be used for easier receiver set-up and receiver settings. *Multiple Languages* - depending on the languages offered by the TV (likely are Spanish, French and English) the user can operate the set via the TV menu in his/her native language. *TV as Center speaker* - allows to get rid of the separate center speaker and use all the speakers and amplifiers in the TV to function as center speaker (most large screen Philips TVs provide over 100W of output power). *One Touch End* - puts your complete home theater system into standby after some exciting hours of cinema enjoyment.

Convenience

51-key Audio/Video Multi Brand Universal remote control - To operate all main receiver functions and Philips or any other mainstream branded CD player, tape deck, VCR, television, DVD player or Satellite receiver. The remote will operate your non-Philips equipment by simply entering a code from the instruction manual in the remote control. The remote has a clear ergonomically designed lay-out (see picture).

30 tuner presets with station name display - The available tuner presets can be randomly used to store AM and FM stations (30 in total). Each of the presets can be given a user defined name of up to 8 characters, (/01, /15) Giving the preset a name is as easy as 1-2-3 with the menu navigator. For RDS stations, station name, RDS clock and RDS text information is available (/00).

RDS EON News & Traffic Announcement (TA) - Many RDS capable radio stations are of the so called EON (Enhanced Other Network) type. These stations are able to detect news broadcasts and traffic announcements of other stations in the same 'network'. The receiver display indicates when the active station is EON-capable.

When 'News' and/or 'Traffic Announcement' are activated by the user, the tuner will automatically switch to the correct station when a news bulletin or traffic announcement is broadcasted. Afterwards the tuner conveniently switches back to the original station. News and TA not only work in tuner mode: when the receiver is set to any of its other sources (e.g. CD, VCR, CDR, etc.) it switches to the tuner whenever there is a news or traffic bulletin. Whatever you're listening to, Philips keeps you informed on the most recent traffic and news affairs! (Note: although all EON stations offer 'TA', 'News' might not be widely available in every country).

Set up Menu Navigator - The menu navigator rotary knob takes away many buttons from the set, thereby reducing complexity and enhancing usability of the set. The menu navigator is a menu-based user interface used for all kinds of initial set-up operations (speaker set-up, tuner installation etc.) Via icons in the display, the system conveniently guides the user to the next step in the receiver set-up. In normal mode, the menu rotary functions as tuner preset dial.

Tuner sensitivity adjustment - The tuner sensitivity to pick up radio stations can be set to high and low. In case of low, only the 'strong' stations will be picked up during a search. When even some of the weaker stations are of interest, the 'low' option will pick up every station the tuner can possibly receive.

Display brightness adjustment - Conveniently adjusts the brightness of the display in 3 steps. (/01, /15 only)

2 switched mains outlets - Allows to connect 2 other HiFi components. Switching the receiver to standby will automatically switch off the connected set.

Standby power <2W - To help save energy consumption, the standby transformer of this set has been designed not to consume more than 2 Watt in standby mode.

Scart audio adapter - For easy connection between TV and VCR. (cable includes 'Cinema Link' connection) (/00)

Design

Harmonized Philips Home Cinema Components Design - The design of this component follows the design language of the Philips Harmonized Home Cinema design. Characteristics of this design language are stylish, simple, capable, powerful and rich. All Philips Home Cinema components and HiFi components will follow this design (e.g. VCR, CD Changer, DVD, etc.).

Display - Color and graphic/character size are defined such that visibility remains clear even at larger distances. Speaker icons are used to show the actual sound mode.

Remote Control - The form of the remote control has proven very successful in usability test. The weight, shape and button follow the book in terms of ergonomic design, thereby offering maximum convenience.

Let's make things better.

Technical Specifications

Connections

- Audio inputs/outputs : 8 analogue input sources, 3 analogue output connections
 - Phono : in
 - CD : in
 - CDR/Tape : in/out
 - TV : in
 - VCR : in/out
 - SAT : in
 - DVD : see digital audio inputs/outputs
 - Front AV/Game : in
 - 6ch/DVD : in
 - Headphone : 6.3 mm
- Digital audio inputs/outputs : 4 digital input sources, 1 digital output connection
 - 2 digital coax connections : in
 - 2 optical toslink connection : in
 - 1 digital coax connection : out (48 kHz)
 - all spdif acc. IEC 60958, sampling frequencies 32, 44.1, 48, 96 kHz, 24 bit
- Video inputs/outputs : 4 input sources, 2 output connections
 - DVD : in (S-VHS + CVBS)
 - SAT : in (S-VHS + CVBS)
 - VCR : in/out (S-VHS + CVBS)
 - Monitor : out (S-VHS + CVBS)
 - Front AV/Game : in
- Speaker connections suitable for speakers ≥ 6 Ohm
 - left, right, center : screw connection
 - rear left, right : click-fit connection
- Miscellaneous connections
 - Cinema Link system control bus : 2
 - subwoofer pre-out : 1
 - center pre-out : 2
 - mains outlets : 2 (maximum 100W total)
 - AM antenna : loop type
 - FM antenna : coaxial 75 Ohm

Amplifier

- Power output stereo mode 6 Ohms, DIN, 1 KHz, 0,7% THD
 - left, right : 2 x 100 W
- Power output surround mode 6 Ohms, 1KHz, 0,7% THD
 - left, right : 2 x 100 W
 - center : 100 W
 - rear left, right : 2 x 100 W
- Amplifier characteristics
 - total harmonic distortion : 0.05 % (1 kHz, 5W output)
 - power bandwidth (D<0.7%) : 20 Hz – 20 kHz
 - frequency response (linear) : 10 Hz – 30 kHz, ± 3 dB
 - signal-to-noise ratio (weighted) : > 85 dBA, (acc. IHF, 1 kOhm)
 - channel separation (crosstalk) : ≥ -65 dB, 1 kHz
- Controls
 - bass : 100 Hz, (-9dB ... +9dB)
 - treble : 10 kHz, (-9dB ... +9dB)
 - loudness : +6 dB (100Hz,-30dB), +3 dB (10kHz,-30dB)
- Surround
 - modes : Dolby Digital AC-3, DTS, MPEG Multichannel, ProLogic, Center Phantom, 3-Stereo, Hall
 - delay rear : 15 to 30ms (steps of 5ms)
 - center : 1 to 5ms (steps of 1ms)
- Audio input sensitivity
 - Phono : 5 mV / 47 kOhms / 220 pF
 - CD : 250 mV / 47 kOhms
 - CDR/Tape : 250 mV / 47 kOhms
 - TV : 250 mV / 47 kOhms
 - VCR : 250 mV / 47 kOhms
 - SAT : 250 mV / 47 kOhms
 - 6 CH/DVD : 250 mV / 47 kOhms
 - Front AV/Game : 250 mV / 22 kOhms

Amplifier

- Audio output sensitivity
 - CDR/Tape : 250 mV / 1 kOhm
 - VCR : 250 mV / 1 kOhm
 - subwoofer pre-out : 0.8 V / 1 kOhm
 - center pre-out : 2.5 V / 1 kOhm
 - headphone : 3 V / 120 Ohm

Tuner (typical values)

- FM section
 - wave range : see table on back side
 - Sensitivity at 75 Ohm
 - Mono 26 dB S/N : 17 dBf (/01, /15)
15 dBf (/00)
 - Stereo 46 dB S/N : 41 dBf
 - Selectivity : 55 dB at 300 kHz
 - Distortion mono/stereo : 0.9%, 0.8% (/01, /15)
0.85%, 0.3% (/00)
 - Frequency response : 63Hz-12.5KHz, ± 1 dB
 - S/N ratio mono/stereo : 60 / 55 dB
 - Stereo separation (1KHz) : 27 dB (/01, /15)
35 dB (/00)
 - Image rejection : 48 dB (/01, /15)
100 dB (/00)
 - IF suppression : 85 dB (/01, /15)
100 dB (/00)
 - Sub carrier suppression
 - for 19 KHz : 30 dB
 - for 38 KHz : 50 dB (/01, /15)
37 dB (/00)
- AM section
 - Wave ranges : see table on back side
 - Sensitivity (MW) : 1.5 V/m
 - Selectivity : 30 dB
 - IF rejection : 64 dB (/01, /15)
50dB (/00)
 - S/N ratio : 48 dB (/01, /15)
50dB (/00)

General

- Power supply
 - mains voltage : see table on back side
 - power consumption : < 2W (in standby) / (<3W for /01)
= 255W (in 5 channel operation)
= IEC65, FCC stereo
- Remote control
 - electrical requirements
 - keys : 51-keys
 - codes : RC5, RC6
 - type : Universal
- Set
 - material / finish : metal, hot-stamp foil on ABS
 - dimensions (incl. feet) : 435mm x 135mm x 350mm (W x H x D)
 - display : 2 color starburst FTD
 - weight : 9.4 kg
- Package
 - dimensions : 519mm x 216mm x 488mm (W x H x D)
 - weight (incl. set) : 10.8 kg
- Accessories
 - remote control
 - 2 AA carbon/zinc batteries
 - instruction manual
 - warranty information
 - AM loop FM wire antenna
 - scart audio adaptor (/00)
 - coax audio cable for DVD connection

