

# Upgrade your DVD Player into a Home Cinema System



## Digital Audio Surround Sound Receiver Package

- Upgrade your DVD player into a complete Digital Home Cinema System
- 600 Watts Total Power
- 6 Speaker Package with 100W wOOx subwoofer & 5 compact 2-way satellite speakers
- Integrated Dolby Digital® (AC-3), Dolby Pro-Logic and DTS Surround Sound decoder
- 500 watts surround power output: 3 x 100 watts + 2 x 100 watts
- 100 watts powered wOOx subwoofer for deeper bass
- 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
- 'HALL' feature for normal stereo with rear speaker sound
- All Dolby surround modes and delay times
- Night mode for dynamic range compression of digital sound
- 10 Audio input connections in total
- 3 Digital inputs and a digital output connection for digital recordings
- 3 Video input and 2 output connections (of which 5 S-video connectors)
- 6 Channel input connection for SACD compatibility
- 51 key A/V Remote Control



Let's make things better.



PHILIPS



### 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. Also known as AC-3 and Dolby 5.1, Dolby Digital® delivers the expanded sense of depth, localization and overall realism which was formerly only known from digital surround sound equipped 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 1:1:1 for Dolby Digital) and the 20-bit resolution. DTS movie and music software is available on various DVD and CD titles.

**6-speaker package** - No less than 5 compact 2-way satellite loudspeakers to build your personal cinema on a stand or wall-mounted with the enclosed wall-brackets. The five speakers are acoustically specially designed to match the tonal characteristics of the receiver. Front left, right and center speaker are magnetically protected to prevent any interference with television picture tube purity. The sixth speaker is a 100 watt powered subwoofer.

**600W surround power output** - The five, 3x100W (left, right, center) and 2x100W (rear), receiver amplifiers together with the 100W wOOx subwoofer amplifier deliver 600Watts of home theater power. The receiver power is specified per channel at 6 Ohm, 1 kHz and 1% total harmonic distortion (THD). The subwoofer power is specified at 4 Ohm, 55 Hz and 10% 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.

**100W powered wOOx subwoofer** - Subwoofers add dynamism to normal music and motion pictures. It sets the stage for a more intense sensation. The 100W Philips wOOx subwoofer features a down firing 6 1/2" active woofer to reflect sound wave of the floor. Additionally a 6 1/2" wOOx base radiator adds even more punchy bass. In all, the subwoofer is sufficiently power packed to generate that cinema essential sonic sound boom.

### wOOx Technology

Philips patented wOOx Technology ensures superior bass results. The dual suspension bass radiator, together with dedicated amplifier circuitry, is especially designed to produce and handle high dynamic sound signals at very low frequencies. Because of the dual suspension, the excursion of the membrane can be extreme (see illustration). This, in combination with the symmetrical sandwich construction, provides for very low and precise bass without noticeable distortion. The net effect of using wOOx Technology is a tight bass sound that is significantly 'lower and louder' than conventional mini shelf systems.

**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 Pro-Logic 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.

**'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.

**Equalizer Smart Sound** - Has 5 modes, specially designed to match the sound of various TV (and Audio) programs. 'Speech' is used for news, discussions and talk show programs. 'Music' is used for music programs. 'Movie' is used for movies or TV-series or soaps. 'Multi-Media' is used when video games are connected to the TV. 'Personal' corresponds with the bass and treble setting chosen by the user.

**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.

### Convenience

**Digital inputs and output** - 3 digital inputs (2 coax, 1 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. The output can provide a down-mixed (stereo) DVD multi-channel sound signal in order to record from DVD to e.g. CD-R.

**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!

**Video Connections** - 3 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. All video connections are both S-Video and composite video.

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

**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!

**51-key Audio/Video remote control** - To operate all main receiver functions and many other Philips CD players, VCR's, Televisions and DVD players. The remote has a clear ergonomically designed layout (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. Giving the preset a name is as easy as 1-2-3 with the menu navigator.

**1 switched mains outlets** - Allows to connect another HiFi component. 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.

### Design

**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
  - 6 CH-SACD/DVD :in
  - DVD :see digital audio inputs/outputs
  - Headphone :6.3mm
- Digital audio in/output
  - 2 digital coax connections: :in
  - 1 optical slink to connection :in
  - 1 digital coax connection :out
- Video inputs/outputs
  - 3 input sources, 2 output connections
  - DVD :in (S-VHS + CVBS)
  - SAT :in (S-VHS + CVBS)
  - VCR :in/out (2 x S-VHS + CVBS)
  - Monitor :out (S-VHS + CVBS)
- Speaker Connections suitable for speakers  $\geq 6$  Ohm
  - left, right, center :click-fit 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 1x
  - AM antenna :loop type
  - FM antenna :click-fit 300 Ohm

UPC Code : 0 3784991 8746

### Product Dimensions:

- 17.2" W x 5.3" H x 13.8" D (receiver)
- 3.7" W x 5.9" H x 3.6" D (l/r, center + surround)
- 9.8" W x 3.7" H x 3.4" D (center speaker)
- 7.9" W x 12.2" H x 14.6" D (subwoofer)

Product weight: 45 lbs (receiver)

Package Dimension: 21.3" W x 18.5" H x 19.5" D

Container loading: 480 pieces

Country of origin: China

Carton contains: receiver FR994/17, remote control, batteries, instruction for use, AM + FM antenna, quick installation card, warranty information, 6 loudspeakers (incl. subwoofer), loudspeaker cable (L/R: 2x9ft, C: 1x9ft, S: 2x33ft), subwoofer mains + connection cable, 3x cinch cable for DVD and TV connections.

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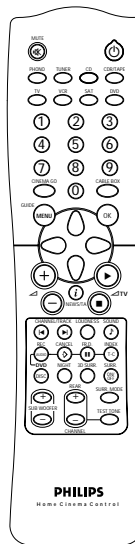
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\* Dolby Digital laserdisc use requires optional AC-3 RF demodulator

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