



TOP PERFORMERS

Superior quality in sound and design: Pioneer leads the way in cutting-edge audio technologies. So let Pioneer Hi-Fi components form the building blocks of your own personalised audio system. Whether you are starting from scratch or upgrading your current system, our wide range of high-performance components allows you to customise according to your needs. Choose from our CD recorders, MiniDisc recorders, CD players, cassette decks, amplifiers and speakers. With top of the line design and the most advanced sound quality imaginable, you can't go wrong. You'll know it when you hear it.



MAKING MUSIC JUST GOT EASIER

The digital revolution has changed home audio recording forever. For one thing, the choice of formats is ever expanding. Just check out Pioneer's CD recorders and MiniDisc — two very versatile possibilities for recording in digital quality. Select, record, search and retrieve the tracks of your choice. Extremely easy to use, it's clear why these are fast becoming the must-haves of the moment. Now that high-quality customised recording has become a reality, why not give it a try? The only limit is your imagination.



PIONEER MINIDISC: YOU GOTTA GET ONE.

Pioneer gives you more options in digital recording with our high-end MiniDisc recorders. Make digital recordings from your CDs, or record from other sources — with MiniDisc the possibilities are endless. Its compact size and exceptional sound quality make it the format of choice. What's more, when your MD component is equipped with MD Long Play feature you can record up to 320 minutes of music onto a single disc. When you record in long-time monoraul audio you can record 2 x 80 minutes of music. That's more music for your compatible car or portable MiniDisc player.

MJ-D508 MiniDisc Recorder



Pioneer's advanced parameter processing, which controls ATRAC compressed data increasing the music signal information to provide audio recordings of the highest quality, the Pioneer Z-concept, and digital noise reduction mean a superior quality MiniDisc recorder. The convenient editing modes and features like "name clip" and "medley playback" let you get the most out of your music.



CUSTOMISATION AT THE TOUCH OF A BUTTON

Your own personalised mixes on CD – what could be better? With Pioneer CD recorders, you call the shots. We've come up with the solutions that make it easier and faster than ever to digitally record the tracks of your choice, in the order you want, onto CD-R or CD-RW. No complex programming involved – just press a button and you're off and running. And features like double speed dubbing and improved finalisation mean that you're never far away from that perfect mix. It'll change the way you listen to music.

PDR-W839 CD Recorder

Record from one to three CDs onto your own personalised CD. Just select the tracks you want to record and press the "Copy Start" button. It is that easy! The new "Rec This" button automatically records the track you are listening to at the touch of a button and stops when finished. The improved 2 x finalisation process and double speed dubbing enables fast recording. The front panel input connection for a keyboard makes creating and editing personalised CD Text a breeze.

**PDR-609 CD Recorder**

Quality CD recording and playback at its finest – thanks to a 24-bit A/D converter and Legato Link Conversion. This technology includes double speed finalisation, analogue sync recording for easy vinyl or cassette recording and automatic level adjustment. Of course, there is CD Text display and input possibilities too.

**MJ-L11 MiniDisc**

A MiniDisc recorder with looks to kill. This is more than tempting for MiniDisc fans. Perfectly co-ordinated with the NS-11-S and NS-11-Q audio systems, and the NS-DV77 and NS-DV88 digital home cinema systems, this compact component is a simple way to add the pleasure of editing and recording those take-anywhere MiniDiscs to your design system. And just to twist your arm, its special MD LP (Long Play) feature gives you four times the recording time!

Note: MD LP discs will only play on MD LP compatible players.

EVERLASTING CLASSIC SOUND

Advanced audio technology is what makes Pioneer CD players among the best. And with our wide range of top quality players, you can be sure that CDs won't go out of style any time soon. Exceptional features like Legato Link Conversion and anti-vibration design give you outstanding sound performance and stability. Got a huge collection? Our file-type CD players let you store 301 CDs in a compact space and still access any track immediately. With Pioneer, you'll get infinite listening pleasure out of your CDs for years to come.

PD-F1009 File-Type CD Player



With its unique loading roulette rack system and single loader, easily store 301 CDs in a surprisingly compact unit for immediate playing of your collection. A selection of listening modes, CD Text and CD-RW playback capability, low power consumption and Legato Link Conversion make this component an excellent choice for quality and convenient CD enjoyment.

PD-F1007 File-Type CD Player



More than 301 CDs? No problem. This CD player is connectable to another 301-CD changer for a grand total of 602 CDs. Almost a month of continuous listening pleasure. Organise your collection using the custom filing system and input your text via a keyboard or the remote control.

PD-F958 File-Type CD Player



Store up to 101 CDs in this compact CD player. Its single loader means a track within moments. It is easy to keep your favourite CDs organised using custom filing for up to 3 CD groups and the component can handle CD Text.

PD-F706 File-Type CD Player



A compact unit, this rolling rack system stores 25 + 1 discs. Almost a full day of audio enjoyment. Plus you can programme 24 tracks from 24 different discs for the perfect mix.



PD-F607 File-Type CD Player



Just a bit smaller for easy placement, load this CD player with 25 discs and enjoy your favourite music continuously. You'll be surprised at its price tag as well as its features, which include CD Text.



PD-M603* Multi CD Player

This CD player offers six disc capacity with excellent sound performance thanks to Pioneer's 1-bit DLC (Direct Linear Conversion) featuring a high speed and high density pulseflow D/A converter. With automatic digital level control, the sound level is automatically adjusted. Plus the 6 disc key on the remote lets you access any one of the six CDs directly.

* Only available in the U.K.

PD-M426* Multi CD Player

Put sets of your favourite CDs in separate loaders and off you go. This multiple Compact Disc player stores 6 discs per loader and features anti-resonance and anti-vibrating design and last disc memory. Just press the remote to start playing your selection.

* This product is not available in the U.K.

PD-M406* Multi CD Player

With a six disc storage capacity, this multi Compact Disc player offers superb sound with anti-resonance, anti-vibration design and last disc memory. A system remote terminal is also available.

* This product is not available in the U.K.

PD-S707* CD Player

This top model features everything a demanding listener requires. Perfect digital audio sound is present thanks to Pioneer's Z-concept and anti-resonance and anti-vibration features. And it is easy to use with a convenient jog dial.

* This product is not available in the U.K.

JD-M300 6-CD Magazine

Sort your favourite CDs into separate loaders to use with the PD-M426*, PD-M406* and PD-M603 multi Compact Disc players. It couldn't be easier.

* These products are not available in the U.K.

DELIVERING POWER PERFORMANCES

An amplifier is the heart that supports your audio system. So give it the power it deserves with Pioneer amplifiers and receivers. They're brilliantly designed to deliver precisely the kind of powerful performance that results in pure, hi-fi sound. Wide frequency response, sound stability and low noise all add up to clean, distortion-free listening pleasure. Extra features and additional connections make them easy to integrate into any audio system. Now, how does that sound?

A-607R Integrated Amplifier

120 W x 2 DIN



Packed with power – 120 watts + 120 watts DIN, this integrated amplifier pumps out pure sound with a superb low frequency range and exceptionally low noise thanks to the toroidal transformer. The high quality Direct Energy MOS FET circuit drives low impedance loudspeakers and its wide range linear circuit delivers clean hi-fi sound throughout the frequency range. Its symmetrical design adds to the perfect stereo sound.

A-509R Integrated Amplifier

90 W x 2 DIN



The new look of this 90 watt integrated amplifier brings powerful performance to any system. Its wide-range linear circuit means a wider frequency response and its short signal path translates to a pure natural sound. It can be operated as 2-channel power amplifier, e.g. to drive the surround sound back speakers in a 7.1* speaker set-up.

* When in the Surround Back mode, the A-509R does not accept any remote control signals, including those from the main amplifiers.

A-307R Integrated Amplifier

80 W x 2 DIN



The symmetrical construction of this 80 watt integrated amplifier brings perfect stereo sound to your ears. And the short signal path adds to the reality of the experience.

A-209R Integrated Amplifier

60 W x 2 DIN



The new design features of this 60 watt integrated amplifier include a stabiliser for the transformer and chassis. Add this to the other features, such as a wide-range linear circuit and short signal path, for excellent sound performance.

A-109 Integrated Amplifier



40 W x 2 DIN



The new design of this 40 watt integrated amplifier adds a stabiliser for the transformer and chassis. And its symmetrical design results in excellent stereo imagery.

ANALOGUE WITH A TWIST

Cassettes have been around for ages, but the way you listen to them still keeps getting better with Pioneer digital technology. Our cassette decks adapt functions like digital noise reduction and TDNS (Tape Duplication Noise Suppression) to the analogue format, delivering enhanced audio performance from cassettes. Low-noise recording and playback guaranteed. So let Pioneer breathe new life into your old goodies. You'll be amazed at the difference in sound quality.

CT-W8o6R Cassette Deck

DIGITAL PROCESSING SYSTEM **LEGATO LINK** CONVERSION **(SUPER AUTOBLE XD)** **FLEX** FREQUENCY LEVEL EXPANDER **CD** CO-DECODING **SR**



Applying the latest digital developments to the analogue format results in surprising quality sound. This double cassette deck has everything you need for high performance recording and playback, including a digital processing system for lower signal deterioration, a digital input terminal and easy ALCA (Automatic Level Control — Performed In Digital Domain) and TDNS (Tape Duplication Noise Suppression) digital dubbing.

CT-W6o6R Cassette Deck

DIGITAL PROCESSING SYSTEM **(SUPER AUTOBLE XD)** **FLEX** FREQUENCY LEVEL EXPANDER **CD** CO-DECODING **SR**



A double cassette deck with Pioneer's advanced digital processing system and Legato Link pulls every last bit of sound from your cassettes.

CT-W5o5R* Cassette Deck

FLEX (AUTO BLE) FREQUENCY LEVEL EXPANDER **CD** CO-DECODING **SR**



The very best of analogue sound reproduction, this double cassette deck uses ALCA (Automatic Level Control — Performed In Digital Domain) for a constant recording level and TDNS (Tape Duplication Noise Suppression) for deleting bias noise.

* This product is not available in the U.K.

CT-W2o8R Cassette Deck

SR



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

CT-S25o Cassette Deck

FLEX FREQUENCY LEVEL EXPANDER **SR**



Of course, you still want to play all those favourite cassettes. So why not add this affordable single cassette player to your system?

CERTAINLY A SOUND CHOICE

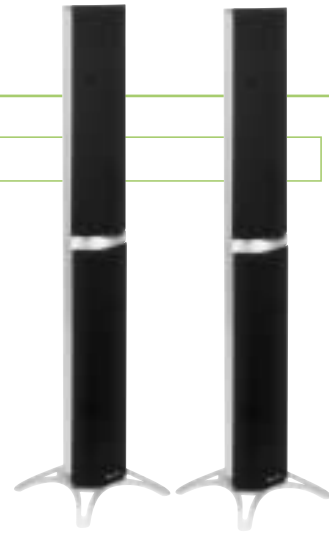
For the ultimate in sound performance and versatility, Pioneer speakers are the best you can choose. Whether you want maximum power, minimal size or a cool design, you'll find what you need within our wide range. Need A/V speakers? Look no further. We have speakers compatible with all types of systems up to 7.1-channel surround sound. And all with the premium sound quality you can expect from Pioneer. Now that's definitely worth listening to.

S-H710V Audio Speaker Set

NEW

130 W Max

If you want a pure, accurate yet powerful sound then here's the answer. This stunning speaker design, consisting of two woofers, a tweeter and a super-tweeter, perfectly reproduces the high frequency treble sounds from a DVD-Audio or SACD source. The speakers are built from aluminium (cabinet), wood (front panel) and zinc (top, base and centre flange), making them robust as well as elegant. Choose from three grille colours (black, burgundy and white) to best match your interior. Then sit back and enjoy the power of maximum 130 W.



S-H510V

Audio Speaker Set

100 W Max



With a refreshed design, these stately speakers are the perfect accessories. As a set, the elegant, 2-way, 100 watt speakers bring high performance sound to any living space. They are also magnetically shielded to prevent interference to TV sets, so they can double as A/V speakers.

S-H310V-QL Audio Speaker Set

NEW

100 W Max

Strike a chord for modernity. These subtle light wood-tone speakers with 100 watts of power are perfect for contemporary living spaces. The S-H310V-QL can also double as A/V speakers.



S-H230V-QL/S-H230V-W

NEW

Audio Speaker Set

80 W Max



Taking a step back from black? The refreshed design of these exclusive speakers, in Calvados wood finish or in warm wood-tone finish, brings elegance and three-way 80 watts high performance sound to any living space. They are also magnetically shielded to prevent interference to TV sets, which means they can double as A/V speakers.

CS-7070**Audio Speaker Set****190 W DIN**

Maximum music at 190 watts. These quality 3-way speakers are also magnetically shielded to prevent interference to TV sets and can be used as A/V speakers.

CS-5070 Audio Speaker Set**140 W DIN**

Designed for sound, these 3-way 140 watt speakers are an excellent choice for any hi-fi system.

CS-3070**Audio Speaker Set****120 W DIN**

Something slightly smaller? Then you'll want these subtle 120 watt, 3-way speakers for your system.

ADD-ON EQUIPMENT & ACCESSORIES

PL-990 Turntable

Sometimes you can't beat a vinyl classic. This high-tech, fully automatic stereo turntable features a low-mass straight tone arm, precise DC servo motor and built-in phono equaliser. Simply connect to any auxiliary/line input on your amplifier or mini system.


**Headphones**

When you need sound privacy, nothing beats a quality pair of headphones for a total sound experience. Looking for a completely closed model? Then consider the deep resonating sounds of the silver SE-M370 or the comfortable fit of the SE-M270 with oval soft pads. Or if you want to look super-trendy while you're enjoying rich, vibrant sounds, then opt for the light, open-type SE-A250.



SIMPLE AND STYLISH AUDIO





Consistently high quality sound is what Pioneer audio systems are about. Our hi-fi systems give you just that in one great package. They're designed to impress with loads of smart features and versatile functions. Whatever music you're into, you'll be amazed at the outstanding sound our systems can deliver. You can even plug in your games console or MiniDisc player — all the more ways to enjoy Pioneer audio at its best.

BEST OF BOTH WORLDS



If you want both the best in sound quality and smart designer aesthetics, Pioneer design audio systems are the perfect way to go. Behind the streamlined exterior lies the latest high-performance audio technology for a system that sounds as impressive as it looks, from the inside out. Whichever model you choose, these eye-catching, high-tech marvels have all the bases covered. Innovative sound and design solutions from Pioneer. Why choose when you can have it all?

NS-11-Q Design Audio System

30 W x 2 + 50 W RMS



So you're considering the wooden 3-D speaker system with its matching subwoofer? With such slim yet strong design lines, it'll make a statement. And the separate blue display adds the perfect touch. With 110 watts of total power, you'll delight in the spectacular strains of music that soar through your space. The system has everything you'll need: a CD tuner, amplifier, a separate display that can be positioned where you want, two satellite speakers and a subwoofer. A great design feature, the power amplifier fits right under the subwoofer. You don't even notice it is there.

NS-11-S Design Audio System

30 W x 2 + 50 W RMS



More inclined towards the sleek silver 3-D speaker system with its corresponding subwoofer? No problem. You'll love the flash of the separate cool blue display and the highly addictive touch keys that beep to confirm you've hit them. With the slim silver design system, you still get everything you need: a CD tuner, a subwoofer for more bass, two satellite speakers, amplifier and a separate display that can be placed for convenient viewing. With 110 watts of total power output, this is a sophisticated yet powerful design system.

MJ-L11 Optional MiniDisc Recorder*

* For NS-11-Q, NS-11-S, NS-DV88 and NS-DV77

You're a MiniDisc addict? Then you'll be happy to hear that you can create your own MiniDisc compilations on your NS-11 system with this matching MD LP* compatible MiniDisc recorder. Creating your own personal MiniDisc compilations to take anywhere has never been more stylish.

**CT-L11 Optional Cassette Deck***

* For NS-11-Q, NS-11-S, NS-DV88 and NS-DV77

Or would you rather revive your old cassette collection? Go ahead and do it with a bit of flair. Just slide your cassettes into this matching cassette deck. Your friends won't believe it!

Note: MD LP discs will only play on MD LP compatible players.

**JC-L11 Optional Extension Cord***

* For NS-11-Q, NS-11-S, NS-DV88 and NS-DV77

Add the optional 5 metre extension cord – in case you decide to move the separate display further from the main unit.

IS-22 Hi-Fi System

100 W x 2 RMS

The perfect system! The IS-22 includes a vertical CD player, horizontal tray-type cassette deck, tuner, separate amplifier and 3-way loudspeaker system.

Plug it in!

Limitless connections! Plug your games console into the front panel connection port for games with bombastic sound. Or hook up a portable MD recorder to create personalised MD discs from CDs, cassettes and even the radio, and then listen to those discs through the system's speakers. With new separate music playback and game sound modes, you'll experience sound like never before.

**IS-22S Hi-Fi System**

100 W x 2 RMS

Or opt for this system which has speakers the same height as the main unit (and the same features as the IS-22).



Motorised CD door

X-NM1 Micro System**R·D·S**
RADIO DATA SYSTEM**25 W x 2 RMS**

Just because it's tiny doesn't mean it's missing important points. On the contrary, everything is covered: a tray-type CD player, pop-up cassette player with auto reverse, an RDS tuner with 24 presets, a 2 x 25 watt amplifier and speakers with blue grilles make sure that you have quality music in any room from the office to the bedroom.



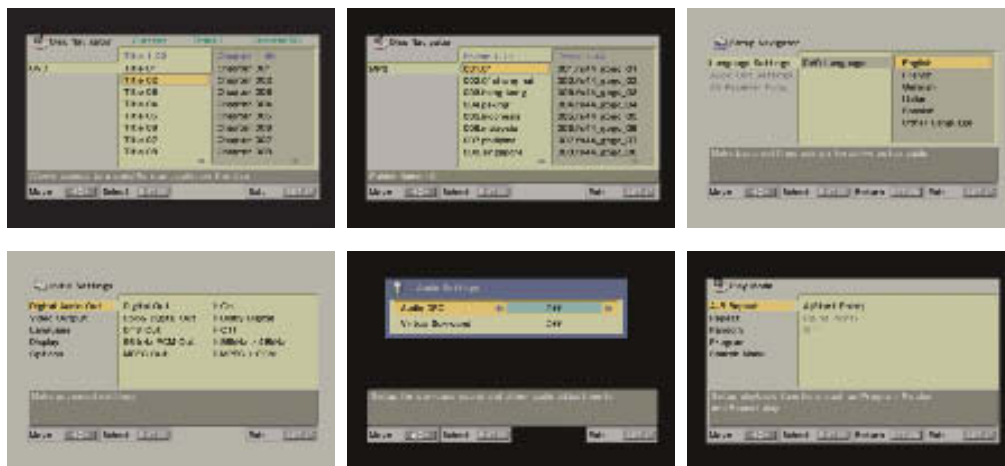
Dolby Pro Logic II

Dolby Pro Logic II reproduces multi-channel surround sound from a variety of sound sources, but also from 2-channel sources such as videos and CDs. Pro Logic II uses matrix decoding to put the surround rear channels in stereo and covers the full frequency range during playback, which are drastic improvements over Pro Logic.

Thanks to Pro Logic II you can now approach the thrill of 5.1-channel surround sound even from 2-channel sound sources.

New and improved GUI (Graphical User Interface)

Pioneer's new GUI (Graphical User Interface) has a resolution of 720 x 576 dots. This provides for high quality menus and allows for a large yet super-sharp font size so you get better legibility and easier use. An easy Disc Navigator with convenient portal structure simplifies complicated operations by way of an interactive interface presentation and supports all types of discs in video mode, DVD/DVD-R/DVD-RW/VideoCD/CD/CD-R/CD-RW/MP3. The Disc Navigator will guide you through all the necessary steps to operate by asking simple questions.



Pioneer Original Surround Modes

Our A/V receivers offer a wide range of pre-defined easy-to-use Original Surround modes, including 5/6-Channel Stereo, Expanded, Virtual Surround Back, Phones Surround, Game and TV Surround mode. The 5/6-Channel Stereo simulates the acoustic environment of a regular stereo while using all the speakers in the system to create rich Original Surround sound modes. The 6-Channel Stereo Mode is in effect when Surround Back speakers are switched on. If these speakers are not available, you will have 5-Channel Stereo Mode. For multimedia lovers, the Advanced Theatre function enhances the sound field based on the type of movie you are watching. Music Mode creates a 360-degree sound field around the viewer, creating the sensation of an acoustically perfect theatre. It is ideal for music videos and musicals. Drama and Movie Mode create the acoustics of a medium-sized cinema and heighten your sense of reality. For action movie lovers, Action Mode engulfs you in a wall of sound so you can enjoy all the power and speed. For users with only 2 front speakers, Pioneer offers Virtual Surround Mode for channel separation that leads to a surround sound feeling.

The Expanded Theatre Mode lets you enjoy Dolby Pro Logic Sources (videotapes, satellite broadcasts, etc.) as if they were the latest in 5.1 or 7.1-channel digital programs. The surround effect is so superb that you might consider giving up concerts!

Listening Modes

Pioneer also offers a selection of Listening modes, like Midnight Listening Mode, Quiet Mode, Natural and Bright.

To get the most out of home cinema at low volume turn to the excellent Midnight Listening Mode. It adjusts subwoofer, rear and centre speaker levels, while enhancing delay and compressing dynamic range, for greater enjoyment of cinema-like sound at low volume. If you feel the sound is too harsh or too sharp, Quiet Mode reduces the bass and treble in the signal to smooth the sound. Or, if you want the full strength of bass, the S Bass Mode delivers a powerful performance.

And to top it off, we now introduce two new listening modes, Natural and Bright, for an even better sound experience.

Virtual Surround Back

Surround sound becomes even more impressive. With virtual surround back 6.1 the left and right rear satellite speakers create a phantom sound source behind the listener, as if there were a speaker. Experience 6.1 surround sound from a 5.1 speaker set-up.

Expanded Theatre

Expanded Theatre broadens the soundstage and dramatically enhances surround effects when listening to Dolby Pro Logic or stereo sources. If you use it when viewing a restaurant scene, you might just be able to eavesdrop on the conversations going on outside of the main action or the subtle banging of pots and pans in the kitchen. This mode also enhances DTS and Dolby Digital-encoded signals, for amazing surround sound.

Digital Home Cinema Systems

Features - 1

	MS-DV188	MS-DV177	DCS-505	DCS-503	HTD-50
SYSTEM					
Display	FL (Separate)	FL (Separate)	FL	FL	FL
Dimmer Control	5 step	5 step	2 step	2 step	5 step
Remote Control Unit	Preset	Preset	Preset	Preset	•
AMPLIFIER					
Surround (DIN)					
Front	30 W/ch (8 Ω, 1 % THD)	30 W/ch (8 Ω, 1 % THD)	59 W/ch (6 Ω, 1 % THD)	59 W/ch (6 Ω, 1 % THD)	65 W/ch (8 Ω, 1 % THD)
Centre	30 W (8 Ω, 1 % THD)	30 W (8 Ω, 1 % THD)	59 W (6 Ω, 1 % THD)	59 W (6 Ω, 1 % THD)	24 W (6 Ω, 1 % THD)
Surround	30 W/ch (8 Ω, 1 % THD)	30 W/ch (8 Ω, 1 % THD)	59 W/ch (6 Ω, 1 % THD)	59 W/ch (6 Ω, 1 % THD)	24 W/ch (6 Ω, 1 % THD)
Subwoofer	50 W (4 Ω, 1 % THD)	50 W (4 Ω, 1 % THD)	59 W/ch (6 Ω, 1 % THD)	59 W/ch (6 Ω, 1 % THD)	65 W (8 Ω, 1 % THD)
Surround (RMS)					
Front	40 W/ch (8 Ω, 10 % THD)	40 W/ch (8 Ω, 10 % THD)	75 W/ch (6 Ω, 10 % THD)	75 W/ch (6 Ω, 10 % THD)	87 W/ch (8 Ω, 10 % THD)
Centre	40 W (8 Ω, 10 % THD)	40 W (8 Ω, 10 % THD)	75 W (6 Ω, 10 % THD)	75 W (6 Ω, 10 % THD)	33 W (6 Ω, 10 % THD)
Surround	40 W/ch (8 Ω, 10 % THD)	40 W/ch (8 Ω, 10 % THD)	75 W/ch (6 Ω, 10 % THD)	75 W/ch (6 Ω, 10 % THD)	33 W/ch (6 Ω, 10 % THD)
Subwoofer	65 W (4 Ω, 10 % THD)	65 W (4 Ω, 10 % THD)	75 W (6 Ω, 10 % THD)	75 W (6 Ω, 10 % THD)	87 W (8 Ω, 10 % THD)
SURROUND SOUND					
Dolby Pro Logic Surround	•	•	•	•	•
Dolby Pro Logic II Surround	•	•	•	•	•
Dolby Digital	•	•	•	•	•
DTS Digital Surround	•	•	•	•	•
DSP Mode					
HALL 1, 2	•	•			•
JAZZ	•	•			•
DANCE	•	•			•
THEATER 1 & 2	•	•			•
SIMULATED STEREO	•	•			•
Advanced Surround Mode					
ADV MOVIE			•	•	
ADV MUSIC			•	•	
VIRTUAL SB			•	•	
EXPANDED			•	•	
5CH STEREO			•	•	
VIRTUAL SURROUND			•	•	
Advanced Theater					
STANDARD	•	•			•
MUSICAL	•	•			•
DRAMA	•	•			•
ACTION	•	•			•
VIRTUAL SURROUND 1, 2	•	•			•
REAR WIDE	•	•			•
SURROUND mode					
AUTO			•	•	
Dolby Pro logic			•	•	
Dolby Pro logic movie			•	•	
Dolby Pro logic music			•	•	
Room Setup					
AUDIO FEATURES					
Midnight Listening Mode	•	•	•	•	•
QUIET MODE			•	•	
THEATER BASS			MUSIC/CINEMA	MUSIC/CINEMA	
Bass Mode					
P-Bass	•	•	•	•	•
Bass/Treble Tone Control	•	•	•	•	•
Subwoofer Level Control	•	•	•	•	•
TUNER					
RDS Tuner	•	•	•	•	•
Band (FM/AM)	•	•	•	•	•
Presets	30	30	30	30	30
Auto Tuning	•	•	•	•	•
Timer	• (3-mode)	• (3-mode)	Wake up/Sleep	Wake up/Sleep	Wake up/Sleep
DVD					
Playback Discs					
	DVD/DVD-R ¹ /VCD/CD/CD-R ¹ /CD-RW ¹ (MP3 Capability)	DVD/DVD-R ¹ /VCD/CD/CD-R ¹ /CD-RW ¹ (MP3 Capability)	DVD/DVD-R ¹ /VCD/CD/CD-R ¹ /CD-RW ¹ (MP3 Capability)	DVD/DVD-R ¹ /VCD/CD/CD-R ¹ /CD-RW ¹ (MP3 Capability)	DVD/DVD-R ¹ /VCD/CD/CD-R ¹ /CD-RW ¹
Twin-Wave Laser Pickup	•	•	•	•	•
Dual System (PAL/NTSC) (Video output)	•	•	•	•	•
10-bit Video Signal D/A Converter	•	•	•	•	•
96kHz/24-bit D/A Converter	•	•	•	•	•
CONVENIENCES					
Advanced GUI (Graphical User Interface)					
Basic/Expert Mode Selection	•	•	6 Languages	6 Languages	•
Guide Indication	•	•	•	•	•
Set-Up Navigator	•	•	•	•	•
On-Screen Information	•	•	•	•	•
SPECIAL PLAY FUNCTIONS					
Programme Memory (Title or Chapter)	•	•	•	•	•
Resume Function (Stop Key)	•	•	•	•	•
Condition Memory (DVD, 15 discs)	•	•	•	•	•
Continue Play Memory (Last Memory)(5 DVDs, 1 VCD)	•	•	•	•	•
Repeat Mode (All, Title/Chapter, A-B)	•	•	•	•	•
Programme Play (CD/Track/Video/Chapter, Title)	24	24	24	24	24
Still Play (Field/Frame)	•	•	•	•	•
Still/Step Play	•	•	•	•	•
Slow Play (except VCD reverse)	•	•	•	•	•
Random Play	•	•	•	•	•
Scan/Search Functions					
10-Key Direct Search and Play (Chapter/Track)	•	•	•	•	•
Title Search	•	•	•	•	•
Track/Time search	•	•	•	•	•
Other Special Functions					
Accurate Digital Servo with Viter-bi RF Decoding Process (DVD)	•	•	•	•	•

Digital Home Cinema Systems

Features - 2

	MS-DV188	MS-DV177	DCS-505	DCS-303	HTD-50
SPECIAL PLAY FUNCTIONS					
Quick Start	•	•	•	•	•
Transfer Bit Rate Indicator	•	•	•	•	•
TERMINALS					
Digital Input					
Coaxial	•	•			
Optical	•	•	• Linez In	• Linez In	•
Digital Output (Optical)	•	•			
Audio (TUNER Included)/Video Inputs	AUX x 3 / - for system cable/AUX x 1	AUX x 3 / - for system cable / AUX x 1	TV x 1 / AUX x 1 AUX OUT x 1	TV x 1 / AUX x 1 AUX OUT x 1	TV x 1 / AUX x 1 AUX OUT x 1
S-Video Input/Output	- / •	- / •	- / •	- / •	- / •
S2 Compatibility	•	•	•	•	•
SATELLITE AND SUBWOOFER SPEAKER SYSTEM					
Magnetically Shielded (Satellite)	•	•	•	•	• (Front, Centre)
Magnetically Shielded (Subwoofer)	•	•			

¹ CD-R/RW DVD-R/RW Playback: Disc may not be played back because of following reasons: recording characteristics of recorder/characteristics of disc/ scratch and dust on disc/dust and condensation on pickup lens or others. CD-R/RW Playback: CD-R/RW discs for Audio, recorded in CD Audio, Video CD or MP3 audio formatting can be played back. Unfinalised discs except CD audio formatting cannot be played back. (however because the TOC (table-of-contents) information is lacking, time display may not be shown). You can play back the unfinalised discs in CD audio formatting with a limited function. DVD-R/RW Playback: DVD-R/RW discs for Video, recorded in Video mode can be played back. Unfinalised discs cannot be played back.

Digital Home Cinema Systems

Specifications

	MS-DV188	MS-DV177	DCS-505	DCS-303	HTD-50
SYSTEM					
Cable length					
DVD Tuner—Display	1.5 m	1.5 m			
DVD Tuner—Subwoofer	5 m	5 m			
Display Unit					
Dimensions	206 x 65 x 50 mm	206 x 65 x 50 mm			
Weight	0.2 kg	0.2 kg			
Remote Control Unit					
Dimensions (W x H x D)	55 x 26 x 190 mm	55 x 26 x 190 mm	55 x 24.5 x 215	55 x 24.5 x 215	59 x 190 x 23 mm
Weight	0.08 kg (without battery)	0.08 kg (without battery)	105g	105g	0.09 kg (without battery)
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 In Use / Standby	166 W / 1 W	166 W / 1 W	195 W / 0.39 W	195 W / 0.39 W	157 W / 1 W
Dimensions (W x H x D)	220 x 65 x 317 mm	220 x 65 x 317 mm	360 x 70 x 393 mm	360 x 70 x 393 mm	420 x 125 x 455 mm
Weight	2.5 kg	2.5 kg	7 kg	7 kg	9.0 kg
AMPLIFIER SECTION					
DIN Continuous Power Output (8 Ω)					
Front (1 kHz, 1 % THD)	30 W/ch (8 Ω, 1 % THD)	30 W/ch (8 Ω, 1 % THD)	59 W/ch (6 Ω, 1 % THD)	59 W/ch (6 Ω, 1 % THD)	65 W/ch (8 Ω, 1 % THD)
Centre (1 kHz, 1 % THD)	30 W (8 Ω, 1 % THD)	30 W (8 Ω, 1 % THD)	59 W (6 Ω, 1 % THD)	59 W (6 Ω, 1 % THD)	24 W (6 Ω, 1 % THD)
Rear (1 kHz, 1 % THD)	30 W/ch (8 Ω, 1 % THD)	30 W/ch (8 Ω, 1 % THD)	59 W/ch (6 Ω, 1 % THD)	59 W/ch (6 Ω, 1 % THD)	24 W/ch (6 Ω, 1 % THD)
Subwoofer (100 Hz, 1 % THD)	50 W (4 Ω, 1 % THD)	50 W (4 Ω, 1 % THD)	59 W/ch (6 Ω, 1 % THD)	59 W/ch (6 Ω, 1 % THD)	65 W (8 Ω, 1 % THD)
RMS Power Output (8 Ω)					
Front (1 kHz, 1 % THD)			75 W/ch (6 Ω, 10 % THD)	75 W/ch (6 Ω, 10 % THD)	87 W/ch (8 Ω, 10 % THD)
Centre (1 kHz, 1 % THD)			75 W (6 Ω, 10 % THD)	75 W (6 Ω, 10 % THD)	33 W (6 Ω, 10 % THD)
Rear (1 kHz, 1 % THD)			75 W/ch (6 Ω, 10 % THD)	75 W/ch (6 Ω, 10 % THD)	33 W/ch (6 Ω, 10 % THD)
Subwoofer (100 Hz, 1 % THD)			75 W (6 Ω, 10 % THD)	75 W (6 Ω, 10 % THD)	87 W (8 Ω, 10 % THD)
CD/DVD PLAYER SECTION					
S/N Ratio (Audio)	100 dB	100 dB	110 dB	110 dB	95 dB
Dynamic Range	97 dB	97 dB	-	-	95 dB
Distortion	0.004 %	0.004 %	0.004 %	0.004 %	0.004 %
Frequency Response					
48 kHz Sampling	4 - 22,000 Hz	4 - 22,000 Hz	4 - 22,000 Hz	4 - 22,000 Hz	4 - 22,000 Hz
96 kHz Sampling	4 - 44,000 Hz	4 - 44,000 Hz	4 - 44,000 Hz	4 - 44,000 Hz	4 - 44,000 Hz
SPEAKER SECTION					
Front Satellite	8.7 cm	8.7 cm	15 x 6 cm + 5.2 cm	8.7 cm	10 cm woofer, 5.2 cm tweeter
Impedance	8 Ω	8 Ω	6 Ω	6 Ω	8 Ω
Frequency Range	100 - 20,000 Hz	100 - 20,000 Hz	70 - 20,000 Hz	100 - 20,000 Hz	50 - 20,000 Hz
Maximum Input Power	40 W	40 W	75 W	75 W	115 W
Sensitivity (1 m/W)	86 dB	86 dB	81 dB	84 dB	85.5 dB
Dimensions (W x H x D)	110 x 154 x 78 mm	110 x 154 x 78 mm	220 x 1250 x 220 mm	110 x 155 x 76 mm	145 x 235 x 204 mm
Weight	0.81 kg	0.81 kg	6.6 kg	0.75 kg	2.0 kg
Centre Satellite	8.7 cm	8.7 cm	8.7 cm	8.7 cm	8.7 cm
Impedance	8 Ω	8 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	70 - 20,000 Hz
Maximum Input Power	40 W	40 W	75 W	75 W	52 W
Sensitivity (1 m/W)	85 dB	85 dB	84 dB	84 dB	84 dB
Dimensions (W x H x D)	210 x 110 x 78 mm	210 x 110 x 78 mm	200 x 110 x 76 mm	200 x 110 x 76 mm	310 x 110 x 76 mm
Weight	0.92 kg	0.92 kg	0.8 kg	0.8 kg	1.0 kg
Rear Satellite	8.7 cm	8.7 cm	8.7 cm	8.7 cm	8.7 cm
Impedance	8 Ω	8 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	90 - 20,000 Hz
Maximum Input Power	40 W	40 W	75 W	75 W	52 W
Sensitivity (1 m/W)	86 dB	86 dB	84 dB	84 dB	83.5 dB
Dimensions (W x H x D)	110 x 154 x 78 mm	110 x 154 x 78 mm	110 x 155 x 76 mm	110 x 155 x 76 mm	110 x 155 x 76 mm
Weight	0.81 kg	0.81 kg	0.75 kg	0.75 kg	0.8 kg
Subwoofer	16 cm	16 cm	16 cm	16 cm	16 cm
Impedance	4 Ω	4 Ω	6 Ω	6 Ω	8 Ω
Frequency Range	31 - 300 Hz	31 - 300 Hz	30 - 2800 Hz	30 - 2800 Hz	30 - 2,000 Hz
Maximum Input Power	65 W	65 W	75 W	75 W	115 W
Sensitivity (1 m/W)	81 dB	81 dB	80 dB	80 dB	82 dB
Dimensions (W x H x D)	190 x 420 x 420 mm	190 x 420 x 420 mm	130 x 360 x 360 mm	130 x 360 x 360 mm	190 x 360 x 327 mm
Weight	14.2 kg	14.2 kg	4.0 kg	4.0 kg	4.8 kg

DVD Players

Features - 1

	DV-939A	DV-757Ai	DV-656A-S/ DV-656A-K	DV-550	DV-454-S/ DV-454-K	DV-350-S/ DV-350-K	DV-U7	PDV-LC20	PDV-20
TECHNICAL FEATURES									
Playback Discs	DVD/VCD/CD/ CD-R ¹ /CD-RW ² / DVD-R ¹ /DVD-RW ¹ DVD-AUDIO	DVD/VCD/CD/ CD-R ¹ /CD-RW ² / DVD-R ¹ /DVD-RW ¹ / DVD-AUDIO SACD/SACD MULTI	DVD/VCD/CD/ CD-R ¹ /CD-RW ² / DVD-R ¹ /DVD-RW ¹ / DVD-AUDIO SACD/SACD MULTI	DVD/VCD/CD/ CD-R ¹ /CD-RW ¹ DVD-R ¹ /DVD-RW ¹	DVD/VCD/CD/ CD-R ¹ /CD-RW ¹ DVD-R ¹ /DVD-RW ¹	DVD/VCD/CD/ CD-R ¹ /CD-RW ¹ DVD-R ¹ /DVD-RW ¹	DVD/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/SVCD/VCD/CD/ CD-R ¹ /CD-RW ¹ DVD-R ¹ /DVD-RW ¹
Disc Capacity	1	1	1	1	1	1	1	1	1
DVD-RW recorded in Video Recording Mode (CPRM)		•	•						
DVD-R/RW recorded in Video Mode	•	•	•	•	•	•	•	•	•
Photo Viewer ²				•	•	•	•	•	•
MP3 ³		•	•	•	•	•	•	•	•
Twin-Wave Laser Pickup	•	•	•	•	•	•	•	•	•
Dual System (PAL/NTSC) (Video output)	•	•	•	•	•	•	•	• 4	•
CONSTRUCTION									
Layered Chassis	• (Triple)	• (Double)							
Acoustic Damper Tray	•								
AUDIO FEATURES									
DVD-Audio Compatibility	•	•	•						
192 kHz/24-bit D/A Converter	• (L/R)	• (6 ch)	• (6 ch)				• (6 ch)		
96 kHz/24-bit D/A Converter	• (C/Ls/Rs/SW)							•	•
Built-in Decoder									
Dolby Digital Decoder (5.1-channel)	•	•	•						
DTS Decoder	•	•	•						
MPEG Multi Decoder	•								
SACD Multi Decoder		•	•						
Hi-bit Conversion	• (L/R)	• (L/R)							
Legato Link Conversion PRO		•	•						
Virtual Dolby Digital		•	•	•	•	•	•	•	•
TruSurround by SRS		•	•	•	•	•	•	•	•
Digital Output	•	•	•	•	•	•	•	•	•
Dolby Digital	•	•	•	•	•	•	•	•	•
DTS	•	•	•	•	•	•	•	•	•
MPEG Audio	•	•	•	•	•	•	•	•	•
Linear PCM	•	•	•	•	•	•	•	•	•
Local regulator for Analogue Audio	•	•	•						
Symmetrical Audio circuit	•								
Digital Out On/Off		•	•	•	•	•	•	•	•
Dynamic Range Control (ON/OFF) (Dolby Digital)		•	•	•	•	•	•	•	•
Bass Management		•	• (except DVD-A, DTS)					•	•
Delay Adjustment		• (except SACD)	• (except SACD)						
VIDEO FEATURES									
PureCinema Progressive Scan (for NTSC)	•	•							
Component Frame DNR PRO	•	•							
Mosquito Noise Reduction	•	•							
Block Noise Reduction	•	•							
Super Fine Focus Digital Filter (540 lines)		•	•						
Fine Focus Digital Filter	•								
User Video Memory Modes (3 modes)	•	•	• (2 modes)						
Gamma Correction		•	•						
Video Adjust	•	•	•						
Trick Play Processor	•	•	• (without memory)						
108 MHz/12-bit D/A Converter		•	•						
27 MHz/10-bit D/A Converter	• (54 MHz)			•	•	•	•	•	•
Horizontal Sharpness (DVD)	•	•							
Progressive 4:3 Resize		•							
Zoom Function			• (still only)	•	•	•	•		
Video OFF		•	•						
CONVENIENCES									
Improved GUI (Graphical User Interface)		•	•	•	•	•	•	•	•
Basic/Expert Mode Selection	•	•	•	•	•	•	•	•	•
Guide Indication	•	•	•	•	•	•	•	•	•
Set-Up Navigator	•	•	•	•	•	•	•	•	•
Disc Navigator	•	•	•	•	•	•	•	•	•
On-Screen Information	•	•	•	•	•	•	•	•	•
Speaker Setting	•	•	•	•	•	•	•	•	•
On-Screen Bit Rate Meter	•	•	•	•	•	•	•	•	•
Special Play Functions									
Program Memory (Title or Chapter)	•	•	•	•	•	•	•	•	•
Resume Function (Stop Key)	•	•	•	•	•	•	•	•	•
Condition Memory (DVD, 15 discs)	•	•	•	•	•	•	•	•	•
Continue Play Memory (Last Memory) (5 DVD's, 1 VCD)	•	•	•	•	•	•	•	•	•
Repeat Mode (All, Title/Chapter, A-B)	•	•	•	•	•	•	•	•	•
Program Play (CD/Track, Video/Chapter, Title)	•	•	•	•	•	•	•	•	•
Still Play (Field/Frame)	•	•	•	•	•	•	•	•	•
Still/Step Play (Forward/Reverse, except VCD reverse)	•	•	•	•	•	•	•	•	•
Slow Play (except VCD reverse)	•	•	•	•	•	•	•	•	•
Random Play	•	•	•	•	•	•	•	•	•
Scan/Search Functions									
10-Key Direct Search and Play (Chapter/Track)	•	•	•	•	•	•	•	•	•
Title Search	•	•	•	•	•	•	•	•	•
Track/Time search	•	•	•	•	•	•	•	•	•
Frame Search	• (DVD)								
Page Search(DVD Audio)		•	•						
Other Special Functions									
Jog & Joystick Remote Control Unit	• 5	• 5							
Heads-Up Remote Control Unit			•	•	•	•	•	•	•
32-Key Card-Type Remote Control Unit			•	•	•	•	•	•	•
On-Screen Display on/off	•	•	•	•	•	•	•	•	•
Large 7-inch Wide LCD Screen								•	•
Reverse-Angle Display								•	•
Built-in Stereo Speaker								•	•
FL Dimmer/Off	•	• (3 steps without off)	• (4 steps)						

DVD Players Features - 2

	DV-939A	DV-757Ai	DV-656A-S/ DV-656A-K	DV-550	DV-454-S/ DV-454-K	DV-350-S/ DV-350-K	DV-U7	PDV-LC20	PDV-20
CONVENIENCES									
Progressive Scan Indicator		•							
i.LINK (IEEE1394) Indicator		•							
Screen Saver		•							
Accurate Digital Servo with Automatic Jitter Adjustment (DVD)	•	•	•	•	•	•	•	•	•
Viterbi-RF Decoding Process (DVD)	•	•	•					•	•
Quick Start		•	•					•	•
Auto Power-Off				•	•	•	•		
TERMINALS									
Euro-SCART	1 (In/Out) 1 (Out)	1 (In/Out) 1 (Out)	1 (In/Out) 1 (Out)	1	1	1	1		
RGB-Y/C Video Output (on Euro-Scart)	1	1	1	1	1	1	1		
i.LINK (IEEE1394)		2							
Component (Y, Pb, Pr)		1 ⁶	1						
DTS 2 ch Down Mix Output		•	•						
S-Video Output	2 ⁶	2 ⁶	2	1	1	1	1	1 ⁷	1 ⁷
Video Output	2 ⁶	2 ⁶	2	1	1	1	1	(yes)	(yes)
5.1-Channel Audio Output	1 ⁶	1 ⁶	1						
Audio Output	2 ⁶	1 ⁶	1 ⁶	1	1	1	1	(yes)	(yes)
Coaxial Digital Output	1 ⁶	1 ⁶	1	1	1	1			
Optical Digital Output	1	1	1	1	1			1 ⁸	1 ⁸
Audio/Video Input (In AV-IN Mode)								1	
Headphone Jack								2	1
CONTROL TERMINALS									
Pioneer System Remote	2 (In/Out)	2 (In/Out)	2 (In/Out)						

- ¹ CD-R/RW DVD-R/RW Playback: Discs may not be played back because of the following reasons: recording characteristics of recorder/characteristics of disc/scratch and dust on disc/dust and condensation on pickup lens or others.
 CD-R/RW Playback: CD-R/RW discs for Audio recorded in CD Audio, Video CD or MP3 audio formatting can be played back. Unfinalised discs except CD Audio formatting cannot be played back. (however because the TOC (table-of-contents) information is lacking, time display may not be shown). You can play back the unfinalised discs in audio formatting with a limited function.
 DVD-R/RW Playback: DVD-R/RW discs for video, recorded in video recording mode cannot be played back. However it can be played back with DV-757Ai and DV-656A. Unfinalised discs cannot be played back.
² JPEG file compatibility: This player is compatible with FUJICOLOR CD and Kodak Picture CD formats, as well as CD-R/RW/ROMs containing JPEG files (up to 999 files). Baseline JPEG and EXIF files up to 8 megapixels are supported (maximum vertical and horizontal resolution is 5120 pixels). The CD-R/RW/ROM containing the JPEG files must be ISO 9660 Level 2 compliant. CD physical format: Mode1, Mode2 XA Form 1.
³ Compatible with MPEG1 Audio Layer3 44.1 kHz and 48 kHz formats. Recording format should be in accordance with ISO9660 CD-ROM file system. MP3 file name requires MP3 or mp3 as an extension. Chinese characters cannot be displayed, although files featuring such names can be played. 250 tracks/folders can be played per disc. Compatible with VBR(Variable Bit Rate)(however time display may not be shown correctly).
⁴ NTSC is converted into artificial PAL format for output. AV input only functions with PAL system.
⁵ With Illumination
⁶ Gold-plated
⁷ Unified with Video Out
⁸ Unified with Audio Out

Note: DVD-Video players and DVD-Video discs have regional code classifications that determine their market area and compatibility. Discs and players must have matching codes in order to be played. All DVD-Video players featured in this catalogue are classified as regional code 2.

DVD Players Specifications

	DV-939A	DV-757Ai	DV-656A-S/ DV-656A-K	DV-550	DV-454-S/ DV-454-K	DV-350-S/ DV-350-K	DV-U7	PDV-LC20	PDV-20
VIDEO CHARACTERISTICS									
Horizontal Resolution (Lines) (DVD)	Over 500	540	540	Over 500	Over 500	Over 500	Over 500	Over 500	Over 500
DIGITAL AUDIO CHARACTERISTICS									
Total Harmonic Distortion	0.001 %	0.0009 %	0.0010 %	0.0016 %	0.0016 %	0.0016 %	0.0016 %	0.03 %	0.03 %
Frequency Response									
48 kHz	4 - 22,000 Hz	4 - 22,000 Hz	4 - 22,000 Hz	4 - 22,000 Hz	4 - 22,000 Hz	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	4 - 44,000 Hz	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	4 - 88,000 Hz						
Signal-to-Noise Ratio	115 dB	118 dB	118 dB	118 dB	118 dB	118 dB	118 dB	108dB	108dB
Dynamic Range	110 dB	108 dB	108 dB	101 dB	101 dB	101 dB	101 dB	88 dB	88 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	220 - 240 V/ 50/60 Hz	220 - 240 V/ 50/60 Hz	220 - 240 V/ 50/60 Hz	100 - 240 V/ 50/60 Hz (AC Adaptor)	100 - 240 V/ 50/60 Hz (AC Adaptor)
Power Consumption	32 W	18 W	14 W	14 W	14 W	14 W	13 W	10 W (Player)	5 W (Player)
Power Consumption (Standby Mode)		0.4 W	0.4 W	0.3 W	0.3 W	0.3 W	0.3 W		
Dimensions (W x H x D)	420 x 130 x 371 mm	420 x 95 x 279 mm	420 x 69 x 277.5 mm	420 x 55 x 281 mm	420 x 55 x 278 mm	420 x 55 x 276 mm	210 x 65 x 311 mm	190 x 25.9 ¹ x 144.5 mm	190 x 15.9 x 142 mm
Weight	9.2 kg	4.3 kg	2.7 kg	2.5 kg	2.5 kg	2.5 kg	1.8 kg	630g	300g

¹ Excluding battery.

A/V Amplifiers & Receivers

Features - 1

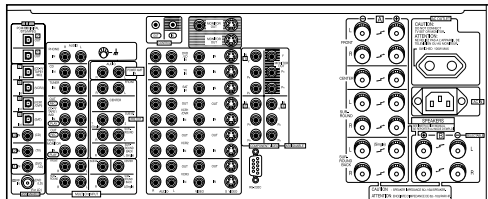
	V5A-Ax10	V5X-D2011-S	V5X-D1011-S/ V5X-D1011-K	V5X-D811-S/ V5X-D811-K	V5X-D711-S/ V5X-D711-K	V5X-D511-S/ V5X-D511-K	V5X-C550-S	V5X-C100-S/ V5X-C100-K
POWER OUTPUT								
RMS* Power (1 kHz, 10% THD, 8 Ω Per channel)		120 W	120 W	120 W	120 W	100 W	40 W (6 Ω)	40 W (6 Ω)
Stereo (DIN)	170 W/ch (1 kHz, 1% THD, 6 Ω)	100 W/ch (1 kHz, 1% THD, 8 Ω)	100 W/ch (1 kHz, 1% THD, 8 Ω)	100 W/ch (1 kHz, 1% THD, 8 Ω)	100 W/ch (1 kHz, 1% THD, 8 Ω)	80 W/ch (1 kHz, 1% THD, 8 Ω)	30 W/ch (1 kHz, 1% THD, 8 Ω)	30 W/ch (1 kHz, 1% THD, 8 Ω)
Surround								
Front	170 W/ch (1 kHz, 1% THD, 6 Ω)	100 W/ch (1 kHz, 1% THD, 8 Ω)	100 W/ch (1 kHz, 1% THD, 8 Ω)	100 W/ch (1 kHz, 1% THD, 8 Ω)	100 W/ch (1 kHz, 1% THD, 8 Ω)	80 W/ch (1 kHz, 1% THD, 8 Ω)	30 W/ch (1 kHz, 1% THD, 8 Ω)	30 W/ch (1 kHz, 1% THD, 8 Ω)
Centre	170 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, 1% THD, 8 Ω)	100 W (1 kHz, 1% THD, 8 Ω)	80 W (1 kHz, 1% THD, 8 Ω)	30 W (1 kHz, 1% THD, 8 Ω)	30 W (1 kHz, 1% THD, 8 Ω)
Rear (Surround)	170 W/ch (1 kHz, 1% THD, 6 Ω)	100 W/ch (1 kHz, 1% THD, 8 Ω)	100 W/ch (1 kHz, 1% THD, 8 Ω)	100 W/ch (1 kHz, 1% THD, 8 Ω)	100 W/ch (1 kHz, 1% THD, 8 Ω)	80 W/ch (1 kHz, 1% THD, 8 Ω)	30 W/ch (1 kHz, 1% THD, 8 Ω)	30 W/ch (1 kHz, 1% THD, 8 Ω)
Surround Back	170 W/ch (1 kHz, 1% THD, 6 Ω)	100 W/ch (1 kHz, 1% THD, 8 Ω)	100 W/ch (1 kHz, 1% THD, 8 Ω)	100 W/ch (1 kHz, 1% THD, 8 Ω)	100 W/ch (1 kHz, 1% THD, 8 Ω)	80 W/ch (1 kHz, 1% THD, 8 Ω)	30 W/ch (1 kHz, 1% THD, 8 Ω)	30 W/ch (1 kHz, 1% THD, 8 Ω)
SURROUND FORMAT								
Dolby Digital	•	•	•	•	•	•	•	•
Dolby Digital EX /THX Surround EX	• (THX surround EX)	• (THX surround EX)	• (THX surround EX)	•	•	•	•	•
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	•	•	•	•	•	•	•	•
THX	• (ULTRA2)	• (Select)	• (Select)	•	•	•	•	•
THX Cinema	•	•	•	•	•	•	•	•
THX Ultra2 Cinema	•	•	•	•	•	•	•	•
THX MusicMode	•	•	•	•	•	•	•	•
MPEG BC	•	•	•	•	•	•	•	•
PIONEER ORIGINAL SURROUND MODE								
Advanced MUSIC	•	•	•	•	•	•	•	•
Advanced MOVIE	•	•	•	•	•	•	•	•
Expanded Theater	•	•	•	•	•	•	•	•
Virtual surround back	•	•	•	•	•	•	•	•
Virtual Surround	•	•	•	•	•	•	•	•
Phones Surround	•	•	•	•	•	•	•	•
GAME Mode	•	•	•	•	•	•	•	•
TV 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	•	•	•	•	•	•	•	•
CONSTRUCTION								
3-D Space Frame Construction	•	•	•	•	•	•	•	•
Isolated Chamber Construction	•	•	•	•	•	•	•	•
Copper-Plated Chassis	•	•	•	•	•	•	•	•
Direct Construction	• (Advanced)	• (Advanced)	• (Advanced)	•	•	•	•	•
Double Layer Chassis	•	•	•	•	•	•	•	•
Trans Stabiliser	•	•	•	•	•	•	•	•
AMPLIFIER DESIGN								
Accurate Imaging System	•	•	•	•	•	•	•	•
Large Capacity Electrolysis Condenser	33,000 µF x 2	22,000 µF x 2	22,000 µF x 2	•	•	•	•	•
Thick Copper Bus-Bar	•	•	•	•	•	•	•	•
Discrete Output (all channels)	• (A.D.E.MOSFET)	• (A.D.E.MOSFET)	• (A.D.E.MOSFET)	•	•	•	•	•
Pioneer Hybrid Amplification (All channels)	•	•	•	•	•	•	•	•
Front L & R Bi-Amplifier Function	•	•	•	•	•	•	•	•
MULTI-CHANNEL ACOUSTIC CALIBRATION SYSTEM (MCACC)								
MCACC	• (with MIC)	• (with MIC)	• (without MIC)	•	•	•	•	•
Acoustic Calibration EQ	9-band (Auto/Manual)	• 5-band (Auto/Manual)	• (Manual)	•	•	•	•	•
Auto Surround Set-Up Trim	•	•	•	•	•	•	•	•
Delay	•	•	•	•	•	•	•	•
Speaker System	•	•	•	•	•	•	•	•
AUDIO FEATURES								
DSP (Digital Signal Processor)	Sharc 32-bit x 2, 48-bit (24-bit double precision)	• 24-bit x 2	• 24-bit x 2	•	•	•	•	•
192 kHz/24-Bit D/A Converter	•	•	•	•	•	•	•	•
96 kHz/24-Bit D/A Converter	•	•	•	•	•	•	•	•
96 kHz/24-Bit A/D Converter (multi-channel)	•	•	•	•	•	•	•	•
96 kHz/24-Bit A/D Converter (2-channel)	•	•	•	•	•	•	•	•
Audio Scaler	•	•	•	•	•	•	•	•
Precision Gain Management (PGM) Volume Control	•	•	•	•	•	•	•	•
Analogue Down Mixing for Centre Channel	•	•	•	•	•	•	•	•
DNR (Digital Noise Reduction)	•	•	•	•	•	•	•	•
Midnight Listening Mode	•	•	•	•	•	•	•	•
Quiet Mode	•	•	•	•	•	•	•	•
Natural	•	•	•	•	•	•	•	•
Bright	•	•	•	•	•	•	•	•
Source Direct	•	•	•	•	•	•	•	•
Bass/Treble Tone Controls	+/- 6 dB (100 Hz/10 kHz)	•	•	•	•	•	•	•
Loudness	•	•	•	•	•	•	•	•
S Bass	•	•	•	•	•	•	•	•

A/V Amplifiers & Receivers

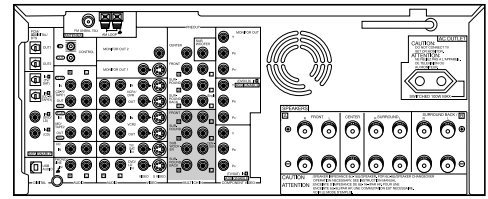
Features - 2

	VSA-AX10	VSX-D2011-S	VSX-D1011-S/ VSX-D1011-K	VSX-D811-S/ VSX-D811-K	VSX-D711-S/ VSX-D711-K	VSX-D511-S/ VSX-D511-K	VSX-C550-S	VSX-C100-S/ VSX-C100-K
VIDEO FEATURES								
Video Signal Selector	•	•	•	•	•	•	•	•
Video Converter	•							
CONVENIENCES								
On-Screen Display (GUI)	•	•						
Remote Control	LCD Touch Panel LCD & Preset & Learning	LCD & Preset & Learning	Preset & Learning	Preset & Learning	Preset	SR	Preset	Preset
Multi-Operation System (Macro)	•	•	•					
Remote Control Illumination	LCD	•	•			•		
DVD Control	•	•	•	•	•			
Satellite Tuner Control	•	•	•	•	•			
MCD Control	•	•	•	•	•			
DTV Control	•	•	•	•	•			
Function Rename		•	•					
FL Dimmer	4 steps	•	•	•	•	•	•	•
Sleep Timer								
AMX Ready (RS-232C)	•							
TUNER								
RDS (Radio Data System)		•	•	•	•	•	•	•
Random Preset Stations		30	30	30	30	30	30	30
TERMINALS								
USB		•						
Multi-Channel Input	7.1 ch	7.1 ch	7.1 ch	7.1 ch (DVD)	5.1 ch (DVD)	5.1 ch (DVD)		
RF Input for Dolby Digital (Demodulator)	•							
Digital Input	8 (assign)	5 (assign)	4 (assign)	5 (assign)	3 (assign)	3 (assign)	4 (assign)	4 (assign)
Coaxial	3	2	2	2	2	2	1	1
Optical	5 (includes Front in)	3 (front 1)	2	3 (front 1)	1	1	3 (front 1)	3 (front 1)
Digital Output (Optical)	2	2	2	1	1	1		
Audio (TUNER Included)/Video Inputs	5A / 7AV	5A / 5AV	5A / 5AV	4A / 4AV	4A / 4AV	3A / 3AV	1A / 4AV	1A / 4AV
Audio/Video Output	2A / 3AV + 2V	2A / 2AV + 2V	2A / 2AV + 1V	1A / 1AV + 1V	1A / 1AV + 1V	1A / 1AV + 1V	1AV + 2V	1AV + 2V
Phono Input	•	•	•					
S-Video Input/Output	7/4 (includes Front in)	5/3 (includes Front in)	5/3 (includes Front in)	4/2 (includes Front in)	4/2 (includes Front in)	3/2		
Component Input/Output	3/1 (assign)	2/1 (assign)						
Preamp Output	• All (7.1 ch)	• All (7.1 ch)	• All (7.1 ch)	• All (6.1 ch)	• (C/SW)	• (SW)	• (SW)	• (SW)
Power Amp Input	FL/FR							
A/V Input on Front	•	•	•	•	•	•	•	•
SR (System Remote) Terminal	• (In/Out)	• (In/Out)	• (In/Out)	• (Out)	• (Out)	• (Out)	• (In/Out)	• (In/Out)
Speaker A/B	Versatile Speaker Configuration	Versatile Speaker Configuration	Versatile Speaker Configuration	Independent	Independent	A only	A only	A only
Large Speaker Terminals	• (All)	• (All)	• (All)	• (All)	• (All)			

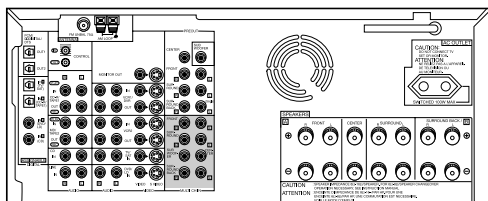
A/V Amplifiers & Receivers Rear Panels



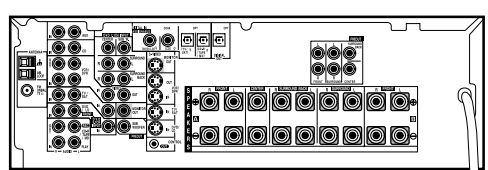
VSA-AX10



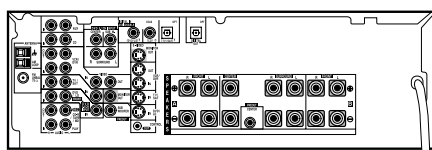
VSX-D2011-S



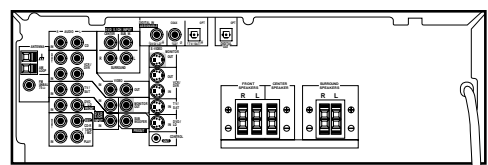
VSX-D1011-S/VSX-D1011-K



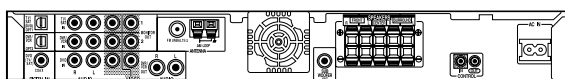
VSX-D811-S/VSX-D811-K



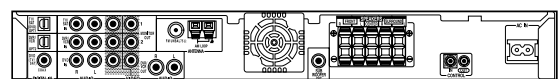
VSX-D711-S/VSX-D711-K



VSX-D511-S/VSX-D511-K



VSX-C550-S

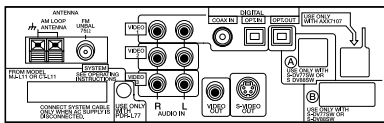


VSX-C100-S/VSX-C100-K

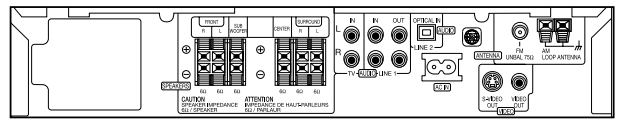
A/V Amplifiers & Receivers Specifications

	VSA-AX10	VSX-D2011-S	VSX-D2011-S/ VSX-D1011-K	VSX-D811-S/ VSX-D811-K	VSX-D711-S/ VSX-D711-K	VSX-D511-S/ VSX-D511-K	VSX-C550-S	VSX-C100-S/ VSX-C100-K
AMPLIFIER SECTION								
Rated Power Output	150 W + 150 W 20 - 20 kHz, 0.09 %, 6 Ω	100 W + 100 W 20 - 20 kHz, 0.09 %, 8 Ω	100 W + 100 W 20 - 20 kHz, 0.09 %, 8 Ω	100 W + 100 W 40 - 20 kHz, 0.2 %, 8 Ω	100 W + 100 W 40 - 20 kHz, 0.2 %, 8 Ω	80 W + 80 W 40 - 20 kHz, 0.2 %, 8 Ω		
DIN Continuous Power Output (1 kHz, THD 1 %)								
Stereo	170 W/ch (6 Ω)	100 W/ch (8 Ω)	100 W/ch (8 Ω)	100 W/ch (8 Ω)	100 W/ch (8 Ω)	80 W/ch (8 Ω)	30 W/ch (8 Ω)	30 W/ch (8 Ω)
Surround								
Front Channels	170 W/ch (6 Ω)	100 W/ch (8 Ω)	100 W/ch (8 Ω)	100 W/ch (8 Ω)	100 W/ch (8 Ω)	80 W/ch (8 Ω)	30 W/ch (8 Ω)	30 W/ch (8 Ω)
Centre Channel	170 W (6 Ω)	100 W (8 Ω)	100 W (8 Ω)	100 W (8 Ω)	100 W (8 Ω)	80 W (8 Ω)	30 W (8 Ω)	30 W (8 Ω)
Rear Channels	170 W/ch (6 Ω)	100 W/ch (8 Ω)	100 W/ch (8 Ω)	100 W/ch (8 Ω)	100 W/ch (8 Ω)	80 W/ch (8 Ω)	30 W/ch (8 Ω)	30 W/ch (8 Ω)
Surround Back Channel	170 W/ch (6 Ω)	100 W (8 Ω)	100 W (8 Ω)	100 W (8 Ω)				
Input (Sensitivity/Impedance)								
PHONO (MM)	4.7 mV/47 kΩ	4.7 mV/47 kohms						
Line (DVD, CD, etc)	382 mV/47 kΩ	335 mV/47 kohms	335 mV/47 kohms	200 mV/47 kΩ	200 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						
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	5 - 100,000 Hz +0 dB, -3 dB
Signal-to-Noise Ratio (DIN; continuous rated power output/50 mW)								
PHONO (MM)	70/68 dB							
Line	93/73 dB	92/65dB	92/65dB	88/64 dB	88/64 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)	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)	15.2 dBf, IHF (1.6 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	1.1 μV
Stereo (46 dB S/N, 75 Ω)		50 μV	50 μV	50 μV	50 μV	50 μV	50 μV	50 μV
Signal-to-Noise Ratio								
Mono (DIN)		76 dB (at 85 dBf)	76 dB (at 85 dBf)	62 dB	62 dB	62 dB	62 dB	62 dB
Stereo (DIN)		72 dB (at 85 dBf)	72 dB (at 85 dBf)	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	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	1 V p-p/75 Ω
COMPONENT VIDEO								
Frequency Response (720p compatible)	5 Hz - 40 MHz +0 dB, -3 dB	5 Hz - 40 MHz +0 dB, -3 dB	5 Hz - 40 MHz +0 dB, -3 dB					
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 (UK 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	660 W	600 W	600 W	280 W	250 W	220 W	120 W	120 W
Power Consumption in standby mode	0.65 W	0.7 W	0.7 W	1 W	1 W	1 W	1 W	1 W
Dimensions (W x H x D)	440 x 203 x 472 mm	420 x 188 x 464 mm	420 x 188 x 464 mm	420 x 158 x 401 mm	420 x 158 x 401 mm	420 x 158 x 393 mm	420 x 65 x 319 mm	420 x 65 x 319 mm
Weight	29.3 kg	19.6 kg	18.2 kg	10.0 kg	10.0 kg	9.0 kg	4.8 kg	4.8 kg

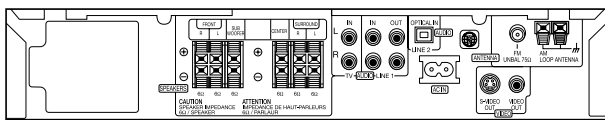
Home Cinema Systems Rear Panels



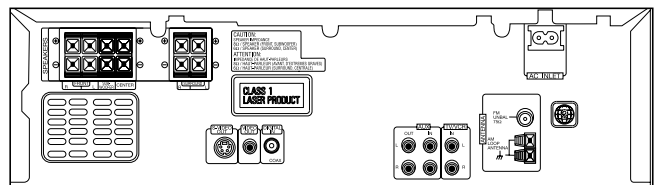
NS-DV88/NS-DV77



DCS-505



DCS-303



HTD-50

A/V Speakers Specifications - 1

	S-V170-II	S-V150A	S-V150-II-QL/ S-V150-II-K	S-V159-II	S-V140	S-V152-QL/ S-V152-W
SYSTEM						
Centre speakers	compact	compact	compact	compact	compact	compact
Front speakers	satellite	satellite	satellite	satellite	satellite	satellite
Rear speakers	satellite	satellite	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 (x 2)	5.2 cm cone woofer (x 2)	10 cm dual-cone	9 cm cone type	8.3 cm cone type
Centre	7.7 cm cone woofer (x 2), 2 cm dome tweeter	5.2 cm cone woofer (x 2)	5.2 cm cone woofer (x 2)	10 cm cone woofer (x 2), 2.5 cm dome tweeter	9 cm cone type	8.3 cm cone type
Rear	7.7 cm cone woofer (x 2), 2 cm dome tweeter	5.2 cm cone woofer (x 2)	5.2 cm cone woofer (x 2)	10 cm dual-cone	9 cm cone type	8.3 cm cone type
Subwoofer Module	22 cm cone woofer	22 cm cone woofer	22 cm cone woofer	22 cm cone woofer	14 cm cone woofer	22 cm cone woofer
Front Bass-reflex type enclosure	•	•	•	•	•	•
Built-in Amplifier	•	•	•	•	•	•
Stereo (Screw Terminal)	•	•	•	•	•	•
Mono (Pin Jack)	•	•	•	•	•	•
Power Consumption (for max. output power)	300 W	210 W	210 W	210 W	35 W	210 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*		2.0 V + 2.0 V/15 kΩ*
Line level (RCA Jack)	200 mV/50 kΩ	200 mV/50 kΩ	200 mV/50 kΩ	200 mV/50 kΩ	160 mV/50 kΩ	200 mV/50 kΩ
Impedance	8 Ω	8 Ω	8 Ω	8 Ω	8 Ω	8 Ω
Frequency Range	60 – 40,000 Hz (front) 60 – 40,000 Hz (rear) 62 – 42,000 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)	90 – 20,000 Hz (front) 90 – 20,000 Hz (rear) 80 – 20,000 Hz (centre) 30 – 200 Hz (subw)	60 – 20,000 Hz (front) 60 – 20,000 Hz (rear) 60 – 35,000 Hz (centre) 30 – 200 Hz (subw)	100 – 20,000 Hz (front) 100 – 20,000 Hz (rear) 100 – 20,000 Hz (centre) 40 – 200 Hz (subw)	80 – 20,000 Hz (front) 80 – 20,000 Hz (rear) 80 – 20,000 Hz (centre) 30 – 200 Hz (subw)
Sensitivity (1 m/W)	89 dB/W	88 dB/W	88 dB/W	90 dB/W	88 dB/W (sat)	89 dB/W
Maximum Power	130 W (satellite) 150 W (subw) RMS	100 W (satellite) 110 W (subw) RMS	100 W (satellite) 110 W (subw) RMS	100 W (satellite) 110 W (subw) RMS	80 W (satellite) 50 W (subw) RMS	80 W (satellite) 110 W (subw) RMS
DIMENSIONS (W x H x D)						
Front	150 x 300 x 70 mm	130 x 200 x 59 mm	130 x 200 x 59 mm	150 x 190 x 90 mm	100 x 160 x 70,5 mm	110 x 220 x 78 mm
Rear	300 x 150 x 70 mm	130 x 200 x 59 mm	130 x 200 x 59 mm	150 x 190 x 90 mm	100 x 160 x 70,5 mm	110 x 220 x 78 mm
Centre	150 x 300 x 70 mm	240 x 94 x 97 mm	240 x 94 x 97 mm	440 x 150 x 110 mm	100 x 160 x 70,5 mm	220 x 110 x 78 mm
Subwoofer	280 x 480 x 495 mm	250 x 480 x 475 mm	250 x 480 x 475 mm	250 x 480 x 475 mm	165 x 360 x 284 mm	250 x 480 x 475 mm
WEIGHT						
Front	2.7 kg	0.9 kg	0.9 kg	1.3 kg	0.62 kg	0.8 kg
Rear	2.7 kg	0.9 kg	0.9 kg	1.3 kg	0.62 kg	0.8 kg
Centre	2.7 kg	0.9 kg	0.9 kg	3 kg	0.62 kg	0.8 kg
Subwoofer	19.7 kg	14.2 kg	14.2 kg	14.2 kg	7.3 kg	14.2 kg

A/V Speakers Specifications - 2

	S-V1510	S-V1310-QL	S-V1230-QL/ S-V1230-W	S-W150S	S-W110S-QL/ S-W110S-K	S-W140S
SYSTEM						
Centre speakers	compact	compact	compact			
Front speakers	floor-standing	floor-standing	floor-standing			
Rear speakers	satellite	satellite	satellite			
Magnetically shielded for video use	•	•	•			
Front	14 cm cone woofer (x 3), 2.5 cm dome tweeter	14 cm cone woofer (x 2), 2.5 cm dome tweeter	13 cm cone woofer, 7 cm cone midrange, 2.5 cm dome tweeter			
Centre	10 cm cone woofer (x 2), 2.5 cm dome tweeter	8.3 cm cone type	8.3 cm cone type			
Rear	10 cm dual-cone	8.3 cm cone type	8.3 cm cone type			
Subwoofer Module				22 cm cone woofer	22 cm cone woofer	14 cm cone woofer
Front Bass-reflex type enclosure	•	•	•	•	•	•
Built-in Amplifier	•	•	•	•	•	•
Stereo (Screw Terminal)	•	•	•	•	•	•
Mono (Pin Jack)	•	•	•	•	•	•
Power Consumption (for max. output power)				300 W	210 W	35 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	200 mV/50 kΩ	160 mV/50 kΩ
Impedance	8 Ω	8 Ω	8 Ω			
Frequency Range	30 – 35,000 Hz (front) 60 – 20,000 Hz (rear) 60 – 35,000 Hz (centre)	35 – 35,000 Hz (front) 80 – 20,000 Hz (rear) 80 – 20,000 Hz (centre)	40 – 20,000 Hz (front) 80 – 20,000 Hz (rear) 80 – 20,000 Hz (centre)	30 – 200 Hz	30 – 200 Hz	40 – 200 Hz
Sensitivity (1 m/W)	90 dB/W	90 dB/W (Front) 89 dB/W (Rear, Centre)	89 dB/W			
Maximum Power	100 W	100 W (front) 80 W (rear, centre)	80 W	150 W RMS	110 W RMS	50 W RMS
DIMENSIONS (W x H x D)						
Front	251 x 1,030 x 422 mm (with base) 185 x 1,000 x 390 mm (without base)	240 x 925 x 345 mm (with base) 184 x 900 x 318 mm (without base)	160 x 850 x 271 mm			
Rear	150 x 190 x 90 mm	110 x 220 x 78 mm	110 x 220 x 78 mm			
Centre	440 x 150 x 110 mm	220 x 110 x 78 mm	220 x 110 x 78 mm			
Subwoofer				280 x 480 x 495 mm	250 x 480 x 475 mm	165 x 360 x 284 mm
WEIGHT						
Front	18.5 kg	11.5 kg	6.8 kg			
Rear	1.3 kg	0.8 kg	0.8 kg			
Centre	3 kg	0.8 kg	0.8 kg			
Subwoofer				19.7 kg	14.2 kg	7.3 kg

Plasma TV Specifications

PDP-503HDE

PDP-433HDE

PICTURE	PDP-503HDE	PDP-433HDE
Screen Size	50-inch	43-inch
Aspect Ratio	16:9	16:9
Number of Pixels	1,280 (Hor) x 768 (Ver)	1,024 (Hor) x 768 (Ver)
Brightness	900 cd/m2	1000 cd/m2
Contrast Ratio	9000:1	10000:1
Viewing Angle	more than 160° (Hor/Ver)	more than 160° (Hor/Ver)
3 Line Digital Comb Filter	PAL/NTSC-M (Main & Sub)	PAL/NTSC-M (Main & Sub)
Video Signals	PAL/SECAM/NTSC3.58/NTSC4.43/PAL60	PAL/SECAM/NTSC3.58/NTSC4.43/PAL60
PC Signals	VGA/SVGA/XGA/Wide XGA	VGA/SVGA/XGA/True XGA
Dual Screen ¹	•	•
Still Picture (Sub Screen)	•	•
Digital Enhancer Hor / Ver	• / •	• / •
100 Hz Progressive Scan	•	•
CTI (Colour Transient Improvement)	•	•
Dynamic Gamma Correction	•	•
Black Level Expansion	• (3 steps)	• (3 steps)
Colour Temperature Adjustment	• (5 steps)	• (5 steps)
PureCinema ¹	• (on/off)	• (on/off)
Black & White Mode	• (on/off)	• (on/off)
AV Selection (Programmed Picture)	• (STD/Dynamic/Movie/Game/User)	• (STD/Dynamic/Movie/Game/User)
TUNER		
Reception System	PAL BG/I/DK, SECAM BG/DK/L/L'	PAL BG/I/DK, SECAM BG/DK/L/L'
Stereo / Dual Sound	NICAM UK/SK/FR, CCIR A2 BG/DK	NICAM UK/SK/FR, CCIR A2 BG/DK
Auto Channel Preset	•	•
Auto Channel Labeling	•	•
Auto Channel Sort	•	•
Number of Preset Channels	99	99
Teletext	CEEFAX/FLOF/TOP (with TOP Over View Page)	CEEFAX/FLOF/TOP (with TOP Over View Page)
Number of Languages	25	25
Page Memory	252 pages	252 pages
Picture and Text (Dual Screen)	•	•
CONTROL		
OSD	High-Quality Font	High-Quality Font
Number of Languages	12 (GB/D/F/NL/I/E/P/S/FIN/GR/TR/RUS)	12 (GB/D/F/NL/I/E/P/S/FIN/GR/TR/RUS)
Remote Controller	SR	SR
Energy Save mode (for AV and PC)	• (on/off)	• (on/off)
Auto Power Off (for AV)	• (on/off)	• (on/off)
Power Management (for PC)	• (mode 1 & 2/off)	• (mode 1 & 2/off)
i/oLink.A	•	•
AUDIO		
Audio Output Power	12 W + 12 W (Music Power, 8 ohms)	12 W + 12 W (Music Power, 8 ohms)
Tone Control	Bass, Treble, Balance	Bass, Treble, Balance
Surround Sound	FOCUS ² , SRS ²	FOCUS ² , SRS ²
CONNECTION TERMINALS		
Input 1 (SCART)	AV In, RGB In, TV Out	AV In, RGB In, TV Out
Input 2 (SCART)	AV In/Out, S Input, i/o Link.A	AV In/Out, S Input, i/o Link.A
Input 3 (SCART / Component)	AV In/Out, RGB In, S in, Y/Pb/Pr In (RCA pin)	AV In/Out, RGB In, S in, Y/Pb/Pr In (RCA pin)
Monitor Out (RCA pin)	AV Out, S Out	AV Out, S Out
Input 4 (Front)	AV Input, S Input	AV Input, S Input
PC (Front)	D-sub15 In, Stereo Mini jack (Audio)	D-sub15 In, Stereo Mini jack (Audio)
SR Control In/Out	Mini Jack x 2	Mini Jack x 2
Others	Antenna terminal (DIN) System Connection x 2 (for connecting PDP screen and media receiver) Speaker Out L/R (Display Rear, 8 – 16 ohms)	Antenna terminal (DIN) System Connection x 2 (for connecting PDP screen and media receiver) Speaker Out L/R (Display Rear, 8 – 16 ohms)
GENERAL		
Dimensions Display (W x H x D)	1,218 x 714 x 98 mm	1,070 x 630 x 98 mm
Media Receiver (W x H x D)	420 x 70 x 332 mm	420 x 70 x 332 mm
Weight (Display)	38.9 kg	31.5 kg
(Media Receiver)	4.4 kg	4.4 kg
Power Consumption (Total)	396 W (Stand-by 1.4 W)	360 W (Stand-by 1.4 W)
Power Requirements	AC 220-240 V, 50/60 Hz	AC 220-240 V, 50/60 Hz

¹ This function is not available under the following conditions: 1) PC INPUT mode 2) two pictures from the same source (e.g. INPUT 1 and INPUT 2) 3) images from high frequency signal source 4) two pictures with different vertical frequencies (e.g. PAL and PAL-60)

Plasma TV Features

Media receiver

- Analogue TV tuner
- Teletext
- Nicam stereo
- Dual Screen display ¹ (the screen can be split to enjoy two inputs at the same time)
- AV selection (Programmed picture quality mode selection)
- Five preset screen modes (4:3, Full, Zoom, Cinema 14:9, Wide)
- Colour temperature adjustment
- PureCinema (NTSC only)
- FOCUS ² and SRS ² create a completely immersive sound image
- Built-in amplifier for optional speakers
- Child Lock

Plasma display

- PDP-503HDE: large 50-inch/127 cm screen
- PDP-433HDE: large 43-inch/109 cm screen
- Wide screen 16:9 aspect ratio
- 160-degree viewing angle – no one misses the action
- 100 Hz flicker-free, progressive scanning
- Ultra-slim – ideal to hang on the wall – less than 10 cm deep
- Outstanding brightness, improved contrast and stunning picture quality
- Noise-free: there is no fan, so nothing disturbs the silence of film scenes

Conveniences

- Easy to set up: 1 cable connection between display and media receiver
- Auto installation (Auto channel preset, etc.)
- Smart OSD (On-Screen Display)
- PC Input up to True XGA
- Energy save mode and Auto power off
- i/oLink.A system for easy and advanced operation of external video recording equipment

² FOCUS and SRS (●) are trademarks of SRS Labs, Inc.

CD Recorders Features

PDR-WB59

PDR-609

DRIVE	PDR-WB59	PDR-609
CD-R	Single-tray	Single-tray
CD	3-CD	-
Applicable Discs	CD/CD-R/CD-RW	CD/CD-R/CD-RW
DIGITAL FEATURES		
D/A Converter	24-bit D/A Converter	24-bit D/A Converter
A/D Converter	24-bit 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)	• (-∞ ~ +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)	-24 ~ 78 dB (6 dB Step)
Auto Track Increment Level Adjustment(Analogue)	-24 ~ 66 dB (6 dB Step)	-24 ~ 66 dB (6 dB Step)
Auto Time Increment	• (1, 3, 5 Seconds)	• (1, 3, 5 Seconds)
Manual Track Increment	•	•
Input Selector (Digital Coaxial / Optical Analogue)	• (Coax/Opt/Analogue)	• (Coax/Opt/Analogue)
Finalise (TOC Write)	•	•
Sampling Monitor	•	•
Fade-in / Fade out	• (1 ~ 12 sec)	• (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 Text Display	•	•
CD Text Input		
Characters	Caps/Small/Mark/Numeric	Caps/Small/Mark/Numeric
Disc Name	•	•
Artist Name	•	•
Track Name	•	•
Name Clip	• (3 Names)	• (3 Names)
Name Memory	• (3 Discs)	• (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)	• (1 ~ 12 sec)
Timer Play	•	•
DISPLAY		
Level Meter	• (14 seg/ch)	• (14 seg/ch)
Remaining Recording Time	•	•
Display On / Off (Dimmer)	•	•
Time Display Switching	•	•
TERMINALS		
Optical Digital Input/Output	1/1	1/1
Coaxial Digital Input/Output	1/1	1/1
Line Input/Output	1/1	1/1
Headphone Jack	1	1
Keyboard Terminal	1	1
Control Input	1	1
TEXT Control	1	1

CD Recorders Specifications

	PDR-WB59	PDR-609
COMPACT DISC RECORDER		
Number of Channels	2	2
Frequency Response	2 – 20,000 Hz	2 – 20,000 Hz
Sampling Frequency (Recording/Playback)	44.1 kHz	44.1 kHz
Signal-to-Noise Ratio		
Recording	92 dB	92 dB
Playback	112 dB	112 dB
Dynamic Range (EIAJ)		
Recording	92 dB	92 dB
Playback	98 dB	98 dB
Total Harmonic Distortion (1 kHz)		
Recording	0.004 %	0.004 %
Playback	0.0017 %	0.0017 %
MISCELLANEOUS		
Power Requirements		
Power Consumption	17 W	13 W
Dimensions (W x H x D)	420 x 128 x 380 mm	420 x 105 x 295 mm
Weight	5.7 kg	3.5 kg
COMPACT DISC PLAYER		
Frequency Response	2 – 20,000 Hz	
Signal-to-Noise Ratio	112 dB	

MiniDisc Recorders Features

	MJ-D508	MJ-L11
DIGITAL FEATURES		
Legato Link Conversion	•	
RECORDING FUNCTIONS		
Recording Volume Control		
Analogue	• (single)	
Digital	• (full fs)	
Fader (5 sec.)	• (full fs)	
Digital REC Volume Memory	•	
Sampling Rate Converter	•	
Advanced Parameter Processing	•	
Digital NR (Noise Reduction)	•	
Monaural Long Time Mode	•	
Level Synchro Recording (1-Track/All)	•	
Space Cut	•	
Automark (3-step)	•	
Recovery Recording (6 sec.)	•	
Timer Recording	•	
PLAYBACK OPTIONS		
Digital NR (Noise Reduction)	•	
Fader (5 sec.)	•	
DAC Mode (Digital Volume/Digital NR)	•	
Monaural x 2 Playback	•	
Time Skip (60/15 sec.)	•	
Medley Playback (Fade-out: 2 sec/Cut: 10 sec.)	•	
Programme Play	30	24
Random Play	•	•
Repeat Play (1/All/A-B)	•	•
A-B Repeat	•	
Timer Play (Fader/Programme)	•	
EDIT FUNCTIONS		
Title Input (Name Input)	•	
	(40 x 3 names)	
Move (Track/Programme)	•	
Combine (Track/A-B)	•	
Divide	•	
Erase (All/1-track/A-B)	•	
Undo	•	
UTOC Write	•	
TERMINALS		
Analogue Input (RCA Pin Jack)	1	
Digital Input (Optical/Coaxial)	1/1	1/0
Analogue Output (RCA Pin Jack)	1	
Digital Output (Optical)	1	
Headphone Output (with Volume)	1	

MiniDisc Recorders Specifications

	MJ-D508	MJ-L11
Frequency Response	8 – 20,000 Hz	20 – 20,000 Hz
Signal-to-Noise Ratio (EIAJ)	100 dB	96 dB
Power Requirements	220 – 230 V 50 – 60 Hz	220 – 230 V 50 – 60 Hz
Power Consumption	15 W	11 W
Dimensions (W x H x D)	420 x 105 x 294 mm	220 x 65 x 313 mm
Weight	3.5 kg	2.5 kg

Note: MD LP discs will only play on MD LP compatible players.

CD File-Type Players & Multi CD Players Features

	PD-F1009	PD-F1007	PD-F958	PD-F706	PD-F607	PD-M603 (UK only)	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	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						• (2)	•	•
Single Disc	•	•	•	•	•			
All Discs	•	•	•	•	•			
"Custom File" Discs	•	•	•	•	•			
Programmed Play (Tracks/Discs)	36	36	36	24	32	32	32	32
Total Time Display	•	•	•	•	•			
Repeat Modes	8	8	8	8	8	7	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 Synchron	•	•	•	•	•	•		
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 300CD's 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-M603 (UK only)	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	2 – 20,000 Hz
Signal-to-Noise Ratio (EIA)	105 dB	98 dB	98 dB	98 dB	98 dB	102 dB	98 dB	98 dB
Dynamic Range (EIA)			96 dB	96 dB	95 dB		95 dB	96 dB
Channel Separation (EIA)								95 dB
Distortion (EIA)			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
Power Consumption	12 W			14 W	13 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 299 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	3.8 kg	3.7 kg	3.7 kg

CD Player Features

PD-S707

FORMAT	
Disc Capacity	1
WIDE-RANGE TECHNOLOGY	
Hi-bit Legato Link Conversion	•
DIGITAL FEATURES	
DAC 24 (Jitter Proof 24-bit D/A Converter)	•
STRUCTURAL DESIGNS	
Stable Platter Mechanism	•
Centre Tray Mechanism	•
LOW-NOISE DESIGNS	
Accurate Transmission System	•
Low-Loss Laser Pickup	•
Display Off Switch	•
PLAYBACK OPTIONS	
Edit Modes	
Compu-PGM	•
Auto Programme	•
Random Play Modes	• ¹
Programmed Play (Tracks/Discs)	24
Repeat Modes	• (6)
CONVENIENCES	
Time Location	• ¹
CD-Deck Synchro	•
Remote Control Unit with Power On/Off	•
Digital Level Control	• ¹
Hi-Lite Scan	•
Jog Dial Track Search	•
Direct Track Access by Number Keypad	• ¹
Timer Play (Timer Optional)	•
Music Calendar	•
TERMINALS	
Digital Output (O = Optical/C = Coaxial)	0
Digital Output On/Off	•
Headphone Output with Volume Control	•
ANTI-RESONANCE AND ANTI-VIBRATION DESIGNS	
Double Layered Chassis	•
Large Insulators	•

¹ Remote control

CD Player Specifications

PD-S707

Frequency Response	2 – 20,000 Hz
Frequency Range Capability	2 – 40,000 Hz ¹
Signal-to-Noise Ratio (EIA)	110 dB
Dynamic Range (EIA)	99 dB
Distortion (EIA)	0.002 %
Power Requirements	220 – 230 V, 50 – 60 Hz
Power Consumption	14 W
Dimensions (W x H x D)	420 x 128 x 374 mm
Weight	7.2 kg

¹ With HI-bit Legato Link Conversion.

Integrated Amplifiers Specifications

A-607R

A-509R

A-307R

A-209R

A-109

AMPLIFIER SECTION	A-607R	A-509R	A-307R	A-209R	A-109
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 – 100,000 Hz 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

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, TAPE 1/MD	TAPE1/ CD-R/MD			
Gold-Plated CD/Phono Inputs	•				
CONVENIENCES					
SR (System Remote) Control Unit	•	•	•	•	
Record Selector	•	•			
Two-Way Dubbing	•	•	•	•	•
4-letter Station Memory					
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)	•	•	•	•	
A/B or A+B					

Cassette Decks Specifications

	CT-W806DR	CT-W606DR	CT-W505R	CT-W208R	CT-S250
Number of Motors	4	2	2	2	1
Type of Heads					
Playback Head		1	1	1	
Recording/Playback Head	2	1	1	1	1
Erasing Head	2	1	1	1	1
Wow and Flutter	WRMS 0.09 %	0.09 %	0.09 %	0.09 %	0.07 %
DIN	± 0.19 %	± 0.19 %	± 0.19 %	± 0.19 %	± 0.18 %
Frequency Response (-20 dB)					
Type IV (Metal Tape)	2 – 20,000 Hz	20 – 20,000 Hz	20 – 16,500 Hz	20 – 16,500 Hz	20 – 18,000 Hz
Type II (Chrome Tape)	20 – 19,000 Hz	20 – 19,000 Hz	20 – 16,000 Hz	20 – 16,000 Hz	20 – 17,000 Hz
Type I (Normal Tape)	20 – 18,000 Hz	20 – 18,000 Hz	20 – 16,000 Hz	20 – 16,000 Hz	20 – 17,000 Hz
Signal-to-Noise Ratio					
Digital NR (with Dolby B/C NR)	90 dB	90 dB		57 dB	
Digital NR (without Dolby NR)	82 dB	82 dB		57 dB	
Digital NR/Dolby NR Off	57 dB	57 dB	57 dB	57 dB	57 dB
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	25 W	19 W	17 W	16 W	16 W
Dimensions (W x H x D)	420 x 125 x 250 mm	420 x 125 x 250 mm	420 x 125 x 250 mm	420 x 125 x 250 mm	420 x 125 x 280 mm
Weight	4.7 kg	4.4 kg	4 kg	3.8 kg	3.5 kg

Cassette Decks Features

	CT-W806DR	CT-W606DR	CT-W505R	CT-W208R	CT-S250
WIDE-RANGE TECHNOLOGY					
20-bit A/D-D/A Converter	•	•			
Legato Link Conversion	•				
MECHANICAL FEATURES					
Centre Mount Design					•
AUDIO FEATURES					
Digital Noise Reduction	•	•			
FLEX (Frequency Level Expander)	• (digital)	• (digital)	•		•
ALCA (Auto Level Control with Tape Analysis)	• (digital)		•		
TDNS (Tape Duplication Noise Suppressor)	• (digital)	• (digital)	•		
Super Auto BLE XD	• (digital)	• (digital)			
Auto BLE			•		
Dolby Noise Reduction	B/C	B/C	B/C	B/C	B/C
Dolby HX Pro	•	•	•		
LOW-NOISE FEATURES					
Display Off Switch					•
ANTI-RESONANCE AND ANTI-VIBRATION DESIGNS					
Honeycomb Chassis	•	•	•	•	•
CONVENIENCES					
Double Cassette Conveniences	•	•	•	•	•
Auto-Reverse (R = Record, P = Play)	Deck I/II (R/P)	Deck II (R/P)/I (P)	Deck II (R/P)/I (P)	Deck II (R/P)/I (P)	
Digital Synchro (O = Optical)	• (O)				
CD-Deck Synchro	•	•	•		
Powered Loading/Eject	•				
Timer Record/Play (Timer Optional)	•				
Relay Record/Play (R = Record, P = Play)	• (R/P)	• (P)	• (P)	• (P)	
Parallel Recording	•				
Normal/High-Speed Dubbing	•	•	•	•	
Last Memory	•	•	•	•	
Music/Skip Search	•	•	•	•	•
Auto Space Rec Mute	•	•	•	•	•
Headphone Output (V = with Volume Control)	•	•	•	•	•
SR (System Remote) Terminal	•	•	•	•	•
Microphone Input	•				
DISPLAY					
Electronic Counter	2-Mode	2-Mode	2-Mode		2-Mode
Fluorescent Peak-Hold Level Meter	•	•	•	• (LED)	•

Headphones Specifications

	SE-M370	SE-M270	SE-A250
Type	Closed	Closed	Open-air
Frequency Response	5 – 28,000 Hz	10 – 23,000 Hz	15 – 22,000 Hz
Impedance	35 Ω	35 Ω	35 Ω
Max. Input Power	1,000 mW	1,000 mW	100 mW
Sensitivity	102 dB	100 dB	98 dB
Driver Unit	∅ 38 mm	∅ 38 mm	∅ 38 mm
Plug	Mini / Standard Gold-plated	Mini / Standard Gold-plated	Mini / Standard Gold-plated
Cord Length	3.5 m (Single) (OFC)	3.5 m (Y-type) (OFC) (OFC)	3.5 m (Y-type) (OFC) (OFC)
Net Weight (w/o cord)	240 g	210 g	150 g
Head Band	Leather type	Wide width	Free adjust

Speakers Specifications

	S-H710V	S-H510V	S-H310V-QL	S-H230V-QL/ S-H230V-W	CS-7070	CS-5070	CS-3070
Enclosure	Bottom-duct bass-reflex floor-standing type	Rear-duct bass-reflex floor-standing type	Front-duct bass-reflex floor-standing type	Front-duct 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	10 cm cone woofer (x 2)	14 cm cone woofer (x 3)	14 cm cone type (x 2)	13 cm cone type	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 + Super Tweeter: Riffel type	2.5 cm dome type	2.5 cm dome type	2.5 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	8 Ω
Frequency Range	40 – 100,000 Hz	30 – 35,000 Hz	35 – 35,000 Hz	40 – 20,000 Hz	35 – 20,000 Hz	40 – 20,000 Hz	45 – 20,000 Hz
Sensitivity (1 m/W)	86 dB/W	90 dB/W	90 dB/W	89 dB/W	90 dB/W	90 dB/W	90 dB/W
Operation power to get 96 dB SPL at 1 m distance (DIN)	6.3 W	4 W	4 W	5 W	4 W	4 W	4 W
Maximum Power	130 W	100 W	100 W	80 W	190 W	140 W	120 W
Dimensions (W x H x D)	270 x 1,100 x 270 mm (with base) 156 x 1,065 x 150 mm (without base)	251 x 1,030 x 422 mm (with base) 185 x 1,000 x 390 mm (without base)	240 x 925 x 345 mm (with base) 184 x 900 x 318 mm (without base)	160 x 850 x 271 mm	334 x 695 x 273 mm	298 x 624 x 243 mm	258 x 540 x 234 mm
Weight	11.5 kg	18.5 kg	11.5 kg	6.8 kg	10.5 kg	8.3 kg	6.1 kg

PL-990 Full Automatic Stereo Turntable



- 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

DVD Recorder Features & Specifications

	DVR-7000
Miscellaneous	
Size	420 x 373.5 x 107 mm
Region	2
Power Consumption in stand-by mode	1.5 W (FL Off)
Weight	7.0 kg
Front Panel	
Material	Aluminum
VIDEO	
DNR	•
Mosquito Noise Reduction	•
Block Noise Reduction	•
Fine Focus Digital Filter	•
REC-Format	PAL (625/50)
Playback-Format-Video	PAL/NTSC
Playback-Format-VR	PAL/NTSC
INPUT-Color System	PAL/SECAM
OUTPUT-Color System	PAL/NTSC/PAL-60
AUDIO	
96/24 DAC	•
OTHERS	
PDC/VPS	•
ShowView	•
ANTENNA	
Antenna-IN	•
Antenna-OUT	• (Through)
Nicam	•
TV-System	PAL-B/G, I, SECAM-L

	DVR-7000
GUI	
Several languages	• (English, French, German, Italian, Spanish)
Others	
Program Memory	•
Accessories	
Remote Control Unit	•
Battery	•
Power-cable	•
Audio-cable	•
Video-cable	•
RF-cable	•
SCART-cable	• (Full)
Connection Terminals	
SCART RGB/S-Video/Composite	Rear: AV1 (out)
S-Video/Composite	Rear: AV2 (in/out)
Component YPb*Pr* Video	Rear: 1 (out)
S-Video	Front: 1 (in)
	Rear: 1 (in)/1 (out)
Composite Video	Front: 1 (in)
	Rear: 1 (in)/1 (out)
Analogue Audio L/R	Front: 1 (in)
	Rear: 1 (in)/1 (out)
Digital Audio Optical	Rear: 1 (out)
Coaxial	Rear: 1 (out)
DV	Front: 1 (in/out)
Antenna	Rear: 1 (in)/1 (out:through)
Pioneer System Remote Control	Rear: 1 (in)/1 (out)

Design Audio Systems Features

	NS-11-Q	NS-11-S
SYSTEM	XC-L11/M-L11	XC-L11/M-L11
Remote Control Unit	•	•
DISPLAY		
Separate type	•	•
Main Operation Buttons	•	•
Dimmer Control	•	•
Remote Control Sensor	•	•
AMPLIFIER SECTION	M-L11	M-L11
Power (RMS, 1 kHz, 6 Ω)		
Front	30 W x 2	30 W x 2
Subwoofer	50 W	50 W
Subwoofer Level Control	• (3-step)	• (3-step)
Bass/Treble Control	•	•
L/R Balance Control	•	•
TUNER SECTION	XC-L11	XC-L11
RDS Tuner	•	•
Band (FM/AM)	•	•
Presets	30	30
Auto Tuning	•	•
Timer	• (3-mode)	• (3-mode)
CD PLAYER SECTION	XC-L11	XC-L11
Mechanism	Single Tray	Single Tray
Motorised Door	•	•
Random/Repeat Play	•/•	•/•
PGM No.	24	24
Optical Digital Output	•	•
OPTIONAL MINIDISC RECORDER	MJ-L11	MJ-L11
MDLP	•	•
Mechanism	Single slot-in	Single slot-in
Disc and Song and GROUP Title Input	•	•
Edit modes	•	•
Mono LP	•	•
Random/Repeat Play	•	•
PGM No.	24	24
Synchro REC	•	•
Digital/Analogue Input Selector	•	•
FS Converter	• (32, 44.1, 48 kHz)	• (32, 44.1, 48 kHz)
Optical Digital Input	•	•
OPTIONAL CASSETTE DECK	CT-L11	CT-L11
Horizontal Loading	Slot-in	Slot-in
Auto-Reverse	•	•
Reverse Mode Select	•	•
Dolby B NR	•	•
Music Search	•	•
Auto-tape selector (Normal/Chrome)	•	•
Tape Counter	•	•
Auto Record Level Control	•	•
Synchro REC	•	•
A.S.E.S. (Auto Synchro Editing System)	•	•
SPEAKERS	S-L11-Q-LRW	S-L11-S-LRW
Cone Size		
Satellite	8.7 cm	8.7 cm
Subwoofer	16 cm	16 cm
Maximum Power		
Satellite	30 W	30 W
Subwoofer	50 W	50 W

Design Audio Systems Specifications

	NS-11-Q	NS-11-S
STEREO CD RECEIVER		
STEREO CD TUNER/STEREO POWER AMPLIFIER	XC-L11/M-L11	XC-L11/M-L11
Amplifier section	M-L11	M-L11
Continuous power output		
Stereo		
(RMS)	30 W x 2	30 W x 2
(DIN)	23 W x 2	23 W x 2
Subwoofer (RMS) (DIN)	50/43 W	50/43 W
Power Requirements	220 – 230 V (UK 230 V), 50/60 Hz	220 – 230 V (UK 230 V), 50/60 Hz
Power consumption: In use/standby	102/0.9 W	102/0.9 W
Dimensions (W x H x D)	190 x 80 x 267 mm	190 x 80 x 267 mm
Net weight	4 kg	4 kg
Tuner section	XC-L11	XC-L11
FM Usable Sensitivity (1HF Mono)	18.3 dBf (2.2 μV, 75 Ω)	18.3 dBf (2.2 μV, 75 Ω)
FM S/N ratio (DIN) (Mono/Stereo)	66/60 dB	66/60 dB
CD Player section	XC-L11	XC-L11
Frequency Response	4 – 20,000 Hz	4 – 20,000 Hz
S/N ratio (EIA)	110 dB	110 dB
Dimensions (W x H x D)	220 x 65 x 317 mm	220 x 65 x 317 mm
Net weight	2.2 kg	2.2 kg
OPTIONAL MINIDISC RECORDER	MJ-L11	MJ-L11
Frequency Response	20 – 20,000 Hz	20 – 20,000 Hz
S/N Ratio (EIA)	96 dB	96 dB
Power consumption	11 W	11 W
Dimensions (W x H x D)	220 x 65 x 313 mm	220 x 65 x 313 mm
Net weight	2.5 kg	2.5 kg
OPTIONAL CASSETTE DECK	CT-L11	CT-L11
Wow & Flutter (WRMS)	0.15 % (WRMS)	0.15 % (WRMS)
Frequency Response		
Type I (Normal) (± 6 dB)	20 – 16,000 Hz	20 – 16,000 Hz
Type II (Chrome) (± 6 dB)	20 – 16,000 Hz	20 – 16,000 Hz
S/N ratio		
Dolby NR OFF	53 dB	53 dB
Dolby B NR ON (at 5 kHz)	improved by 10 dB	improved by 10 dB
Dimensions (W x H x D)	220 x 65 x 313 mm	220 x 65 x 313 mm
Net weight	2.7 kg	2.7 kg
SATELLITE AND SUBWOOFER SPEAKER SYSTEM	S-L11-Q-LRW	S-L11-S-LRW
Cone Size	Satellite & subwoofer system	Satellite & subwoofer system
Satellite	8.7 cm	8.7 cm
Subwoofer	16 cm	16 cm
Frequency Range		
Satellite	110 – 20,000 Hz	110 – 20,000 Hz
Subwoofer	25 – 800 Hz	25 – 800 Hz
Sensitivity (1 m/W)		
Satellite	84 dB	84 dB
Subwoofer	80.5 dB	80.5 dB
Maximum Power		
Satellite	30 W	30 W
Subwoofer	50 W	50 W
Dimensions (W x H x D)		
Satellite	125 x 228 x 70 mm	125 x 228 x 70 mm
Subwoofer	190 x 281 x 255 mm	190 x 281 x 255 mm
Net weight		
Satellite	1.0 kg	1.0 kg
Subwoofer	3.8 kg	3.7 kg
OPTIONAL CABLE	JC-L11	JC-L11
Cable Length	5 m	5 m

Hi-Fi Systems Features

	IS-22	IS-22S	X-NM1
SYSTEM			
Remote Control Unit	•	•	XR-NM1
DISPLAY			
Dimmer Control	•	•	•
AMPLIFIER SECTION			
Power (RMS, 1 kHz, 6 Ω)	M-IS22 100 W x 2	M-IS22 100 W x 2	25 W x 2
Enhance	•	•	•
Sound Morphing	•	•	Sound Controller
Bass/Treble Control	• (± 4-step)	• (± 4-step)	•
L/R Balance Control	•	•	•
TUNER SECTION			
RDS Tuner	Included in XC-IS22CD	Included in XC-IS22CD	•
Band (FM/AM)	•	•	•
Presets	30	30	24
Auto Tuning	•	•	•
Timer	• (3-mode)	• (3-mode)	• (3-mode)
CD PLAYER SECTION			
Included in XC-IS22CD	Included in XC-IS22CD	Included in XC-IS22CD	
Mechanism	Vertical	Vertical	Single Tray
Motorised Door	•	•	•
Random/Repeat Play	•/•	•/•	•/•
PGM No.	24	24	32
Optical Digital Output	•	•	•
CASSETTE DECK SECTION			
Included in XC-IS22CD	Included in XC-IS22CD	Included in XC-IS22CD	Included in XR-NM1
Horizontal Loading	•	•	•
Auto-Reverse	•	•	•
Double Auto-Reverse	•	•	•
Reverse Mode Select	•	•	•
Dolby B NR	•	•	•
Music Search	•	•	•
Tape Counter	•	•	•
Auto Record Level Control	•	•	•
A.S.E.S. (Auto Synchro Editing System)	•	•	Synchro REC
SPEAKERS			
3-Way Speaker	5-IS22	5-IS22S	5-NM1
2-Way Speaker	•	•	•
Woofer/Midrange/Tweeter Size	17/6.6/2 cm	17/6.6/2 cm	10/2 cm
Maximum Power	100 W	100 W	25 W

Hi-Fi Systems Specifications

	IS-22	IS-22S	X-NM1
STEREO CD RECEIVER			
STEREO CD TUNER/STEREO POWER AMPLIFIER			
Amplifier section	XC-IS22CD/M-IS22	XC-IS22CD/M-IS22	XR-NM1
Continuous power output	M-IS22	M-IS22	
Stereo			
(RMS)	100 W x 2	100 W x 2	25 W x 2
(DIN)	65 W x 2	65 W x 2	17 W x 2
(DIN MUSIC)	150 W	150 W	23 W x 2
Power Requirements	220 – 230 V, 50 – 60 Hz	220 – 230 V, 50 – 60 Hz	
Power consumption: In use/standby	140/1 W	140/1 W	
Dimensions (W x H x D)	160 x 300 x 237 mm	160 x 300 x 237 mm	166 x 243 x 335 mm
Net weight	4.1 kg	4.1 kg	6.4 kg
Tuner section	XC-IS22CD	XC-IS22CD	
FM Usable Sensitivity (IHF Mono)	14.3 dBf (1.4 μV, 75 Ω)	14.3 dBf (1.4 μV, 75 Ω)	14.3 dBf
FM S/N ratio (DIN) (Mono/Stereo)	60 dB	60 dB	60 dB
CD Player section	XC-IS22CD	XC-IS22CD	
Frequency Response	20 – 20,000 Hz	20 – 20,000 Hz	20 – 20,000 Hz
S/N ratio (EIA)	96 dB	96 dB	96 dB
Dimensions (W x H x D)	204 x 300 x 237 mm	204 x 300 x 237 mm	
Net weight	2.7 kg	2.7 kg	
CASSETTE DECK			
Wow & Flutter (WRMS)	XC-IS22CD 0.1 %	XC-IS22CD 0.1 %	0.2 %
Frequency Response			
Type I (Normal) (± 6 dB)	35 – 14,000 Hz	35 – 14,000 Hz	35 – 14,000 Hz
Type II (Chrome) (± 6 dB)	35 – 15,000 Hz	35 – 15,000 Hz	
S/N ratio			
Dolby NR OFF	56 dB	56 dB	56 dB
Dolby B NR ON (at 5 kHz)	improved by 10 dB	improved by 10 dB	
Dimensions (W x H x D)	included in amp section	included in amp section	
Net weight	included in amp section	included in amp section	
SPEAKERS (STEREO)			
Cone Size: Woofer/Midrange/Tweeter	5-IS22 17/6.6/2 cm	5-IS22S 17/6.6/2 cm	5-NM1 10/2 cm
Frequency Range	40 – 20,000 Hz	40 – 20,000 Hz	55 – 20,000 Hz
Sensitivity (1 m/W)	85 dB/W	85 dB/W	85 dB/W
Maximum Power	100 W	100 W	25 W
Dimensions (W x H x D)	215 x 372 x 274 mm	195 x 301.5 x 331 mm	130 x 240 x 235 mm
Net Weight	4.1 kg	3.9 kg	1.9 kg


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