



Digital Audio/Video Receiver

FR975

## Digital Audio/Video Surround Receiver

- *Integrated Dolby Digital® (AC-3), DTS and Dolby Pro-Logic Surround Sound decoder*
- *500 Watts Surround Power Output : 5 x 100 Watts*
- *Digital Surround Processing via TETRA CORE*
- *Automatic Sound Type Detection (Dolby Digital, 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' for normal stereo with rear speaker sound (simulated surround)*
- *96 KHz processing (enables connection to DVD-Audio player)*
- *Night mode for Dynamic Range Compression of Digital Sound*
- *12 Audio Input connections in total*
- *4 Digital Inputs (2 coax, 2 optical) and a Digital Output Connection (coax) for Digital (CD) Recordings*
- *4 Video Input and 2 Output Connections (of which 5 S-Video connectors)*
- *6 Channel Input terminal*
- *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*
- *Harmonized Philips Home Cinema Components design*



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## Sound Enhancement

**Dolby Digital Surround Sound** - Available on DVD, Laserdisc\*, satellite broadcasts, Cable and as the standard for HDTV, Dolby Digital® 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.

**DTS** - DTS surround sound is a cinema surround sound audio format that offers superior digital audio performance than other available surround sound formats. DTS 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.

**500W surround power output** - The five 100W (left, right, center) and 2x100W (rear) receiver amplifiers deliver 500 Watts of home theater power. 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 Dolby ProLogic 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.

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

**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

**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!

**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 CD-R.

## Convenience

**Digital inputs 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.

**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)

**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. The backside has in addition to the composite video connections 5 S-Video connectors.

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

**Easy hook up** - With color coded speaker connections for quick and easy connection of all loudspeakers. By using distinct colors for each of the speaker connection terminal on the speaker and on the set, and using the same color for the cable, the chance of faulty connection (and customer complaints) are practically zero!

**6 Channel input** - 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 sound pressure). One Touch End - puts your complete home theater system into standby after some exciting hours of cinema enjoyment.

**51-key Audio/Video Multi Brand Universal remote control** - To operate all main receiver functions and Philips, Magnavox or any other mainstream branded CD player, tape deck, VCR, television and DVD player, Satellite or cable box! The remote will operate your non-Philips/Magnavox 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)

**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.

**Display brightness adjustment** - Conveniently adjusts the brightness of the display in 3 steps.

**2 switched mains outlets** - Allows to connect another HiFi component. Switching the receiver to standby will automatically switch off the connected set(s).

**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.

## 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, CD Recorder DVD, etc).

**Display** - Color and graphic/character size are defined such that at visibility remains clear even at larger distances.

## Connections

- Audio inputs/outputs
  - Phono :in
  - CD :in
  - CDR/Tape :in/out
  - TV :in
  - SAT :in
  - VCR :in/out
  - Front A/V Game :in
  - DVD :see digital audio inputs/outputs
  - 6 CH/DVD :in
  - Headphone :6.3mm
- Digital audio in/output
  - 4 digital input sources, 1 digital output connection
  - 2 digital coax connections :in
  - 2 optical to slink connection :in
  - 1 digital coax connection :out
- Video inputs/outputs
  - 4 input sources, 2 output connections
  - DVD :in.....(S-Video)
  - SAT :in.....(S-Video)
  - VCR :in/out....(2 S-Video)
  - Front A/V Game :in
  - Monitor :out.....(S-Video)
- Speaker Connections suitable for speakers ≥ 6 Ohm
  - left, right, center :screw type connection
  - rear left, right :click-fit connection
- Miscellaneous connections
  - Cinema Link System control bus
  - subwoofer pre-out :1
  - center pre-out :2
  - mains outlet :switched 2x
  - AM antenna :loop type
  - FM antenna :click-fit 300 Ohm

UPC Code : 0 37849 89369 2

Product Dimensions:

17.1" W x 5.3" H x 13.8" D (set)

Product weight: 20.7 lbs.

Package Dimensions:

20.4" W x 8.5" H x 19.2" D

Total package weight : 23.8 lbs.

Carton contains: receiver FR975/17, remote control, batteries, instruction for use, AM + FM antenna, quick installation card, warrantee information, connection cable, 'Cinema Link' cable, coax cable

Printed in Singapore

Date printed: Oct 1999

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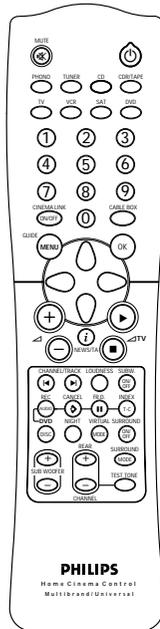
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"DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems Inc.

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

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



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