

Philips DVD-Video/SACD Changer



5 Disc SACD/DVD Changer

PICTURE QUALITY

- **Component, composite and S-Video outputs**
- **RGB on scart: highest quality video connection**

SOUND QUALITY

- **Built-in DSD, Dolby Digital and DTS decoders**
- **CD upsampling to 176.4Khz/24bit**
- **SACD bass management for optimised bass response**
- **Philips 3-D surround sound for real surround effect on stereo output**
- **Optical and coaxial digital audio output**
(Dolby Digital, DTS, MPEG2 and PCM)

GREAT CONVENIENCE

- **5 disc DVD/CD changer**
- **Plays DVD-Video, SACD, CD, CD-R/CD-RW, MP3-CD, VCD and S-VCD**
- **Dual laser optical pickup unit for optimum CD-R and CD-RW playback**
- **Multi-standard video compatibility (NTSC and PAL)**
- **Cinemalink: one touch Home Cinema control**
- **CD/SACD-Text**
- **Double Scart**



Let's make things better.



PHILIPS

DVD-Video player



Technical specifications DVD 910SA

Playback system

- SACD multi-channel
- SACD Stereo
- DVD-Video
- Video CD (VCD)
- S-Video CD (SVCD)
- MP3-CD
- CD (CD-R and CD-RW)¹

Optical read-out system

- Laser type Semiconductor AlGaAs
- Numerical Aperture 0.60 (DVD)
0.45 (VCD/SVCD/CD)
- Wavelength 650 nm (DVD)
780 nm (VCD/SVCD/CD)

DVD disc format

- Medium Optical disc
- Diameter 12 cm (8 cm)
- Playing time (12cm)

One layer	2.15 h ²
Dual layer	4 h ²
Two side, single layer	4.30 h ²
Two side, dual layer	8 h ²

TV standard

- | | | |
|-------------------|---------------------------|-------------|
| | PAL | NTSC |
| | 50 Hz | 60Hz |
| • Number of lines | 625 | 525 |
| • Playback | Multi-standard (PAL/NTSC) | |

Audio format

DSD	Stereo and Multi-channel
MPEG/ Dolby Digital/DTS/PCM	Compressed digital, 16, 20, 24 bits fs, 44.1, 48, 96 kHz
MP3 (ISO 9660)	96, 112, 128, 256 kbps and variable bit rate fs 32, 44.1, 48 kHz

- Full decoding of Dolby Digital and DTS multi-channel sound
- Analog Sound Stereo
- Dolby surround compatible downmix from Dolby Digital multi-channel sound
- 3D Sound for virtual 5.1 channel sound on 2 speakers

Video format

- Digital compression MPEG 2 for DVD, SVCD
MPEG 1 for VCD

DVD	50Hz	60Hz
Horiz. resolution	720 pixels	720 pixels
Vertical resolution	576 lines	480 lines
VCD	50Hz	60Hz
Horiz. resolution	352 pixels	352 pixels
Vertical resolution	288 lines	240 lines

SACD audio performance

D/A converter	DSD	
SACD:	fs 2.8224Mhz	DC - 100kHz
Max. output voltage (OdB)	2V rms	
Channel unbalance	<0.5 dB	
Cut-off frequency: Front Channel	50kHz	

- Signal-Noise (1kHz) 105 dB
- Dynamic Range (1kHz) 105 dB
- Crosstalk (1kHz) 105 dB
- Total harmonic distortion (1kHz) 95 dB

Audio performance (Without upsampling)

D/A converter	24 bits	
DVD	Fs 96 kHz	4 Hz- 44 kHz
	Fs 48 kHz	4 Hz- 22 kHz
CD/Video CD	Fs 44.1 kHz	4 Hz- 20 kHz
S-Video CD	Fs 48 kHz	4 Hz- 22 kHz
	Fs 44.1 kHz	4 Hz- 20 kHz

- Signal-Noise (1kHz) 100 dB
- Dynamic Range (1kHz) 95 dB
- Crosstalk (1kHz) 105 dB
- Total harmonic distortion (1kHz) 90 dB

Video performance

- RGB output 0.7Vpp into 75 ohm
- YUV output Y: 1Vpp into 75 ohm
CrCb: 0.7 Vpp into 75 ohm
- S-Video Output Y: 1Vpp into 75 ohm
C: 0.3Vpp into 75 ohm
- Video output 1 Vpp into 75 ohm
- Black Level Shift On/off
- Video Shift Left/right

Connections

- SCART Euroconnector 2x
- Y, Cb, Cr output (480i) Cinch 3x (green, blue, red)
- S-Video output Mini DIN, 4 pins
- Video Output Cinch (yellow) 2x
- Audio L+R output Cinch (white/red)
- Digital Output 1 coaxial, 1 optical
IEC958 for CDDA / LPCM
IEC1937 for MPEG1/2, Dolby Digital, DTS

6 Channel analog output

- Audio Front L/R Cinch (white/red)
- Audio Surround L/R Cinch (white/red)
- Audio Centre Cinch (blue)
- Audio Subwoofer Cinch (black)

Power supply

- Power inlet 110-240V, 50/60 Hz
- Power usage Approx. 20 watt
- Power usage standby Less than 4 watt

Cabinet

- Dimension 435 x 115.5 x 415.6 mm
(w x h x d)
- Weight Approx. 6 kg

Package contents

- DVD-video player
- Remote control with batteries
- User manual
- Video cable/Audio cable
- Scart cable

General functionality

- Stop/ play/ pause
- Fast forward/ backward
- Step forward/ backward
- Slow motion
- Title/ chapter/ track select
- Skip next/ skip previous
- Repeat (Chapter/ title/ all) or (Track/ all)
- A-B repeat, Shuffle & Scan
- Zoom (x1.33, x2, x4) with picture enhancement
- 3D sound
- 5.1 Channels user defined speaker settings
- Virtual Jog Shuttle
- Enhanced smart picture with Monitor type selector
- SACD/CD Text
- Resume (5 disc) after stop / standby3
- Parental Control and Disc lock (120 disc)
- NTSC/PAL conversion
- Smart power off for better energy saving
- SACD bass management
- Audio Upsampling
- 5-disc changer

DVD functionality

- Multi-angle selection
- Audio selection (1 out of max. 8 languages)
- Subtitles selection (1 out of max. 32 languages)
- Aspect ratio conversion (16:9, 4:3 letterbox, 4:3 Pan can)
- Disc Menu support (title menu and root menu)

Video CD, SVCD functionality

- Playback control for VCD 2.0 discs and SVCD
- Audio Selection (1 out of max. 4 languages) for SVCD

MP3 functionality

- Time display (Track)
- Album and track selection
- Repeat (disc/album/ track)
- Nested directory levels supported to 8 levels
- Max. albums possible is 32
- Max. number of tracks is 999

- 1 Applicable for finalized multi-session discs also.
- 2 Typical playing time for movie with 2 spoken languages and 3 subtitle languages.
- 3 Applicable only for DVD, VCD, SVCD discs