Ready for
iPod

Discover a new force of nature

Feel the beat of the jungle, sounding out powerful, pure and crisp. That's exactly what you get when you opt for Pioneer's cleverly constructed A/V amplifier and receivers. At the centre of your quest for exceptional entertainment, they create a new and exciting audio environment in your home. Play any sound format and your room is automatically and perfectly filled. With digital connectivity, as well as a connection for your iPod®, the audio adventure is even more absolute.

STANDOUT TECHNOLOGIES

THE CONCEPT BEHIND MULTI-CHANNEL SURROUND SOUND EXCELLENCE

In order to recreate the natural sound and energy of the original performance, Pioneer's Advanced Multi-Channel Stereophonic Philosophy aims to match the audio reproduction to the music and film soundtrack master recording. This unique audio concept is made up of three professional audio principles, as outlined below. In this way you can elevate the performance of your home system to professional sound studio levels.

ADVANCED MULTI-CHANNEL STEREOPHONIC PHILOSOPHY

	Professional Sound Studio Principles Applied to Home Environments
STEP 1	**HIGHEST QUALITY EQUIPMENT** Best possible parts and construction available for home sound equipment produce pure and powerful sound
STEP 2	**PRECISE SOUND REPRODUCTION** Pioneer's unique Advanced Multi-Channel Acoustic Calibration system automatically calibrates the sound for individual living rooms
STEP 3	**PROFESSIONAL EXPERTISE** Sound tuning by AIR Studios, THX Ultra2/THX Select2 certification and support of the latest surround formats reproduce the art in sound

PIONEER PREPARES YOU FOR A TRULY DIGITAL INTERFACED ENVIRONMENT

The range of digital connections in the new multi-channel A/V receivers ensures that you're ready for the digital era. Now that a true digital interface is possible, digital-to-analogue conversions are made redundant and therefore the pure digital quality shines through. Remarkably streamlined HDMI connections allow you to switch easily between two HDMI-capable sources while preserving perfect picture quality via high-resolution video signals. Another single-cable convenience can be found with i.LINK. This pure digital connection between an A/V amp/receiver and a DVD player lets you enjoy high-resolution audio formats like DVD-Audio and SACD. An iPod® port is tech-heaven for fans of portable digital music. With the USB terminal, you can easily hook up your computer as well.

THX Ultra2

Advanced MCACC with Microphone

i.LINK

VSA-AX10Ai-S Audio/Video Multi-Channel Amplifier

170 W x 7 DIN

VSA-AX10Ai-S with open front input cover

MCACC Set-up Microphone

MAIN FEATURES

★ Enjoy 7.1-channel playback from any multi-channel programme over the widest possible seating area with this THX Ultra2 certified product
★ Measure and adjust acoustic parameters automatically with the Advanced MCACC calibration microphone and 9-band equaliser
★ The Ultra Digital Core Engine ensures the clearest sound possible, with high-tech digital circuitry
★ The WMA9 Pro decoder provides premier top-notch digital surround sound
★ Use the Multi-channel USB terminal to amplify 2-channel as well as multi-channel audio from your PC
★ Enjoy audiophile-pleasing crystal-clear sound and deep bass thanks to the Stable Cast Iron Base, which controls all unnecessary vibration
★ Experience enhanced SACD sound quality and alternative SACD gain setting with the 176.4 kHz/32-bit high-precision DSD to PCM conversion
★ AIR Studios, one of the most renowned recording studios in the world, contributed its best sound engineers and expertise to this stereophonic multi-channel amplifier
• Thanks to the i.LINK interface you can achieve the very best device-to-device digital audio data communication, with no quality loss, and jitter-free transmission of DVD-Audio/CD/SACD with the help of PQLS (Precision Quartz Lock System)
• Thanks to the advanced Direct Construction you can enjoy high-performance audio with a minimum of distortion and suppressed signal interference
• Properly reproduce 7.1-channel high-end quality audio from the latest multi-channel formats thanks to the 7-channel Advanced Direct Energy MOSFET
• The Audio Scaler improves the sound quality of both stereo and multi-channel sources to a level approaching that of DVD-Audio
• Appreciate extensive application of surround sound decoders for enjoyment of all the latest surround sound formats (DTS 96/24, DTS ES Matrix 6.1, DTS ES Discrete 6.1, Dolby Digital EX, THX Surround EX, DTS Neo:6 and Dolby Pro Logic IIx)

THX
SURROUND EX
U L T R A 2

**THX ULTRA2 PROCESSING AND CERTIFICATION** (VSA-AX10Ai)

THX Ultra2 means enjoying exciting 7.1-channel playback performances from multi-channel programmes. Whereas original THX Ultra was intended for Dolby Pro Logic sources, THX Ultra2 is entirely adapted to recent high-quality digital formats such as DTS and Dolby Digital. Pioneer's VSA-AX10Ai was the first in the world to adopt this technology — a true breakthrough in home entertainment. THX Ultra2 ensures optimal multi-channel music and film enjoyment. In addition to THX Cinema and THX Surround EX, THX Ultra2 technology includes two new modes featuring THX exclusive technology, ASA (Advanced Speaker Array). THX Ultra2 Cinema allows non-Surround EX-encoded, Dolby Digital 5.1 and DTS 5.1 material to be played on a seven-speaker configuration. For music playback, THX Music Mode can handle all types of music formats, including high-resolution DVD-Audio and SACD multi-channel music recordings.

For more details on features and technology, please visit www.pioneer-eur.com

TOP-PERFORMANCE COMPONENTS

Only the most select parts and cutting-edge technology are found in Pioneer's high-end A/V amplifier and receivers. Each has been precisely engineered with an ultra rigid construction, the best-in-class amplifier design and advanced digital processing — the first step in Pioneer's Advanced Multi-Channel Stereophonic Philosophy. It is crystal clear that these high-class components were designed with a quest for pure sound perfection.

STABLE CAST IRON BASE FOR ULTIMATE CHASSIS RIGIDITY
(VSA-AX10Ai)

Combined with the 3-D space frame, the stable cast iron base realises heretofore unknown chassis rigidity. The heavy 4 kg cast iron base, made by TAOC — known as the quality audiophile accessory brand — overwhelmingly enhances the strength and stability of the chassis. And it serves to support and intercept external vibration thanks to its specially designed material — 10 times more anti-resonant than steel. The base contacts the frame at 15 points with the newly developed, patent-pending pivot-shape for crystal-clear and even deeper bass sound.
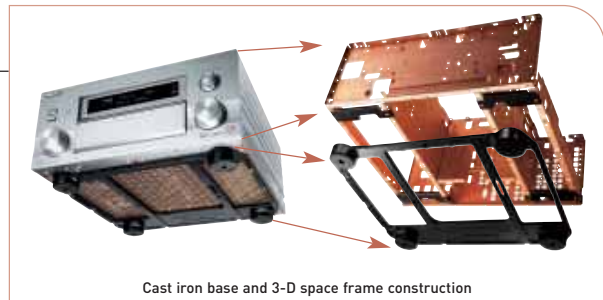
Cast iron base and 3-D space frame construction

CHIMNEY-SHAPED HEAT SINK FOR EFFICIENT HEAT DISSIPATION AND LOW RESONANCE (VSA-AX10Ai)

Since this amplifier incorporates 7-channel, high power units, it generates a huge amount of energy. The chimney-shaped heat sink acts as a natural cooling system, releasing excess heat from the power elements which could otherwise adversely affect operation. There is less resonance compared to general cooling systems, and the sound remains transparent to the source input signal.

Chimney-shaped large heat sink

ULTRA DIGITAL CORE ENGINE FOR MORE POWERFUL SIGNAL PROCESSING (VSA-AX10Ai)

The VSA-AX10Ai uses twin 32-bit floating-point processors SHARC Melody Ultra and 48-bit processing Motorola DSP engines, such as those widely used in pro audio equipment. Pioneer engineers created the most advanced digital processing module, the Ultra Digital Core Engine, optimised for the DSPs. It features a short signal path thanks to the latest 6-layered circuitry board design and an exclusive processing algorithm. The Ultra Digital Core Engine processes the data with extreme precision, and delivers more powerful multi-channel sound decoding and processing than ever before. This engine can handle all the latest surround formats, and makes high-definition-quality 96 kHz/24-bit processing possible for Dolby Pro Logic IIx, THX and DTS Neo:6.


Ultra Digital Core Engine

PROFESSIONAL SOUND REPRODUCTION WITH ADVANCED MCACC (VSA-AX10Ai, VSX-AX4AVi, VSX-AX2AV)

With Pioneer's Advanced Multi-Channel Acoustic Calibration system (MCACC) — an automatic sound field adjustment system created by Pioneer experts in cooperation with AIR Studios professional sound engineers — you are able to precision-tune your home system to your living room just like a sound professional, with minimum effort. Using the included calibration microphone, the MCACC system monitors the sound environment and automatically adjusts various sound parameters. (See page 55 for more info.) Advanced MCACC also neutralises the effects of reverberation, caused by obstacles or imperfect room characteristics. With Pioneer's patent-pending 3-D Calibration method, frequency and level readings are taken for each band at a series of time intervals. This enables even more accurate tonal measurement and calibration of the frequency balance. The sound is adjusted based on how we actually hear it.

You can even visualise the room acoustics of your own room on your PC, and therefore make more accurate settings. All that's needed is to connect an RS-232C cable (not included) to your PC, and download software from the Pioneer website. You can also consult this site to get calibration results for the VSX-AX4AVi and the VSX-AX2AV.

The VSA-AX10Ai also includes an automatic 'X-curve' adjustment*, to ensure that the sound is perfectly matched to your room size. Our perception of the sound frequency changes depending on our distance from the source (high frequencies decrease more for larger rooms). 'X-curve' compensates for this difference.

Audio will be fine-tuned and personalised for your home — heard exactly the way the recording engineers intended.

* X-curve is authorised as an international standard, ISO 2969.
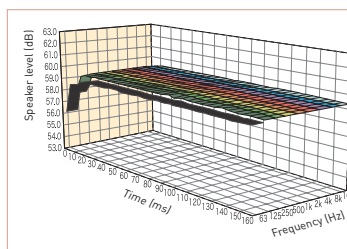
Example of a room with no reverberation — nonexistent in a home environment
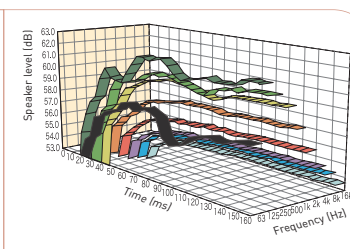
Example of a room with a large amount of reverberation — frequency and level measured over time reveal reverberation in the room

HDMI

Advanced MCACC
with Microphone

i.LINK

NEW VSX-AX4AVi-S — Audio/Video Multi-Channel Receiver

150 W x 7 DIN

VSX-AX4AVi-S with open front input cover

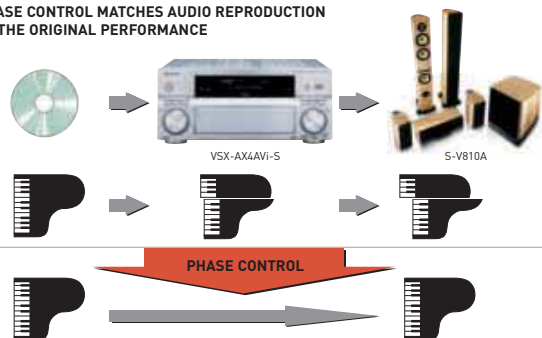**Ready for iPod**

MCACC Set-up Microphone

MAIN FEATURES

★ The i.LINK interface guarantees the very best device-to-device digital audio data communication, with no quality loss, and jitter-free transmission of DVD-Audio/CD/SACD with the help of PQLS (Precision Quartz Lock System)

★ The HDMI interface makes a direct digital audio (including DVD-Audio)/video connection between your receiver and an HDMI-equipped Pioneer Plasma, DVD player/recorder with a single cable

★ This THX Select2 certified A/V receiver delivers an immersive DVD, movie and gaming experience

★ Measure and adjust acoustic parameters automatically with the Advanced MCACC calibration microphone and 9-band equaliser

★ Hook up your iPod® through the dedicated, high-quality connection and navigate the iPod® menu on the receiver's FL display as well as on the OSD (On-Screen Display)

★ Operate your system easily with Advanced SR+ — view the receiver's status and controls on a Pioneer Plasma TV, and use the macro function to perform multi-step commands at the push of a button

★ Properly reproduce 7.1-channel high-end quality audio from the latest multi-channel formats thanks to the 7-channel Advanced Direct Energy Circuitry

★ Connect your computer to the receiver's USB terminal and amplify 2-channel music from your PC

• Up to 6 MCACC room settings can be memorised to best match your preferred listening position

• Reproduce accurate low frequency sound by using the Standing Wave Control to reduce standing waves

• Match the phase levels precisely with Pioneer's Phase Control technology

A WIDE RANGE OF CONNECTION POSSIBILITIES
(VSX-AX4AVi, VSX-AX2AV)

USB

VSX-AX4AVi-S

HDMI HIGH DEFINITION MULTIMEDIA INTERFACE

iPod®

Laptop

DVR-930H-S

DV-989AVi-S

2005 MCACC INNOVATIONS (VSX-AX4AVi, VSX-AX2AV)

PHASE CONTROL MATCHES AUDIO REPRODUCTION TO THE ORIGINAL PERFORMANCE

VSX-AX4AVi-S

S-V810A

PHASE CONTROL

For more details on features and technology, please visit www.pioneer-eur.com

HDMI

Advanced MCACC
with Microphone

THX Select2

NEW **VSX-AX2AV-S** Audio/Video Multi-Channel Receiver

140 W x 7 DIN

VSX-AX2AV-S with open front input cover

**Ready for iPod**

MCACC Set-up Microphone

MAIN FEATURES

★ The HDMI interface makes a direct digital audio (including DVD-Audio)/video connection between your receiver and an HDMI-equipped Pioneer Plasma, DVD player/recorder with a single cable

★ Hook up your video components easily thanks to the Digital Video Converter

★ This THX Select2 certified A/V receiver delivers an immersive DVD, movie and gaming experience

★ Measure and adjust acoustic parameters automatically with the Advanced MCACC calibration microphone and 9-band equaliser

★ Hook up your iPod® through the dedicated, high-quality connection and navigate the iPod® menu on the receiver's FL display as well as on the OSD (On-Screen Display)

★ Operate your system easily with Advanced SR+ — view the receiver's status and controls on a Pioneer Plasma TV, and use the macro function to perform multi-step commands at the push of a button

★ Properly reproduce 7.1-channel high-end quality audio from the latest multi-channel formats thanks to the 7-channel Advanced Direct Energy Circuitry

• Up to 6 MCACC room settings can be memorised to best match your preferred listening position

• Reproduce accurate low frequency sound by using the Standing Wave Control to reduce standing waves

• Match the phase levels precisely with Pioneer's Phase Control technology

STANDING WAVE CONTROL

STANDING WAVE CONTROL OFF

STANDING WAVE CONTROL ON

Original Frequency

Response Compensating Curve

NEW PHASE CONTROL TECHNOLOGY PRECISELY MATCHES PHASE LEVELS

Phase mismatching can occur at any stage in the audio process, during recording or reproduction at home. Various speaker size configurations need the low-pass filter function, and this can cause delay in lower frequencies. Pioneer's new Phase Control technology calibrates the delay and aligns the phase precisely, to match it for all channels and achieve new levels of sonic purity!

REDUCE STANDING WAVES IN YOUR ROOM

An unwanted phenomenon, acoustic standing waves occur in most rooms. They create peaks in the low frequencies, resulting in a boomy sound. Pioneer's new Standing Wave Control neutralises this effect, by creating a flatter frequency response while respecting the phase differences between each channel. Since more filters are utilised in the lower bandwidths, up to 3 standing waves can be more precisely identified and reduced. Reproduction of low frequencies is truer than ever.
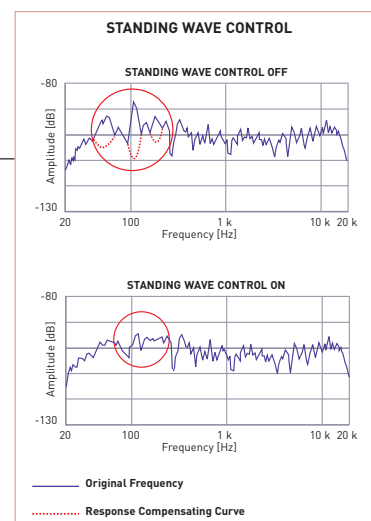
THX Select2

Auto MCACC
with Microphone

WMA9 Pro

NEW | **VSX-1015-S/K** | **Audio/Video Multi-Channel Receiver**

120 W x 7 DIN

VSX-1015-S

VSX-1015-S with open front input cover

VSX-1015-K

MCACC Set-up
Microphone

MAIN FEATURES

★ This first ever THX Select2 certified A/V receiver delivers an immersive DVD, movie and gaming experience
★ Properly reproduce 7.1-channel high-end quality audio from the latest multi-channel formats thanks to the 7-channel Advanced Direct Energy MOSFET
★ Experience sound purity as a result of the innovative 3-D construction: it reinforces the chassis to eliminate distortion
• Measure and adjust acoustic parameters with the calibration microphone of the MCACC system with 5-band equaliser
• Extensive application of surround sound decoders for enjoyment of all the latest surround sound formats (DTS 96/24, DTS ES Matrix 6.1, DTS ES Discrete 6.1, Dolby Digital EX, THX Surround EX, DTS Neo:6 and Dolby Pro Logic IIx)
• The WMA9 Pro decoder provides premier top-notch digital surround sound
• 9 Original Surround Modes let you choose depth and quality of sound to suit your taste and entertainment
• Component video terminals (3 in/1 out) with maximum quality, including support for high definition and progressive signal sources
• The SR+ terminal lets you view the receiver's status and controls on a Pioneer Plasma TV
• Enjoy added convenience and control with the preset & learning remote control with LCD display

THX

SELECT2
SURROUND EX.

THX SELECT2 CERTIFICATION (VSX-AX4AVi, VSX-AX2AV, VSX-1015)

Developed by Lucasfilm Productions, THX is a seal of approval found on home cinema equipment and software, signifying that the highest quality standards have been used. THX Select2 is a quality hallmark of receivers that sets a performance benchmark for home theatre audio reproduction, assuring the best-in-class performance.

Pioneer's VSX-1015 was the first-ever receiver in the industry to receive THX Select2 certification. Now available for several Pioneer multi-channel receivers, THX Select2 provides additional THX listening modes for enhanced playback of a variety of entertainment content, including movies, music and games. Thanks to full 7.1-channel THX EX processing, it will bring you the best possible sound reproduction using 7 channels, whether you're watching, listening or playing.

For more details on features and technology, please visit www.pioneer-eur.com

Auto MCACC
with Microphone

7.1-channel
Amp

WMA9 Pro

NEW   **VSX-915-S/K**

A/V Receiver

100 W x 7 DIN

VSX-915-S with open front input cover

VSX-915-K

MCACC Set-up
Microphone

MAIN FEATURES

★ 7.1-channel quality audio from the latest multi-channel formats thanks to the new power amplifier design with PHA (Pioneer Hybrid Amplification) and Direct Construction

★ Enjoy added convenience and control with the preset & learning remote control with LCD display

★ In Bi-Amp mode, both the front and the surround back speaker terminals are used to drive the front speakers, for an improved front soundstage

• Measure and adjust acoustic parameters with the calibration microphone of the MCACC system with 5-band equaliser

• Extensive application of surround sound decoders for enjoyment of all the latest surround sound formats (DTS 96/24, DTS ES Matrix 6.1, DTS ES Discrete 6.1, Dolby Digital EX, DTS Neo:6 and Dolby Pro Logic IIx)

• The WMA9 Pro decoder provides premier top-notch digital surround sound

• 10 Original Surround Modes let you choose depth and quality of sound to suit your taste and entertainment

• Component video terminals (3 in/1 out) with maximum quality, including support for high definition and progressive signal sources

• The SR+ terminal lets you view the receiver's status and controls on a Pioneer Plasma TV

MCACC
Multi-channel Acoustic
Calibration System

SOUND STUDIO SURROUND, WITH AUTO MCACC

(VSA-AX10Ai, VSX-AX4AVi, VSX-AX2AV, VSX-1015, VSX-915, VSX-515)

The MCACC (Multi-Channel Acoustic Calibration System) Set-up, jointly developed with world-renowned AIR Studios, situated in London, is a user-friendly soundfield adjustment system, which enables you to replicate the sound and feel of a movie sound studio at home. Pioneer's revolutionary Automatic MCACC technology does all of this automatically, analysing your speaker settings and room acoustics by means of a calibration microphone. Plug it in, and it does the necessary analysis, making the required adjustments. The end result: high-quality surround sound perfectly calibrated to your room in a matter of minutes.

AIR Studios control room

Auto MCACC
with Microphone

WMA9 Pro

NEW **VSX-515-S/K** A/V Receiver

100 W x 6 DIN

MCACC Set-up Microphone

VSX-515-S

VSX-515-K

MAIN FEATURES

★ Enjoy 6.1-channel quality audio from the latest multi-channel formats thanks to the new power amplifier design with PHA (Pioneer Hybrid Amplification) and Direct Construction
★ Extensive application of surround sound decoders for enjoyment of all the latest surround sound formats
★ Measure and adjust acoustic parameters with the calibration microphone of the MCACC system with 5-band equaliser
★ Dolby Pro Logic IIx lets you immerse yourself in a natural 6.1-channel soundfield, transformed from 2- or 5.1-channel sources creating a total surround experience for music and movies

Multi-channel Surround

NEW **VSX-415-S/K** A/V Receiver

100 W x 5 DIN

VSX-415-S

VSX-415-K

MAIN FEATURES

★ Precise application of surround sound decoders (Dolby Digital, DTS, Dolby Pro Logic II) with Motorola 48-bit processing DSP
• Enjoy 5.1-channel quality audio from the latest multi-channel formats thanks to the new power amplifier design with PHA (Pioneer Hybrid Amplification) and Direct Construction
• Immerse yourself in exciting multi-channel surround sound from a variety of sources, even from 2-channel sources (Dolby Pro Logic II)
• Use the Quick Set-up to set the correct surround sound easily, simply by inputting the room size and number of speakers
• Direct Construction ensures high-performance audio, minimising distortion and suppressing signal interference
• 9 Original Surround Modes let you choose depth and quality of sound to suit your taste and entertainment
• Experience high sound quality, thanks to effective temperature control by the Pioneer Hybrid Amplification (PHA) Circuit

For more details on features and technology, please visit www.pioneer-eur.com
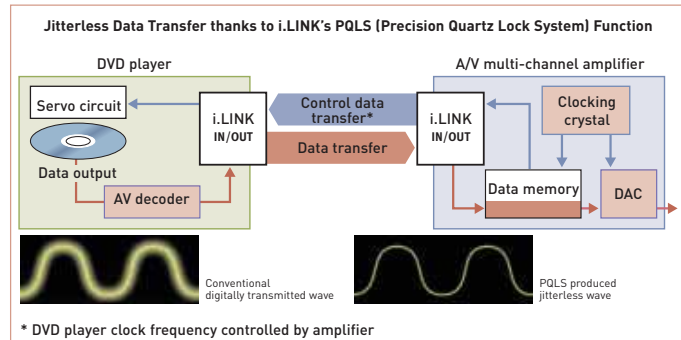
DIGITAL INTERFACING

PURE DIGITAL AUDIO TRANSMISSION: THE i.LINK (ADVANCED RESOLUTION DIGITAL AUDIO INTERFACE)
(VSA-AX10Ai, VSX-AX4AVi)

The realism of high-resolution DVD-Audio and SACD audio is astonishing. But some of the fine details are lost in the digital-to-analogue conversion, and vice versa during digital signal processing. Thanks to the i.LINK* Advanced Resolution Digital Audio Interface, all the original details are preserved. i.LINK supports device-to-device digital audio data transfers of all major compressed and uncompressed formats including operational commands. Only one digital cable is needed to connect the amplifier/receiver with any i.LINK-equipped audio source component — for example a DVD-Audio/Video/SACD player — to handle DVD-Audio and SACD discs (both multi-channel and 2-channel), not to mention digital audio from DVD-Video and CD. By utilising i.LINK's 2-way communication between units, Pioneer's PQLS (Precision Quartz Lock System) is able to conform the speed of the DVD player's signal transfer to the amplifier/receiver's crystal clock speed. This reduces jitter arising from the signal transmission to an absolute minimum**, and SACD and DVD-Audio sound reproduction is as true to the original source as possible.

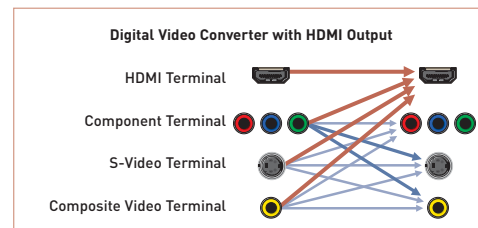* The i.LINK interface is also known as IEEE1394. 'i.LINK' and the 'i.LINK' logo are trademarks.

** When connected to a source player (DVD player, CD/SACD player) with compatible feature such as PQLS.

Jitterless Data Transfer thanks to i.LINK's PQLS (Precision Quartz Lock System) Function

* DVD player clock frequency controlled by amplifier

ONE CONNECTION FOR COMPLETE DIGITAL TRANSFER OF ALL SIGNALS (VSX-AX4AVi, VSX-AX2AV)

A single HDMI cable allows high definition video and uncompressed multi-channel surround audio — as well as standard stereo — to be directly transmitted between two HDMI-equipped units. The purity of the signal is maintained, true to the original, with absolutely no distortion or loss of quality. Two HDMI inputs are available, in addition to the standard inputs, allowing you to connect even more sources. Pioneer's Digital Video Converter even allows component, S-Video and composite signals to be up-converted to HDMI, allowing a single connection to your display. With the range of connection options, it is easy to configure any home installation. Additionally, you can adjust video parameters, such as brightness and contrast, independently for each function.

Digital Video Converter with HDMI Output

HDMI Terminal
Component Terminal
S-Video Terminal
Composite Video Terminal

HIGHEST QUALITY EQUIPMENT

INNOVATIVE FRAME DESIGN CONCEPT GIVES SUPERIOR SUPPORT (VSA-AX10Ai, VSX-AX4AVi, VSX-AX2AV, VSX-1015)

The revolutionary 3-D space frame construction reinforces the physical strength of the amplifiers/receivers. Unlike traditional 2-D chassis designs, each part is fixed to the frame from various angles, so the unit has the strength to support the heavy transformer, without any distortion. The double-layered chassis ensures an extremely strong and rigid base for the 3-D frames. In addition, the chassis is copper-plated* to suppress signal interference between circuits and reduce ground impedance. This 3-D space frame works simultaneously with the concentrated direct construction to further minimise signal interference — which results in an open and fresh sound.

* VSA-AX10Ai only.

VSA-AX10Ai 3-D space frame with direct construction design:
1) Power supply   2) Video block   3) Power Amplifier
4) Audio block   5) i.LINK block   6) Digital block
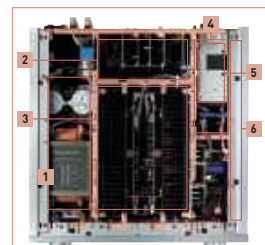
VSX-AX4AVi
Direct Construction

THE PURE SOUNDS OF DIRECT CONSTRUCTION (All A/V amplifiers and receivers)

Pioneer's A/V amplifiers and receivers are designed with a highly efficient, or 'direct', internal construction, which minimises distortion and suppresses signal interference between circuits. This is achieved by positioning parts more efficiently along the signal route, separating digital and analogue circuits and reducing the PCB units. These measures contribute to producing the highest grade of audio and video reproduction.

SOLID HIGH PERFORMANCE AUDIO FOR EACH CHANNEL
(VSA-AX10Ai, VSX-AX4AVi, VSX-AX2AV, VSX-1015)

One of the secrets to these amplifier/receivers is Pioneer's exclusive Advanced Direct Energy (A.D.E.) power design. It produces an amazingly efficient, high-end sound quality with equally amplified power for each channel, to ensure consistent sound quality for multi-channel applications. This highly advanced circuitry is designed to offer high stability and ultra-linear amplification combined with low energy loss. The VSA-AX10Ai and VSX-1015 feature a new AC/DC isolated amplifier module, designed especially to optimise the A.D.E. MOSFET performance under any condition. Combined with the built-in temperature adjustment, it minimises power imbalances that can cause distortion in the sound stage.

AC/DC isolated amplifier
module

Advanced Direct Energy
MOSFET

OPTIMUM VIDEO PROCESSING (VSX-AX4AVi, VSX-AX2AV)

Thanks to a newly developed video decoder and encoder, you can be sure of the finest video quality. The video decoder's extended bandwidth makes it fully compatible with progressive DVD and HDTV, as well as standard NTSC, PAL and SECAM formats. These decoders perform 4 times oversampling for standard definition and 2 times oversampling for high definition formats, enabling the input of progressive scan signals. The video encoder can properly support NTSC and PAL colour standards. With these receivers, the video signal is passed on to the TV or display with the highest integrity.

Video Decoder-Encoder

THE MOST ADVANCED DIGITAL AUDIO PROCESSOR TO DATE (VSX-AX4AVi, VSX-AX2AV)

Audio quality has been enhanced even further, as a result of the new Advanced Dual Digital Core Engine. It includes the latest digital audio processing technology, such as Analog Devices' third-generation SHARC® processor. The performance of this DSP device has been dramatically improved over the previous generation. The audio signal processing capability has in fact doubled, while the consumption power has been cut in half. Its 32-bit high-performance engine processes digital data with extreme precision, and fully supports the latest surround sound formats to surpass the limits of the digital audio range.

SHARC® processor

SHARC is a trademark of Analog Devices, Inc.

ULTRA CONVENIENT FEATURES

MORE CHOICE OF SPEAKER CONFIGURATIONS (VSA-AX10Ai, VSX-AX4AVi, VSX-AX2AV, VSX-1015)

With these amp/receivers, you've got more options to configure your speakers. If you're a true hi-fi stereo lover, you might want additional support for your front speakers. In Bi-Amp mode, the surround back speaker channels can be reassigned to drive the front speakers. Separate amplifiers for the high and low frequency drivers allow better crossover performance. The speakers must be bi-ampable though — with separate high and low terminals. There's also the possibility to power stereo speakers in another room. Either option still leaves you with 5.1 surround in your main room.

WINDOWS MEDIA™ AUDIO 9 PROFESSIONAL
(VSA-AX10Ai, VSX-AX4AVi, VSX-AX2AV, VSX-1015, VSX-915, VSX-515)

It's no understatement that these Pioneer A/V amp/receivers are completely up-to-the-minute with the latest surround formats. They incorporate a WMA9 Pro decoder, the first digital surround sound coding technology for the Web — developed by Microsoft. When connected to a PC with Windows Media Player 10, you are able to enjoy high-resolution stereo (96 kHz/24-bit) or 5.1-channel surround audio at 128 k — 768 Kbps compression rates. At any given bit rate, 5-channel WMA9 Pro will bring you higher fidelity than other sound compression algorithms thanks to the latest audio codec technology.

EASY ROOM AND SEAT POSITION SET-UP
(VSX-915, VSX-515, VSX-415)

Now you can select your room size and seat position for maximum sound impact. By using the Room Set-up button, you can select the size of your room (large, medium, small) and the sound will be adjusted accordingly. You're also able to indicate your listening position (forward, middle, back) so that the sound (delay) can be matched to where you're sitting.

For more details on features and technology, please visit www.pioneer-eur.com

SURROUND MODES FOR MORE PERSONALISED VIEWING (All A/V amplifiers and receivers)

Enhance your entertainment experience even further. Just take advantage of Pioneer's pre-defined Original Surround modes and listening modes to tailor the sound to your specific listening conditions or source. Bring out big-theatre sound from action movies with Advanced Movie mode, while Advanced Music mode will make you believe you're in a large concert hall. 5/6/7-Channel Stereo uses all the speakers in the system to simulate a stereo feeling and create rich surround sound. (6/7-Channel Stereo is used with one or two Surround Back speakers; if none are available, 5-Channel Stereo takes effect.) Virtual Surround Back creates a highly convincing 'phantom' surround back sound behind you. Expanded Theatre mode adds more sound depth to Dolby Surround sources. For TV or headphone listening turn on TV Surround and Phones Surround modes for enhanced surround effects. A sports fan? You'll feel right in the middle of the stadium with Sports mode. Try out Game mode if you're an avid gamer. It deepens the sound of powerful movement and speed for intense video game action. During those late night movies, put on Midnight Listening mode for better cinema-like sound at low volumes. If poken dialogue isn't clear during action sequences, switch on Dialogue Enhancement mode.

See the charts on pages 91 — 92 for availability of modes for each receiver.

Sports mode blasts you straight to the scene of the match, as though you were personally at the stadium

SR+   ENTIRE HOME SYSTEM AT YOUR FINGERTIPS (VSX-AX4AVi, VSX-AX2AV, VSX-1015, VSX-915)

With the SR+ interface, you can integrate your A/V receiver with a Pioneer Plasma TV with minimum fuss. Receiver status, controls and set-up features are displayed on the plasma for easy operation; the plasma TV automatically follows the input and accepts remote control commands from the A/V receiver. Advanced SR+ also includes a macro function, an easy solution for frequently used multi-step system commands (available for VSX-AX4AVi and VSX-AX2AV only).

For example, press the macro and DVD buttons on the remote control, and the plasma TV, A/V receiver and DVD player will all switch on at the same time. Moreover, the input function for both the plasma TV and the A/V receiver will be changed automatically.

LCD PRESET & LEARNING REMOTE CONTROL
(VSX-AX4AVi, VSX-AX2AV, VSX-1015, VSX-915)

Operating your receiver just got even simpler. These receivers are outfitted with Pioneer's exclusive new remote control, with an intuitive and easy-to-understand key layout. It features an LCD display, which gives information about the source currently being controlled. It enhances ease-of-use between the receiver and a Pioneer DVD player, DVD recorder and plasma TV. And, it includes a host of preset codes and learning capability, which make setting up a cinch.

	VSA-AX10Ai	VSX-AX4AVi	VSX-AX2AV	VSX-1015	VSX-915	VSX-515	VSX-415
Amplification type	Advanced Direct Energy MOSFET	Advanced Direct Energy	Advanced Direct Energy	Advanced Direct Energy MOSFET	Hybrid	Hybrid	Hybrid
Power x Channel (DIN, 1 % THD)	170 W x 7 (6 Ω)	180 W x 7 (6 Ω)	170 W x 7 (6 Ω)	150 W x 7 (6 Ω)	100 W x 7 (8 Ω)	100 W x 6 (8 Ω)	100 W x 5 (8 Ω)
MCACC calibration system with microphone	Advanced, with 9-band EQ	Advanced, with 9-band EQ	Advanced, with 9-band EQ	with 5-band EQ	with 5-band EQ	with 5-band EQ	—
THX	Ultra2	Select2	Select2	Select2	—	—	—
Dolby Digital EX/THX Surround EX	✓/✓	✓/✓	✓/✓	✓/✓	✓/—	✓/—	—
Dolby Pro Logic IIx/DTS ES/ DTS Neo:6/DTS 96/24	✓	✓	✓	✓	✓	✓	—
Dolby Digital/Dolby Pro Logic II/DTS	✓	✓	✓	✓	✓	✓	✓
WMA9 Pro	✓	✓	✓	✓	✓	✓	—
HDMI	—	✓	✓	—	—	—	—
i.LINK	✓	✓	—	—	—	—	—
iPod® terminal	—	✓	✓	—	—	—	—
USB terminal	✓	✓	—	—	—	—	—
Component Video terminal In/Out	3/1	3/1	3/1	3/1	3/1	—	—
Advanced Surround Modes	15	14	14	9	10	10	9
Remote control unit	LCD touch panel, preset and learning	LCD preset and learning — multi-operation	LCD preset and learning — multi-operation	LCD preset and learning	LCD preset and learning	—	—

Enter a paradise of pure audio

Embark on a bold adventure of sonic excellence with Pioneer's home cinema speaker sets. Sound has never been so colourful or so clear — just like nature intended. Echo the professional audio of the studio with revolutionary world-class speakers. There's never been more freedom of choice when it comes to design or finish. As diverse as the jungle itself. But when it comes to quality, only the best will do.

STANDOUT TECHNOLOGIES

SPEAKERS DESIGNED FOR EVERY TASTE IN INTERIOR

You demand an entertainment system with utmost digital purity. Only a first-class set of home cinema speakers can maintain the integrity of the digital source and reproduce truly pure audio. Ordinary speakers just won't suffice. Pioneer has spent the greater part of 60 years continuing its dedication to acoustic research and speaker design. In 2000, the SDC (Speaker Design Centre) was established in Paris in order to stay up-to-date with European trends and new technologies. This has resulted in an enormous selection of expertly crafted speakers. There is a range of designs and finishes to fit practically any taste and interior.

S-V1EX-QL

This year, Pioneer is delighted to introduce the EX series: an absolute-reference home cinema speaker set, based on professional audio industry technology found in the world's most renowned TAD studio monitoring speakers.

A wide selection of superb-sounding wood finish home cinema sets will please those with an eye — and ear — for quality. They are constructed with unique acoustic designs and the latest in speaker technology. To satisfy your style, they are available in trendy beech wood or more traditional dark oak wood.

S-V810A

Fans of the cooler tones will opt for home cinema sets in a contemporary aluminium finish.

S-V710-III

Minimalists most certainly will vote for the design-oriented, lifestyle home cinema sets with trendy slim satellite speakers that look fabulous wall-mounted.

S-VLF5

NEW

S-V1EX/S-V2EX EX Series Speaker Set

Front 200 W Max.
Rear & Centre 200 W Max.

S-V1EX-W

S-V1EX-QL

MAIN FEATURES

★ Designed to please even the most demanding audiophiles, Pioneer's EX series high-end speaker system is a true reflection of Pioneer's dedication to sound perfection, combining cutting-edge speaker technology and high-quality design.

- The S-V1EX set consists of two floor-standing front speakers (S-1EX), a centre speaker (S-7EX) and two rear bookshelf type speakers (S-2EX), all of which are magnetically shielded for video use.

- All speaker units are designed by TAD (Technical Audio Devices) — the world-famous manufacturer of professional recording studio loudspeakers.

- Each 3-way floor-standing and centre speaker features two 18 cm TAD woofers with Carbon Aramid cones, a concentric TAD midrange/tweeter speaker unit with a 14 cm Magnesium midrange cone and a 3.5 cm Beryllium tweeter.

- The exceptional TAD Beryllium tweeter can reproduce very high frequencies (up to 100 kHz) of DVD-Audio and SACD. For the best sound performance, it's recommended to combine these speakers with DVD-Audio and SACD compatible receiver and players.

- The EX series speaker's heavy and rigid cabinet was designed to eliminate the influence of internal standing waves, while its front baffle 'Precision Curve' is responsible for a perfect time alignment of the sound.

- For a pure music and home cinema experience, Pioneer acoustics engineers recommend the following amplifiers: VSA-AX10Ai, VSX-AX4AVi.

S-V2EX-QL

S-V2EX-W

Featuring a more space-conscious design, but offering the same high-end performance level, the S-V2EX home cinema speaker set consists of four bookshelf speakers (S-2EX) and a centre speaker (S-7EX).

For more details on features and technology, please visit www.pioneer-eur.com

The EX series is a true testament to Pioneer's commitment to creating an absolute reference speaker system. Designed in France — with engineering contributions from Japan and the USA — it owes many technical specifications to the TAD M1, considered by audio professionals as one of the best speakers in the world.

TAD SPEAKER UNITS BY TAD

The EX series speaker units are designed by TAD (Technical Audio Devices), Pioneer's world leading brand of professional studio monitor speakers. TAD speaker units have been used in many of the world's major recording studios and are regarded by many top artists as the reference monitor speakers for recording and digital remastering.

Beryllium
Be
THERE

TAD speaker units feature proprietary Beryllium tweeter diaphragms. Beryllium is a very lightweight, yet exceptionally strong metal and can produce extremely clear and accurate sound extending well above the limit of human hearing, so that both SACD and DVD-Audio recordings can be enjoyed to the fullest.

TAD proprietary CST (Coherent Source Transducer) technology controls the phase and directivity of the drive unit. The perfect concentric setting of the acoustic centres of the tweeter and midrange transducers remarkably improves the sound image precision and the off-axis frequency response of the speaker system.

Tweeter components

A CABINET DESIGNED FOR PERFECTION

A speaker enclosure should add no noise of its own to the sound reproduction. The EX series cabinets are crafted from multiple layers of laminated MDF, ranging from a minimum of 30 mm up to a generous 100 mm, to ensure that the enclosure remains inert. In addition, thanks to Pioneer's proprietary Acoustic Balance Drive software, the internal structure of this ultra-strong and rigid cabinet was meticulously designed to minimise internal standing waves.

In an ideal system, all sounds produced by the loudspeakers arrive at the listener's ears simultaneously. But if the drivers of the speaker system are positioned at different distances from the listener, then the impression of the original performance is lost. The EX series' cabinets therefore feature a unique curvature and backward slope of the front baffle, which ensures that all sound waves reach the listener's ears at the exact same time, guaranteeing perfect sonic time alignment. The sound quality reaches a higher level than ever before, with exceptional clarity and focus.

Precision Curve

AIR STUDIOS CERTIFIED

AIR STUDIOS

The most talented AIR Studios sound engineers helped finetune and test the final design of Pioneer's EX series. Situated in London, AIR Studios is regarded as one of the top music recording studios in the world, drawing some of the finest musicians and performers from across the globe.

Driven by ultra-deep tones?
Add one — or even two — Pioneer S-W250S subwoofers for sound so deep, it could be emanating from the earth's core.

S-V810A

Home Cinema Speaker Set

Front 130 W Max.
Rear & Centre 130 W Max.
Subwoofer 250 W RMS

Detail back of front
floor-standing speaker

MAIN FEATURES

- The S-V810A high-end 5.1 speaker system fulfils perfectly the needs of home cinema and music lovers. The superb real beech veneer finish combined with exceptional acoustic design using the latest technologies makes this speaker system unique in its kind.
- This set consists of two floor-standing front speakers (S-H810V), a centre speaker (S-C80), two rear bookshelf type speakers (S-F80) and the S-W250S active subwoofer. All speakers are magnetically shielded for video use.
- Each 4-way floor-standing and centre speaker features two 13 cm woofers with KEVLAR®* fibre cones, a 13 cm concentric midrange/tweeter including a 2.5 cm tweeter with metal dome and a Riffel-type super tweeter (only for S-H810V). These speaker units are assembled on a heavy and very rigid cabinet, which has been specially designed in order to minimise internal standing waves.
- Obtain deep bass quality sound reproduction thanks to the S-W250S active subwoofer (see page 71).
- This 5.1-channel speaker set can reproduce very high frequencies (up to 100 kHz for the front speakers and 50 kHz for centre and rear speakers).
- For a perfect music and home cinema experience, Pioneer acoustics engineers recommend the following receivers: VSX-AX4AVi, VSX-AX2AV.

S-V80A

Home Cinema Speaker Set

Front 130 W Max.
Rear & Centre 130 W Max.
Subwoofer 250 W RMS

S-V80A Compact Home Cinema Set

MAIN FEATURES

- Home cinema and music lovers looking for a more compact version of this high-performance speaker set should opt for the S-V80A, consisting of four bookshelf speakers (S-F80), a centre speaker (S-C80) and the S-W250S active subwoofer.
- All speakers in this package are magnetically shielded for video use.

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For more details on features and technology, please visit www.pioneer-eur.com

NEW **S-V520-QL/W** Home Cinema Speaker Set

Front 130 W Max.
Rear & Centre 130 W Max.

Back inputs of
S-V520-QL

S-V520-QL

MAIN FEATURES

- This set comprises two bass-reflex-type floor-standing speakers, one centre speaker and two rear satellite speakers.
- Each floor-standing speaker features two 14 cm woofers (LDMC technology, see page 74) with glass fibre cones and a 2.5 cm tweeter with a cloth dome. The curved shape of the enclosure has been specially designed in order to minimise internal standing waves.
- The elegantly-designed matching 2-way centre speaker and rear satellite speakers complete this package perfectly by creating precise and homogeneous surround sound.
- Enjoy this set's pure and smooth lines with a choice of wood tones in a light design or a trendy dark wood with black details.
- For an optimal music and home cinema experience, Pioneer acoustics engineers recommend the following receivers: VSX-1015, VSX-915.

S-V520-W

NEW **S-V52-QL/W** Home Cinema Speaker Set

Front 130 W Max.
Rear & Centre 130 W Max.
Subwoofer 150 W RMS

S-V52-QL

MAIN FEATURES

- This 2-way satellite speaker set comprises one centre speaker, four satellite speakers and one active subwoofer.
- The elegantly-designed 2-way centre speaker and rear satellite speakers reproduce a precise and natural sound. Each of them is magnetically shielded and features a 10 cm woofer with glass fibre and a 2.5 cm cloth dome type tweeter. The curved shape of the enclosure has been specially designed in order to minimise internal standing waves.
- Enjoy this set's pure and smooth lines with a choice of wood tones in light or trendy dark wood with black details.
- For an optimal music and home cinema experience, Pioneer acoustics engineers recommend the following receivers: VSX-1015, VSX-915.

S-V52-W

NEW **S-V325-QL/W**

Home Cinema Speaker Set

Front 100 W Max.
Rear & Centre 130 W Max.

S-V325-QL

S-V325-W

MAIN FEATURES

- This 2-way speaker set comprises two bass-reflex-type floor-standing speakers, one centre speaker and two rear satellite speakers. All speakers are magnetically shielded for video use.
- Each floor-standing speaker features two 14 cm woofers with glass fibre cones and a 2.5 cm tweeter with a cloth dome. They are assembled on a heavy and strong cabinet to achieve clean and deep bass tones.
- The elegantly-designed matching 2-way centre speaker and rear satellite speakers complete the package perfectly by creating precise and natural surround sound. Each satellite speaker features a 10 cm woofer with glass fibre cones and a 2.5 cm tweeter with a cloth dome.
- With a choice of wood finishes — light or trendy dark wood combined with black detailing — this set's pure and sharp lines blend in well with any modern interior.
- For an unforgettable music and home cinema experience, Pioneer acoustics engineers recommend the following receivers: VSX-915, VSX-515.

NEW **S-V320-QL/W**

Home Cinema Speaker Set

Front 100 W Max.
Rear & Centre 80 W Max.

S-V320-W

S-V320-QL

MAIN FEATURES

- This set comprises two bass-reflex-type floor-standing speakers, one centre speaker and two rear satellite speakers. The front and centre speakers are magnetically shielded for video use.
- Each floor-standing speaker features two 14 cm woofers with glass fibre cones and a 2.5 cm tweeter with a cloth dome. They are assembled on a heavy and strong cabinet to achieve clean and deep bass tones.
- The smart and compact-sized matching centre speaker and rear satellite speakers complete the package perfectly by creating exciting surround sound. Each features an 8.3 cm full-range speaker unit assembled on a thick wooden front baffle (18 mm MDF).
- With a choice of wood finishes — light or trendy dark wood combined with black detailing — this set's pure and sharp lines blend in well with any modern interior.
- For an unforgettable music and home cinema experience, Pioneer acoustics engineers recommend the VSX-415 receiver.

For more details on features and technology, please visit www.pioneer-eur.com

NEW   S-V240-QL/W   Home Cinema Speaker Set

Front 80 W Max.
Rear & Centre 80 W Max.

S-V240-W

S-V240-QL

MAIN FEATURES

- This set comprises two bass-reflex-type floor-standing speakers, one centre speaker and two rear satellite speakers. The front and centre speakers are magnetically shielded for video use.
- Each 3-way floor-standing speaker features a 14 cm woofer, a 7 cm midrange and a 2.5 cm tweeter, ensuring dynamic and well-balanced sound, ideal for front speakers.
- The smart and compact-sized matching centre speaker and rear satellite speakers complete the package perfectly by creating exciting surround sound. Each features a 8.3 cm full-range speaker unit assembled on a thick wooden front baffle (18 mm MDF).
- Choose from two wood finishes — light or trendy dark wood combined with black detailing.
- For an exciting music and home cinema experience, Pioneer acoustics engineers recommend the VSX-415 receiver.

NEW   S-V24-QL/W   Home Cinema Speaker Set

Front 80 W Max.
Rear & Centre 80 W Max.
Subwoofer 85 W Max.

S-V24-QL

S-V24-W

MAIN FEATURES

- This set comprises one centre speaker and four satellite speakers, combined with an active subwoofer. The centre speaker and the front satellite speakers are magnetically shielded for video use.
- The smart and compact-sized centre speaker and satellite speakers reproduce brilliant and exciting home cinema sound. Each features a 8.3 cm full-range speaker unit assembled on a thick wooden front baffle (18 mm MDF).
- At lower frequencies, the square-type subwoofer perfectly takes over from the satellite speakers thanks to its 16 cm diameter long excursion-type woofer.
- Choose from two wood finishes — light or a very dark wood combined with black detailing and a black subwoofer.
- For an exciting music and home cinema experience, Pioneer acoustics engineers recommend the VSX-415 receiver.

S-V710-III

Home Cinema Speaker Set

Front 130 W Max.
Rear & Centre 130 W Max.
Subwoofer 150 W RMS

S-V710-III
with white grille

S-V710-III
with burgundy grille

MAIN FEATURES

- Enhance your audio-visual entertainment experience, as well as your interior with this majestic home cinema set.
- It comprises two floor-standing front speakers (S-H710V), centre and rear satellite speakers (S-ST70-CR) and a 150 W active subwoofer (S-W150S-K). All speakers in this set are magnetically shielded for video use.
- The design features natural elements, like an aluminium cabinet, wood front panel and zinc for the top and base of the floor-standing speakers.
- This versatile speaker package includes three different coloured grilles — black, burgundy and white — so you can change the look of the speakers to fit your interior or your mood.
- For a perfect music and home cinema experience, Pioneer acoustics engineers recommend the following receivers: VSX-AX2AV, VSX-1015.

S-V610

Home Cinema Speaker Set

Front 100 W Max.
Rear & Centre 100 W Max.
Subwoofer 120 W RMS

MAIN FEATURES

- Enhance your cinematic sound experience, as well as your interior with this trendy speaker set.
- Consists of: S-H610V (2-way front floor-standing speakers), the S-C60 and S-F60 (2-way centre + rear satellite speakers), and the S-W110S-K active subwoofer. All speakers in this set are magnetically shielded for video use.
- The two floor-standing speakers have a ring-shaped base and a real aluminium body.
- The centre speaker also has a ring-shaped base, and both the centre and rear satellite speakers have matching real aluminium bodies.
- For an optimal music and home cinema experience, Pioneer acoustics engineers recommend the following receivers: VSX-1015, VSX-915.

S-V410

Home Cinema Speaker Set

Front 100 W Max.
Rear & Centre 100 W Max.
Subwoofer 85 W RMS

MAIN FEATURES

- This elegant and statuesque two-way speaker system is finished in real aluminium.
- Get brilliant audio from the stylish S-SP410, consisting of 4 floor-standing speakers (front and rear) with a matching slim-design centre speaker. All speakers in this package are magnetically shielded for video use.
- The square-type 85 W subwoofer (S-W90S) in this combination has a simple design, with pure lines in striking matt-black and silver.
- For an exciting music and home cinema experience, Pioneer acoustics engineers recommend the following receivers: VSX-515, VSX-415.

For more details on features and technology, please visit www.pioneer-eur.com

S-V70-III

Home Cinema Speaker Set

Satellite 130 W Max.
Subwoofer 150 W RMS

MAIN FEATURES

- Create a futuristic-looking home cinema system with this ultra-modern 2-way speaker set.
- It comprises front satellite speakers (S-ST70-F), centre and rear satellite speakers (S-ST70-CR) and a powerful subwoofer (S-W150S-K).
- Create powerful cinema sound with these five space-saving, magnetically shielded satellite speakers and the 150 W RMS active subwoofer.
- This versatile speaker package includes three different coloured grilles — black, burgundy and white.
- For a perfect music and home cinema experience, Pioneer acoustics engineers recommend the following receivers: VSX-1015, VSX-915.

S-V70-III with white grille   S-V70-III with burgundy grille

S-V60

Home Cinema Speaker Set

Front 100 W Max.
Rear & Centre 100 W Max.
Subwoofer 120 W RMS

MAIN FEATURES

- This elegant system consists of the S-F60 front and rear speakers, the S-C60 centre speaker and the S-W110S-K active subwoofer.
- Get great surround sound with 4 bookshelf-type satellite speakers, and a centre speaker in a matching design, all magnetically shielded and with an aluminium body.
- For an optimal music and home cinema experience, Pioneer acoustics engineers recommend the following receivers: VSX-915, VSX-515.

S-V42

Home Cinema Speaker Set

Satellite 80 W Max.
Subwoofer 85 W RMS

MAIN FEATURES

- This winning speaker combination finished in real aluminium is both tasteful and modern in design.
- It comprises 5 small, magnetically shielded S-SP42 satellite speakers in subtle silver and the S-W90S active subwoofer.
- The square-type 85 W subwoofer in this combination has a simple design, with pure lines in striking matt-black and silver.
- For an exciting music and home cinema experience, Pioneer acoustics engineers recommend the VSX-415 receiver.

S-VLF5

Home Cinema Speaker Set

Satellite 130 W Max.
Subwoofer 150 W RMS

MAIN FEATURES

- This smart and modern speaker package is crafted from attractive natural materials — aluminium, zinc and 100% pure wood — which also provides strength to the cabinet for pure and accurate sound reproduction.
- It comprises 2 front speakers (S-LF5-F), 1 centre and 2 rear speakers (S-LF5-CR), all magnetically shielded and with a matching light wood and aluminium tone.
- The S-W150S active subwoofer, with its 150 W RMS total output power, complements the satellite speakers with its natural light wood tone.
- This versatile speaker package includes two different coloured cloth grilles (black and white) for a softer touch within a more traditional setting.
- This speaker set has a flat design, making it ideal for wall placement.
- For an optimal music and home cinema experience, Pioneer acoustics engineers recommend the following receivers: VSX-1015, VSX-915.

S-VLF5
satellite speaker
with white grille

S-VLF5
satellite speaker
without grille

S-VLF3

Home Cinema Speaker Set

Satellite 130 W Max.
Subwoofer 120 W RMS

MAIN FEATURES

- Save space with style: This easy-to-mount super-slim 2-way satellite speaker set has ultra-thin panels with flat woofers which also match the Pioneer Plasma TV.
- This hyper-thin speaker set, finished in real aluminium consists of front satellite speakers (S-LF3-F), centre and rear satellite speakers (S-LF3-CR), as well as the S-W110S-K active subwoofer in black. All speakers in this package are magnetically shielded for video use.
- Suit your own tastes, and choose between a black or white speaker grille (both included).
- The S-VLF3 speaker package includes stylish speaker stands, for placing the speakers on a table or shelf.
- For an unforgettable music and home cinema experience, Pioneer acoustics engineers recommend the following receivers: VSX-1015, VSX-915.

S-VLF3
satellite speaker
with white grille

S-VLF3
satellite speaker
without grille

S-V50-G
S-V50N-K

Home Cinema Speaker Set

Satellite 100 W Max.
Subwoofer 85 W RMS

MAIN FEATURES

- Enhance your décor with the cool silver tones of this 100 W compact satellite speaker package, which is also available in the more classic black with a silver touch.
- Comprises matching and magnetically shielded front, centre and rear satellite speakers (S-SP50-G/K), and matching 85 W square-type active subwoofer (S-W90S).
- The S-W90S subwoofer in this combination has a simple design, with pure lines in striking matt-black and silver.
- For an exciting music and home cinema experience, Pioneer acoustics engineers recommend the following receivers: VSX-515, VSX-415.

S-V50-G

S-V50N-K

For more details on features and technology, please visit www.pioneer-eur.com

S-W250S

Active Subwoofer
250 W RMS

MAIN FEATURES

- Add top sound quality to your speaker system with the deep bass of this high-end subwoofer.
- The S-W250S has a clean wooden design, made of real beech veneer, which harmonises with most living environments as well as with the S-H810V, S-F80 and S-C80.
- This powerful 250 W active subwoofer has an exceptional acoustic design, with a D-class amplifier separated from the acoustic cabinet.
- Superbly crafted, this subwoofer boasts a 30 cm cone woofer, a 30 cm cone passive radiator and crossover frequency of 50 — 150 Hz.

Details back S-W250S

S-W150S/-K

Active Subwoofer
150 W RMS

MAIN FEATURES

- This modern light wood-toned 150 watt RMS active subwoofer (S-W150S) is the perfect addition to any home cinema system.
- It produces the deepest-of-deep bass possible — for thrilling DVD effects.
- This classic subwoofer is also available in a black finish (S-W150S-K).

S-W150S

S-W150S-K

S-W110S-K/S/QL

Active Subwoofer
120 W RMS

MAIN FEATURES

- Add a bit of style — and power — to your living environment with this subwoofer.
- No matter what colour you choose, the S-W110S adds the finishing touch to your home cinema experience, with 120 W RMS of intense home cinema sound and deep bass reproduction.

S-W110S-K

S-W110S-S

S-W110S-QL

S-W90S

Active Subwoofer
85 W RMS

MAIN FEATURES

- This square-type 85 W active subwoofer has a simple design, with pure lines and striking colours.
- The cabinet and base are in matt-black with a front panel and four silver-finish feet in ABS.

NEW

CP-7EX

Speaker Stand

MAIN FEATURES

- Designed especially for the EX series centre speaker (S-7EX).
- The shape of the base helps to precisely direct the centre channel's sound towards the listener.

NEW

CP-2EX

Speaker Stand

MAIN FEATURES

- Designed especially for the EX series bookshelf speakers (S-2EX).

CP-F80

Speaker Stand

MAIN FEATURES

- Designed especially for the S-F80 bookshelf speakers.

CP-F100

Speaker Stand

MAIN FEATURES

- Aluminium design speaker stand.
- Perfect companion for the satellite speakers of the S-V710-III, S-V610, S-V70-III, S-V60, S-V42, S-VLF5, S-VLF3 and S-V50.

CP-F50A

Speaker Stand
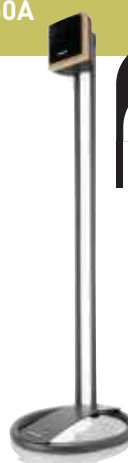
MAIN FEATURES

- Stylish speaker stand with metal finish.
- Perfect companion for the satellite speakers of the S-V520, S-V52, S-V325, S-V320, S-V240, S-V24, S-V42 and S-V50.

For more details on features and technology, please visit www.pioneer-eur.com

SE-DIR800C — Digital Wireless Headphones for Surround Sound

5.1ch VIRTUAL SURROUND

MAIN FEATURES

- Dolby Headphone technology, for impressive surround sound without multiple speakers.
- Full digital surround sound from 2-channel to any 5.1-channel source, DVD, digital cable/satellite and game systems.
- Dolby Digital, DTS, Dolby Pro Logic II, Dolby Surround compatibility.
- Digital infrared transmission for noiseless and high-quality sound playback.
- Compact design transmitter (can be positioned horizontally or vertically).
- Optical/Coaxial/RCA pin jack terminal.
- Powerful bass by 40 mm (diameter) driver with rare-earth alloy magnet.
- Lightweight and compact headphones.
- Volume dial directly on headphones.

HDJ-1000 — Professional Headphones

MAIN FEATURES

- Stunning ultra-light professional headphones.
- Feature 3,500 mW of maximum input allowing for a high sound volume with the best possible clarity.
- Both compact folding ear pads have a swivel mechanism allowing the HDJ-1000 to be manipulated into any position.
- Plush padding makes it possible to wear the headphones comfortably for hours of listening pleasure.

SE-M380 / SE-M280 — Headphones

SE-M380

MAIN FEATURES

- Enjoy your music in the privacy of your own ears, with these quality headphones.
- Two stylish, oval, soft-pad headphones, the silver SE-M380 and the black SE-M280 come equipped with large phones for overwhelming sound in comfort.

HOME CINEMA SPEAKERS TECHNOLOGY

WORLD-CLASS TAD SPEAKER DESIGN (S-1EX, S-7EX, S-2EX)

Only the very best speaker components were considered for Pioneer's new audio masterpiece: the EX series. So it's no surprise that TAD (Technical Audio Devices) speaker design is incorporated into these reference-class units. They were crafted with extreme precision by TAD experts, and adhere to their rigorous standards. TAD professional studio monitoring loudspeakers are first choice in recording studios across the globe. They have set a standard for audio excellence and reliability, as recognised by many world-famous performers and professional sound engineers.

The legacy began 30 years ago, and now TAD speakers can be found wherever the highest sound quality is required: studio monitors, concert hall speakers, cinema audio systems, and more.

Professional recording studio equipped with TAD speaker

Beryllium Be THERE

TAD'S RIGID BERYLLIUM TWEETER FOR ACCURATE HIGH-FREQUENCY AUDIO REPRODUCTION
(S-1EX, S-7EX, S-2EX)

The EX series speakers were designed with such attention to detail, every element of the speaker units was considered so they can reproduce exceptionally accurate audio. The tweeter diaphragm is composed of Beryllium metal which is light and extremely rigid. This has resulted in an ultra-strong tweeter diaphragm with perfectly solid piston performance. It precisely reproduces the audio signal; absolutely no distortion or resonance is added to the audio performance. No other high-end audio loudspeaker today can match the damping characteristics of these speakers. It is this — pure and solid performing diaphragm — which makes Beryllium tweeters ideal for reproducing the high frequencies of DVD-Audio and SACD, up to 100 kHz. These revolutionary audio formats recreate sound as it actually exists in the real world, with all its original artistic qualities intact. The Beryllium tweeters enable rich and true DVD-Audio and SACD sound reproduction, covering large bandwidths and a wide dynamic range.

Beryllium diaphragm

TAD

THE PRECISE SOUND IMAGING OF TAD'S CST (COHERENT SOURCE TRANSDUCER)
(S-1EX, S-7EX, S-2EX)

To ensure that all sound — direct and reflected — arrives at the listening position with identical timbre, TAD's exclusive CST (Coherent Source Transducer) driver technology has been implemented in the EX series. The Beryllium tweeter is mounted in the centre of the magnesium midrange driver, allowing the sound directivity to be precisely controlled at all frequencies. The resulting aligned sound delivery is extremely smooth and coherent. Unlike with conventional drivers, the problems with phase and off-axis frequency response have been totally eradicated.

TAD's CST unit

AIR STUDIOS

THE MARK OF EXCELLENCE: AIR STUDIOS CERTIFICATION
(S-1EX, S-7EX, S-2EX)

The EX series speakers have undergone rigorous acoustic testing at AIR Studios in London, one of the world's leading recording studios, and therefore meet its strict studio replay standards. Some of the most talented AIR Studios sound engineers contributed an unquestionable amount of know-how to fine-tune the EX series speaker systems. So they can replicate a professional studio sound environment in your home, with ideally controlled acoustics.

Sir George Martin, the legendary Beatles producer and an Academy Award-nominated composer, founded AIR Studios in 1969. AIR Studios is now a state-of-the-art recording complex with matchless facilities for film scoring, rock, pop, classical and orchestral work, video game sound design, post-production and live events. Many popular and celebrated musical talents, like Madonna, Paul McCartney, Elton John, Robbie Williams, Oasis and Coldplay have recorded in this unique and inspirational recording environment.
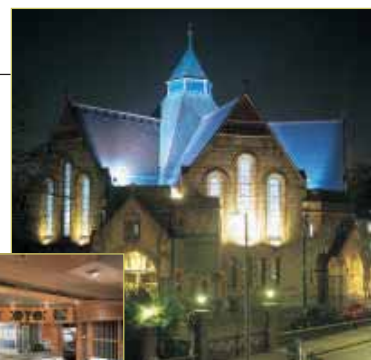
AIR Studios control room

NEW PIONEER CONCENTRIC SPEAKER TECHNOLOGY FOR EXTENDED AND ACCURATE HIGH FREQUENCIES (S-H810V, S-F80, S-C80)

These concentric speaker units were specially designed by Pioneer and TAD engineers. The 25 mm metal dome tweeter includes exclusive Pioneer technology, the Harmonised Synthetic Diaphragm Method (HSDM), which optimises and extends the high frequency response to 50 kHz. According to this method, the diaphragm is created by meticulous computer analysis. The piston motion and vibration are harmonised, resulting in more accurate musical timing. The perfect concentric setting of the concentric transducers improves the sound image precision as well. The speakers feature a die-cast aluminium frame for extremely solid support.

Concentric speaker units

NEW ULTRA-LIGHT RIFFEL SUPER TWEETER FOR DVD-AUDIO AND SACD
(S-H810V, S-H710V)

Pioneer's original Riffel-type super tweeters improve upon the typical 'folded-type', narrow gap design. Pioneer has created a new ultra-light diaphragm, made possible because the circuit of the voice coil is directly printed on a very thin plastic film. Thanks to this new design, the Pioneer Riffel Super Tweeter can accurately reproduce the very high frequencies — up to 100 kHz — of DVD-Audio and SACD.

Riffel-type super tweeter

LOW DISTORTION AT HIGH POWER LEVELS THANKS TO LDMC (LINEAR DRIVE MAGNETIC CIRCUIT) ORIGINAL TECHNOLOGY
(S-H520V)

Pioneer's newly developed Linear Drive Magnetic Circuit enables the creation of a loudspeaker with an extended low frequency range and with low distortion. This special magnetic structure improves the amplitude linearity at high power levels, which allows for true linear movement, more accurate musical reproduction and deeper bass.

For more details on features and technology, please visit www.pioneer-eur.com

Tap into the latest in sonic performance with Pioneer's audio speaker sets. Hi-fi audio reproduction has never been purer. Especially with premium professionally designed speakers. Create the ultimate home cinema speaker set and boost your surround sound to the max. Stylish designs, choice materials and expert construction — the choice is yours.

NEW

S-1EX-QL/W

EX Series Audio Speaker Set

200 W Max.

MAIN FEATURES

- The S-1EX is the most precise and linear speaker system that has been introduced in the European market by Pioneer and is designed to please even the most demanding audiophiles.
- All speaker units are designed by TAD (Technical Audio Devices) — the world-famous manufacturer of professional recording studio loudspeakers.
- The 200 W 3-way floor-standing speakers each feature two 18 cm TAD woofers with Carbon Aramid cones, a concentric TAD midrange/tweeter speaker unit including a 14 cm Magnesium midrange cone and a 3.5 cm Beryllium tweeter.
- The perfect setting of the acoustic centres of the S-1EX concentric transducers (midrange/tweeter) improves the sound image precision and the off-axis frequency response.
- Thanks to its fantastic TAD Beryllium Tweeter, the S-1EX does not need an additional super tweeter to reproduce the very high frequencies (up to 100 kHz) of DVD-Audio and SACD. For the best sound performance, it's recommended to combine these speakers with DVD-Audio and SACD compatible receiver and players.
- The heavy and rigid cabinet's internal structure was designed to eliminate the influence of internal standing waves.
- The curvature and backward slope of the front baffle ensures perfect sonic time alignment, meaning that all sound waves reach the listener's ear at the exact same time. The resulting sound has exceptional clarity and focus.
- The S-1EX is magnetically shielded to prevent interference to TV sets.
- Attractively finished in real beech veneer or trendy dark wood veneer, this eye-catching audio speaker set will stand out in any interior.

S-1EX-QL

S-1EX-W

NEW

S-2EX-QL/W

EX Series Audio Speaker Set

200 W Max.

MAIN FEATURES

- All the high-end exclusive technologies of the S-1EX have also been used in this compact monitoring speaker type, the S-2EX.
- This compact model will equally please audio purists and music lovers looking for the same high-performance of the S-1EX.
- The two 200 W 3-way bookshelf-type speakers each feature a 18 cm TAD woofer with Carbon Aramid cone, a concentric TAD midrange/tweeter speaker unit with 14 cm Magnesium midrange cone and a 3.5 cm Beryllium tweeter.
- The S-2EX is magnetically shielded to prevent interference to TV sets.
- With its real beech veneer or trendy dark wood veneer finish this audio speaker set will effortlessly become the centre of attention.

S-2EX-QL

S-2EX-W

S-H810V

Audio Speaker Set
130 W Max.

MAIN FEATURES

- This highly acclaimed audio speaker set produces a superb stereo environment with deep, rich bass and extremely precise and detailed musical information. Each floor-standing speaker features two 13 cm woofers with KEVLAR®* fibre cones, a 13 cm concentric midrange/tweeter including a 2.5 cm tweeter with metal dome and a Riffel-type super tweeter. They are assembled on a high and very strong cabinet with special curved design to minimise internal standing waves.
- The perfect setting of the acoustic centres of the midrange/tweeter speaker unit improves the sound image precision and the off-axis frequency response.
- The high-end 4-way network has been designed to match the phase of each way around the crossover frequencies, resulting in an accurate and non-directive sound. The transfer functions of each transducer associated with its network are 4th order Linkwitz-Riley type (24 dB/octave slopes).
- This 130 W magnetically shielded speaker set can reproduce very high frequencies (up to 100 kHz). In order to get the best sound performance, it's recommended to combine this set with DVD-Audio and SACD compatible receiver and players.
- These speakers are magnetically shielded to prevent interference to TV sets.
- This audio speaker set is attractively finished in real beech veneer.

Detail back of front
floor-standing speaker

S-F80

Audio Speaker Set
130 W Max.

MAIN FEATURES

- The elegantly designed 130 W 2-way bookshelf speakers (S-F80) produce extremely precise and homogeneous stereo sound. Each speaker features a KEVLAR®* fibre cone and concentric woofer/tweeter including a 2.5 cm metal dome type tweeter. They are assembled on a very strong cabinet with special curved design to minimise internal standing waves.
- The perfect setting of the acoustic centres of the midrange/tweeter speaker unit improves the sound image precision and the off-axis frequency response.
- The high-end 2-way network has been designed to match the phase of each way around the crossover frequencies, resulting in an accurate and non-directive sound. The transfer functions of each transducer associated with its network are 4th order Linkwitz-Riley type (24 dB/octave slopes).
- These speakers are magnetically shielded to prevent interference to TV sets.
- This audio speaker set is attractively finished in real beech veneer.

Detail back of S-F80

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For more details on features and technology, please visit www.pioneer-eur.com

NEW

S-H520V-QL/W

Audio Speaker Set
130 W Max.

MAIN FEATURES

- The sound concept and philosophy of this elegant 130 W speaker system are based on the well-known S-H810V. These speakers deliver rich and detailed sound without coloration, for a pure audio experience.
- Each floor-standing speaker features two 14 cm woofers (LDMC technology, see page 74) with glass fibre cones and a 2.5 cm cloth dome tweeter. The curved shape of the enclosure has been designed to minimise internal standing waves.
- The 2-way network has been designed to match the phase of each way around the crossover frequency, resulting in an accurate and non-directive sound.
- These speakers are magnetically shielded to prevent interference to TV sets.
- Choose from two wood finishes — light or a trendy dark wood combined with black detailing.

S-H520V-QL

Back inputs of
the S-H520V-QL

S-H520V-W

NEW

S-H320V-QL/W

Audio Speaker Set
100 W Max.

MAIN FEATURES

- These 100 W 2-way floor-standing speakers each feature two 14 cm woofers with glass fibre cones and a 2.5 cm cloth dome tweeter assembled on a heavy and rigid cabinet to achieve clean and deep bass tones.
- The 2-way network has been designed to match the phase of each way around the crossover frequency, resulting in an accurate and non-directive sound.
- These speakers are magnetically shielded to prevent interference to TV sets.
- Choose from two wood finishes — light or a trendy dark wood combined with black detailing.

S-H320V-QL

S-H320V-W

NEW

S-H240V-QL/W

Audio Speaker Set
80 W Max.

MAIN FEATURES

- These 80 W 3-way bass-reflex floor-standing speakers each feature a 14 cm woofer, a 7 cm midrange and a 2.5 cm tweeter. They ensure dynamic and well-balanced sound, ideal for a hi-fi system.
- These speakers are magnetically shielded to prevent interference to TV sets.
- Attractively finished in a choice of two wood tones, this hi-fi speaker set blends in harmoniously with any interior.

S-H240V-QL

S-H240V-W

S-H710V

Audio Speaker Set
130 W Max.

MAIN FEATURES

- Consisting of two woofers, a tweeter and a super tweeter, this magnetically shielded speaker set creates brilliant DVD-Audio and SACD sound with a wide frequency range.
- The design features natural elements, like an aluminium cabinet, wood front panel and zinc for the top, base and centre flange of these floor-standing speakers.
- This versatile 130 W speaker package includes three different coloured grilles — black, burgundy and white — so you can change the look of your speakers to fit your interior or your mood.
- The S-H710V speaker package is magnetically shielded to prevent interference to TV sets, and can therefore also double as a home cinema speaker set.

S-H710V with white and burgundy grille

S-H610V

Audio Speaker Set
100 W Max.

MAIN FEATURES

- Bring high-performance sound to any living space thanks to these elegant 2-way 100 W speakers.
- These powerful speakers with ultra-modern design and ring-shaped base are sure to make a style statement.
- The S-H610V speaker set, fashioned in 100 % aluminium, is magnetically shielded to prevent interference to TV sets, and can therefore also double as a home cinema speaker set.

CS-7070

Audio Speaker Set
190 W Max.

MAIN FEATURES

- Enjoy the pure and powerful sound of these 3-way speakers with 190 W of audio power.
- These speakers are an excellent choice for any hi-fi system.
- The CS-7070 set is magnetically shielded to prevent interference to TV sets, and can therefore also double as a home cinema speaker set.

CS-5070

Audio Speaker Set
140 W Max.

MAIN FEATURES

- Get great sound thanks to these 3-way speakers with 140 W of audio power.
- These speakers are an excellent choice for any hi-fi system.
- The CS-5070 set is magnetically shielded to prevent interference to TV sets, and can therefore also double as a home cinema speaker set.

CS-3070

Audio Speaker Set
120 W Max.

MAIN FEATURES

- Opt for these subtle and compact 120 watt, 3-way speakers — a space-saving, quality audio solution.
- The CS-3070 set is magnetically shielded to prevent interference to TV sets, and can therefore also double as a home cinema speaker set.

For more details on features and technology, please visit www.pioneer-eur.com

Breathe life into your audio system with the superior sound and design quality of a Pioneer audio component. Whether you are starting from scratch or upgrading your system, Pioneer has just what you need to create a custom-fit sound. Choose from a range of CD recorders, CD players, cassette deck and amplifiers. For those who love music, it doesn't get any better than this.

CD RECORDER

Digital discs stand the test of time, every time. With a Pioneer CD recorder, selection, recording, searching and retrieval of tracks is simplicity itself. Mix all your favourite tunes, even from analogue sources, in whatever order you like. Any way you play it, you win.

PDR-W839 — CD Recorder

MAIN FEATURES

- Record from one to three CDs onto your own personalised CD
- 'Rec This' button for automatic recording
- Fast record thanks to the improved 2 x finalisation process and double speed dubbing
- Create and edit personalised CD Text via the front panel input connection for a keyboard

CD PLAYERS

Compact, convenient and reliable, the appeal of CDs and CD players will never fade away. With standards as high as ever, Pioneer CD players stand out. There are even CD players for filing away up to 301 CDs that can access any track immediately. So there's never an end to your listening pleasure.

PD-F1009 — File-Type CD Player
301 CDs

MAIN FEATURES

- Unique loading roulette rack system and single loader for storage of 301 CDs in a surprisingly compact unit
- Wide selection of listening modes, CD Text and CD-RW playback capability
- Legato Link Conversion for more faithful reproduction of the original sound
- Low power consumption

PD-F1007 — File-Type CD Player
301 CDs

PD-F958 — File-Type CD Player
101 CDs

PD-F706 — File-Type CD Player
25 + 1 CDs

PD-F607 — File-Type CD Player
25 CDs

PD-M426 — Multi CD Player

MAIN FEATURES

- Store up to six discs in a separate loader
- Anti-resonance and anti-vibrating design for stable sound output
- Pick up listening where you left off with the Last Disc Memory function

PD-M406 — Multi CD Player

JD-M300 — 6-CD Magazine

MAIN FEATURES

- Sort your favourite CDs into a separate loader
- For use with the PD-M426 and PD-M406 Multi Compact Disc players

AMPLIFIERS

Power, precision and purity all contribute to a sound's unadulterated impact. Pioneer amplifiers provide it all. Every performance is a clear, distortion-free listening experience. Peak power is pumped out with outstanding efficiency. Extra connections make these powerhouses easy to integrate into any audio system.

A-607R — Integrated Amplifier — 120 W x 2 DIN

MAIN FEATURES

- Pump out pure sound with a superb low frequency range and exceptionally low noise
- High-quality Direct Energy MOS FET circuit drives low impedance speakers and delivers clean hi-fi sound throughout the frequency range
- Symmetrical design adds to the perfect stereo sound

A-509R	Integrated Amplifier	90 W x 2 DIN
A-307R	Integrated Amplifier	80 W x 2 DIN
A-209R	Integrated Amplifier	60 W x 2 DIN
A-109	Integrated Amplifier	40 W x 2 DIN

CASSETTE DECK

Your cassette tapes are still around after all of these years... A Pioneer cassette deck will make them sound as good as ever. With up-to-date noise reducing technology, your analogue sources will be enhanced. Low-noise recording and playback means a new lease on life for all your old favourites.

CT-W208R — Double Cassette Deck

MAIN FEATURES

- This quality double cassette deck is a perfect addition to any audio system

TURNTABLE

PL-990 — Full Automatic Stereo Turntable

MAIN FEATURES

- Full automatic operation: To provide easy hands-off operation
- Low-mass straight tone arm: Highly sensitive and resistant to resonance, track records better
- Precision DC servo motor: Pioneer Stable Hanging Rotor ends spindle wobble for smoother and more accurate platter rotation
- Universal-type cartridge connector
- Phono EQ included
- Dimensions (W x H x D): 420 x 100 x 342 mm
- Weight: 2.65 kg

For more details on features and technology, please visit www.pioneer-eur.com

Plasma TVs Features & Specifications	PDP-506XDE	PDP-436XDE	PDP-506FDE	PDP-436FDE
PICTURE				
Diagonal Screen Size	50-inch/127 cm	43-inch/109 cm	50-inch/127 cm	43-inch/109 cm
HD ready	•	•	•	•
XGA Panel	•	•	•	•
Aspect Ratio	16:9	16:9	16:9	16:9
Number of Pixels	1,280 (Hor) x 768 (Ver)	1,024 (Hor) x 768 (Ver)	1,280 (Hor) x 768 (Ver)	1,024 (Hor) x 768 (Ver)
Brightness	1,100 cd/m²	1,100 cd/m²	1,100 cd/m²	1,100 cd/m²
Contrast Ratio	4,000:1	3,000:1	4,000:1	3,000:1
Viewing Angle	More than 160° (Hor/Ver)	More than 160° (Hor/Ver)	More than 160° (Hor/Ver)	More than 160°(Hor/Ver)
Video Signals	PAL/SECAM/NTSC3.58/NTSC4.43/ PAL60/HD/PC	PAL/SECAM/NTSC3.58/NTSC4.43/ PAL60/HD/PC	PAL/SECAM/NTSC3.58/NTSC4.43/ PAL60/HD	PAL/SECAM/NTSC3.58/NTSC4.43/ PAL60/HD
PC Signals	VGA/SVGA/XGA/Wide XGA	VGA/SVGA/XGA/Wide XGA	—	—
Home Gallery (JPEG PictureViewer)	•	•	—	—
Dual Screen Mode (PaP)	•	•	—	—
Picture-in-Picture Mode (PiP)	•	•	—	—
Still Picture Mode	•	•	•	•
AV Selection	•	•	•	•
ISF C³ Ready	•	•	•	•
PUREBLACK Panel	•	•	•	•
PUREBLACK Crystal Layer	•	•	•	•
Direct Colour Filter	•	•	•	•
Deep Waffle Rib Structure	•	•	•	•
PURE Drive 2^HD	•	•	•	•
Colour Temperature Adjustment	•	•	•	•
Colour Management	•	•	•	•
Digital Colour Transient Improvement (CTI)	•	•	•	•
Digital Noise Reduction	•	•	•	•
MPEG Noise Reduction	•	•	•	•
Analogue Tuner Noise Reduction	•	•	•	•
PAL 3D Y/C Separation	•	•	•	•
Active Dynamic Range Expander (DRE)	•	•	•	•
Natural Enhancer	•	•	•	•
i-CLEAR Drive	•	•	•	•
Dynamic HD Converter	•	•	•	•
Digital Flicker-Free	•	•	•	•
PureCinema	•	•	•	•
SOUND				
Audio Output Power	13 W + 13 W (1 kHz, 10 %, 8 Ω)	13 W + 13 W (1 kHz, 10 %, 8 Ω)	13 W + 13 W (1 kHz, 10 %, 8 Ω)	13 W + 13 W (1 kHz, 10 %, 8 Ω)
Tone Control (Bass, Treble, Balance)	•	•	•	•
Surround (SRS*)	•	•	•	•
Audio Orientation (FOCUS*)	•	•	•	•
Bass Boost (TruBass*)	•	•	•	•
DIGITAL TUNER				
DVB-T compliant	•	•	—	—
Modulation	COFDM (2k/8k)	COFDM (2k/8k)	—	—
Video Decoding	MPEG2 MP@ML	MPEG2 MP@ML	—	—
Preset Channels	999	999	—	—
Teletext (MHEG5)	•	•	—	—
Electronic Programme Guide (EPG)	•	•	—	—
ANALOGUE TUNER				
Auto Channel Preset	•	•	•	•
Reception System	(PAL B/G, I, DK — SECAM B/G, DK, L, L')	(PAL B/G, I, DK — SECAM B/G, DK, L, L')	(PAL B/G, I, DK — SECAM B/G, DK, L, L')	(PAL B/G, I, DK — SECAM B/G, DK, L, L')
Preset Channels	99	99	99	99
Teletext (CEEFAX/FLOF/TOP)	•	•	•	•
Picture and Text (Dual Screen)	•	•	•	•
Electronic Programme Guide (NexTView EPG)	•	•	—	—
CONTROL				
On-Screen Display Information (OSD)	(GB/D/F/NL/I/E/P/S/FIN/ GR/TR/RUS/NO/DK)	(GB/D/F/NL/I/E/P/S/FIN/ GR/TR/RUS/NO/DK)	(GB/D/F/NL/I/E/P/S/FIN/ GR/TR/RUS/NO/DK)	(GB/D/F/NL/I/E/P/S/FIN/ GR/TR/RUS/NO/DK)
Remote Control	Preset (TV/VCR/STB/DVD/DVR)	Preset (TV/VCR/STB/DVD/DVR)		
Other AV Equipment Connectivity (i/o Link.A)	•	•	•	•
Other AV Equipment Operation (SR+)	•	•	—	—
Energy Save Mode	•	•	•	•
Power Management (for PC)	•	•	—	—
CONNECTION TERMINALS				
HDMI	2	2	1	1
Component Video In	1	1	1	1
S-Video In (Front AV)	1	1	1	1
RCA AV In (Front AV)	1	1	1	1
Euro-SCART	3	3	3	3
Digital Optical Audio Out	1	1	—	—
RCA Audio Out	1	1	1	1
PC Input (Front)	1	1	—	—
Headphone Out (Front)	1	1	—	—
Subwoofer Out (Variable)	1	1	—	—
PC Card Slot	1	1	—	—
Common Interface Slot (CA Card)	1	1	—	—
SR Control	2	2	—	—
i/o link.A Select	1	1	1	1
Antenna Terminal Digital Tuner	2	2	—	—
Antenna Terminal Analogue Tuner	1	1	1	1
GENERAL				
Dimensions (W x H x D) Panel	1224 x 717 x 92 mm	1076 x 632 x 92 mm	1224 x 717 x 92 mm	1076 x 632 x 92 mm
Multimedia Receiver	420 x 90 x 299 mm	420 x 90 x 299 mm	420 x 90 x 299 mm	420 x 90 x 299 mm
Weight Panel	31.8 kg	25.8 kg	31.8 kg	25.8 kg
Multimedia Receiver	4.3 kg	4.3 kg	3.5 kg	3.5 kg
Power Consumption Panel (in use/standby)	344 W / 0.4 W	292 W / 0.4 W	344 W / 0.4 W	292 W / 0.4 W
Multimedia Receiver (in use/standby)	25 W / 0.7 W (antenna off)	25 W / 0.7 W (antenna off)	16 W / 0.4 W	16 W / 0.4 W
Power Requirements	AC 220 — 240 V, 50/60 Hz	AC 220 — 240 V, 50/60 Hz	AC 220 — 240 V, 50/60 Hz	AC 220 — 240 V, 50/60 Hz

* SRS WOW, SRS, SRS FOCUS, SRS TruBass, SRS and (o) symbol are trademarks of SRS Labs, Inc.

Note: Pioneer plasma display panels are manufactured using a high level of ultra-precision technology. Nevertheless, permanently lit, inactive or overactive pixels may occur. This is a consequence of plasma technology.

Note: Plasma display systems, while in use, may generate functional noise.

PDA-H05 Optical Cable Connection Example

* Width optical connection cable: 23 mm
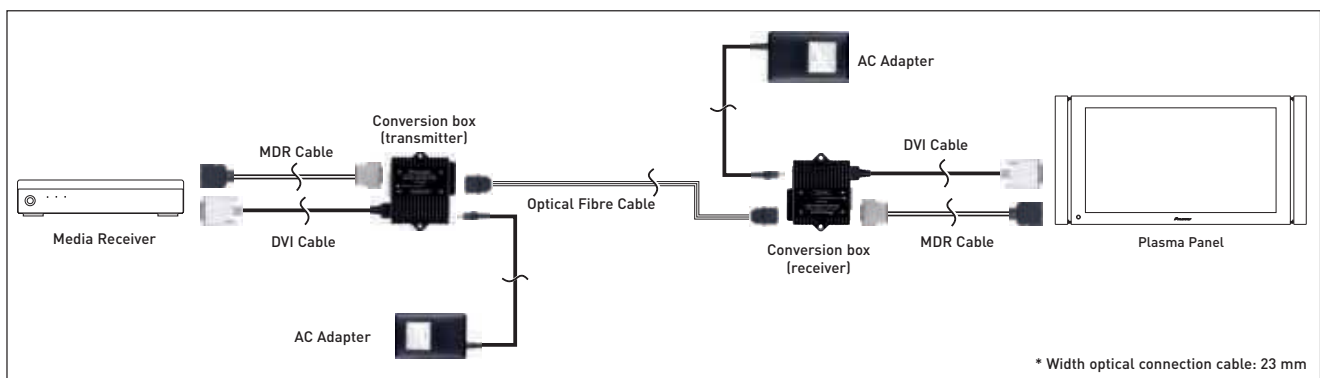
Plasma Panel Features & Specifications	PDP-615EX
PICTURE	
Diagonal Screen Size	61-inch/155 cm
Aspect Ratio	16:9
Number of Pixels	1,365 (Hor) x 768 (Ver)
Digital Comb Filter	NTSC: 3D
	PAL: 3 Line
Video Signals	PAL/SECAM/NTSC3.58/NTSC4.43/PAL60
Analogue Component (RCA/BNC)	60 Hz: 480i, 480p, 720p, 1035i, 1080i
	50 Hz: 576i, 576p, 1080i
Digital Component (HDMI)	60 Hz: 480i, 480p, 720p, 1080i
	50 Hz: 576i, 576p, 720p, 1080i
PC Signals	VGA/SVGA/XGA/SXGA/UXGA/
	W-XGA/W-SXGA/W-UXGA
Picture-in-Picture Mode (PiP)	•
Dual Screen Mode (PaP)	•
Digital Noise Reduction	• (Off/High/Mid/Low)
Gamma	•
Colour Management	•
Colour Temperature Adjustment	• (High/Mid/Mid-Low/Low, Manual)
PureCinema	• (Off/On)
Picture Memory	•
AV Selection (Programmed Picture)	• (STANDARD/DYNAMIC/MOVIE1/
	MOVIE2/DEFAULT)
CONTROL	
On-Screen Display Information (OSD)	(GB/D/F/I/E/S/RUS)
Remote Control	•
Power Management (for PC)	• (Off/On)
Off Timer	•

Plasma Panel Features & Specifications	PDP-615EX
SOUND	
Audio Output Power	9 W + 9 W (6 Ω)
Tone Control (Bass, Treble, Balance)	•
CONNECTION TERMINALS	
Video 1	Composite Video In (BNC)
Video 2	Composite Video In (RCA pin)
Video 3	S-Video In
COMPONENT 1	Y'Pb'Pr' In (RCA pin x3)
PC1	RGB In (D-sub15)
PC2/COMPONENT 2	RGB,HD,VD/Y'Pb'Pr' In* (BNC x5)
HDMI	HDMI In
Audio1	Audio LR In (RCA pin x2)
Audio2	Audio LR In (RCA pin x2)
Audio3	Audio LR In (RCA pin x2)
Others	Speaker Out L/R (Display Rear)
	External control (RS232C, D-sub9)
GENERAL	
Dimensions (W x H x D)	1,502 x 912 x 126 mm
Weight	68.0 kg
Power Consumption (in use/standby)	540 W / 1.3 W
Power Requirements	AC 220 — 240 V, 50/60 Hz

MULTIMEDIA RECEIVERS — BACK PANELS

Rear Panel PDP-506XDE / PDP-436XDE

Rear Panel PDP-506FDE / PDP-436FDE

DVD Recorders Features & Specifications	DVR-930H-S			DVR-630H-S			DVR-530H-S RCS-77H (DVD Recorder)		
HDD/DVD **Recording Mode (Format)**	HDD	DVD VR mode	Video mode	HDD	DVD VR mode	Video mode	HDD	DVD VR mode	Video mode
PLAYBACK									
Media	—	DVD-Video/DVD-R/DVD-RW/ CD/SVCD/VCD/CD-R/CD-RW[1]		—	DVD-Video/DVD-R/DVD-RW/ Dual-layer DVD-R (Video Model)/ DVD-RAM/DVD+R/DVD+RW/CD/ VCD/SVCD/CD-R/CD-RW[1]		—	DVD-Video/DVD-R/DVD-RW/ Dual-layer DVD-R (Video Model)/ DVD-RAM/DVD+R/DVD+RW/CD/ VCD/SVCD/CD-R/CD-RW[1]	
WMA[2]/MP3[3]/JPEG file[4] recorded on CD-R/CD-RW[5]	—	•		—	•		—	•	
Advanced Disc Navigator (DiscNavi)	•	•	• (before finalisation)	•	•	• (before finalisation)	•	•	• (before finalisation)
Seamless Playback	•	•	—	•	•	—	•	•	—
CM Skip (Commercial Skip)	•	•	•	•	•	•	•	•	•
CM Back (Commercial Back)	•	•	•	•	•	•	•	•	•
Chase Playback, Playback with Recording	•	•[6]	—	•	•[6]	—	•	•[6]	—
1.5x view (scan1)[7]	•	•	•	•	•	•	•	•	•
RECORDING									
Media									
DVD-R	—	•	•	—	•	•	—	•	•
DVD-RW	—	•	•	—	•	•	—	•	•
Dual-layer DVD-R (DVD-R DL)	—	—	—	—	—	•	—	—	•
Hard Disk Drive (HDD)	400 GB	—		250 GB	—		160 GB	—	
PAL/NTSC	•/•	•/•		•/•	•/•		•/•	•/•	
Recording Mode: Max. Recording Time	XP (FINE): +/- 86 hrs SP: +/- 173 hrs LP: +/- 346 hrs EP: +/- 520 hrs SLP: +/- 700 hrs MN: +/- 86 — 700 hrs	XP (FINE): +/- 1 hr SP: +/- 2 hrs LP: +/- 4 hrs EP: +/- 6 hrs SLP: +/- 8 hrs MN: +/- 1 — 8 hrs		XP+: +/- 36 hrs XP (FINE): +/- 53 hrs SP: +/- 106 hrs LP: +/- 212 hrs EP: +/- 319 hrs SLP: +/- 425 hrs SEP: +/- 532 hrs MN: +/- 36 — 711 hrs Max. recording time per title: 12 hrs	Single Layer Disc/Dual-layer DVD-R (Video Mode) XP (FINE): +/- 1 hr/1.8 hrs SP: +/- 2 hrs/3.5 hrs LP: +/- 4 hrs/7.1 hrs EP: +/- 6 hrs/10.7 hrs SLP: +/- 8 hrs/14.3 hrs SEP: +/- 10 hrs/17.9 hrs MN: +/- 1 — 13 hrs/1.8 — 24 hrs		XP+: +/- 23 hrs XP (FINE): +/- 34 hrs SP: +/- 68 hrs LP: +/- 136 hrs EP: +/- 204 hrs SLP: +/- 272 hrs SEP: +/- 340 hrs MN: +/- 23 — 455 hrs Max. recording time per title: 12 hrs	Single Layer Disc/Dual-layer DVD-R (Video Mode) XP (FINE): +/- 1 hr/1.8 hrs SP: +/- 2 hrs/3.5 hrs LP: +/- 4 hrs/7.1 hrs EP: +/- 6 hrs/10.7 hrs SLP: +/- 8 hrs/14.3 hrs SEP: +/- 10 hrs/17.9 hrs MN: +/- 1 — 13 hrs/1.8 — 24 hrs	
Variable Bit Rate Recording		•			•			•	
Easy Timer		•			•			•	
GUIDE Plus+™ System (Electronic Programme Guide)		•			•			•	
ShowView™		•			•			•	
VPS/PDC		•/• (8 programmes)			•/• (8 programmes)			•/• (8 programmes)	
Auto Start Recording	—	•	—		—			—	
One Touch Recording		•			•			•	
Direct TV Recording		•			•			•	
Number of Events		32/month			32/month			32/month	
Linear PCM Recording (Audio)		• (FINE/MN32)			• (LPCM)			• (LPCM)	
Digital Jukebox	—	—		•	—		•	—	
EDITING									
Input Disc Name/Title Name	—/•	•/•		—/•			—/•		
Easy Title Input (like Mobile Phone)		•			•			•	
Wallpaper samples (Title Menu)	—	—	• (Finalisation)	—	—	• (Finalisation)	—	—	• (Finalisation)
Erase Title	•	•	•[8]	•	•	•[8]	•	•	•[8]
Erase Chapter	•	•	•	•	•	—	•	•	—
Erase Section	•	•	—	•	•	—	•	•	—
Play List	—	•	—		•			•	
Accuracy	Frame	Frame	Title	Frame	Frame	0.5 to 1 second	Frame	Frame	0.5 to 1 second
Chapter Mark	•	•	10 min/15 min/ No Separation	•	•	10 min/15 min/ No Separation	•	•	10 min/15 min/ No Separation
Undo	—	•	•	—	•	•	—	•	•
PICTURE QUALITY									
Y/C Separation		5-Line Comb Filter			5-Line Comb Filter			5-Line Comb Filter	
PureCinema Progressive Scan (for NTSC/PAL)		•			•			•	
3-D Noise Reduction		• (Component Frame DNR PRO)			•			•	
Video DAC		14-bit/108 MHz			10-bit/54 MHz			10-bit/54 MHz	
Digital TBC		•			•			•	
Picture Creation		•			•			•	
HDD FUNCTION									
Group or Genre	•	—		•	—		•	—	
Maximum number of titles	999	—		999	—		999	—	
One Touch Copy	• (HDD to DVD, DVD to HDD)	—		• (HDD to DVD, DVD to HDD)	—		• (HDD to DVD, DVD to HDD)	—	
High-Speed Copy	• (HDD to DVD, DVD to HDD)[9]	—		• (HDD to DVD, DVD to HDD)[9]	—		• (HDD to DVD, DVD to HDD)[9]	—	
Rate Conversion Copy	• (HDD to DVD, DVD to HDD)	—		• (HDD to DVD, DVD to HDD)	—		• (HDD to DVD, DVD to HDD)	—	
Optimised Copy	• (HDD to DVD)	—		• (HDD to DVD)	—		• (HDD to DVD)	—	
Disc Backup[10]	•	—		•	—		•	—	
Auto Replace Recording	•	—		•	—		•	—	
Resume (by Title)	•	—		•	—		•	—	
Recovery Recording	•	—		•	—		•	—	
CONVENIENCE									
Auto Clock set-up		•			•			•	
Set-up Navigator		•			•			•	
Channel preset download		•			•			•	
Help function		—			•			•	
TUNER									
System		PAL-B/G, I, D/K SECAM-L/L', B/G, D/K			PAL-B/G, I, D/K SECAM-L/L', B/G, D/K			PAL-B/G, I, D/K SECAM-L/L', B/G, D/K	
TERMINALS									
Input									
SCART		1 (A/V connector 2)			1 (A/V connector 2)			1 (A/V connector 2)	
RGB Input (via Euro-SCART)[11]		•			•			•	
RCA (Audio/Video)		2 (1 front)			2 (1 front)			2 (1 front)	
S-Video		2 (1 front)			2 (1 front)			2 (1 front)	
Output									
SCART		1 (A/V connector 1)			1 (A/V connector 1)			1 (A/V connector 1)	
RGB Output (via Euro-SCART)		•			•			•	
HDMI Video Output		1			—			—	
Component Video Output		•			•			•	
RCA (Audio/Video)		1			1			1	
S-Video		1			1			1	
Digital Audio		Optical/Coaxial			Optical			Optical	
G-LINK (STB Control)		•			•			•	
DV Terminal (IEEE1394)[12]		IN/OUT			IN			IN	
Pioneer System Remote Control		IN			IN			IN	
MISCELLANEOUS									
Dimensions (W x H x D)		420 x 87 x 357 mm			420 x 59 x 273 mm			420 x 59 x 273 mm	
Weight		7.9 kg			4.1 kg			4.1 kg	
Power Requirements		AC 220 — 240 V, 50/60 Hz			AC 220 — 240 V, 50/60 Hz			AC 220 — 240 V, 50/60 Hz	
Power Consumption		62 W			49 W			48 W	
Power Consumption (Standby Mode)		0.7 W			0.93 W			0.93 W	
Remote Control		• (with TV Preset)			• (with TV Preset)			• (with TV Preset)	

DVD Recorder Features & Specifications	DVR-433H-S DVR-433H-K			DVR-230-S RCS-55 (DVD Recorder)	
HDD/DVD **Recording Mode (Format)**	**HDD**	**DVD**		**DVD**	
		VR mode	**Video mode**	**VR mode**	**Video mode**
PLAYBACK					
Media	—	DVD-Video/DVD-R/DVD-RW/ Dual-layer DVD-R (Video Model)/ DVD-RAM/DVD+R/DVD+RW/CD/ VCD/SVCD/CD-R/CD-RW[1]		DVD-Video/DVD-R/DVD-RW/CD/ VCD/CD-R/CD-RW[1]	
WMA[2]/MP3[3]/JPEG file[4] recorded on CD-R/CD-RW[5]	—	•		MP3	
Advanced Disc Navigator (DiscNavi)	•	•	• (before finalisation)	•	• (before finalisation)
Seamless Playback	•	•	—	—	—
CM Skip (Commercial Skip)	•	•	•	•	
CM Back (Commercial Back)	•	•	—	—	
Chase Playback, Playback with Recording	•	•[6]	—	—	
1.5x view (scan1)[7]	•	•		•	
RECORDING					
Media					
DVD-R	—	•	•	•	
DVD-RW	—	•	•	•	
Dual-layer DVD-R (DVD-R DL)	—	—	•	—	
Hard Disk Drive (HDD)	80 GB	—		—	
PAL/NTSC	•/•	•/•		•/—	
Recording Mode: Max. Recording Time	XP+: +/- 11 hrs XP (FINE): +/- 17 hrs SP: +/- 34 hrs LP: +/- 68 hrs EP: +/- 102 hrs SLP: +/- 136 hrs SEP: +/- 170 hrs MN: +/- 11 — 227 hrs Max. recording time per title: 12 hrs	Single Layer Disc/Dual-layer DVD-R (Video Mode) XP (FINE): +/- 1 hr/1.8 hrs SP: +/- 2 hrs/3.5 hrs LP: +/- 4 hrs/7.1 hrs EP: +/- 6 hrs/10.7 hrs SLP: +/- 8 hrs/14.3 hrs SEP: +/- 10 hrs/17.9 hrs MN: +/- 1 — 13 hrs/1.8 — 24 hrs		Single Layer Disc XP (FINE): +/- 1 hr SP: +/- 2 hrs LP: +/- 4 hrs EP: +/- 6 hrs SLP: +/- 8 hrs SEP: +/- 10 hrs (VR Mode) SEP: +/- 12 hrs (Video Mode)	
Variable Bit Rate Recording		•		•	
Easy Timer		•		—	
GUIDE Plus+™ System (Electronic Programme Guide)		—		—	
ShowView™		•		•	
VPS/PDC		—		—	
Auto Start Recording	•	—	—	—	
One Touch Recording		•		•	
Direct TV Recording		•		•	
Number of Events		32/month		32/month	
Linear PCM Recording (Audio)		• (LPCM)		• (LPCM)	
Digital Jukebox	•	—		—	
EDITING					
Input Disc Name/Title Name		•/•		—/•	
Easy Title Input (like Mobile Phone)		•		—	
Wallpaper samples (Title Menu)	—	—	• (Finalisation)	—	• (Finalisation)
Erase Title	•	•	•[8]	•	•[8]
Erase Chapter	•	•		•	
Erase Section	•	•	—	—	
Play List	•	•	—	—	
Accuracy	Frame	Frame	0.5 to 1 second	Frame	Title
Undo	—	•	•	—	—
PICTURE QUALITY					
Y/C Separation	5-Line Comb Filter			5-Line Comb Filter	
PureCinema Progressive Scan (for NTSC/PAL)	•			• (PAL)	
3-D Noise Reduction	•			—	
Video DAC	10-bit/54 MHz			10-bit/54 MHz	
Digital TBC	•			—	
Picture Creation	•			Block NR/Mosquito NR/White level/Chroma Level (Playback Adjust)	
HDD FUNCTION					
Group or Genre	•	—		—	
Maximum number of titles	999			—	
One Touch Copy	• (HDD to DVD, DVD to HDD)	—		—	
High-Speed Copy	• (HDD to DVD, DVD to HDD)[9]	—		—	
Rate Conversion Copy	• (HDD to DVD, DVD to HDD)	—		—	
Optimised Copy	• (HDD to DVD)	—		—	
Disc Backup[10]	•	—		—	
Auto Replace Recording	•	—		—	
Resume (by Title)	•	—		—	
Recovery Recording	•	—		—	
CONVENIENCE					
Auto Clock set-up		•		•	
Set-up Navigator		•		•	
Channel preset download		•		•	
Help function		•		—	
TUNER					
System		PAL-B/G, I, D/K SECAM-L/L', B/G, D/K		PAL-B/G, I, D/K SECAM-L/L', B/G, D/K	
TERMINALS					
Input					
SCART		1 (A/V connector 2)		1 (A/V connector 2)	
RGB Input (via Euro-SCART)[11]		—		—	
RCA (Audio/Video)		2 (1 front)		1 (front)	
S-Video		2 (1 front)		—	
Output					
SCART		1 (A/V connector 1)		1 (A/V connector 1)	
RGB Output (via Euro-SCART)		•		•	
HDMI Video Output		—		—	
Component Video Output		•		•	
RCA (Audio/Video)		1		1	
S-Video		1		1	
Digital Audio		Optical		Coaxial	
G-LINK (STB Control)		—		—	
DV Terminal (IEEE1394)[12]		IN		—	
Pioneer System Remote Control		IN		IN (RCS-55 only)	
MISCELLANEOUS					
Dimensions (W x H x D)		420 x 59 x 273 mm		420 x 69 x 333 mm	
Weight		4.0 kg		3.3 kg	
Power Requirements		AC 220 — 240 V, 50/60 Hz		AC 220 — 240 V, 50/60 Hz	
Power Consumption		46 W		25 W	
Power Consumption (Standby Mode)		0.93 W		0.60 W	
Remote Control		• (without TV Preset)		• (without TV Preset)	

1) DVD-R/DVD-RW/DVD-RAM/DVD+R/DVD+RW/CD-R/CD-RW playback: Disc may not be played back because of following reasons: recording characteristics of recorder, characteristics of disc, scratches and dust on disc, dust and condensation on pickup lens. CD-R/CD-RW playback: CD-R/CD-RW discs for Audio, recorded in CD Audio, VideoCD, WMA/MP3 audio or JPEG formatting can be played back. Unfinalised discs except CD audio formatting cannot be played back. Only CD audio is not compatible with multi-session discs. Only the first session of a multi-session disc will be recognised. For DVD-RAM playback, please take the disc out of the cartridge before use. Only DVD+R/DVD+RW discs recorded in 'Video Mode (DVD Video Mode)' which have been finalised, can be played back. However, some editing made during the recording may not be played back accurately. DVD-RAM, DVD+R/DVD+RW discs are playback compatible only. No recording compatibility.   2) WMA content can be encoded by using Windows Media® Player version 9, Windows Media® Player for Windows® XP, or Windows Media® Player 10 Series. Compatible with sampling rate of 44.1 or 48 kHz. Not compatible with loss-less-encoding or variable bit-rate (VBR) WMA files. WMA files encoded with DRM (Digital Rights Management) copy protection will not play. Up to 99 folders and 999 tracks (MP3 and WMA) in total can be played. DVR-230: Up to 50 folders and 300 tracks (MP3) in total can be played.   3) Compatible with MPEG1 Audio Layer 3 44.1 kHz and 48 kHz formats. MP3 file name requires MP3 or mp3 as an extension. Compatible with VBR (Variable Bit Rate) (however the time display may not be shown correctly). Up to 99 folders and 999 tracks (MP3 and WMA) can be played in total.   4) JPEG file compatibility: This recorder is compatible with FUJICOLOR CD and KODAK Picture CD formats, as well as CD-R/CD-RW/CD-ROMs containing JPEG files. Baseline JPEG and EXIF files up to 19 megapixels are supported (maximum vertical resolution is 3840 pixels and horizontal resolution is 5120 pixels).   5) Recording format should be in accordance with ISO9660 CD-ROM file system. Both Romeo and Joliet file systems can be played. On DVR-230, playback of Romeo file systems is not assured. CD physical format: Mode1, Mode2 XA Form 1. Chinese characters cannot be displayed, although files featuring such names can be played.   6) Only for DVD-RW Ver. 1.1/2x, Ver. 1.2/4x disc or Ver. 1.2/6x.   7) Sound output by means of Dolby Digital and Linear PCM audio only. Dialogue may not be clearly reproduced, depending on the recording conditions. No sound during DVD Chase Play. Chase Play is not available on DVR-230.   8) For DVD-R discs, remaining volume is not increased after erasing titles. For DVD-RW discs, remaining volume is increased when erasing the last title. 9) High-Speed Copy from DVD to HDD is only available for the original title in 'VR Mode (DVD Video Recording Mode)' (except One Touch Copy). High-Speed Copy from the titles recorded with computers or other DVD recorders may not be available.   10) Only for finalized DVD-R/DVD-RW discs recorded in 'Video Mode (DVD Video Model)'.   11) Available only for input line system (625 system for all models).   12) "i.LINK" and "i.LINK" Logo are trademarks. Can be connected to video DV decks and DV camcorders. (Some models are not compatible.) Cannot be connected to DVD players and A/V amplifiers.

About Dual Disc Playback: A DualDisc is a new two-sided disc: one side contains DVD content — video, audio, etc. — while the other side contains non-DVD content, such as digital audio material. The non-DVD (audio) side of the disc is not compliant with the CD Audio specification, and therefore may not play. It is possible that when loading or ejecting a DualDisc, the non-playing side of the disc could be scratched. Scratched discs may not play properly. The DVD side of a DualDisc plays in this product, DVD-Audio content will not play. For more detailed information on DualDisc specifications, please refer to the disc manufacturer or disc retailer.

DVD Recorders / VCR Combinations Features & Specifications — 1	DVR-RT601H-S				DVR-RT501-S		
HDD/DVD Recording Mode (Format)	VCR	HDD	DVD		VCR	DVD	
			VR mode	Video mode		VR mode	Video mode
PLAYBACK							
Media	VHS	—	DVD-Video/DVD-R/DVD-RW/ Dual-layer DVD-R (Video Model)/ DVD-RAM/DVD+R/DVD+RW/CD/ VCD/SVCD/CD-R/CD-RW[1]		VHS	DVD-Video/DVD-R/DVD-RW/CD/CD-R/CD-RW[13]	
WMA[2]/MP3[3]/JPEG file[4] recorded on CD-R/CD-RW[5]	—	—	•		—	•[14]	
Advanced Disc Navigator (DiscNavi)	—	•	•	•	—	—	—
Seamless Playback	—	•	•		—	—	—
CM Skip (Commercial Skip)	•	•	•	•	•	•	•
CM Back (Commercial Back)	—	•	•	•	—	1 Touch Repeat (10 sec)	1 Touch Repeat (10 sec)
Chase Playback, Playback with Recording	—	•	•[6]		—	—	—
1.5x view (scan1)[7]	—	•	•	•	—	—	—
Zoom	—	•	—	—	—	•	
RECORDING							
Media							
VHS	•	—	—	—	•	—	—
DVD-R	—	—	•	•	—	—	•[15]
DVD-RW	—	—	•	•	—	•	•[15]
Dual-layer DVD-R (DVD-R DL)	—	—	—	•	—	—	—
Hard Disk Drive (HDD)	—	80 GB	—		—	—	
PAL/NTSC	•/—	•/•	•/•		•/—	•/—	
Recording Mode: Max. Recording Time	SP (3 hrs: E-180) LP (6 hrs: E-180)	XP+: +/- 11 hrs XP (FINE): +/- 17 hrs SP: +/- 34 hrs LP: +/- 68 hrs EP: +/- 102 hrs SLP: +/- 136 hrs SEP: +/- 170 hrs MN: +/- 11 — 227 hrs Max. recording time per title: 12 hrs	Single Layer Disc/Dual-layer DVD-R (Video Mode) XP (FINE): +/- 1 hr/1.8 hrs SP: +/- 2 hrs/3.5 hrs LP: +/- 4 hrs/7.1 hrs EP: +/- 6 hrs/10.7 hrs SLP: +/- 8 hrs/14.3 hrs SEP: +/- 10 hrs/17.9 hrs MN: +/- 1 — 13 hrs/1.8 — 24 hrs		SP (3 hrs: E-180) LP (6 hrs: E-180)	XP (FINE): +/- 1 hr[16] SP: +/- 2 hrs LP: +/- 4 hrs EP: +/- 6 hrs	
Variable Bit Rate Recording	—	•			—	•	
Easy Timer	—	•			—	—	
GUIDE Plus+™ System (Electronic Programme Guide)	—	•			—	—	
ShowView™	—					•	
VPS/PDC	—	•/• (8 programmes)			—	•/•	
One Touch Recording	—	•			—	•[17]	
Direct TV Recording	—	•			—	—	
Number of Events	—	32/month				12/month	
Linear PCM Recording (Audio)	—	• (LPCM)			—	—	
Digital Jukebox	—	•	—		—	—	
EDITING							
Input Disc Name/Title Name	—	—/•			—	•/•	•/•
Easy Title Input (like Mobile Phone)	—	•			—	•	•
Wallpaper samples (Title Menu)	—	—	—	• (Finalisation)	—	—	—
Erase Title	—	•	•	•[8]	—	—	—
Erase Chapter	—	•	•		—	•[18]	—
Erase Section	—	•	•		—	•	—
Play List	—		—		—	•	—
Accuracy	—	Frame	Frame	Title	—	Second	Title
Chapter Mark	—	•	•	10 min/15 min/ No Separation	—	•	OFF/5 min/10 min/ 15 min/30 min
Undo	—	—	—	•	—	—	—
PICTURE QUALITY							
Y/C Separation	—	5-Line Comb Filter			—	—	
PureCinema Progressive Scan (for NTSC/PAL)	—	•			—	• (for PAL)	
3-D Noise Reduction	—	•			—	—	
Video DAC	—	10-bit/54 MHz			—	10-bit/54 MHz	
Digital TBC	—	•			—	—	
Picture Creation	—	•			—	—	
HDD FUNCTION							
Group	—	•			—	—	
Maximum number of titles	—	999	—		—	—	
One Touch Copy	—	• (HDD to DVD, DVD to HDD, VHS to DVD)	—		—	—	
High-Speed Copy	—	• (HDD to DVD, DVD to HDD)[9]	—		—	—	
Rate Conversion Copy	—	• (HDD to DVD, DVD to HDD)	—		—	—	
Optimised Copy	—	• (HDD to DVD)	—		—	—	
Disc Backup[10]	—	•	—		—	—	
Auto Replace Recording	—	•	—		—	—	
Resume (by Title)	—	•	—		—	•	
Recovery Recording	—	•	—		—	—	
VHS FEATURES							
VHS-DVD Auto Copy	—	•			—		
Hi-fi Stereo	•	—			•	—	
Auto Tracking	•	—			•	—	
Index Search	•	—			•	—	
HQ (VHS Standard High Quality)	•	—			•	—	
CONVENIENCE							
Copy	6-way (between HDD and DVD, HDD and VHS and DVD and VHS)				2-way (between DVD and VHS)		
Auto Clock set-up	—	•			—	•	
Set-up Navigator	—	•			—	•	
Channel preset download	—	•			—	—	
Help Function	—	•			—	—	

DVD RECORDERS — BACK PANELS (1)

Rear Panel DVR-RT601H-S
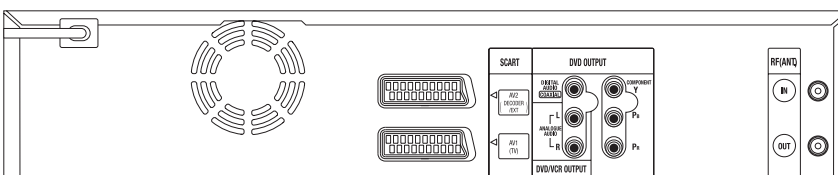
Rear Panel DVR-RT501-S

DVD Recorder / VCR Combinations Features & Specifications — 2	DVR-RT601H-S				DVR-RT501-S		
HDD/DVD Recording Mode (Format)	VCR	HDD	VR mode	DVD Video mode	VCR	VR mode	DVD Video mode
TUNER							
System			PAL-B/G, I, D/K SECAM-L/L', B/G, D/K			PAL-B/G, SECAM-L	
TERMINALS							
Input							
SCART			1 (A/V connector 2)			1 (Decoder/External socket)	
RGB Input (via Euro-SCART)[11]			•			—	
RCA (Audio/Video)			1 (front)			1 (front)	
S-Video			1 (front) (HDD/DVD only)			1 (front: DVD only)	
Output							
SCART			1 (A/V connector 1)			1 (TV socket)	
RGB Output (via Euro-SCART)			• (HDD/DVD only)			1 (DVD only)	
Component Video Output			• (HDD/DVD only)		—	1 (DVD only)	
RCA (Audio/Video)			1			1 (Audio)	
S-Video			—			—	
Digital Audio			Optical (HDD/DVD only)			Coaxial (DVD only)	
G-LINK (STB Control)			• (HDD/DVD only)			—	
DV Terminal (IEEE1394)[12]			—			—	
Pioneer System Remote Control			IN			—	
MISCELLANEOUS							
Dimensions (W x H x D)			430 x 91 x 362 mm			430 x 90 x 320 mm	
Weight			6.0 kg			5.0 kg	
Power Requirements			AC 220 — 240 V, 50/60 Hz			AC 230 V, 50/60 Hz	
Power Consumption			46 W			31 W	
Power Consumption (Standby Mode)			0.93 W			5.5 W[19]	
Remote Control			• (with TV Preset)			•	

Note VHS: Only video tapes having the VHS mark can be used. Video tapes with the HQ mark use VHS high-quality picture technology. Compatible with normal VHS format.

Video tapes recorded in LP mode cannot be played back on VCRs with SP mode playback only.

DVR-RT601H-S:

1) DVD-R/DVD-RW/DVD-RAM/DVD+R/DVD+RW/CD-R/CD-RW playback: Disc may not be played back because of following reasons: recording characteristics of recorder, characteristics of disc, scratches and dust on disc, dust and condensation on pickup lens. CD-R/CD-RW playback: CD-R/CD-RW discs for Audio, recorded in CD Audio, VideoCD, WMA/MP3 audio or JPEG formatting can be played back. Unfinalised discs except CD audio formatting cannot be played back. Only CD audio is not compatible with multi-session discs. Only the first session of a multi-session disc will be recognised. For DVD-RAM playback, please take the disc out of the cartridge before use. Only DVD+R/DVD+RW discs recorded in 'Video Mode (DVD Video Mode)' which have been finalised, can be played back. However, some editing made during the recording may not be played back accurately. DVD-RAM, DVD+R/DVD+RW discs are playback compatible only. No recording compatibility. 2) WMA content can be encoded by using Windows Media® Player version 9, or Windows Media® Player for Windows® XP. Compatible with sampling rate of 44.1 or 48 kHz. Not compatible with loss-less-encoding or variable bit-rate (VBR) WMA files. WMA files encoded with DRM (Digital Rights Management) copy protection will not play. Up to 99 folders and 999 tracks (MP3 and WMA) in total can be played. 3) Compatible with MPEG1 Audio Layer 3 44.1 kHz and 48 kHz formats. MP3 file name requires MP3 or mp3 as an extension. Compatible with VBR (Variable Bit Rate) (however the time display may not be shown correctly). Up to 99 folders and 999 tracks (MP3 and WMA) can be played in total. 4) JPEG file compatibility: This recorder is compatible with FUJICOLOR CD and KODAK Picture CD formats, as well as CD-R/CD-RW/CD-ROMs containig JPEG files. Baseline JPEG and EXIF files up to 19 megapixels are supported (maximum vertical is 3840 pixels and horizontal resolution is 5120 pixels). 5) Recording format should be in accordance with ISO9660 level 2 CD-ROM file system. Both Romeo and Joliet file systems are playable. CD physical format: Mode1, Mode2 XA Form 1. Chinese characters cannot be displayed, although files featuring such names can be played. 6) Only for DVD-RW Ver. 1.1/2x, Ver. 1.2/4x disc or Ver. 1.2/6x. 7) Sound output by means of Dolby Digital and Linear PCM audio only. Dialogue may not be clearly reproduced, depending on the recording conditions. No sound during DVD chase play. 8) For DVD-R discs, remaining volume is not increased after erasing titles. For DVD-RW discs, remaining volume is increased when erasing the last title. 9) High-Speed Copy from DVD to HDD is only available for the original title in 'VR Mode (Video Recording Model)' (except One Touch Copy). High-Speed Copy from the titles recorded with computers or other DVD recorders may not be available. 10) Only for finalised DVD-R/DVD-RW discs recorded in 'Video Mode (DVD Video Model)'. 11) Available only for input line system (625 system for all models).

Notes: Copying of "record only once" programme to the VHS is not allowed. Programmed recording for VHS is not possible.

DVR-RT501-S:

Note DVD: This unit may not be able to record to or playback from discs that have been recorded on other units due to the recording conditions, surface dirt or scratches. Other units may not be able to record to or playback from discs that have been recorded on this unit due to the recording conditions, surface dirt or scratches. 13) DVD/CD-R/CD-RW playback: Disc may not be played back because of following reasons: recording characteristics of recorder, characteristics of disc, scratches and dust on disc, dust and condensation on pickup lens. CD-R/CD-RW playback: CD-R/CD-RW discs for Audio, recorded in CD Audio, WMA/MP3 audio or JPEG formatting can be played back. Unfinalised discs except CD audio formatting cannot be played back. Only CD audio is not compatible with multi-session discs. 14) WMA content can be encoded by using Windows Media® Player version 7 or 8. Compatible with sampling rate of 32 kHz, 48 kHz, 44.1 kHz, 48 kbps to 192 kbps and 48 kHz, 128 kbps to 192 kbps. Not compatible with loss-less-encoding or variable bit-rate (VBR) WMA files. WMA files encoded with DRM (Digital Rights Management) copy protection will not play. Up to 50 folders and 200 tracks (MP3 and WMA) in total can be played. Compatible with MPEG1 Audio 32 kHz, 44.1 kHz, 48 kHz (32 kbps to 320 kbps) formats. MP3 file name requires .mp3 as an extension. Compatible with VBR (Variable Bit Rate) (however the time display may not be shown correctly). Up to 50 folders and 200 tracks (MP3 and WMA) can be played in total. JPEG file compatibility: This recorder is compatible with CD-R/CD-RW/CD-ROMs containing JPEG files. Photo CDs cannot be played back. MP3/WMA/JPEG CD is a disc that is standardised by ISO9660. Chinese characters cannot be displayed, although files featuring such names can be played. 15) Recording in 'VR Mode (Video Recording Mode)' on DVD-R disc is not possible. Recording to 8x DVD-R media and 4x DVD-RW media is possible. 16) Recording time is based on 4.7 GB disc. 17) Records 30 mins, 1hr, 1 hr 30 mins, 2 hrs, 3 hrs, 5 hrs, 6 hrs with each push of the button. 18) 'Chapter Combine' function can work as 'Erase Chapter' function. 19) At FL OFF. in recording mode with VPS/PDC OFF.

Note: DualDisc Playback: The non-DVD side of a DualDisc is not compliant with the Compact Disc Digital Audio Specification and may therefore not be able to be played back.

The use of DualDisc may cause playback malfunctioning or damage to disc and/or player. Please refer to www.pioneer-eur.com for further information.

DVD RECORDERS — BACK PANELS (2)

Rear Panel DVR-930H-S

Rear Panel DVR-630H-S / DVR-530H-S

Rear Panel DVR-433H-S / DVR-433H-K

Rear Panel DVR-230-S

Digital Home Cinema Systems Features	RCS-77H*	RCS-55*	DCS-535	DCS-340	DCS-333	DCS-240	DCS-232
SYSTEM							
Display	FL	FL	FL	FL	FL	FL	FL
Dimmer Control	2 step	2 step	2 step	2 step	2 step	2 step	2 step
Remote Control Unit	Preset (TV only)	Preset (TV only)	No Preset	Preset (Pioneer Display only)	Preset (Pioneer Display only)	No Preset	No Preset
Timer	Recording/Sleep	Recording/Sleep	Sleep	Wake up/Sleep	Wake up/Sleep	Sleep	Sleep
AMPLIFIER							
Surround (RMS)							
Front	110 W (10 % THD, 3 Ω) 60 W (10 % THD, 6 Ω)	110 W (10 % THD, 3 Ω) 60 W (10 % THD, 6 Ω)	60 W/ch (10 % THD, 4 Ω) 50 W (10 % THD, 6 Ω)	100 W/ch (10 % THD, 6 Ω)	100 W/ch (10 % THD, 6 Ω)	60 W/ch (10 % THD, 4 Ω) 50 W (10 % THD, 6 Ω)	60 W/ch (10 % THD, 4 Ω) 50 W (10 % THD, 6 Ω)
Centre	110 W (10 % THD, 3 Ω) 60 W (10 % THD, 6 Ω)	110 W (10 % THD, 3 Ω) 60 W (10 % THD, 6 Ω)	60 W/ch (10 % THD, 4 Ω) 50 W (10 % THD, 6 Ω)	100 W/ch (10 % THD, 6 Ω)	100 W/ch (10 % THD, 6 Ω)	60 W/ch (10 % THD, 4 Ω) 50 W (10 % THD, 6 Ω)	60 W/ch (10 % THD, 4 Ω) 50 W (10 % THD, 6 Ω)
Surround	110 W (10 % THD, 3 Ω) 60 W (10 % THD, 6 Ω)	110 W (10 % THD, 3 Ω) 60 W (10 % THD, 6 Ω)	60 W/ch (10 % THD, 4 Ω) 50 W (10 % THD, 6 Ω)	100 W/ch (10 % THD, 6 Ω)	100 W/ch (10 % THD, 6 Ω)	60 W/ch (10 % THD, 4 Ω) 50 W (10 % THD, 6 Ω)	60 W/ch (10 % THD, 4 Ω) 50 W (10 % THD, 6 Ω)
Subwoofer (RMS)	70 W (10 % THD, 3 Ω) 60 W (10 % THD, 6 Ω)	70 W (10 % THD, 3 Ω) 60 W (10 % THD, 6 Ω)	60 W/ch (10 % THD, 4 Ω) 50 W (10 % THD, 6 Ω)	100 W/ch (10 % THD, 6 Ω)	100 W/ch (10 % THD, 6 Ω)	60 W/ch (10 % THD, 4 Ω) 50 W (10 % THD, 6 Ω)	60 W/ch (10 % THD, 4 Ω) 50 W (10 % THD, 6 Ω)
Wireless Speaker (RMS)	—	—	10 W/ch (10 % THD, 4 Ω)	—	—	—	—
SURROUND SOUND							
Front Surround Mode							
Front Surround Movie	•	•	—	•	•	—	—
Front Surround Music	•	•	—	•	•	—	—
Extra Power	•	•	—	—	—	—	—
ON/OFF (without DSP)	—	—	—	—	—	•	•
Advanced Surround Mode							
Advanced Movie	•	•	—	•	•	—	—
Advanced Music	•	•	—	•	•	—	—
Expanded	•	•	—	•	•	—	—
Sports	•	•	—	•	•	—	—
Game	•	•	—	•	•	—	—
TV Surround	•	•	—	•	•	—	—
5-Channel Stereo	•	•	—	•	•	—	—
Phones Surround	—	—	—	•	•	—	—
Sound Field Control Mode							
ACTION	—	—	•	—	—	•	•
DRAMA	—	—	•	—	—	•	•
ROCK	—	—	•	—	—	•	•
POP	—	—	•	—	—	•	•
HALL	—	—	•	—	—	•	•
LIVE	—	—	•	—	—	•	•
Surround Mode							
Auto	•	•	•	•	•	•	•
Dolby Digital	• (Auto)	• (Auto)	•	•	•	•	•
Dolby Pro Logic	•	•	•[8]	•	•	•[8]	•[8]
Dolby Pro Logic II Movie	•	•	•[8]	•	•	•[8]	•[8]
Dolby Pro Logic II Music	•	•	•[8]	•	•	•[8]	•[8]
Centre Width	—	—	—	•	•	—	—
Dimension	—	—	—	•	•	—	—
Panorama	—	—	—	•	•	—	—
DTS	• (Auto)	• (Auto)	•	•	•	•	•
Stereo	•	•	•	•	•	•	•
Automatic Optimal Surround Set-up (MCACC)	—	—	—	•	•	—	—
Room Set-up	• (3 sizes, 3 positions)	• (3 sizes, 3 positions)	—	—	—	—	—
Dialogue Enhancement	—	•	—	•	•	—	—
AUDIO FEATURES							
Midnight Listening Mode	—	—	—	•	•	—	—
Quiet Mode	—	—	—	—	—	—	—
Bass Mode	• (Music/Cinema)	• (Music/Cinema)	• (Music/Cinema)	• (Music/Cinema)	• (Music/Cinema)	• (Music/Cinema)	• (Music/Cinema)
Bass/Treble Tone Control	•	•	•	•	•	•	•
Channel Level Control	•	•	•	•	•	•	•
TUNER							
RDS Tuner	•	•	•	•	•	•	•
Band (FM/AM)	•	•	•	•	•	•	•
Presets	30	30	30	30	30	30	30
Auto Tuning	•	•	•	•	•	•	•
DVD RECORDING*							
DVD PLAYBACK							
Playback Discs	DVD-Video/DVD-R[1]/DVD-RW[1]/ Dual-layer DVD-R (Video Mode)/DVD-RAM/DVD+R/ DVD+RW/CD/VCD/SVCD/ CD-R[1]/CD-RW[1] (MP3[2], WMA[3], JPEG[4])	DVD-Video/DVD-R[1]/DVD-RW[1]/ Dual-layer DVD-R (Video Mode)/CD/VCD/CD-R[1]/ CD-RW[1] (MP3[2])	DVD-Video/DVD-R[1]/ DVD-RW[1]/SVCD/VCD/ CD/CD-R[1]/CD-RW[1] (MP3[2], WMA[3], JPEG[4])	DVD-Video/DVD-R[1]/ DVD-RW[1]/SVCD/VCD/ CD/CD-R[1]/CD-RW[1] (MP3[2], WMA[3], JPEG[4])	DVD-Video/DVD-R[1]/ DVD-RW[1]/SVCD/VCD/ CD/CD-R[1]/CD-RW[1] (MP3[2], WMA[3], JPEG[4])	DVD-Video/DVD-R[1]/ DVD-RW[1]/SVCD/VCD/ CD/CD-R[1]/CD-RW[1] (MP3[2], WMA[3], JPEG[4])	DVD-Video/DVD-R[1]/ DVD-RW[1]/SVCD/VCD/ CD/CD-R[1]/CD-RW[1] (MP3[2], WMA[3], JPEG[4])
DivX® Video playback**	—	—	•	•	•	•	•
Advanced Disc Navigator	•	•	—	•	•	•	•
JPEG Viewer/Slide Show	•	—	•	•	•	•	•
DTS-CD	•	•	•	•	•	•	•
Twin-Wave Laser Pickup	•	•	•	•	•	•	•
Dual System (PAL/NTSC) (Video output)	•	• (PAL output only)	•	•	•	•	•
Video Signal D/A Converter	10-bit	10-bit	12-bit	12-bit	12-bit	12-bit	12-bit
CONVENIENCES							
Advanced GUI (Graphical User Interface)	8 languages	8 languages	5 languages	5 languages	5 languages	5 languages	5 languages
Guide Indication	•	•	•	•	•	•	•
On-Screen Information	•	•	•	•	•	•	•
High-Quality On-Screen Display	•	•	•	•	•	•	•
SPECIAL PLAY FUNCTIONS							
Resume Function (Stop Key)	•	•	•	•	•	•	•
Continue Play Memory (Last Memory) (5 DVDs + 1 VCD)	—	—	•	•	•	•	•
Disc History (30 Recordable DVDs)	•	—	—	—	—	—	—
Repeat Mode (All, Title/Chapter, A-B)	•[5]	• (except A-B repeat)[5]	•[6]	•[6]	•[6]	•[6]	•[6]
Programme Play	24	—	24[7]	24[7]	24[7]	24[7]	24[7]
Still/Step Play	• (Forward/Reverse, except VCD reverse)	• (Forward/Reverse, except VCD reverse)	• (Forward/Reverse, except SVCD/VCD/DVD-RW (VR Mode)/DivX® reverse)	• (Forward/Reverse, except SVCD/VCD/DVD-RW (VR Mode)/DivX® reverse)	• (Forward/Reverse, except SVCD/VCD/DVD-RW (VR Mode)/DivX® reverse)	• (Forward/Reverse, except SVCD/VCD/DVD-RW (VR Mode)/DivX® reverse)	• (Forward/Reverse, except SVCD/VCD/DVD-RW (VR Mode)/DivX® reverse)
Slow Play	• (Forward/Reverse, except VCD reverse)	• (Forward/Reverse, except VCD reverse)	• (Forward/Reverse, except SVCD/VCD/DVD-RW (VR Mode)/DivX® reverse)	• (Forward/Reverse, except SVCD/VCD/DVD-RW (VR Mode)/DivX® reverse)	• (Forward/Reverse, except SVCD/VCD/DVD-RW (VR Mode)/DivX® reverse)	• (Forward/Reverse, except SVCD/VCD/DVD-RW (VR Mode)/DivX® reverse)	• (Forward/Reverse, except SVCD/VCD/DVD-RW (VR Mode)/DivX® reverse)
Random Play	—	—	•[7]	•[7]	•[7]	•[7]	•[7]
Scan/Search Functions							
10-Key Direct Search and Play (Chapter/Track)	•	•	•	•	•	•	•
Title Search	•	•	•	•	•	•	•
Track/Time search	•	•	•	•	•	•	•
OTHER SPECIAL FUNCTIONS							
Transfer Bit Rate Indicator	•	—	•	•	•	•	•
Video Zoom	—	—	•	•	•	•	•
TERMINALS	(Receiver Subwoofer)	(Receiver Subwoofer)					
Euro-SCART	—	—	—	•	•	•	•
Digital Input (Optical/Coaxial)	2/1	2/1	—	1/—	1/—	—	—
Audio Inputs/Outputs	1/—	1/—	1/1	1/1	1/1	1/—	1/—
Video Inputs/Outputs	—/—	—/—	—/1	—/1	—/1	—/1	—/1
Wireless Output (RCA L/R)	—	—	•	—	—	—	—
MCACC Mic Input	—	—	—	•	•	—	—
SATELLITE AND SUBWOOFER SPEAKER SYSTEM							
Standard 5.1 and Front Surround Settings	•	•	—	•	•	•	•
Magnetically Shielded (Satellite)	•	•	• (Front & centre only)	•	•	•	•

1) CD-R/CD-RW DVD-R/DVD-RW playback: Disc may not be played back because of following reasons: recording characteristics of recorder, characteristics of disc, scratches and dust on disc, dust and condensation on pickup lens. CD-R/CD-RW Playback: CD-R/CD-RW discs for Audio, recorded in CD Audio, VideoCD or MP3/WMA audio formatting can be played back. Unfinalised discs cannot be played back. DVD-R/DVD-RW Playback: Unfinalised discs cannot be played back.   2) Compatible with MPEG1 Audio Layer3 format with a sampling rate of 32, 44.1 or 48 kHz. Recording format should be in accordance with ISO9660 CD-ROM file system. Both Romeo and Joliet file systems can be played. On RCS-55, playback of Romeo is not assured. Note that if the file structure is very complex, you may not be able to read/play all files on the disc.   3) WMA content can be encoded by using Windows Media® Player version 8 (or less), or Windows Media® Player for Windows® XP. Compatible with sampling rate of 32, 44.1 or 48 kHz.   4) JPEG file compatibility: This player is compatible with FUJICOLOR CD and KODAK Picture CD formats, as well as CD-R/CD-RW/CD-ROMs containing JPEG files.   5) "All Repeat" is available for DVD-R and DVD-RW (Video Mode).   6) "All Repeat" is unavailable for DVD-R, DVD-RW (Video Mode), DivX® and WMA/MP3 discs. "A-B Repeat" is unavailable for DivX® and WMA/MP3 discs.   7) "Programme Play" and "Random Play" are unavailable for DVD-RW ('VR Mode (DVD Video Recording Mode)'), SVCD/VCD in PBC mode, DivX® and WMA/MP3 discs.   8) Does not work when input is coming from a tuner or other external equipment.

* Please see page 83 — 84 for RCS-77H and RCS-55 DVD Recorder specifications.   ** Official DivX® Certified product. Plays DivX® 5, DivX® 4, DivX® 3 and DivX® VOD video content (in compliance with DivX® Certified technical requirements).

Digital Home Cinema Systems Specifications	RCS-77H	RCS-55	DCS-535	DCS-340	DCS-333	DCS-240	DCS-232
SYSTEM							
Power Requirements							
DVD/CD Receiver	220 — 240 V, 50/60 Hz (DVD Recorder) 220 — 240 V, 50/60 Hz (Receiver Subwoofer)	220 — 240 V, 50/60 Hz (DVD Recorder) 220 — 240 V, 50/60 Hz (Receiver Subwoofer)	220 — 240 V, 50/60 Hz	220 — 230 V, 50/60 Hz	220 — 230 V, 50/60 Hz	220 — 240 V, 50/60 Hz	220 — 240 V, 50/60 Hz
Wireless Speaker	—	—	220 — 230 V, 50/60 Hz	—	—	—	—
Transmitter	—	—	220 — 240 V, 50/60 Hz	—	—	—	—
Power Consumption In Use/Standby							
DVD/CD Receiver	49 W/0.93 W (DVD Recorder) 51 W/0.4 W (Receiver Subwoofer)	25 W/0.6 W (DVD Recorder) 51 W/0.4 W (Receiver Subwoofer)	45 W/0.4 W	175 W/0.5 W	175 W/0.5 W	45 W/0.4 W	45 W/0.4 W
Wireless Speaker	—	—	26 W/—	—	—	—	—
Transmitter	—	—	9 W/2 W (without AC adapter)	—	—	—	—
DVD/CD RECEIVER							
Dimensions (W x H x D)	420 x 59 x 273 mm	420 x 69 x 333 mm	420 x 60 x 331.5 mm	420 x 70 x 399.5 mm	420 x 70 x 399.5 mm	420 x 60 x 331.5 mm	420 x 60 x 331.5 mm
Weight	4.1 kg	3.3 kg	3.1 kg	7.0 kg	7.0 kg	3.1 kg	3.1 kg
AMPLIFIER SECTION							
RMS Output Power							
Front (1 kHz, 10 % THD)	110 W/ch (3 Ω) 60 W/ch (6 Ω)	110 W/ch (3 Ω) 60 W/ch (6 Ω)	60 W/ch (4 Ω) 50 W/ch (6 Ω)	100 W/ch (6 Ω)	100 W/ch (6 Ω)	60 W/ch (4 Ω) 50 W/ch (6 Ω)	60 W/ch (4 Ω) 50 W/ch (6 Ω)
Centre (1 kHz, 10 % THD)	110 W/ch (3 Ω) 60 W/ch (6 Ω)	110 W/ch (3 Ω) 60 W/ch (6 Ω)	60 W/ch (4 Ω) 50 W/ch (6 Ω)	100 W/ch (6 Ω)	100 W/ch (6 Ω)	60 W/ch (4 Ω) 50 W/ch (6 Ω)	60 W/ch (4 Ω) 50 W/ch (6 Ω)
Surround (1 kHz, 10 % THD)	110 W/ch (3 Ω) 60 W/ch (6 Ω)	110 W/ch (3 Ω) 60 W/ch (6 Ω)	60 W/ch (4 Ω) 50 W/ch (6 Ω)	100 W/ch (6 Ω)	100 W/ch (6 Ω)	60 W/ch (4 Ω) 50 W/ch (6 Ω)	60 W/ch (4 Ω) 50 W/ch (6 Ω)
Subwoofer (100 Hz, 10 % THD)	70 W (3 Ω, 200 Hz) 60 W (6 Ω, 100 Hz)	70 W (3 Ω, 200 Hz) 60 W (6 Ω, 100 Hz)	60 W (4 Ω) 50 W (6 Ω)	100 W (6 Ω)	100 W (6 Ω)	60 W (4 Ω) 50 W (6 Ω)	60 W (4 Ω) 50 W (6 Ω)
Wireless Speaker (1 kHz, 10 % THD, 4 Ω)	—	—	10 W/ch (4 Ω)	—	—	—	—
SPEAKER SECTION							
Front Speaker	7.7 cm, 2-way	7.7 cm	7.7 cm	7.7 cm, 2-way	7.7 cm	7.7 cm, 2-way	7.7 cm
Type	Floor-standing	Bookshelf	Bookshelf	Floor-standing	Bookshelf	Floor-standing	Bookshelf
Impedance	6 Ω	6 Ω	6 Ω	6 Ω	6 Ω	6 Ω	6 Ω
Frequency Range	85 — 20,000 Hz	90 — 20,000 Hz	90 — 20,000 Hz	85 — 20,000 Hz	85 — 20,000 Hz	85 — 20,000 Hz	90 — 20,000 Hz
Maximum Input Power	100 W	100 W	60 W	100 W	100 W	100 W	60 W
Dimensions (W x H x D)	260 x 983.5 x 260 mm	105 x 115 x 114 mm	105 x 115 x 114 mm	260 x 983.5 x 260 mm	105 x 118 x 114 mm	260 x 983.5 x 260 mm	105 x 115 x 114 mm
Weight	3.7 kg	0.6 kg	0.6 kg	3.7 kg	0.6 kg	3.7 kg	0.6 kg
Centre Speaker	7.7 cm	7.7 cm	7.7 cm	7.7 cm	7.7 cm	7.7 cm	7.7 cm
Impedance	6 Ω	6 Ω	6 Ω	6 Ω	6 Ω	6 Ω	6 Ω
Frequency Range	75 — 20,000 Hz	90 — 20,000 Hz	90 — 20,000 Hz	75 — 20,000 Hz	75 — 20,000 Hz	75 — 20,000 Hz	90 — 20,000 Hz
Maximum Input Power	100 W	100 W	60 W	100 W	100 W	100 W	60 W
Dimensions (W x H x D)	270 x 90 x 100 mm	115 x 105 x 114 mm	115 x 105 x 114 mm	270 x 90 x 100 mm	270 x 90 x 100 mm	270 x 90 x 100 mm	115 x 105 x 114 mm
Weight	0.8 kg	0.6 kg	0.6 kg	0.8 kg	0.8 kg	0.8 kg	0.6 kg
Surround Speaker	7.7 cm	7.7 cm	—	7.7 cm	7.7 cm	7.7 cm	7.7 cm
Impedance	6 Ω	6 Ω	—	6 Ω	6 Ω	6 Ω	6 Ω
Frequency Range	100 — 20,000 Hz	100 — 20,000 Hz	—	100 — 20,000 Hz	100 — 20,000 Hz	100 — 20,000 Hz	100 — 20,000 Hz
Maximum Input Power	100 W	100 W	—	100 W	100 W	100 W	60 W
Dimensions (W x H x D)	105 x 118 x 114 mm	105 x 118 x 114 mm	—	105 x 118 x 114 mm	105 x 118 x 114 mm	105 x 118 x 114 mm	105 x 118 x 114 mm
Weight	0.6 kg	0.63 kg	—	0.6 kg	0.6 kg	0.6 kg	0.63 kg
Subwoofer	16 cm	16 cm	16 cm	16 cm	16 cm	16 cm	16 cm
Impedance	6 Ω	6 Ω	6 Ω	6 Ω	6 Ω	6 Ω	6 Ω
Frequency Range	25 — 1,000 Hz	25 — 1,000 Hz	30 — 2,000 Hz	30 — 2,000 Hz	30 — 2,000 Hz	30 — 2,000 Hz	30 — 2,000 Hz
Maximum Input Power	60 W	60 W	60 W	100 W	100 W	60 W	60 W
Dimensions (W x H x D)	200 x 375 x 437 mm	200 x 375 x 437 mm	190 x 360 x 317 mm	116 x 420 x 390 mm	116 x 420 x 390 mm	190 x 360 x 317 mm	190 x 360 x 317 mm
Weight	9.0 kg	9.0 kg	4.2 kg	4.4 kg	4.4 kg	4.2 kg	4.2 kg
Wireless Speaker Unit	—	—	7 cm x 2	—	—	—	—
Impedance	—	—	4 Ω	—	—	—	—
Dimensions (W x H x D)	—	—	461.5 x 176.5 x 95 mm	—	—	—	—
Weight	—	—	2.9 kg	—	—	—	—
Transmitter Unit							
Dimension (W x H x D)	—	—	166 x 56 x 112 mm	—	—	—	—
Weight	—	—	0.3 kg	—	—	—	—

See page 90 for Digital Home Cinema Systems' back panel pictures

DVD PLAYERS — BACK PANELS (1)

Rear Panel DV-989AVi-S

Rear Panel DV-585A-S / DV-585A-K

DVD Players Features	DV-989AVi-S	DV-585A-S DV-585A-K	DV-380-S DV-380-K	DV-2850-S
TECHNICAL FEATURES				
Playback Discs	DVD/SVCD/VCD/CD/ CD-R[1]/CD-RW[1]/ DVD-R[1]/DVD-RW[1]/ DVD-AUDIO/SACD/SACD Multi	DVD/SVCD/VCD/CD/ CD-R[1]/CD-RW[1]/ DVD-R[1]/DVD-RW[1]/ DVD-AUDIO/SACD/SACD Multi	DVD/SVCD/VCD/CD/ CD-R[1]/CD-RW[1]/ DVD-R[1]/DVD-RW[1]	DVD/SVCD/VCD/CD/ CD-R[1]/CD-RW[1]/ DVD-R[1]/DVD-RW[1]
DVD-RW recorded in 'VR Mode (DVD Video Recording Mode)' (CPRM)	•	•	•	•
DVD-R/DVD-RW recorded in 'Video Mode (DVD Video Mode)'	•	•	•	•
DivX® Video Playback[2]	—	•	•	•
Photo Viewer[3] (KODAK Picture CD/FUJI COLOR CD)	—	•	•	•
MP3[4]/WMA[5]	•/—	•	•	•
Dual System (PAL/NTSC) (Video output)	•	•	•	•
VIDEO FEATURES				
Dual PureCinema Progressive Scan (for NTSC/PAL)	•	•	•	•
108 MHz/12-bit D/A Converter	—	•	•	•
108 MHz/14-bit D/A Converter	•	—	—	—
Full 10-bit digital Video Processing	•	—	—	—
Video Adjust	•	•	•	—
DNR PRO (VQE9 10-bit)	•	—	—	—
Super Fine Focus Digital Filter	•	—	—	—
True Chroma Up Sampling	•	—	—	—
Zoom Function	—	•	•	—
HDMI ver.1.1	•	—	—	—
AUDIO FEATURES				
DVD-Audio Playback	•	•	—	—
Super Audio CD playback	•	•	—	—
Super Audio CD multi playback	•	•	—	—
192 kHz/24-bit D/A Converter	• (6 ch)	• (6 ch)	•	•
Built-in Decoder				
Dolby Digital Decoder (5.1-channel)	•	•	—	—
DTS Decoder	•	•	—	—
MPEG Multi Decoder	•	•	—	—
SACD Multi Decoder	•	•	—	—
Equaliser (Seven DSP Modes)	—	—	•	•
Digital Out On/Off	•	•	—	—
Dynamic Range Control (ON/OFF) (Dolby Digital)	• (on/off)	• (high/mid/low/off)	• (high/mid/low/off)	• (high/mid/low/off)
Legato PRO (Hi-bit) (Front 2ch)	•	—	—	—
Bass Management	•	—	—	—
Delay Adjustment	•	•	—	—
SACD set-up button	•	—	—	—
i.LINK (IEEE1394)	•	—	—	—
CONVENIENCES				
Special Play Functions				
Resume Function (Stop Key)	•[6]	•[6]	•	•
Last Memory Function	—	• (5 DVD-Video discs)	• (5 DVD-Video discs)	• (5 DVD-Video discs)
Repeat Mode (All, Title/Chapter, A-B)	•[7]	•[7]	•[7]	•[7]
Programme Play (CD/SACD: Track, DVD-Video: Chapter & Title, DVD-A: Group/Track)	•[8]	•[8]	•[8]	•[8]
Still/Step Play (Forward/Reverse)[9]	•	•	•	•
Slow Play (Forward/Reverse)[9]	•	•	•	•
Random Play[10]	•	•	•	•
Scan/Search Functions				
10-Key Direct Search and Play (Chapter/Track)	•	•	•	•
Search mode (Group[11]/Title/Track (Chapter)/Time)	•[12]	•[12]	•[12]	•[12]
Track/Time search	•	•	•	•
Page Search (DVD-Audio)	•	•	—	—
Other Special Functions				
Heads-Up Remote Control Unit	—	•	•	•
Jog and Joystick, Illuminated	•	—	—	—
Advanced Disc Navigator with Moving Thumbnails	—	•	•	•
Advanced GUI (Graphical User Interface)	—	•	•	•
Auto Power-Off (30 Minutes)	—	•	•	•
TERMINALS				
HDMI terminal	1	—	—	—
i.LINK (IEEE1394) Connector	2	—	—	—
Euro-SCART	2	1	1	1
RGB Video output (on Euro-SCART)	1	1	1	1
Component (Y'Pb'Pr')	1	1	1	1
S-Video Output	2	1	1	1
Video Output	2	1	1	1
5.1-Channel Audio Output	1	1	—	—
Audio Output	1	1	1	1
Coaxial Digital Output	1	1	1	1
Optical Digital Output	1	1	—	—
CONTROL TERMINALS				
Pioneer System Remote	• (in/out)	—	—	—

1) CD-R/CD-RW DVD-R/DVD-RW playback: Disc may not be played back because of following reasons: recording characteristics of recorder, characteristics of disc, scratches and dust on disc, dust and condensation on pickup lens. CD-R/CD-RW Playback: CD-R/CD-RW discs for Audio, recorded in CD Audio, VideoCD or MP3/WMA audio formatting can be played back. Unfinalised discs cannot be played back. DVD-R/DVD-RW Playback: Unfinalised discs cannot be played back. 2) Official DivX® Certified Product. Plays DivX® 5, DivX®4, DivX®3 and DivX® VOD video content (in compliance with DivX® Certified technical requirements). 3) JPEG file compatibility: This player is compatible with FUJICOLOR CD and KODAK Picture CD formats, as well as CD-R/CD-RW/CD-ROMs containing JPEG files. 4) Compatible with MPEG1 Audio Layer3 format with a sampling rate of 32, 44.1 or 48 kHz. Recording format should be in accordance with ISO9660 Level 1 or Level 2 CD-ROM file system. Note that if the file structure is very complex, you may not be able to read/play all files on the disc. 5) WMA content can be encoded by using Windows Media® Player version 8 (or less), or Windows Media® Player for Windows® XP. Compatible with sampling rate of 32, 44.1 or 48 kHz. 6) Other than DVD-audio and SACD. 7) "A-B Repeat" is available for DVD, CD Audio, VideoCD, SVCD. Not available for WMA/MP3. "All Repeat" is unavailable for DivX®. 8) "Programme Play" is unavailable for 'VR Mode (DVD Video Recording Mode)' format DVD-RW discs, VideoCD/SVCD in PBC mode, DivX®, WMA/MP3 discs, or while a DVD disc menu is being displayed. 9) Except VCD, SVCD, DivX® Video and 'VR Mode (DVD Video Recording Mode)' format DVD-RW reverse. 10) Not available for DivX®, WMA/MP3 files. 11) DV-585A only. 12) Search functions are not available with VideoCD/SVCD in PBC mode, or with WMA/MP3 discs. "Time Search" is available for DivX®. "Time Search" is unavailable for DVD-Audio, or SACD.

For detailed information on the playback conditions, please refer to the owners manual.

DVD PLAYERS — BACK PANELS (2)

Rear Panel DV-380-S / DV-380-K / DV-2850-S

DIGITAL HOME CINEMA SYSTEMS — BACK PANELS

Rear Panel RCS-77H (DVD Recorder unit)

Rear Panel RCS-55
(Receiver Subwoofer)

Rear Panel RCS-77H
(Receiver Subwoofer)

Rear Panel RCS-55 (DVD Recorder unit)

Rear Panel DCS-535

Rear Panel DCS-340 / DCS-333

Rear Panel DCS-240 / DCS-232

DVD Players Specifications	DV-989AVi-S	DV-585A-S DV-585A-K	DV-380-S DV-380-K	DV-2850-S
VIDEO CHARACTERISTICS				
Horizontal Resolution (Lines) (DVD)	Over 500	Over 500	Over 500	Over 500
DIGITAL AUDIO CHARACTERISTICS				
Total Harmonic Distortion	0.0009 %	0.0023 %	0.0023 %	0.0023 %
Frequency Response				
48 kHz	4 — 22,000 Hz	4 — 22,000 Hz	4 — 22,000 Hz	4 — 22,000 Hz
96 kHz	4 — 44,000 Hz	4 — 44,000 Hz	4 — 44,000 Hz	4 — 44,000 Hz
192 kHz	4 — 88,000 Hz	4 — 88,000 Hz		
Signal-to-Noise Ratio	118 dB	115 dB	115 dB	115 dB
Dynamic Range	108 dB	101 dB	101 dB	101 dB
MISCELLANEOUS				
Power Requirements	220 — 240 V 50/60 Hz	220 — 240 V 50/60 Hz	220 — 240 V 50/60 Hz	220 — 240 V 50/60 Hz
Power Consumption	20 W	8 W	7 W	7 W
Power Consumption (Standby Mode)	—	0.85 W	0.75 W	0.75 W
Dimensions (W x H x D)	420 x 119 x 337.5 mm	420 x 49.5 x 214.9 mm	420 x 49.5 x 213.6 mm	420 x 49.5 x 224.2 mm
Weight	9.0 kg	1.7 kg	1.7 kg	1.7 kg

A/V Amplifier & Receivers Features — 1	VSA-AX10Ai-S	VSX-AX4AVi-S	VSX-AX2AV-S	VSX-1015-S VSX-1015-K	VSX-915-S VSX-915-K	VSX-515-S VSX-515-K	VSX-415-S VSX-415-K
POWER OUTPUT							
Stereo (DIN)	170 W + 170 W (1 kHz, 1 % THD, 6 Ω)	150 W + 150 W (1 kHz, 1 % THD, 8 Ω) 180 W + 180 W (1 kHz, 1 % THD, 6 Ω)	140 W + 140 W (1 kHz, 1 % THD, 8 Ω) 170 W + 170 W (1 kHz, 1 % THD, 6 Ω)	120 W + 120 W (1 kHz, 1 % THD, 8 Ω) 150 W + 150 W (1 kHz, 1 % THD, 6 Ω)	100 W + 100 W (1 kHz, 1 % THD, 8 Ω)	100 W + 100 W (1 kHz, 1 % THD, 8 Ω)	80 W + 80 W (1 kHz, 1 % THD, 8 Ω)
Surround (DIN)							
Front	170 W + 170 W (1 kHz, 1 % THD, 6 Ω)	150 W + 150 W (1 kHz, 1 % THD, 8 Ω) 180 W + 180 W (1 kHz, 1 % THD, 6 Ω)	140 W + 140 W (1 kHz, 1 % THD, 8 Ω) 170 W + 170 W (1 kHz, 1 % THD, 6 Ω)	120 W + 120 W (1 kHz, 1 % THD, 8 Ω) 150 W + 150 W (1 kHz, 1 % THD, 6 Ω)	100 W (1 kHz, 1 % THD, 8 Ω)	100 W (1 kHz, 1 % THD, 8 Ω)	100 W (1 kHz, 10 % THD, 8 Ω)
Centre	170 W (1 kHz, 1 % THD, 6 Ω)	150 W (1 kHz, 1 % THD, 8 Ω) 180 W (1 kHz, 1 % THD, 6 Ω)	140 W (1 kHz, 1 % THD, 8 Ω) 170 W (1 kHz, 1 % THD, 6 Ω)	120 W (1 kHz, 1 % THD, 8 Ω) 150 W (1 kHz, 1 % THD, 6 Ω)	100 W (1 kHz, 1 % THD, 8 Ω)	100 W (1 kHz, 1 % THD, 8 Ω)	100 W (1 kHz, 10 % THD, 8 Ω)
Rear (Surround)	170 W + 170 W (1 kHz, 1 % THD, 6 Ω)	150 W + 150 W (1 kHz, 1 % THD, 8 Ω) 180 W + 180 W (1 kHz, 1 % THD, 6 Ω)	140 W + 140 W (1 kHz, 1 % THD, 8 Ω) 170 W + 170 W (1 kHz, 1 % THD, 6 Ω)	120 W + 120 W (1 kHz, 1 % THD, 8 Ω) 150 W + 150 W (1 kHz, 1 % THD, 6 Ω)	100 W (1 kHz, 1 % THD, 8 Ω)	100 W (1 kHz, 1 % THD, 8 Ω)	100 W (1 kHz, 10 % THD, 8 Ω)
Surround Back	170 W + 170 W (1 kHz, 1 % THD, 6 Ω)	150 W + 150 W (1 kHz, 1 % THD, 8 Ω) 180 W + 180 W (1 kHz, 1 % THD, 6 Ω)	140 W + 140 W (1 kHz, 1 % THD, 8 Ω) 170 W + 170 W (1 kHz, 1 % THD, 6 Ω)	120 W + 120 W (1 kHz, 1 % THD, 8 Ω) 150 W + 150 W (1 kHz, 1 % THD, 6 Ω)	100 W (1 kHz, 1 % THD, 8 Ω)	100 W (1 kHz, 1 % THD, 8 Ω)	—
RMS Power (1 kHz, 10 % THD, 8 Ω per channel)	—	—	—	—	—	—	100W/ch*
Distortion	—	0.05 % (130 W + 130 W, 20 — 20 kHz, 8 Ω)	0.05 % (120 W + 120 W, 20 — 20 kHz, 8 Ω)	—	—	—	—
SURROUND FORMAT							
Dolby Digital	•	•	•	•	•	•	•
Dolby Digital EX/THX Surround EX	•	•	•	•	• (Dolby Digital EX only)	• (Dolby Digital EX only)	—
DTS	•	•	•	•	•	•	—
DTS ES Discrete 6.1	•	•	•	•	•	•	—
DTS ES Matrix 6.1	•	•	•	•	•	•	—
DTS Neo:6 Cinema	•	•	•	•	•	•	—
DTS Neo:6 Music	•	•	•	•	•	•	—
DTS 96/24	•	•	•	•	•	•	—
Dolby Pro Logic	•	•	•	•	•	•	•
Dolby Pro Logic II Movie	•	•	•	•	•	•	•
Dolby Pro Logic II Music	•	•	•	•	•	•	•
Dolby Pro Logic II Game	—	•	•	•	•	•	—
Dolby Pro Logic IIx	•	•	•	•	•	•	—
Dolby Pro Logic IIx Movie	•	•	•	•	•	•	—
Dolby Pro Logic IIx Music	•	•	•	•	•	•	—
Dolby Pro Logic IIx Game	—	•	•	•	•	•	—
Windows Media Audio 9 Professional	•	•	•	•	•	•	—
THX Cinema	•	•	•	•	—	—	—
THX Ultra2 Cinema	•	—	—	—	—	—	—
THX Select2 Cinema	—	•	•	•	—	—	—
THX Games Mode	—	•	•	•	—	—	—
THX MusicMode	—	•	•	•	—	—	—
PIONEER ORIGINAL SURROUND MODE							
Advanced Cinema							
ACTION	•	•	•	—	—	—	—
MUSICAL	•	•	•	—	—	—	—
DRAMA	•	•	•	—	—	—	—
SCI-FI	•	•	•	—	—	—	—
MONOFILM	•	•	•	—	—	—	—
5-D/7-D THEATER	•	•	•	—	—	—	—
Advanced Concert							
CLASSICAL	•	•	•	—	—	—	—
CHAMBER	•	•	•	—	—	—	—
JAZZ	•	•	•	—	—	—	—
ROCK	•	•	•	—	—	—	—
DANCE	•	•	•	—	—	—	—
5/6/7-CH STEREO	• (7-channel)	• (7-channel)	• (7-channel)	• (7-channel)	• (7-channel)	• (6-channel)	• (5-channel)
Advanced MUSIC	—	—	—	•	•	•	•
Advanced MOVIE	—	—	—	•	•	•	•
Expanded Theater	—	—	—	•	•	•	•
Other Modes							
Virtual Surround back	•	•	•	•	•	•	—
Virtual Surround	—	—	—	—	•	•	•
Phones Surround	•	•	•	•	•	•	•
Real Phantom	•	—	—	—	—	—	—
Advanced Game	—	—	—	•	•	•	•
TV Surround	—	—	—	•	•	•	•
Sports	—	—	—	•	•	•	•
CONSTRUCTION							
3-D Space Frame Construction	•	•	•	•	—	—	—
Isolated Chamber Construction	•	•	•	•	—	—	—
Copper-plated Chassis	•	•	•	—	—	—	—
Direct Construction	• (Advanced)	• (Advanced)	• (Advanced)	• (Advanced)	•	•	•
Double-layered Chassis	•	—	—	—	—	—	—
Transformer Stabiliser	•	—	—	—	—	—	—
TAOC Stable Cast Iron Base	•	—	—	—	—	—	—
AMPLIFIER DESIGN							
Accurate Imaging System	•	•	•	•	•	•	•
Large Electrolytic Capacitors	•	•	•	•	•	—	—
Thick Bus-Bar	• (OFC Power plate)	•	•	•	—	—	—
Power Amplifier Design	Discrete (A.D.E. MOSFET)	Discrete (A.D.Energy)	Discrete (A.D.Energy)	Discrete (A.D.E. MOSFET)	Hybrid	Hybrid	Hybrid
Symmetrical Power Train Design	•	•	•	•	—	—	—
Pioneer Hybrid Amplification	—	—	—	—	•	•	•
Front L & R Bi-Amplifier Function	—	•	•	•	•	—	—

* RMS Power figures shown only for models which cannot support DIN Surround.
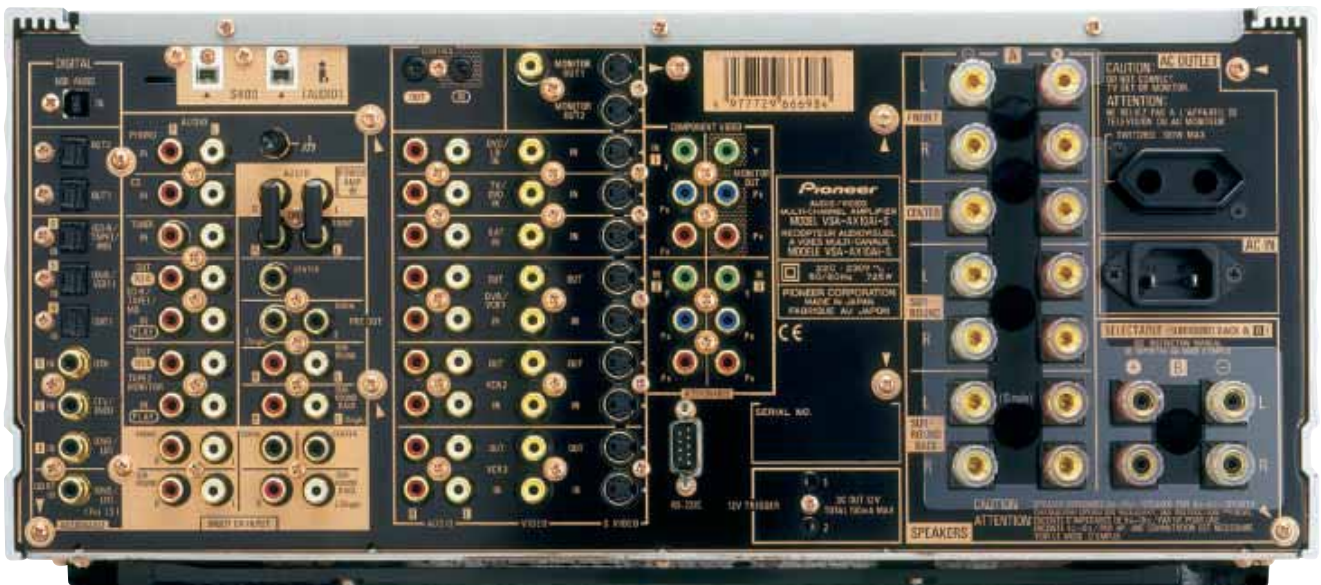
A/V Amplifier & Receivers Features — 2	VSA-AX10Ai-S	VSX-AX4AVi-S	VSX-AX2AV-S	VSX-1015-S VSX-1015-K	VSX-915-S VSX-915-K	VSX-515-S VSX-515-K	VSX-415-S VSX-415-K
MULTI-CHANNEL ACOUSTIC CALIBRATION SYSTEM (MCACC), PHASE CONTROL & QUICK SET-UP							
MCACC	• (with MIC)	• (with MIC)	• (with MIC)	• (with MIC)	• (with MIC)	• (with MIC)	—
Auto Surround Set-up Trim	•	•	•	•	•	•	—
Auto Surround Set-up Delay	•	•	•	•	•	•	—
Speaker System Detection	•	•	•	•	•	•	—
Acoustic Calibration EQ	9-band (Auto/Manual)	9-band (Auto/Manual)	9-band (Auto/Manual)	5-band (Auto/Manual)	5-band (Auto/Manual)	5-band (Auto/Manual)	—
Advanced MCACC							
3-D Calibration Method	•	•	•	—	—	—	—
Room Acoustic Character display	•	• (also calibrated result)	• (also calibrated result)	—	—	—	—
MCACC memory	4	6 (Advanced)	6 (Advanced)	4	—	—	—
Standing wave control	—	•	•	—	—	—	—
Compensation Adjustment (X-curve)	•	•	•	—	—	—	—
Original calibration signal for Fine speaker distance setting							
Reference Calibration Disc	•	—	—	—	—	—	—
Built-in calibration signal generator	—	•	•	—	—	—	—
Phase control	—	•	•	—	—	—	—
Quick Setup							
Room Size Set-Up	—	—	—	—	•	•	•
Seat Position Set-Up	—	—	—	—	•	•	•
DIGITAL PROCESSING FEATURES							
DSP							
DSP design	Ultra Digital Core Engine	Advanced Twin Digital Core Engine	Advanced Twin Digital Core Engine	Advanced Digital Core Engine	Advanced Digital Core Engine	Advanced Digital Core Engine	Digital Core Engine
DSP (Digital Signal Processor)	SHARC Melody Ultra 32-bit Floating-point x 2, with Motorola 180MIPS 48-bit digital processor	SHARC EX 32-bit Floating-point with Motorola 180MIPS 48-bit digital processor	SHARC EX 32-bit Floating-point with Motorola 180MIPS 48-bit digital processor	Motorola 180MIPS 48-bit digital processor	Motorola 180MIPS 48-bit digital processor	Motorola 180MIPS 48-bit digital processor	Motorola 150MIPS 48-bit digital processor
D/A Converter	192 kHz/24-bit (multi-bit type)	192 kHz/24-bit (DS type)	192 kHz/24-bit (DS type)	192 kHz/24-bit (DS type)	192 kHz/24-bit (1-bit type)	192 kHz/24-bit (1-bit type)	192 kHz/24-bit (1-bit type)
A/D Converter	192 kHz/24-bit (all channel)	96 kHz/24-bit (2-channel)	96 kHz/24-bit (2-channel)	96 kHz/24-bit (2-channel)	96 kHz/24-bit (2-channel)	96 kHz/24-bit (2-channel)	96 kHz/24-bit (2-channel)
Flexible A/D Converter System	•	—	—	—	—	—	—
Digital Processing							
Audio Scaler (Hi-bit/Hi-sampling)	•	•	•	—	—	—	—
DNR (Digital Noise Reduction)	•	•	•	•	—	—	—
Dialogue Enhancement	—	•	•	•	•	•	•
Midnight Listening Mode	•	•	•	•	•	•	•
Stream Direct	•	• (PURE)	• (PURE)	—	—	—	—
Auto Surround	—	•	•	•	•	•	—
DSD Direct	—	•	•	—	—	—	—
AUDIO FEATURES							
AIR Studios Sound Tuning	•	•	•	—	—	—	—
THX	• (Ultra2)	• (Select2)	• (Select2)	• (Select2)	—	—	—
Source Direct	—	—	—	•	•	•	—
Precision Gain Management (PGM) Volume Control	•	—	—	—	—	—	—
Analogue Downmixing for Centre Channel	•	•	—	—	—	—	—
Bass/Treble Tone Controls	•	•	•	•	•	•	•
Loudness	•	•	•	•	•	•	•
VIDEO FEATURES							
HDMI	—	• (Ver 1.1)	• (Ver 1.1)	—	—	—	—
Video Signal Selector	•	•	•	—	—	—	—
Universal Video Converter	•	• (DIGITAL)	• (DIGITAL)	—	—	—	—
Digital Video Enhancer	—	•	•	—	—	—	—
CONVENIENCES							
Pioneer Intelligence User Interface (IUI)	•	•	•	•	—	—	—
On-Screen Display (GUI)	• (Including Component)	• (Including HDMI)	• (Including HDMI)	• (Including Component)	—	—	—
iPod® control OSD	•	•	•	•	—	—	—
Remote Control	LCD Touch Panel, Preset & Learning	LCD, Preset & Learning	LCD, Preset & Learning	LCD, Preset & Learning	LCD, Preset & Learning	—	—
Multi-Operation System (Macro)	•	• (with preset Pioneer system control)	• (with preset Pioneer system control)	—	—	—	—
Remote Control Illumination	LCD Backlight	—	—	—	—	—	—
DVD Control	•	•	•	•	•	•	•
Satellite Tuner Control	•	•	•	•	•	—	—
MCD Control	•	•	•	•	•	—	—
DTV Control	•	•	•	•	•	—	—
Rechargeable	• (charger station incl.)	—	—	—	—	—	—
Function Rename	•	•	•	—	—	—	—
FL Dimmer	4 steps	4 steps	4 steps	4 steps	4 steps	4 steps	4 steps
Sound Delay	6 frame/0.1 frame step	6 frame/0.1 frame step	6 frame/0.1 frame step	•	—	—	—
MR & Source	—	• (Room2/Rec sel)	• (Room2/Rec sel)	•	—	—	—
Sleep Timer	—	•	•	•	•	•	•
TUNER							
RDS (Radio Data System)	—	•	•	•	•	•	•
EON Link	—	•	•	•	•	•	•
Random Preset Stations	—	30	30	30	30	30	30
TERMINALS							
HDMI Input/Output	—	2 (assignable or independent)/1	2 (assignable or independent)/1	—	—	—	—
i.LINK (Advanced Resolution Digital Audio Interface)	2	2	—	—	—	—	—
iPod® Audio & Control	•	•	•	—	—	—	—
USB	• (Multi-channel)	• (2-channel)	—	—	—	—	—
Custom Installer Ready (RS-232C)	•	•	•	—	—	—	—
12 V Trigger Terminal	2	2 (independent room)	2 (independent room)	—	—	—	—
Multi-Channel Input	7.1-ch	7.1-ch	7.1-ch	5.1-ch	5.1-ch (DVD)	5.1-ch (DVD)	5.1-ch (DVD)
RF Input for Dolby Digital (Demodulator)	•	—	—	—	—	—	—
IR In/Out	—	1/1	1/1	—	—	—	—
Digital Input	7 (assignable)	7 (assignable)	7 (assignable)	6 (assignable)	5 (assignable)	3 (assignable)	3 (assignable)
Coaxial	3	2	2	2	2	2	2
Optical	4 (includes Front in)	5 (includes Front in)	5 (includes Front in)	4 (includes Front In)	3 (includes Front In)	1	1
Digital Output (Optical)	2	2 (Rec Out/Room3)	1 (Rec Out/Room3)	1	1	—	—
Audio (TUNER Included)/Video Inputs	5A/7AV	3A/7AV	3A/7AV	3A/5AV	4A/4AV	3A/3AV	3A/3AV
Audio/Video Output	2A/3AV + 2V	1A/2AV + 1V	1A/2AV + 1V	1A/1AV + 1V	1A/1AV + 1V	1A/1AV + 1V	1A/1AV + 1V
Euro-SCART terminal	—	—	—	—	—	—	—
RGB Input/Output	—	—	—	—	—	—	—
Composite Input/Output	7/5	7/4 (includes Front In)	7/4 (includes Front In)	5/2 (includes Front In)	4/2 (includes Front In)	3/2	3/2
Phono Input	•	•	•	•	•	—	—
S-Video Input/Output	7/5 (includes Front in)	5/2 (includes Front In, Assignable)	5/2 (includes Front In, Assignable)	5/2 (includes Front In)	4/2 (includes Front In)	—	—
Component Input/Output	3/1 (assignable)	3/1 (assignable)	3/1 (assignable)	3/1 (assignable)	3/1 (assignable)	—	—
Pre-amp Output	• All (7.1-ch)	• All (7.1-ch)	• All (7.1-ch)	• All (7.1-ch)	• All (7.1-ch)	• (SW)	• (SW)
Power Amp Input	FL/FR	—	—	—	—	—	—
A/V Input on Front	•	•	•	•	•	—	—
SR (System Remote) Terminal	• (In/Out)	• (In/Out)	• (In/Out)	• (In/Out)	• (In/Out)	—	—
SR+ (for PDP connection)	—	•	•	•	•	—	—
Speaker A/B	Versatile Speaker Configuration	Versatile Speaker Configuration	Versatile Speaker Configuration	Versatile Speaker Configuration	Versatile Speaker Configuration	A only	A only
Bi-Amplifier	•	•	•	•	•	—	—
Speaker Terminals	All large high-quality gold-plated solid type	All Large	All Large	All Large	All Large	All Large	All Large

* RMS Power figures shown only for models which cannot support DIN Surround.

A/V Amplifier & Receivers Specifications	VSA-AX10Ai-S	VSX-AX4AVi-S	VSX-AX2AV-S	VSX-1015-S VSX-1015-K	VSX-915-S VSX-915-K	VSX-515-S VSX-515-K	VSX-415-S VSX-415-K
AMPLIFIER SECTION							
Stereo (DIN)	170 W + 170 W (1 kHz, 1 % THD, 6 Ω)	150 W + 150 W (1 kHz, 1 % THD, 8 Ω) 180 W + 180 W (1 kHz, 1 % THD, 6 Ω)	140 W + 140 W (1 kHz, 1 % THD, 8 Ω) 170 W + 170 W (1 kHz, 1 % THD, 6 Ω)	120 W + 120 W (1 kHz, 1 % THD, 8 Ω) 150 W + 150 W (1 kHz, 1 % THD, 6 Ω)	100 W + 100 W (1 kHz, 1 % THD, 8 Ω)	100 W + 100 W (1 kHz, 1 % THD, 8 Ω)	80 W + 80 W (1 kHz, 1 % THD, 8 Ω)
Surround (DIN)							
Front	170 W + 170 W (1 kHz, 1 % THD, 6 Ω)	150 W + 150 W (1 kHz, 1 % THD, 8 Ω) 180 W + 180 W (1 kHz, 1 % THD, 6 Ω)	140 W + 140 W (1 kHz, 1 % THD, 8 Ω) 170 W + 170 W (1 kHz, 1 % THD, 6 Ω)	120 W + 120 W (1 kHz, 1 % THD, 8 Ω) 150 W + 150 W (1 kHz, 1 % THD, 6 Ω)	100 W (1 kHz, 1 % THD, 8 Ω)	100 W (1 kHz, 1 % THD, 8 Ω)	100 W (1 kHz, 10 % THD, 8 Ω)
Centre	170 W (1 kHz, 1 % THD, 6 Ω)	150 W (1 kHz, 1 % THD, 8 Ω) 180 W (1 kHz, 1 % THD, 6 Ω)	140 W (1 kHz, 1 % THD, 8 Ω) 170 W (1 kHz, 1 % THD, 6 Ω)	120 W (1 kHz, 1 % THD, 8 Ω) 150 W (1 kHz, 1 % THD, 6 Ω)	100 W (1 kHz, 1 % THD, 8 Ω)	100 W (1 kHz, 1 % THD, 8 Ω)	100 W (1 kHz, 10 % THD, 8 Ω)
Rear (Surround)	170 W + 170 W (1 kHz, 1 % THD, 6 Ω)	150 W + 150 W (1 kHz, 1 % THD, 8 Ω) 180 W + 180 W (1 kHz, 1 % THD, 6 Ω)	140 W + 140 W (1 kHz, 1 % THD, 8 Ω) 170 W + 170 W (1 kHz, 1 % THD, 6 Ω)	120 W + 120 W (1 kHz, 1 % THD, 8 Ω) 150 W + 150 W (1 kHz, 1 % THD, 6 Ω)	100 W (1 kHz, 1 % THD, 8 Ω)	100 W (1 kHz, 1 % THD, 8 Ω)	100 W (1 kHz, 10 % THD, 8 Ω)
Surround Back	170 W + 170 W (1 kHz, 1 % THD, 6 Ω)	150 W + 150 W (1 kHz, 1 % THD, 8 Ω) 180 W + 180 W (1 kHz, 1 % THD, 6 Ω)	140 W + 140 W (1 kHz, 1 % THD, 8 Ω) 170 W + 170 W (1 kHz, 1 % THD, 6 Ω)	120 W + 120 W (1 kHz, 1 % THD, 8 Ω) 150 W + 150 W (1 kHz, 1 % THD, 6 Ω)	100 W (1 kHz, 1 % THD, 8 Ω)	100 W (1 kHz, 1 % THD, 8 Ω)	—
RMS Power (1 kHz, 10 % THD, 8 Ω per channel)	—	—	—	—	—	—	100W/ch*
Input (Sensitivity/Impedance)							
PHONO (MM)	4.7 mV/47 kΩ	4.7 mV/47 kΩ	4.7 mV/47 kΩ	—	—	—	—
Line (DVD, CD, etc.)	382 mV/47 kΩ	335 mV/47 kΩ	335 mV/47 kΩ	335 mV/47 kΩ	200 mV/47 kΩ	200 mV/47 kΩ	200 mV/47 kΩ
Frequency Response							
PHONO (MM)	20 — 20,000 Hz +/- 0.3 dB	20 — 20,000 Hz +/- 0.3 dB	20 — 20,000 Hz +/- 0.3 dB	—	—	—	—
Line (DVD, CD, etc.)	5 — 100,000 Hz +0 dB, -3 dB	5 — 100,000 Hz +0 dB, -3 dB	5 — 100,000 Hz +0 dB, -3 dB	5 — 100,000 Hz, +0 dB, -3 dB	5 — 100,000 Hz, +0 dB, -3 dB	5 — 100,000 Hz, +0 dB, -3 dB	5 — 100,000 Hz, +0 dB, -3 dB
Signal-to-Noise Ratio (DIN; continuous rated power output/50 mW)							
PHONO (MM)	70/68 dB	70/65 dB	70/65 dB	—	—	—	—
Line (DVD, CD, etc.)	93/73 dB	92/65 dB	92/65 dB	92/65 dB	88/64 dB	88/64 dB	88/64 dB
FM TUNER SECTION							
Usable Sensitivity (Mono)	—	15.2 dBf, IHF (1.6 μV/75 Ω)	15.2 dBf, IHF (1.6 μV/75 Ω)	15.2 dBf, IHF (1.6 μV/75 Ω)	13.2 dBf, IHF (1.3 μV/75 Ω)	13.2 dBf, IHF (1.3 μV/75 Ω)	13.2 dBf, IHF (1.3 μV/75 Ω)
Sensitivity (DIN)							
Mono (26 dB S/N, 75 Ω)	—	1.1 μV	1.1 μV	1.1 μV	1.1 μV	1.1 μV	1.1 μV
Stereo (46 dB S/N, 75 Ω)	—	50 μV	50 μV	50 μV	50 μV	50 μV	50 μV
Signal-to-Noise Ratio							
Mono (DIN)	—	62 dB	62 dB	62 dB	62 dB	62 dB	62 dB
Stereo (DIN)	—	58 dB	58 dB	58 dB	58 dB	58 dB	58 dB
Stereo Separation (1 kHz)	—	40 dB	40 dB	40 dB	40 dB	40 dB	40 dB
VIDEO SECTION							
Input (Sensitivity/Impedance)	1 V p-p/75 Ω	1 V p-p/75 Ω	1 V p-p/75 Ω	1 V p-p/75 Ω	1 V p-p/75 Ω	1 V p-p/75 Ω	1 V p-p/75 Ω
COMPONENT VIDEO							
Frequency Response (720p compatible)	5 Hz — 100 MHz	5 Hz — 100 MHz	5 Hz — 100 MHz	5 Hz — 100 MHz	5 Hz — 40 MHz	—	—
MISCELLANEOUS							
Power Requirements	AC 220 — 230 V 50/60 Hz	AC 220 — 230 V 50/60 Hz	AC 220 — 230 V 50/60 Hz	AC 220 — 230 V 50/60 Hz	AC 220 — 230 V 50/60 Hz	AC 220 — 230 V 50/60 Hz	AC 220 — 230 V 50/60 Hz
Power Consumption	725 W	460 W	460 W	430 W	360 W	300 W	220 W
Power Consumption in standby mode	0.65 W	0.52 W	0.52 W	0.52 W	0.5 W	0.5 W	0.5 W
Dimensions (W x H x D)	440 x 210 x 476 mm	420 x 187 x 462 mm	420 x 187 x 462 mm	420 x 173 x 465 mm	420 x 158 x 402.5 mm	420 x 158 x 402.5 mm	420 x 158 x 394.5 mm
Weight	34 kg	16.1 kg	16.0 kg	15.4 kg	9.7 kg	9.5 kg	8.7 kg

* RMS Power figures shown only for models which cannot support DIN Surround.

A/V AMPLIFIER & RECEIVERS — BACK PANELS (1)

Rear Panel VSA-AX10Ai-S

A/V AMPLIFIER & RECEIVERS — BACK PANELS (2)

Rear Panel VSX-AX4AVi-S

Rear Panel VSX-AX2AV-S

Rear Panel VSX-1015-S / VSX-1015-K

Rear Panel VSX-915-S / VSX-915-K

Rear Panel VSX-515-S / VSX-515-K

Rear Panel VSX-415-S / VSX-415-K

Home Cinema Speakers — Specifications 1

Specifications — 1	S-V1EX-QL / S-V1EX-W	S-V2EX-QL / S-V2EX-W	S-V810A	S-V80A	S-V520-QL / S-V520-W
SYSTEM					
Centre speaker	bookshelf or floor-standing	bookshelf or floor-standing	bookshelf or floor-standing	bookshelf or floor-standing	compact
Front speakers	floor-standing	bookshelf	floor-standing	bookshelf	floor-standing
Rear speaker	bookshelf	bookshelf	bookshelf	bookshelf	satellite
Magnetically shielded for video use	•	•	•	•	•
Front	18 cm cone woofer (x 2) coaxial units: 14 cm cone type, 3.5 cm Beryllium	18 cm cone woofer coaxial units: 14 cm cone type, 3.5 cm Beryllium	13 cm cone woofer (x 2) coaxial units: 13 cm cone medium, 2.5 cm dome tweeter super tweeter: Riffel type	coaxial units: 13 cm cone woofer, 2.5 cm dome tweeter	14 cm cone woofer (x 2), 2.5 cm dome tweeter
Centre	18 cm cone woofer (x 2) coaxial units: 14 cm cone type, 3.5 cm Beryllium	18 cm cone woofer (x 2) coaxial units: 14 cm cone type, 3.5 cm Beryllium	13 cm cone woofer (x 2) coaxial units: 13 cm cone medium, 2.5 cm dome tweeter	13 cm cone woofer (x 2) coaxial units: 13 cm cone medium, 2.5 cm dome tweeter	10 cm cone woofer (x 2), 2.5 cm dome tweeter
Rear	18 cm cone woofer coaxial units: 14 cm cone type, 3.5 cm Beryllium	18 cm cone type coaxial units: 14 cm cone type, 3.5 cm Beryllium	coaxial units: 13 cm cone woofer, 2.5 cm dome tweeter	coaxial units: 13 cm cone woofer, 2.5 cm dome tweeter	10 cm cone woofer, 2.5 cm dome tweeter
Subwoofer Module			30 cm cone woofer	30 cm cone woofer	—
Enclosure	—	—	Rear passive radiator	Rear passive radiator	—
Built-in Amplifier	—	—	•	•	—
Stereo (Screw Terminal)	—	—	•	•	—
Mono (Pin Jack)	—	—	•	•	—
Power Consumption	—	—	56 W	56 W	—
Power Requirements	—	—	AC 220 — 230 V, 50/60 Hz	AC 220 — 230 V, 50/60 Hz	—
Input Sensitivity/Impedance (100 Hz)					
Speaker level	—	—	1.6 V + 1.6 V/15 kΩ	1.6 V + 1.6 V/15 kΩ	—
Line level (RCA Jack)	—	—	160 mV/50 kΩ	160 mV/50 kΩ	—
Impedance	6 Ω	6 Ω	6 Ω	6 Ω	
Frequency Range	28 — 100,000 Hz (front) 34 — 100,000 Hz (rear) 34 — 100,000 Hz (centre)	34 — 100,000 Hz (front) 34 — 100,000 Hz (rear) 34 — 100,000 Hz (centre)	35 — 100,000 Hz (front) 50 — 50,000 Hz (rear) 45 — 50,000 Hz (centre) 23 — 1,000 Hz (subw, bypass)	50 — 50,000 Hz (front) 50 — 50,000 Hz (rear) 45 — 50,000 Hz (centre) 23 — 1,000 Hz (subw, bypass)	40 — 20,000 Hz (front) 80 — 20,000 Hz (rear) 70 — 20,000 Hz (centre)
Sensitivity (2.83 V/1 m)	88.5 dB (front, centre) 85.5 dB (rear)	85.5 dB (front, rear) 88.5 dB (centre)	89 dB (front, centre) 88 dB (rear)	88 dB (front, rear) 89 dB (centre)	87 dB (front) 84 dB (rear) 86 dB (centre)
Maximum Power	200 W	200 W	130 W (front, rear, centre) 250 W RMS (subw)	130 W (front, rear, centre) 250 W RMS (subw)	130 W (front, rear, centre)
DIMENSIONS (W x H x D)					
Front	422 x 1296 x 622 mm (with base)	291 x 565 x 427 mm	250 x 1190 x 300 mm (with base)	190 x 350 x 290 mm	195 x 1032 x 289 mm (with base)
Rear	291 x 565 x 427 mm	291 x 565 x 427 mm	190 x 350 x 290 mm	190 x 350 x 290 mm	130 x 153 x 153 mm
Centre	820 x 291 x 427 mm (without base) 820 x 341 x 427 mm (with base)	820 x 291 x 427 mm (without base) 820 x 341 x 427 mm (with base)	560 x 190 x 300 mm (without base) 560 x 215 x 300 mm (with base)	560 x 190 x 300 mm (without base) 560 x 215 x 300 mm (with base)	381 x 130 x 153 mm (without base) 381 x 145 x 153 mm (with base)
Subwoofer	—	—	430 x 480 x 430 mm	430 x 480 x 430 mm	—
WEIGHT					
Front	62 kg	29 kg	25 kg	7.3 kg	13.4 kg
Rear	29 kg	29 kg	7.3 kg	7.3 kg	1.9 kg
Centre	38 kg	38 kg	15.6 kg	15.6 kg	3.4 kg
Subwoofer	—	—	34.5 kg	34.5 kg	—

Home Cinema Speakers — Specifications 2

Specifications — 2	S-V52-QL / S-V52-W	S-V325-QL / S-V325-W	S-V320-QL / S-V320-W	S-V240-QL / S-V240-W	S-V24-QL / S-V24-W	S-V710-III
SYSTEM						
Centre speaker	compact	compact	compact	compact	compact	compact
Front speakers	satellite	floor-standing	floor-standing	satellite	satellite	floor-standing
Rear speaker	satellite	satellite	satellite	satellite	satellite	satellite
Magnetically shielded for video use	•	•	• (except rear)	• (except rear)	• (except rear)	•
Front	10 cm cone woofer 2.5 cm dome tweeter	14 cm cone woofer (x 2) 2.5 cm dome tweeter	14 cm cone woofer (x 2) 2.5 cm dome tweeter	14 cm cone woofer 7 cm cone midrange 2.5 cm dome tweeter	8.3 cm cone type	10 cm cone woofer (x 2), 2.5 cm dome tweeter, super tweeter: Riffel type
Centre	10 cm cone woofer (x 2) 2.5 cm dome tweeter	10 cm cone woofer (x 2) 2.5 cm dome tweeter	8.3 cm cone type	8.3 cm cone type	8.3 cm cone type	7.7 cm cone woofer (x 2), 2 cm dome tweeter
Rear	10 cm cone woofer 2.5 cm dome tweeter	10 cm cone woofer 2.5 cm dome tweeter	8.3 cm cone type	8.3 cm cone type	8.3 cm cone type	7.7 cm cone woofer (x 2), 2 cm dome tweeter
Subwoofer Module	22 cm cone woofer	—	—	—	16 cm cone woofer	22 cm cone woofer
Enclosure	Front duct bass-reflex	—	—	—	Bottom duct bass-reflex	Front duct bass-reflex
Built-in Amplifier	•	—	—	—	•	•
Stereo (Screw Terminal)	•	—	—	—	•	•
Mono (Pin Jack)	•	—	—	—	•	•
Power Consumption	300 W	—	—	—	80 W	300 W
Power Requirements	AC 220 — 230 V, 50/60 Hz	—	—	—	AC 220 — 230 V, 50/60 Hz	AC 220 — 230 V, 50/60 Hz
Input Sensitivity/Impedance (100 Hz)						
Speaker level	2.0 V + 2.0 V/15 kΩ	—	—	—	—	2.0 V + 2.0 V/15 kΩ
Line level (RCA Jack)	200 mV/50 kΩ	—	—	—	180 mV/50 kΩ	200 mV/50 kΩ
Impedance	8 Ω				8 Ω	8 Ω
Frequency Range	80 — 20,000 Hz (front) 80 — 20,000 Hz (rear) 70 — 20,000 Hz (centre) 30 — 200 Hz (subw)	35 — 20,000 Hz (front) 80 — 20,000 Hz (rear) 70 — 20,000 Hz (centre)	35 — 20,000 Hz (front) 110 — 20,000 Hz (rear) 100 — 20,000 Hz (centre)	40 — 20,000 Hz (front) 110 — 20,000 Hz (rear) 100 — 20,000 Hz (centre)	110 — 20,000 Hz (front, rear) 100 — 20,000 Hz (centre) 30 — 200 Hz (subw)	40 — 100,000 Hz (front) 60 — 40,000 Hz (rear) 62 — 42,000 Hz (centre) 30 — 200 Hz (subw)
Sensitivity (2.83 V/1 m)	84 dB (front, rear) 86 dB (centre)	88 dB (front) 84 dB (rear) 86 dB (centre)	88 dB	89 dB (front) 88 dB (rear, centre)	88 dB	86 dB (front) 89 dB (rear, centre)
Maximum Power	130 W (front, rear, centre) 150 W RMS (subw)	100 W (front) 130 W (rear, centre)	100 W (front) 80 W (rear, centre)	80 W (front, rear, centre)	80 W (front, rear, centre) 85 W RMS (subw)	130 W (front, rear, centre) 150 W RMS (subw)
DIMENSIONS (W x H x D)						
Front	130 x 203 x 153 mm	183 x 1030 x 288 mm (with base)	183 x 1030 x 288 mm (with base)	183 x 909 x 233 mm	110 x 110 x 82 mm	270 x 1100 x 270 mm (with base) 156 x 1065 x 150 mm (without base)
Rear	130 x 203 x 153 mm	130 x 203 x 153 mm	110 x 110 x 82 mm	110 x 110 x 82 mm	110 x 110 x 82 mm	300 x 150 x 70 mm
Centre	381 x 130 x 153 mm (without base) 381 x 145 x 153 mm (with base)	381 x 130 x 153 mm (without base) 381 x 145 x 153 mm (with base)	220 x 110 x 82 mm	220 x 110 x 82 mm	220 x 110 x 82 mm	150 x 300 x 70 mm
Subwoofer	280 x 480 x 495 mm	—	—	—	300 x 375 x 380 mm	280 x 480 x 495 mm
WEIGHT						
Front	1.9 kg	14.4 kg	14.4 kg	8.1 kg	0.73 kg	11.5 kg
Rear	1.9 kg	1.9 kg	0.56 kg	0.56 kg	0.56 kg	2.7 kg
Centre	3.4 kg	3.4 kg	1.0 kg	1.0 kg	1.0 kg	2.7 kg
Subwoofer	19.7 kg	—	—	—	11.5 kg	19.7 kg

Home Cinema Speakers Specifications — 3	S-V610	S-V410	S-V70-III	S-V60	S-V42	S-VLF5
SYSTEM						
Centre speaker	compact	compact	compact	compact	compact	compact
Front speakers	floor-standing	floor-standing	satellite	satellite	satellite	satellite
Rear speaker	satellite	floor-standing	satellite	satellite	satellite	satellite
Magnetically shielded for video use	•	•	•	•	•	•
Front	7.7 cm cone woofer (x 2) 2 cm dome tweeter	5.2 cm cone woofer 2.5 cm dome tweeter	7.7 cm cone woofer (x 2) 2 cm dome tweeter	7.7 cm cone woofer 2 cm dome tweeter	9 cm cone woofer	7.7 cm aluminium reversed dome woofer (x 2) 2 cm soft dome tweeter
Centre	7.7 cm cone woofer (x 2) 2 cm dome tweeter	2.5 cm dome tweeter 5.2 cm cone woofer	7.7 cm cone woofer (x 2) 2 cm dome tweeter	7.7 cm cone woofer (x 2) 2 cm dome tweeter	9 cm cone woofer	7.7 cm aluminium reversed dome woofer (x 2) 2 cm soft dome tweeter
Rear	7.7 cm cone woofer 2 cm dome tweeter	5.2 cm cone woofer 2.5 cm dome tweeter	7.7 cm cone woofer (x 2) 2 cm dome tweeter	7.7 cm cone woofer 2 cm dome tweeter	9 cm cone woofer	7.7 cm aluminium reversed dome woofer (x 2) 2 cm soft dome tweeter
Subwoofer Module	22 cm cone woofer	16 cm cone woofer	22 cm cone woofer	22 cm cone woofer	16 cm cone woofer	22 cm cone woofer
Enclosure	Front duct bass-reflex	Bottom duct bass-reflex	Front duct bass-reflex	Front duct bass-reflex	Bottom duct bass-reflex	Front duct bass-reflex
Built-in Amplifier	•	•	•	•	•	•
Stereo (Screw Terminal)	•	—	•	•	—	•
Mono (Pin Jack)	•	•	•	•	•	•
Power Consumption	210 W	80 W	300 W	210 W	80 W	300 W
Power Requirements	AC 220 — 230 V, 50/60 Hz	AC 220 — 230 V, 50/60 Hz	AC 220 — 230 V, 50/60 Hz	AC 220 — 230 V, 50/60 Hz	AC 220 — 230 V, 50/60 Hz	AC 220 — 230 V, 50/60 Hz
Input Sensitivity/Impedance (100 Hz)						
Speaker level	2.0 V + 2.0 V/15 kΩ	—	2.0 V + 2.0 V/15 kΩ	2.0 V + 2.0 V/15 kΩ	—	2.0 V + 2.0 V/15 kΩ
Line level (RCA Jack)	200 mV/50 kΩ	180 mV/50 kΩ	200 mV/50 kΩ	200 mV/50 kΩ	180 mV/50 kΩ	200 mV/50 kΩ
Impedance	8 Ω	8 Ω	8 Ω	8 Ω	8 Ω	8 Ω
Frequency Range	60 — 20,000 Hz (front) 80 — 20,000 Hz (rear) 70 — 20,000 Hz (centre) 30 — 200 Hz (subw)	150 — 20,000 Hz (front) 150 — 20,000 Hz (rear) 150 — 20,000 Hz (centre) 30 — 200 Hz (subw)	60 — 40,000 Hz (front) 60 — 40,000 Hz (rear) 62 — 42,000 Hz (centre) 30 — 200 Hz (subw)	80 — 20,000 Hz (front) 80 — 20,000 Hz (rear) 70 — 20,000 Hz (centre) 30 — 200 Hz (subw)	100 — 20,000 Hz (front) 100 — 20,000 Hz (rear) 100 — 20,000 Hz (centre) 30 — 200 Hz (subw)	60 — 40,000 Hz (front) 100 — 40,000 Hz (rear) 60 — 40,000 Hz (centre) 30 — 200 Hz (subw)
Sensitivity (2.83 V/1 m)	86 dB (front, centre) 85 dB (rear)	85 dB	89 dB	86 dB (centre) 85 dB (front, rear)	88 dB	89 dB
Maximum Power	100 W (front, rear, centre) 120 W RMS (subw)	100 W (front, rear, centre) 85 W RMS (subw)	130 W (front, rear, centre) 150 W RMS (subw)	100 W (front, rear, centre) 120 W RMS (subw)	80 W (front, rear, centre) 85 W RMS (subw)	130 W (front, rear, centre) 150 W RMS (subw)
DIMENSIONS (W x H x D)						
Front	340 x 1050 x 340 mm (with base)	210 x 1050 x 210 mm (with base)	150 x 300 x 70 mm	144 x 190 x 110 mm	100 x 160 x 75 mm	205 x 280 x 90 mm
Rear	144 x 190 x 110 mm	210 x 1050 x 210 mm (with base)	300 x 150 x 70 mm	144 x 190 x 110 mm	100 x 160 x 75 mm	205 x 280 x 90 mm
Centre	380 x 144 x 110 mm (without base) 380 x 156 x 151 mm (with base)	370 x 68.8 x 52.5 mm	150 x 300 x 70 mm	380 x 144 x 110 mm (without base) 380 x 156 x 151 mm (with base)	100 x 160 x 75 mm	280 x 165 x 90 mm
Subwoofer	250 x 480 x 475 mm	300 x 375 x 380 mm	280 x 480 x 495 mm	250 x 480 x 475 mm	300 x 375 x 380 mm	280 x 480 x 495 mm
WEIGHT						
Front	8.6 kg	3 kg	2.7 kg	2.1 kg	0.7 kg	3 kg
Rear	2.1 kg	3 kg	2.7 kg	2.1 kg	0.7 kg	3 kg
Centre	4 kg	0.9 kg	2.7 kg	4 kg	0.7 kg	3 kg
Subwoofer	14.2 kg	11.5 kg	19.7 kg	14.2 kg	11.5 kg	19.7 kg

Home Cinema Speakers Specifications — 4	S-VLF3	S-V50-G S-V50N-K	S-W250S	S-W150S S-W150S-K	S-W110S-S S-W110S-K S-W110S-QL	S-W90S
SYSTEM						
Centre speaker	compact	compact	—	—	—	—
Front speakers	satellite	satellite	—	—	—	—
Rear speaker	satellite	satellite	—	—	—	—
Magnetically shielded for video use	•	•	—	—	—	—
Front	8.7 cm cone, thin type woofer (x 2) 2 cm dome tweeter	5.2 cm cone woofer (x 2)	—	—	—	—
Centre	8.7 cm cone, thin type woofer (x 2) 2 cm dome tweeter	5.2 cm cone woofer (x 2)	—	—	—	—
Rear	8.7 cm cone, thin type woofer (x 2) 2 cm dome tweeter	5.2 cm cone woofer (x 2)	—	—	—	—
Subwoofer Module	22 cm cone woofer	16 cm cone woofer	30 cm cone woofer	22 cm cone woofer	22 cm cone woofer	16 cm cone woofer
Enclosure	Front duct bass-reflex	Bottom duct bass-reflex	Rear passive radiator	Front duct bass-reflex	Front duct bass-reflex	Bottom duct bass-reflex
Built-in Amplifier	•	•	•	•	•	•
Stereo (Screw Terminal)	•	—	•	•	•	—
Mono (Pin Jack)	•	•	•	•	•	•
Power Consumption	210 W	80 W	56 W	300 W	210 W	80 W
Power Requirements	AC 220 — 230 V, 50/60 Hz	AC 220 — 230 V, 50/60 Hz	AC 220 — 230 V, 50/60 Hz	AC 220 — 230 V, 50/60 Hz	AC 220 — 230 V, 50/60 Hz	AC 220 — 230 V, 50/60 Hz
Input Sensitivity/Impedance (100 Hz)						
Speaker level	2.0 V + 2.0 V/15 kΩ	—	1.6 V + 1.6 V/15kΩ	2.0 V + 2.0 V/15 kΩ	2.0 V + 2.0 V/15kΩ	—
Line level (RCA Jack)	200 mV/50 kΩ	180 mV/50 kΩ	160 mV/50 kΩ	200mV/50 kΩ	200 mV/50 kΩ	180 mV/50 kΩ
Impedance	8 Ω	8 Ω	—	—	—	—
Frequency Range	65 — 40,000 Hz (front) 65 — 40,000 Hz (rear) 60 — 40,000 Hz (centre) 30 — 200 Hz (subw)	90 — 20,000 Hz (front) 90 — 20,000 Hz (rear) 80 — 20,000 Hz (centre) 30 — 200 Hz (subw)	23 — 1,000 Hz (bypass)	30 — 200 Hz	30 — 200 Hz	30 — 200 Hz
Sensitivity (2.83 V/1 m)	89 dB	88 dB	—	—	—	—
Maximum Power	130 W (front, rear, centre) 120 W RMS (subw)	100 W (front, rear, centre) 85 W RMS (subw)	250 W RMS	150 W RMS	120 W RMS	85 W RMS
DIMENSIONS (W x H x D)						
Front	140 x 400 x 51 mm	130 x 200 x 59 mm	—	—	—	—
Rear	140 x 400 x 51 mm	130 x 200 x 59 mm	—	—	—	—
Centre	140 x 400 x 59 mm	240 x 94 x 97 mm	—	—	—	—
Subwoofer	250 x 480 x 475 mm	300 x 375 x 380 mm	430 x 480 x 430 mm	280 x 480 x 495 mm	250 x 480 x 475 mm	300 x 375 x 380 mm
WEIGHT						
Front	1.6 kg	0.9 kg	—	—	—	—
Rear	1.6 kg	0.9 kg	—	—	—	—
Centre	1.7 kg	0.9 kg	—	—	—	—
Subwoofer	14.2 kg	11.5 kg	34.5 kg	19.7 kg	14.2 kg	11.5 kg

Audio Speakers — Specifications — 1

Audio Speakers Specifications — 1	S-1EX-QL S-1EX-W	S-2EX-QL S-2EX-W	S-H810V	S-F80	S-H520V-QL S-H520V-W	S-H320V-QL S-H320V-W
Enclosure	Front duct bass-reflex floor-standing type	Front duct bass-reflex bookshelf type	Front duct bass-reflex floor-standing type	Front duct bass-reflex bookshelf type	Front duct bass-reflex	Front duct bass-reflex floor-standing type
Speakers						
Woofer	18 cm cone woofer (x 2)	18 cm cone woofer	13 cm cone woofer (x 2)	Coaxial unit: 13 cm cone type	14 cm cone type (x 2)	14 cm cone type (x 2)
Midrange	Coaxial unit: 14 cm cone type	Coaxial unit: 14 cm cone type	Coaxial unit: 13 cm cone type	—	—	—
Tweeter	Coaxial unit: 3.5 cm Beryllium	Coaxial unit: 3.5 cm Beryllium	Coaxial unit: 2.5 cm dome type + super tweeter: Riffel-type	Coaxial unit: 2.5 cm dome type	2.5 cm dome type	2.5 cm dome type
Impedance	6 Ω	6 Ω	6 Ω	6 Ω	8 Ω	8 Ω
Frequency Range	28 — 100,000 Hz	34 — 100,000 Hz	35 — 100,000 Hz	50 — 50,000 Hz	40 — 20,000 Hz	35 — 20,000 Hz
Sensitivity (2.83 V/1 m)	88.5 dB	85.5 dB	89 dB	88 dB	87 dB	88 dB
Operation power to get 96 dB SPL at 1 m distance (DIN)	5.6 W	11.2 W	5 W	6.3 W	8 W	6.3 W
Maximum Power	200 W	200 W	130 W	130 W	130 W	100 W
Dimensions (W x H x D)	422 x 1,296 x 622 mm (with base)	291 x 565 x 427 mm	250 x 1,190 x 300 mm (with base)	190 x 350 x 300 mm	195 x 1,032 x 289 mm (with base)	183 x 1,030 x 288 mm (with base)
Weight	62 kg	29 kg	25 kg	7.3 kg	13.4 kg	14.4 kg

Audio Speakers — Specifications — 2

Audio Speakers Specifications — 2	S-H240V-QL S-H240V-W	S-H710V	S-H610V	CS-7070	CS-5070	CS-3070
Enclosure	Front duct bass-reflex floor-standing type	Bottom duct bass-reflex floor-standing type	Bass-reflex floor-standing type	Rear duct bass-reflex bookshelf type	Rear duct bass-reflex bookshelf type	Rear duct bass-reflex bookshelf type
Speakers						
Woofer	14 cm cone type	10 cm cone type (x 2)	7.7 cm cone woofer (x 2)	25 cm cone type	20 cm cone type	20 cm cone type
Midrange	7 cm cone type	—	—	7.7 cm cone type	7.7 cm cone type	7.7 cm cone type
Tweeter	2.5 cm dome type	2.5 cm dome type + super tweeter: Riffel-type	2 cm dome type	6.6 cm cone type	6.6 cm cone type	6.6 cm cone type
Impedance	8 Ω	8 Ω	8 Ω	8 Ω	8 Ω	8 Ω
Frequency Range	40 — 20,000 Hz	40 — 100,000 Hz	60 — 20,000 Hz	35 — 20,000 Hz	40 — 20,000 Hz	45 — 20,000 Hz
Sensitivity (2.83 V/1 m)	89 dB	86 dB	86 dB	90 dB	90 dB	90 dB
Operation power to get 96 dB SPL at 1 m distance (DIN)	5 W	10 W	10 W	4 W	4 W	4 W
Maximum Power	80 W	130 W	100 W	190 W	140 W	120 W
Dimensions (W x H x D)	183 x 909 x 233 mm	270 x 1,100 x 270 mm (with base) 156 x 1,065 x 150 mm (without base)	340 x 1,050 x 340 mm (with base)	334 x 695 x 273 mm	298 x 624 x 243 mm	258 x 540 x 234 mm
Weight	8.1 kg	11.5 kg	8.6 kg	10.5 kg	8.3 kg	6.1 kg

CD Recorder — Features & Specifications — 1

CD Recorder Features & Specifications — 1	PDR-W839
DRIVE	
CD-R	Single-tray
CD	3-CD
Applicable Discs	CD/CD-R/CD-RW
DIGITAL FEATURES	
D/A Converter	24-bit D/A Converter
A/D Converter	24-bit A/D Converter
Legato Link Conversion	•
Sampling Rate Converter	•
STRUCTURAL FEATURES	
High Rigidity Chassis	•
Clean Laser Pickup Circuit	•
Three-Beam Differential	•
Push-Pull Pickup	
RECORDING FEATURES	
Z-Concept	•
Erase (CD-RW disc)	
Last Track	•
All-Track	•
Multi Track	•
Disc	•
TOC (Unfinalise)	•
Track Skip ID Input	•
Digital Recording Level Control (dB)	• (-∞ ~ +20)
Digital Recording Balance Control	•
Digital Synchro Recording (Ext. Input)	
1-Track	•
All-Track	•
All-Track + Auto Finalise	•
DAT ID Synchro	•
Category Code Display (Digital input)	•
Analogue Synchro Recording (Ext. Input)	
1-Track	•
All-Track	•
All-Track + Auto Finalise	•
Auto Synchro Start Level Adjustment	•
Audio Buffer	•
Auto Stop Delay	•
Rec Mute	•
Auto Track Increment	•
Auto Track Increment Level Adjustment(Digital)	-24 ~ 78 dB (6 dB Step)
Auto Track Increment Level Adjustment(Analogue)	-24 ~ 66 dB (6 dB Step)
Auto Time Increment	• (1, 3, 5 Seconds)
Manual Track Increment	•
Input Selector (Digital [Coaxial/Optical]/Analogue)	• (Coax/Opt/Analogue)
Finalise (TOC Write)	•
Sampling Monitor	•
Fade-in/Fade out	• (1 ~ 12 sec)
SCMS (Serial Copy Management System)	•
Previous Monitor	—
Copy (Internal)	
1 x Copy: Digital/Analogue	•/•
2 x Copy: Digital/Analogue	•/•
Auto SCMS Copy	•
One Touch Copy	•
1-Track	•
1-Disc	•
Program	•
REC THIS	•
Auto Space	•
Rec Volume Control	•
Rec Balance Control	•
Playback Before Copy Executing	•

CD Recorder — Features & Specifications — 2

CD Recorder Features & Specifications — 2	PDR-W839
RECORDING FEATURES	
CD Text Display	•
CD Text Input	
Characters	Caps/Small/Mark/Numeric
Disc Name	•
Artist Name	•
Track Name	•
Name Clip	• (3 Names)
Name Memory	• (3 Discs)
PLAYBACK FUNCTIONS	
Z-Concept	•
Direct Track Search	•
Manual/Track Search	•
Index Search	—
Direct Song Selection	•
Random Play	• (Multi Disc OK)
Programmed Play	
Talk-Back Input	•
Direct Program	•
Programme Check	•
Programme Clear	•
Repeat Play	
1-Track, All-Track	•
Programmed, Random	•
Relay play	• (CD1/CD2/CD3/CD-R)
Skip Play	•
Fade-In/Fade-Out	• (1 ~ 12 sec)
Timer Play	•
DISPLAY	
Level Meter	• (14 seg/ch)
Remaining Recording Time	•
Time Display Switching	•
TERMINALS	
Optical Digital Input/Output	1/1
Coaxial Digital Input/Output	1/1
Line Input/Output	1/1
Headphone Jack	1
Keyboard Terminal	1
Control Input	1
TEXT Control	—
COMPACT DISC RECORDER	
Number of Channels	2
Frequency Response	2 — 20,000 Hz
Sampling Frequency (Recording/Playback)	44.1 kHz
Signal-to-Noise Ratio	
Recording	92 dB
Playback	112 dB
Dynamic Range (EIAJ)	
Recording	92 dB
Playback	98 dB
Total Harmonic Distortion (1 kHz)	
Recording	0.004 %
Playback	0.0017 %
MISCELLANEOUS	
Power Requirements	
Power Consumption	17 W
Dimensions (W x H x D)	420 x 128 x 380 mm
Weight	5.7 kg
COMPACT DISC PLAYER	
Frequency Response	2 — 20,000 Hz
Signal-to-Noise Ratio	112 dB

CD File-Type Players & Multi CD Players Features	PD-F1009	PD-F1007	PD-F958	PD-F706	PD-F607	PD-M426	PD-M406
FORMAT							
Separate Single-Disc Slot (S = Single Loader)	• (S)	• (S)	• (S)	•	—	—	—
Disc Capacity	301	301	101	25 + 1	25	6	6
WIDE-RANGE TECHNOLOGY							
Legato Link Conversion	•	•	—	—	—	—	—
DIGITAL FEATURES							
1-Bit DLC with Pulseflow D/A Converter	•[1]	•[1]	•	•	•	•	•
LOW-NOISE DESIGNS							
Low-Loss Laser Pickup	•	•	•	•	•	•	•
PLAYBACK OPTIONS							
Playback Modes							
Single Disc	•	•	•	•	•	—	—
All Discs	•	•	•	•	•	•	•
"Custom File" Discs	•	•	•	•	•	—	—
Random Play Modes							
Single Disc	•	•	•	•	•	•	•
All Discs	•	•	•	•	•	•	•
"Custom File" Discs	•	•	•	•	•	—	—
Programmed Play (Tracks/Discs)	36	36	36	24	32	32	32
Total Time Display	•	•	•	•	•	—	—
Repeat Modes	8	8	8	8	8	4	4
Single Track	•	•	•	•	•	•	•
Single Disc	•	•	•	•	•	—	—
All Discs	•	•	•	•	•	•	•
"Custom File" Discs	•	•	•	•	•	—	—
Single Disc Random	•	•	•	•	•	—	—
All Discs Random	•	•	•	•	•	•	•
"Custom File" Discs Random	•	•	•	•	•	—	—
Programmed Tracks	•	•	•	•	•	•	•
CONVENIENCES							
"Custom Filing"	• (5)	• (10)	• (3)	• (3)	• (3)	—	—
CD Text	•	•	•	•	—	—	—
Title Input	—	•	•	•	—	—	—
CD-Deck Synchro	—	•	•	•	—	—	—
Full Function Remote Control with Power On/Off	•	•	•	•	•	•	—
Previous Disc Scan	• (20)	• (20)	• (20)	• (15)	• (15)	—	—
Best Selection Memory	• (20)	• (50)	• (20)	• (15)	• (15)	—	—
Hi-Lite Scan with Programmed Play	•	•	•	•	•	—	—
Memory Backup	—	•	•	—	—	—	—
Memory Hold	•	•	•	•	•	•	•
Last Disc Memory	•	•	•	•	•	•	•
Magazine Hi-Lite Scan	—	—	—	—	—	•	—
Jog Dial	•	•	—	—	—	—	—
Powered Door	•	•	•	—	—	—	—
Direct Track Access by Number Keypad	•	•[2]	•[2]	•[2]	•[2]	—	—
Timer Play (Timer Optional)	—	—	—	—	—	•	•
Auto Power-On/Power-Down Eject (Single Disc Slot)	—	—	—	•	—	—	—
Liner-Notes File	—	—	1	1	1	—	—
TERMINALS							
Optical Digital Output	•	•	•	•	•	—	—
SR (System Remote) Terminal	• (In)	—	• (In)	—	—	—	—
One More 300 CDs Connect	—	•	—	—	—	—	—
I/O Interface Terminals	—	•	•	—	—	—	—
Headphone Output with Volume Control	—	•	•	•	•	—	—
Keyboard Input	—	•	—	—	—	—	—
ANTI-RESONANCE AND ANTI-VIBRATION DESIGNS							
Honeycomb Chassis	—	—	—	—	—	•	•
Large Insulators	•	•	•	•	•	•	•

1) Without pulseflow

2) Remote control

CD File-Type Players & Multi CD Players Specifications	PD-F1009	PD-F1007	PD-F958	PD-F706	PD-F607	PD-M426	PD-M406
Frequency Response	2 — 20,000 Hz	2 — 20,000 Hz	2 — 20,000 Hz	2 — 20,000 Hz	2 — 20,000 Hz	2 — 20,000 Hz	2 — 20,000 Hz
Signal-to-Noise Ratio (EIAJ)	105 dB	98 dB	98 dB	98 dB	98 dB	98 dB	98 dB
Dynamic Range (EIAJ)	—	—	96 dB	96 dB	95 dB	95 dB	96 dB
Channel Separation (EIAJ)	—	—	—	—	—	—	95 dB
Distortion (EIAJ)	—	—	0.003 %	0.003 %	0.005 %	0.005 %	0.003 %
Power Requirements	220 — 240 V, 50 — 60 Hz	220 — 240 V, 50 — 60 Hz	220 — 240 V, 50 — 60 Hz	220 — 240 V, 50 — 60 Hz	220 — 240 V, 50 — 60 Hz	220 — 240 V, 50 — 60 Hz	220 — 240 V, 50 — 60 Hz
Power Consumption	12 W	12 W	12 W	14 W	13 W	12 W	12 W
Dimensions (W x H x D)	420 x 193 x 433 mm	420 x 193 x 433 mm	420 x 193 x 402 mm	420 x 190 x 316 mm	420 x 193 x 312 mm	420 x 105 x 294 mm	420 x 105 x 294 mm
Weight	7.5 kg	8 kg	6.5 kg	5 kg	4.8 kg	3.7 kg	3.7 kg

Headphones Specifications	HDJ-1000	SE-M380	SE-M280
Type	Closed	Closed	Closed
Frequency Response	5 — 30,000 Hz	5 — 28,000 Hz	5 — 22,000 Hz
Impedance	40 Ω	32 Ω	32 Ω
Max. Input Power	3,500 mW	1,500 mW	1,200 mW
Sensitivity	107 dB	105 dB	102dB
Driver Unit	Ø 50 mm	Ø 40 mm	Ø 40 mm
Plug	Mini/Standard Gold-Plated	Mini/Standard Gold-Plated	Mini/Standard Gold-Plated
Cord Length	1.2 m (coiled)/+/- 3 m (straight)	3.5 m (Single) (OFC)	3.5 m (Single) (OFC)
Net Weight (w/o cord)	270 g	205 g	225 g
Head Band	Free adjust	Free adjust	Free adjust

Headphones Features & Specifications	SE-DIR800C (headphone)
POWER SOURCE	DC 3 V (UM-3, AA-sized x2) DC 2.4 V (rechargable battery x2)
Type	Closed dynamic stereo headphones
Frequency response	12 — 22,000 Hz
Driver Unit	Ø 40 mm
Weight (without battery)	250 g
Operation Time	27 hours (UM-3, AA-size) / 16 hours (rechargeable battery)

Headphones Features & Specifications	SE-DIR800C (transmitter)
POWER REQUIREMENTS	DC9V/800 mA (with attached AC adapter)
Decoder formats	Dolby Digital Dolby Surround DTS PCM (Fs = 44, 1 kHz, 48 kHz)
Surround functions	Dolby Headphone mode (DH1/DH2/DH3/OFF) Dolby ProLogic II mode (AUTO/MOVIE/MUSIC/OFF)
Audio Inputs	Optical Input (rectangular-type) x1 Digital Input (pin jack) x1 Analog input (pin jack left/right) x1
Dimensions (W x H x D)	209 x 50 x 104 mm
Weight	520 g
Transmission System	Digital Infrared Audio Transmission
Transmission Range	12 — 22,000 Hz
Effective range	Approximately 8 m to the front

Integrated Amplifiers Features	A-607R	A-509R	A-307R	A-209R	A-109
POWER OUTPUT					
DIN Continuous Power Output (1 kHz)					
4 Ω	120 W x 2	90 W x 2	80 W x 2	60 W x 2	—
8 Ω	75 W x 2	60 W x 2	55 W x 2	45 W x 2	40 W x 2
WIDE-RANGE TECHNOLOGY					
Wide-Range Linear Circuit	•	•	•	•	•
High Channel Separation Design	•	•	—	—	—
AUDIO FEATURES					
Direct Energy MOS FET Circuit	•	•	•	•	•
Low-Impedance Driving Capability	•	•	•	•	—
Muting	•	—	—	—	—
Tone Controls	•	•	•	•	•
Loudness	•	•	•	•	•
Large Insulators	•	•	•	•	
CONSTRUCTION					
Advanced Direct Connection	•	•	—	—	—
Symmetrical Construction	•	•	•	•	—
Sound Stabilisers	•	•	—	•	—
LOW-NOISE DESIGNS					
Toroidal Transformer	•	—	—	—	—
Aero Wing Chassis	•	•	•	•	—
"Silent" Microprocessor System	•	•	•	•	—
"DIRECT" Switch	•	•	•	•	•
Local Off Circuit (Tone/Phono)	•	•	• (Phono)	• (Phono)	• (Phono)
HIGH-QUALITY PARTS					
Complementary Capacitor Pair	•	•	•	•	•
Speaker A/B Switching Relay	•	•	•	•	• (only A)
Motor-Driven Volume Control	•	•	•	•	—
Input Switching Relay	CD, TAPE1/MD	TAPE1/ CD-R/MD	—	—	—
Gold-Plated CD/Phono Inputs	•	—	—	—	—
CONVENIENCES					
SR (System Remote) Control Unit	•	•	•	•	—
Record Selector	•	•	—	—	—
Two-Way Dubbing	•	•	•	•	•
TERMINALS					
Audio Inputs	6	6	6	6	6
SR (System Remote) Terminal	•	•	•	•	—
Headphone Output	•	•	•	•	•
Speaker Outputs	2	2	2	2	1
Discrete Outputs (All Channels)	•	•	•	•	•
A+B (Parallel)	•	•	•	•	—

Integrated Amplifiers Specifications	A-607R	A-509R	A-307R	A-209R	A-109
AMPLIFIER SECTION					
Power Output					
DIN (1 kHz, 4 Ω)	120 W x 2	90 W x 2	80 W x 2	60 W x 2	—
DIN (1 kHz, 8 Ω)	75 W x 2	60 W x 2	55 W x 2	45 W x 2	40 W x 2
Continuous Power Output					
20 – 20,000 Hz, 4 Ω	90 W x 2[1]	65 W x 2[1]	65 W x 2[1]	45 W x 2[1]	—
20 – 20,000 Hz, 8 Ω	80 W x 2[1]	45 W x 2[1]	45 W x 2[1]	35 W x 2[1]	30 W x 2[1]
Total Harmonic Distortion (20 – 20,000 Hz, 8 Ω, at -3 dB)	0.06 %[1]	0.05 %[1]	0.08 %[1]	0.08 %[1]	0.08 %[1]
Input (Sensitivity/Impedance)					
PHONO (MM)	2.8 mV/50 kΩ	2.8 mV/50 kΩ	2.8 mV/50 kΩ	2.8 mV/50 kΩ	2.8 mV/50 kΩ
CD, TUNER, AUX, TAPE	200 mV/50 kΩ	200 mV/50 kΩ	200 mV/50 kΩ	200 mV/50 kΩ	200 mV/50 kΩ
Frequency Response					
CD, TUNER, AUX, TAPE	5 – 100,000 Hz[1] +0 dB, –3 dB	5 – 100,000 Hz[1] +0 dB, –3 dB	5 – 100,000 Hz[1] +0 dB, –3 dB	5 – 100,000Hz[1] +0 dB, –3 dB	5 – 100,000 Hz[1] +0 dB, –3 dB
Signal-to-Noise Ratio (DIN; continuous rated power output/50 mW)					
PHONO (MM)	71 dB/67 dB[1]	71 dB/67 dB[1]	71 dB/67 dB[1]	71 dB/67 dB[1]	71 dB/67 dB[1]
CD, TUNER, AUX, TAPE	95 dB/71 dB[1]	95 dB/71 dB[1]	91 dB/71 dB[1]	91 dB/71 dB[1]	91 dB/71 dB[1]
MISCELLANEOUS					
Power Requirements	220 — 230 V, 50 — 60 Hz	220 — 230 V, 50 — 60 Hz	220 — 230 V, 50 — 60 Hz	220 — 230 V, 50 — 60 Hz	220 — 230 V, 50 — 60 Hz
Power Consumption	220 W	160 W	140 W	130 W	80 W
Dimensions (W x H x D)	420 x 128 x 335 mm	420 x 128 x 335 mm	420 x 114 x 307 mm	420 x 114 x 307 mm	420 x 114 x 307 mm
Weight	7 kg	6.9 kg	5.9 kg	4.7 kg	4.3 kg

1) Direct Switch on

Cassette Deck Features	CT-W208R
AUDIO FEATURES	
Dolby Noise Reduction	B/C
ANTI-RESONANCE AND ANTI-VIBRATION DESIGNS	
Honeycomb Chassis	•
CONVENIENCES	
Double Cassette Conveniences	
Auto-Reverse (R = Record, P = Play)	Deck II (R/P)/I (P)
Relay Record/Play (R = Record, P = Play)	• (P)
Normal/High-Speed Dubbing	•
Music/Skip Search	•
Auto Space Rec Mute	•
SR (System Remote) Terminal	•
DISPLAY	
Fluorescent Peak-Hold Level Meter	• (LED)

Cassette Deck Specifications	CT-W208R
Number of Motors	2
Type of Heads	
Playback Head	1
Recording/Playback Head	1
Erasing Head	1
Wow and Flutter WRMS	0.09 %
DIN	± 0.19 %
Frequency Response (-20 dB)	
Type IV (Metal Tape)	20 – 16,500 Hz
Type II (Chrome Tape)	20 – 16,000 Hz
Type I (Normal Tape)	20 – 16,000 Hz
Signal-to-Noise Ratio	
Digital NR (with Dolby B/C NR)	—
Digital NR (without Dolby NR)	—
Digital NR/Dolby NR Off	57 dB
Power Requirements	220 — 230 V, 50 — 60 Hz
Power Consumption	16 W
Dimensions (W x H x D)	420 x 125 x 250 mm
Weight	3.8 kg

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