⏀ PIONEER
The Art of Entertainment

Home Entertainment Components

1998-1999

Pioneer. All Out For A New
Dimension In Home
Entertainment And
Home Theatre

Experience a dynamic new dimension
in sight and sound at home.

Pioneer Advanced

With six decades of experience in home
entertainment, Pioneer advances the
art and science of home theatre
through digital technology.

60th Anniversary

Here is a sampling of Pioneer technologies we
have developed to make true home theatre a reality:

• Pioneer A/V receivers come ready with all the
amplification you need for true theatre sound—5 equal
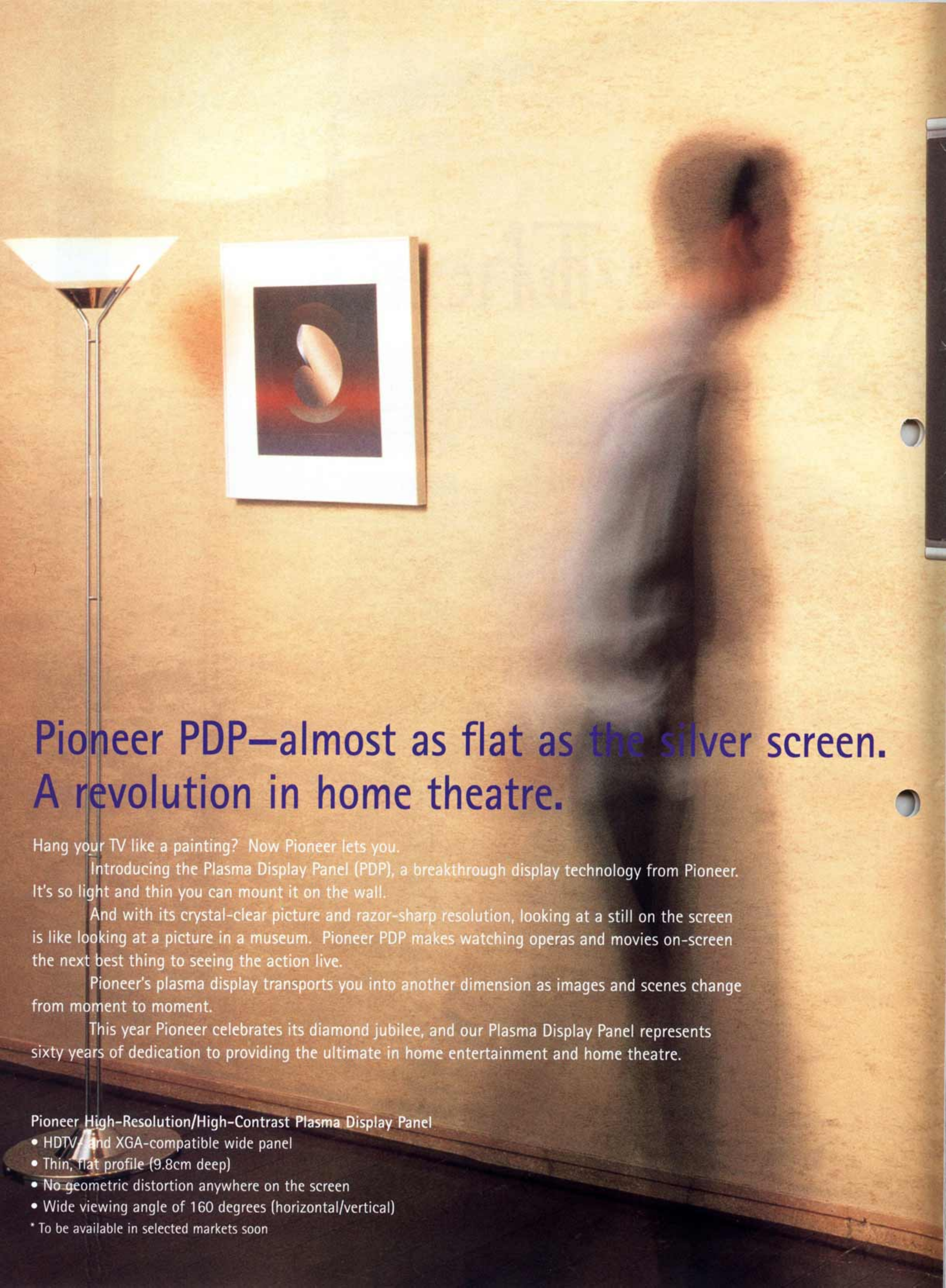high-power amps—and Dolby Digital (AC-3)/Dolby Pro
Logic decoder.

Home Theatre

• Pioneer offers DVD/VCD, DVD/VCD/LD and VCD/LD players that take advantage of digital technology to ensure the highest audio and video quality. Remember that since Pioneer introduced LD technology in 1980, we have been at the forefront of optical disc innovation. Compact, lightweight, and easy to use, DVD represents the ideal format for the type of home theatre envisioned by Pioneer.

• Our Linear Power Speaker technology combines wide range, high performance and compact size without compromising sound quality. It allows Dolby Digital to sound dynamic and realistic using compact speakers that fit easily into any living room.

• Pioneer big-screen projection monitors offer a screen of cinematic proportions in the dynamic 16:9 width-to-height ratio to intensify the theatre feel. They also use sophisticated digital technology to improve purity and clarity, and to add depth to the picture.

Pioneer—the future of home theatre technology.

Pioneer PDP—almost as flat as the silver screen.
A revolution in home theatre.

Hang your TV like a painting? Now Pioneer lets you.

Introducing the Plasma Display Panel (PDP), a breakthrough display technology from Pioneer. It's so light and thin you can mount it on the wall.

And with its crystal-clear picture and razor-sharp resolution, looking at a still on the screen is like looking at a picture in a museum. Pioneer PDP makes watching operas and movies on-screen the next best thing to seeing the action live.

Pioneer's plasma display transports you into another dimension as images and scenes change from moment to moment.

This year Pioneer celebrates its diamond jubilee, and our Plasma Display Panel represents sixty years of dedication to providing the ultimate in home entertainment and home theatre.

Pioneer High-Resolution/High-Contrast Plasma Display Panel
- HDTV- and XGA-compatible wide panel
- Thin, flat profile (9.8cm deep)
- No geometric distortion anywhere on the screen
- Wide viewing angle of 160 degrees (horizontal/vertical)
* To be available in selected markets soon

Pioneer Plasma Display Home Theatre
- Slim and lightweight plasma display panel (9.8cm thick)
- High-resolution DVD/LD combination player
- Dolby Digital A/V receiver with built-in decoder
- Linear Power Speakers for dynamic surround:
Satellites and powered subwoofer

HIFI IN BOTH VIDEO AND AUDIO

Pioneer DVD Players with Viterbi Decoder

Pioneer DVD players feature two processors for accurate conversion. The newly developed DVD decoder is the primary processor, responsible for handling signals read from a disc and converting them into audio, video and sub-picture data. It also functions to suppress errors using **Viterbi Decoding**. As a result, the disc sends high-quality signals to the secondary processor—the newly-developed **AV-1 MPEG decoder**—with superb reliability.

Viterbi RF Decoding Process

Pioneer DVD players boast the ability to read data recorded on discs with exceptional precision. The **Viterbi Decoder** makes statistical calculations based on current, past and future data, predicts probable transition points and performs waveform reshaping. The byte error rate is a mere fraction of a percent the typical rate according to our measurements. Data is reproduced with high stability and accuracy, even at the most minute levels.

Accurate Digital Servo

Since discs are molded, they inevitably become distorted or warped over time, causing mistracking and increasing noise. The new **Accurate Digital Servo** makes use of sophisticated digital technology to improve tracking ability—a feature we call Auto Jitter Adjustment. This system detects the degree of disc warpage from the readout signal and automatically optimizes tracking parameters. It also optimizes the focus and tracking servo gains, disc by disc, to reduce jitter still further.

A NEW WORLD OF VIDEO

10-bit/27MHz Processing and 10-bit Video D/A Converter

By definition, the video signals of all DVDs are recorded in 8-bit format with 13.5MHz sampling frequency. To deliver truly realistic pictures, however, Pioneer

DVD players go beyond the standard: all come with a **10-bit video DAC**. It requantizes original 8-bit/13.5MHz-sampled data with 10-bit resolution at a 27MHz sampling rate, and the output data is processed in the wider-range, higher-resolution format. Even the most minute signal is reproduced with precision, while noise is kept to a minimum and every last subtle nuance given full expression.

Dual-Focus Pickup (DV-505/DV-K101)

Featuring a single-lens construction, the Pioneer **Dual-Focus Pickup** quickly detects whether a DVD or CD is being played and allows the hologram device inside to automatically optimize the focus distance for that format. Because it doesn't switch lenses or require optical axis adjustment, our pickup is stable, durable and reliable.

PAL/NTSC Dual Playback

Pioneer DVD players are ready to play DVDs and Video CDs recorded in PAL and NTSC. **PAL/NTSC Dual Playback** means an even wider variety of video programming, ranging from movies to entertainment and culture.

VCD Noise Reduction (DVL-K88)

When you view some VCDs, you may experience mosaic picture noise that mars your pleasure. Pioneer developed **VCD NR** to cut the noise and make images look smoother and cleaner.

Transfer Bit Rate Indicator

Pioneer DVD players come with an on-screen indicator that shows the transfer bit rate of data in real time.

## HIGHER BIT SAMPLING FOR BETTER SOUND

96kHz/20-bit D/A Converter

DVD offers 96kHz sampling frequency and 24-bit quantization as best options. The DVL-909, DV-505 and DV-K88 feature the **96kHz/20-bit D/A converter** to reproduce DVD's recorded data with impeccable fidelity. Conventional 48kHz-compatible D/A converters lack the ability to play back frequencies beyond 22kHz. With Pioneer's advanced converter, on the other hand, frequencies up to 44kHz—probably

the limit of the human audible range—are fully recovered. This allows Pioneer DVD players to deliver outstandingly realistic sound.

Dolby Digital (DVD/LD)

You can enjoy **Dolby Digital** theatre sound simply by hooking up a Pioneer DVD player to a Pioneer Dolby Digital A/V receiver. Both Dolby Digital Laser Discs and DVDs have 5.1 channels of AC-3 digital data. So when you play a Dolby Digital encoded disc, you enjoy 5.1-channel digital theatre sound, including a '0.1' channel (subwoofer). Dolby Digital makes Pioneer LD/DVD and DVD players an integral part of a home theatre.
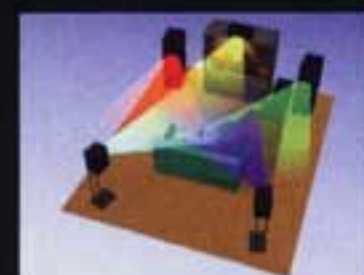
* 'Dolby,' the double-D symbol, 'Pro Logic' and 'AC-3' are trademarks of Dolby Laboratories Licensing Corporation.

Virtual Dolby Surround (DVL-909/DV-505)

Virtual Dolby Surround allows two speakers up front to do the job of five speakers, letting you enjoy the 'virtual world' of Dolby home theatre. The Virtual Dolby Surround processor accepts and processes an output from a Dolby Pro Logic or Dolby Digital decoder, so that two speakers in front produce a virtual surround field, mixing the rear sound with the front.

TruSurround with SRS(●)

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

Note: Pioneer's Virtual Dolby Surround incorporates Trusurround technology under license from SRS Labs, Inc.

ENTERTAINMENT AND CONVENIENCE

### For Karaoke Fun (DVL-K88/DV-K101)

A whole range of special karaoke functions are included for the best in home karaoke, like Digital Key Control, Digital Echo and Vocal Cancel. Of the two karaoke DVD players, the DVL-K88 is specially talented: it features the Vocal Scoring System and Multiple Audio Function. The **Vocal Scoring System** indicates how in tune (or out of tune) you are as you sing your show-stopper (Scoring Mode), or shows which of two competitors is a better singer (Competition Mode): at the press of the PAUSE button, scores are

displayed on screen. The **Multiplex Audio Function** offers three new, versatile modes—Guide Melody, Duet Mode and Chorus Mode. There are two mic inputs for duets and three modes for karaoke surround (STUDIO, HALL and ARENA).

Pioneer GUI (Graphical User Interface)

Using Pioneer DVD players is simplicity itself thanks to **GUI (Graphical User Interface)**. GUI offers you layers of menus on your TV screen allowing you to select and programme the settings you prefer for sound, picture, language and more. Making a choice is as simple as moving the cursor over the TV screen and clicking a button on the remote.
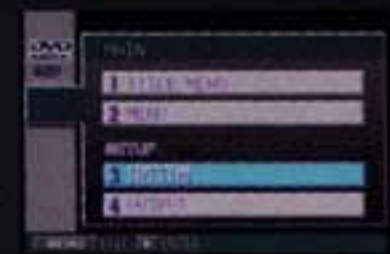
Background colour is selectable from a palette (Shown are the DVL-909's GUI screens)

Playback Options and Conveniences

A host of playback options are available for your choice. **Cinema and Animation** modes enhance contrast and make images more colourful, respectively. With the DVL-909 and DV-505, **Frame Still** provides a fine still, while **Field Still** gives a blurless still of a fast-moving scene (even from LDs with the DVL-909). **Variable Dynamic Range** Compression ensures a better balance of dialogue and sound effects when you view movies at home. LD Video DNR permits frame and field advance play. And **Condition Memory** stores the set of playback parameters you've selected for a disc—aspect ratio, Virtual Dolby on/off, etc.—and automatically recalls it for later viewing.

Note:
The DVL-909, DV-505, DVL-K88 and DV-K101 are available in ASEAN countries.
They are slightly different from models sold in other areas even if they bear the same model numbers.

DVL-909

DVD **Both-side LD** **Legato Link**

DVD VIDEO · LaserDisc · Video CD · COMPACT DISC DIGITAL VIDEO · COMPACT DISC DIGITAL AUDIO · DOLBY DIGITAL

VIRTUAL DOLBY SURROUND · DD RF AC-3 OUT · LEGATO LINK CONVERSION · Quick Turn · BOTH SIDE PLAY · PAL/NTSC DVD / VIDEO CD · NTSC LASER DISC · SR

Video Features
- 10-bit video D/A conversion (DVD/VCD)
- 8-bit digital field memory (LD)
- LD Video DNR (Digital Noise Reduction)
- DVD/VCD dual system (PAL/NTSC)
- GUI (Graphical User Interface)
- DVP (Digital Video Processing)

system (LD)
Audio Features
- 96kHz/20-bit audio D/A converter
- Legato Link Conversion
- Virtual Dolby surround
Conveniences/Special-effects Play
- LD Both-side play
- Independent DVD/VCD/CD tray
- Condition Memory

(up to 30 discs)(DVD)
- Continue Play Memory (5 DVDs, 1 VCD and 1 LD)
- Cinema Mode (DVD/VCD/LD)/ Animation Mode (DVD/VCD)
- Field/frame still play
- Transfer bit rate indicator (DVD)
- Dynamic range compression (variable)(DVD)

- SR (System Remote) control unit
Terminals
- AC-3 RF output (for Dolby Digital)(LD)
- 2 S-video outputs
- 2 audio/video outputs
- Optical/coaxial digital outputs (for Dolby Digital/L PCM)
- Coaxial digital output (for L PCM)

DV-505

DVD **Legato Link**

DVD VIDEO · Video CD · COMPACT DISC DIGITAL VIDEO · COMPACT DISC DIGITAL AUDIO · DOLBY DIGITAL · VIRTUAL DOLBY SURROUND · LEGATO LINK CONVERSION · PAL/NTSC DVD / VIDEO CD · SR

Video Features
- 10-bit video D/A conversion
- Dual-Focus pickup
- DVD/VCD dual system (PAL/NTSC)
- GUI (Graphical User Interface)
Audio Features
- 96kHz/20-bit audio D/A converter

- Legato Link Conversion
- Virtual Dolby surround
Conveniences/Special-effects Play
- Condition Memory (up to 30 discs)(DVD)
- Continue Play Memory (5 DVDs and 1 VCD)

- Cinema Mode/Animation Mode (DVD/VCD)
- Field/frame still play
- Transfer bit rate indicator (DVD)
- Dynamic range compression (variable)(DVD)
- SR(System Remote) control unit

Terminals
- S-video output
- Video output
- 2 audio outputs
- Optical/coaxial digital outputs (for Dolby Digital/L PCM)

Note:
The DVL-909, DV-505, DVL-K88 and DV-K101 are available in ASEAN countries.
They are slightly different from models sold in other areas even if they bear the same model numbers.

DVL-K88

`DVD` `Karaoke` `Both-side LD`

`DVD VIDEO` `LaserDisc` `Video CD` `COMPACT disc DIGITAL VIDEO` `COMPACT disc DIGITAL AUDIO` `DOLBY DIGITAL` `RF AC-3 OUT` `LaserKaraoke` `Quick Turn` `BOTH SIDE PLAY` `PAL/NTSC DVD / VIDEO CD` `NTSC LASER DISC` `SR`

Video Features
- 10-bit video D/A conversion (DVD/VCD)
- VCD Video noise reduction
- DVD/VCD dual system (PAL/NTSC)
- GUI (Graphical User Interface)
- DVP (Digital Video Processing) system (LD)

Audio Features
- 96kHz/20-bit audio D/A converter

Conveniences/Special-effects Play
- LD Both-side play

* Functions with selected DVDs

- Independent DVD/VCD/CD tray
- Condition Memory (up to 30 discs)(DVD)
- Continue Play Memory (5 DVDs, 1 VCD and 1 LD)
- Cinema Mode (DVD/VCD/LD)/Animation Mode (DVD/VCD)
- Transfer bit rate indicator (DVD)
- Dynamic range compression (variable)(DVD)
- SR (System Remote) control unit

Terminals
- AC-3 RF output (for Dolby Digital)(LD)
- S-video output
- 2 audio/video outputs
- Optical/coaxial digital outputs (for Dolby Digital/L PCM)

Karaoke Features
- 2 mic inputs
- 11-step digital key control
- Digital echo
- Separate Guide Melody*

- One-Chorus Function*
- Hi-Lite Medley*
- Guide Vocal (Duet, Chorus)*
- One-touch karaoke (Vocal Cancel)
- Scoring System (Vocal Scoring/Competition Modes)
- Karaoke Surround (STUDIO, HALL, ARENA)
- External input
- One-song pause
- 'Showstopper' function

DV-K101

`DVD` `Karaoke`

`DVD VIDEO` `Video CD` `COMPACT disc DIGITAL VIDEO` `COMPACT disc DIGITAL AUDIO` `DOLBY DIGITAL` `Karaoke` `PAL/NTSC DVD / VIDEO CD` `SR`

Video Features
- 10-bit video D/A conversion
- Dual-Focus pickup
- DVD/VCD dual system (PAL/NTSC)
- GUI (Graphical User Interface)

Audio Features
- 48kHz/20-bit audio D/A converter

Conveniences/Special-effects Play
- Condition Memory

* Functions with selected DVDs

(up to 30 discs)(DVD)
- Continue Play Memory (5 DVDs and 1 VCD)
- Cinema Mode/Animation Mode (DVD/VCD)
- Field/frame still play
- Transfer bit rate indicator (DVD)
- Dynamic range compression (variable)(DVD)

- SR (System Remote) control unit

Terminals
- S-video output
- Video output
- 2 audio outputs
- Optical/coaxial digital outputs (for Dolby Digital/L PCM)

Karaoke Features
- 2 mic inputs

- 11-step digital key control
- Digital echo
- Guide Vocal (Duet, Chorus)*
- One-touch karaoke (Vocal Cancel)
- 10-key direct search and play
- Karaoke Surround (on/off)

Note:
The DVL-909, DV-505, DVL-K88 and DV-K101 are available in ASEAN countries.
They are slightly different from models sold in other areas even if they bear the same model numbers.

	DVL-909	DV-505	DVL-K88	DV-K101
System	DVD Disc, Laser Disc Video System, Compact Disc with Video and Compact Disc Digital Audio System	DVD Disc, Compact Disc with Video and Compact Disc Digital Audio System	DVD Disc, Laser Disc Video System, Compact Disc with Video and Compact Disc Digital Audio System	DVD Disc, Compact Disc with Video and Compact Disc Digital Audio System
FEATURES				
Technical Features				
Video CD Ver. 2.0 Playback	yes	yes	yes	yes
PAL/NTSC Dual System	DVD/VCD	DVD/VCD	DVD/VCD	DVD/VCD
LD Both-Side Play	yes		yes	
Audio Features				
96kHz/20-bit D/A Converter	yes	yes	yes	
48kHz/20-bit D/A Converter				yes
Virtual Dolby Surround	yes	yes		
Legato Link Conversion	yes	yes		
Video Features				
10-bit Video D/A Conversion (DVD/VCD)	yes	yes	yes	yes
Dual-Focus Pickup		yes		yes
8-bit Digital Field Memory (LD)	yes			
LD Video DNR (Digital Noise Reduction)/VCD Video Noise Reduction	yes/–	–/–	–/yes	–/–
DVP (Digital Video Processing) System (LD)	yes		yes	
GUI (Graphical User Interface)	yes	yes	yes	yes
Conveniences				
Transfer Bit Rate Indicator (OSD)	yes	yes	yes	yes
Frame Step Play	yes (DVD/LD)	yes (DVD)		
Field Step Play	yes (DVD/LD)	yes (DVD)		
Special Play Functions				
Condition Memory (up to 30 discs) (DVD)	yes	yes	yes	yes
Continue Play Memory*	5 DVDs, 1 VCD and 1 LD	5 DVDs and 1 VCD	5 DVDs, 1 VCD and 1 LD	5 DVDs and 1 VCD
Cinema Mode (Personal Mode)	DVD/VCD/LD	DVD/VCD	DVD/VCD/LD	DVD/VCD
Animation Mode (Personal Mode)	DVD/VCD	DVD/VCD	DVD/VCD	DVD/VCD
Terminals				
S-Video Output	2	1	1	1
Video Output	2	1	2	1
Audio Output/AUX Audio Input	2/–	2/–	2/1	2/–
Optical Digital Output (for Dolby Digital/L PCM)	1	1	1	1
Coaxial Digital Output (for Dolby Digital/L PCM)	1	1	1	1
Coaxial Digital Output (for L PCM)	1			
AC-3 RF Output (for LD)	1		1	
SPECIFICATIONS				
Video Characteristics				
Horizontal Resolution (DVD/LD)	Over 500 Lines (DVD)/425 Lines (LD)	Over 500 Lines (DVD)	Over 500 Lines (DVD)/425 Lines (LD)	Over 500 Lines (DVD)
Digital Audio Characteristics				
Total Harmonic Distortion	0.003%	0.003%	0.003%	–
DVD Frequency Response (48kHz/96kHz)	4–22,000Hz/4–44,000Hz	4–22,000Hz/4–44,000Hz	4–22,000Hz/4–44,000Hz	4–22,000Hz/4–44,000Hz
LD Frequency Response	4–20,000Hz	–	4–20,000Hz	–
Signal-to-Noise Ratio (EIAJ)	115dB	115dB	115dB	115dB
Dynamic Range	97dB	97dB	97dB	90dB
Miscellaneous				
Power Requirements	110–127V/220–240V (switchable) 50/60Hz	110–127V/220–240V (switchable) 50/60Hz	110–127V/220–240V (switchable) 50/60Hz	110–127V/220–240V (switchable) 50/60Hz
Power Consumption	57W	22W	57W	22W
Dimensions (W x H x D) (without package)	420 x 146 x 464mm	420 x 104 x 284mm	420 x 146 x 466mm	420 x 104 x 285mm
Weight	8.9kg	2.9kg	8.7kg	3.1kg

* Continue Play Memory will be defeated once a loaded VCD or LD is removed, the power cable is unplugged, or the unit's power switch is turned off.

Regional Coding

To protect the copyrights of producers of movies and other software, DVDs produced in a specified region—there are six such regions worldwide—can be played back only on DVD players made for sale in that particular region. Regional codes are indicated by numbered logos on DVD-Video discs and DVD players. The Regional Code for ASEAN countries is 3.

Karaoke Features	DVL-K88	DV-K101
11-Step Digital Key Control	yes	yes
Digital Echo	yes	yes
Separate Guide Melody*	yes	
One Chorus Function*	yes	
Hi-Lite Medley*	yes	
Guide Vocal (Duet, Chorus)*	yes	yes
One-Touch Karaoke (Vocal Cancel)	yes	yes
Vocal Partner	yes	yes
Scoring System (Vocal Scoring/Competition Modes)	yes	
Karaoke Surround (STUDIO, HALL, ARENA)	yes	
Karaoke Surround (Normal)	yes	On/Off

* Functions with selected DVDs

Note:
The DVL-909, DV-505, DVL-K88 and DV-K101 are available in ASEAN countries. They are slightly different from models sold in other areas even if they bear the same model numbers.

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TWIN VIDEO CD/CD TRAY

The CLD-210KVT(-G) and CLD-110KVT load two VCDs or CDs at the same time. This means you can view an entire feature movie without getting up to change discs, or choose karaoke songs from a doubly large repertoire. Pioneer's new twin-disc format means extraordinary ease of use.

FOR FILMS AND KARAOKE ON VIDEO CDS

Video CD

Video CD (Ver. 2.0) Playback (CLD-210KVT(-G), CLD-110KVT, CLD-S300V)

Video CD Ver. 2.0—New Format
Thanks to advanced data compression technology based on MPEG1 (Motion Pictures Experts Group 1)—the international data compression standard—a single Video CD the size of an ordinary CD can contain up to 74 minutes of digital pictures and sound. Ver. 2.0 gives you not only full-motion pictures but also high-resolution stills and menu options. It also features resolutions that are comparable to those of the VHS format.

Playback Control Functions
A selection of Video CDs have built-in playback control functions to enhance ease of use. At the touch of a button you can skip to a programmed segment for play, saving you the trouble of scanning the entire disc. Moreover, you can play Video CDs interactively—choosing, for instance, karaoke songs or segments of a movie from a menu.

PRIMED FOR VIDEO CD PLAYBACK

VCD Digest Search (CLD-210KVT(-G), CLD-110KVT, CLD-S300V)

Video CD (VCD) Version 2.0 features tracks to let you instantly access images and karaoke songs anywhere on a disc via interactive on-screen menus—a convenience not available with VCD Version 1.1 or earlier. Yet Pioneer lets you jump instantly to any point on the disc even if it's trackless. **VCD Digest Search** shows nine numbered snapshots in a 3 x 3 grid on your screen. Press the number of the desired scene on the remote, and play of the chosen scene or karaoke song begins instantly.

All Track Digest shows nine snapshots of the first scenes of nine tracks in a disc.

Disc Digest divides an entire disc into nine segments of equal length—e.g., into 5-minute segments in the case of a disc 45 minutes long—and displays snapshots of the opening scenes of all nine segments.

Disc Digest

Digital Digest

Detail Digest lets you narrow down your search further: you can divide a chosen segment into nine sub-segments.

Disc Digest and Detail Digest come in handy, particularly when you view movie VCDs because most do not come with the convenience of tracks or menus.

VCD NR (Noise Reduction) (CLD-210KVT(-G), CLD-110KVT)

When you play poor-quality VCDs, you may experience mosaic picture noise, spoiling your viewing pleasure. Pioneer has a remedy: VCD NR reduces noise to make images look smoother and cleaner.

Without VCD NR

With VCD NR

Auto VCD Output Switching

When you load a VCD, Pioneer VCD/LD players automatically detect its format—NTSC or PAL—for proper playback. There's a 3-position switch for AUTO, NTSC and PAL on the rear panel.

FOR KARAOKE FUN

A full set of karaoke features
The CLD-210KVT(-G) and CLD-110KVT come with a full set of karaoke features that will delight even seasoned crooners. With **11-Step Digital Key Control, Digital Echo, 15-Key Direct Search and Play** at your command, you can find songs quickly and tune the karaoke set to match your style and song selection. Two microphone inputs feature individual level controls for memorable duets.

FOR PURE DIGITAL SOUND

AC-3 RF Output for Dolby Digital

Pioneer VCD/LD and CD/LD players come with an AC-3 RF terminal. Use one with a Pioneer Dolby Digital receiver—VSX-D906S or VSX-D606S—and enjoy Dolby Digital, the most advanced digital theatre sound available, used in cinemas all over the world. (CLD-210KVT(-G), CLD-110KVT, CLD-S300V, CLD-D925, CLD-D500)

1-Bit DLC (Direct Linear Conversion)

The 1-Bit DLC D/A Converter works to suppress the generation of harmonic distortion by maintaining an error-free digital/analogue signal conversion.

FOR IMPROVED PICTURE QUALITY

Digital Video Processing (DVP)

Digital Video Processing, featured in all Pioneer VCD/LD and CD/LD players, improves LD picture quality, providing sharper details and true-to-life colours. The system is integrated into a compact one-chip LSI, which eliminates extra wiring that would cause high-frequency video noise. The result: an impressive signal-to-noise ratio of 50dB (CLD-210KVT(-G), CLD-D500, CLD-S180). DVP offers more: **Digital TBC (Time Base Corrector)** for consistent picture quality; **Feed-Forward Digital PLL (Phase-Locked Loop)** for better colour reproduction; and **Digital Colour DOC (Drop-Out Compensator)** to ensure images with minimum video noise.

FOR VERSATILE DISC PLAY

Laser Disc and Dolby Digital
There are nearly 30,000 movies and concert titles available on Laser Disc in the world right now—that's in addition to hundreds of thousands of music CDs. So Pioneer VCD/LD and CD/LD players let you enjoy a fantastic variety of your favourite entertainment. That's not all. LD features the highest picture quality among consumer video media, and is compatible with 5.1-channel Dolby Digital, while Video CD is not.

BOTH SIDE PLAY Both-Side Play

Enjoy an entire film with no distracting break: Pioneer's **Both-Side Play** means that you don't need to get up and flip the disc at the end of one side. (CLD-210KVT(-G), CLD-D925, CLD-D515, CLD-D500)

PAL/NTSC Playback (CLD-D925, CLD-D515, CLD-S315)

Our PAL/NTSC dual-system CD/LD players can play LDs in NTSC and PAL, two international TV system formats. So they dramatically expand the choice of movies and other video programmes you enjoy. You can view them on a PAL or multi-system TV.

CLD-210KVT(-G)

Karaoke VCD/CD/LD | **Twin VCD/CD Play** | **LD Both-side Play** | **VCD PAL/NTSC Dual System**

C2 DISC Video CD | COMPACT disc DIGITAL VIDEO | COMPACT disc DIGITAL AUDIO | LaserKaraoke | LaserDisc™ | DD RF AC-3 OUT | BOTH SIDE PLAY | Quick Turn | NTSC LASER DISC | PAL/NTSC DVD / VIDEO CD | SR

- Video CD Version 2.0 playback
- Both-side play with E-Turn Mechanism
- Twin VCD/CD tray
- Video CD Functions: VCD Playback Control, VCD Digest Search, VCD Output Switching and VCD NR
- Karaoke functions: Digital Stereo Karaoke Key Control (11 steps), Digital Echo, One-Touch Karaoke, One-Touch Guide Vocal, and 2 mic inputs with volume control

- AC-3 RF output for Dolby Digital
- High-quality picture: 425-line resolution, 50dB video signal-to-noise ratio
- High-quality digital sound with 1-bit DLC (Direct Linear Conversion) D/A Converter
- 3-line comb filter
- Surround (Simulated Stereo)
- 15-keypad direct search and play
- Vocal partner
- Guide vocal control

- 'Once More' function (available with optional microphone)
- Single play
- 24-track programme function
- SR (System Remote) control unit with power on/off switch

- 2 S-video outputs
- 2 audio/video outputs
- AUX audio input
- On-screen display
- Video CD Dual System (PAL/NTSC)

CLD-210KVT-G

* Not available in ASEAN countries.

CLD-110KVT

Karaoke VCD/CD/LD | **Twin VCD/CD Play** | **VCD PAL/NTSC Dual System**

C2 DISC Video CD | COMPACT disc DIGITAL VIDEO | COMPACT disc DIGITAL AUDIO | LaserKaraoke | LaserDisc™ | DD RF AC-3 OUT | NTSC LASER DISC | PAL/NTSC DVD / VIDEO CD | SR

- Video CD Version 2.0 playback
- Twin VCD/CD tray
- Video CD Functions: VCD Playback Control, VCD Digest Search, VCD Output Switching and VCD NR
- Karaoke functions: Digital Stereo Karaoke Key Control (11 steps), Digital Echo, One-Touch Karaoke,

One-Touch Guide Vocal, and 2 mic inputs with volume control

- AC-3 RF output for Dolby Digital
- High-quality picture: 425-line resolution, 49dB video signal-to-noise ratio
- High-quality digital sound with

1-bit DLC (Direct Linear Conversion) D/A Converter
- Surround (Simulated Stereo)
- 15-keypad direct search and play
- Vocal partner
- Guide vocal control
- 'Once More' function (available with optional microphone)

- Single play
- 24-track programme function
- SR (System Remote) control unit with power on/off switch
- 2 audio/video outputs
- AUX audio input
- On-screen display
- Video CD Dual System (PAL/NTSC)

CLD-S300V

* Not available in areas other than ASEAN countries

VCD/LD/CD | **VCD PAL/NTSC Dual System**

Video CD · disc DIGITAL VIDEO · disc DIGITAL AUDIO · *LaserDisc* · NTSC LASER DISC · PAL/NTSC DVD / VIDEO CD · SR

- Video CD Version 2.0 playback
- Video CD Functions: VCD Playback Control, VCD Digest Search, VCD Output Switching
- DVP (Digital Video Processing) system: For higher signal-to-noise ratio and colour fidelity with a

Digital TBC (Time Base Corrector), Digital PLL (Phase-Locked Loop), and Digital Colour DOC (Drop-Out Compensator)

- AC-3 RF output for Dolby Digital
- High-quality picture: 425-line res-

olution, 49dB video signal-to-noise ratio
- High-quality digital sound with 1-bit DLC (Direct Linear Conversion) D/A Converter
- Independent CD Tray
- Programme play of 24 chapters on

both sides (LD) and 24 tracks (CD)
- Last Memory with Review Mode
- SR (System Remote) control unit with power on/off switch
- 2 audio/video outputs
- Video CD Dual System (PAL/NTSC)

Independent CD tray

Most Pioneer CD/LD players incorporate a full-size Laser Disc player and an independent tray for CDs. Using the separate OPEN/CLOSE keys for LD and CD, you can load, change or unload discs with equal ease.

(The CLD-S300V is compatible with VCDs too.)

Playback Control (PBC) Capability

(CLD-210KVT(-G), CLD-110KVT, CLD-S300V)

Certain Video CDs come with Playback Control (PBC) signals recorded. PBC brings a new interactive capability to Video CD playback: it shows layers of menus on your TV screen to let you easily control the player from the remote control unit. With karaoke Video CDs, for instance, you can choose a desired song from a list on screen and play it instantly with the press of a button—an unmatched convenience!

	Pioneer Video-CD Karaoke	
1	Borrowed Time	Strange Taste
2	Virginia	Strange Taste
3	Just Got Back	Lifelike Models
4	Under Tension	Dr. Nurse
5	Kiss the World	After a Fashion
6	Right Through You	Dada Rhythms
7	On the Ground	Sixat

CLD-D925

* Not available in ASEAN countries.

CD/LD | **8-bit Digital Field Memory**

COMPACT disc DIGITAL AUDIO · *LaserDisc™* · DD RF AC·3 OUT

BOTH SIDE PLAY · *Quick Turn* · NTSC LASER DISC · SR

- Both-side play with E-Turn Mechanism
- PAL/NTSC dual system (LaserDisc)
- Hi-Quality Circuits (Digital Y/C separation and Noise Reduction)
- 8-bit digital field memory
- DVP (Digital Video Processing) system: For higher signal-to-noise ratio and colour fidelity with a

** Digital Colour DOC applies to playback of NTSC Laser Discs only

Digital TBC (Time Base Corrector), Digital PLL (Phase-Locked Loop), and Digital Colour DOC (Drop-Out Compensator)**

- AC-3 RF Output for Dolby Digital
- 3-line digital Y/C separation
- Quick turn mode
- High-quality picture: 440-line

(PAL)/425-line (NTSC) horizontal resolution
- High-quality digital sound with 1-bit DLC (Direct Linear Conversion) D/A Converter
- Multilingual display: English, French, German or Italian
- Independent CD tray
- Display off switch

- Programme play of 24 chapters on both sides (LD) and 24 tracks (CD)
- Last Memory with Review Mode
- Multi-speed play and still/step play (CAV/CLV)
- Optical digital output

CLD-D515

* Not available in ASEAN countries.

CD/LD | **LD Both-side Play**

COMPACT disc DIGITAL AUDIO · *LaserDisc™* · DD RF AC·3 OUT *

BOTH SIDE PLAY · *Quick Turn* · NTSC LASER DISC · SR

CLD-S315

* Not available in ASEAN countries.

CD/LD

COMPACT disc DIGITAL AUDIO · *LaserDisc™*

DD RF AC·3 OUT * · NTSC LASER DISC · SR

- Both-side play with E-Turn Mechanism (CLD-D515)
- PAL/NTSC dual system: Plays both PAL and NTSC system Laser Discs for greater variety
- User-friendly design: Oversized ring control, Pictograph displays and Open/Close button for LD/CD

tray
- DVP (Digital Video Processing) system: For higher signal-to-noise ratio and colour fidelity with a Digital TBC (Time Base Corrector), Digital PLL (Phase-Locked Loop), and Digital Colour DOC (Drop-Out Compensator)**

- AC-3 RF Output for Dolby Digital (Model with 'WPW1' suffix only)
- High-quality picture: 440-line (PAL)/425-line (NTSC) resolution
- High-quality digital sound with 1-bit DLC (Direct Linear Conversion) D/A Converter
- Film mode (CLD-D515)

- Multilingual display: English, French, German or Italian
- Independent CD tray
- Display off switch (CLD-D515)
- Programme play of 24 chapters on both sides (LD) and 24 tracks (CD)
- Last Memory with Review Mode
- CLV Clear Scan

* Model with 'WPW1' suffix only
** Digital Colour DOC applies to playback of NTSC Laser Discs only

CLD-D500

CD/LD | **LD Both-side Play**

COMPACT **disc** DIGITAL AUDIO **LaserDisc**™ DD **RF** AC·3 OUT *BOTH* SIDE PLAY Quick Turn NTSC LASER DISC SR

- Both-side play with E-Turn Mechanism
- 3-line digital Y/C separation
- DVP (Digital Video Processing) system: For higher signal-to-noise ratio and colour fidelity with a Digital TBC (Time Base Corrector),

Digital PLL (Phase-Locked Loop), and Digital Colour DOC (Drop-Out Compensator)
- Quick turn mode

- AC-3 RF output for Dolby Digital
- High-quality picture: 425-line res-

olution, 50dB video signal-to-noise ratio
- High-quality digital sound with 1-bit DLC (Direct Linear Conversion) D/A Converter
- Independent CD tray
- Display off switch

- Programme play of 24 chapters on both sides (LD) and 24 tracks (CD)
- Last Memory with Review Mode
- CLV Clear Scan
- 2 S-video outputs
- 2 audio/video outputs
- Optical digital output

CLD-S180

CD/LD

COMPACT **disc** DIGITAL AUDIO **LaserDisc**™ NTSC LASER DISC SR

- DVP (Digital Video Processing) system: For higher signal-to-noise ratio and colour fidelity with a Digital TBC (Time Base Corrector), Digital PLL (Phase-Locked Loop), and Digital Colour DOC (Drop-Out

Compensator)
- High-quality picture: 425-line resolution, 49dB video signal-to-noise ratio
- High-quality digital sound with 1-bit DLC (Direct Linear Conversion)

D/A Converter

- Independent CD tray
- Programme play of 24 chapters on one side (LD) and 24 tracks (CD)
- Last Memory with Review Mode

- CLV Clear Scan
- 2 audio/video outputs
- SR (System Remote) control unit with power on/off switch
- RF adaptor ready

FEATURE COMPARISON: VCD/LD AND CD/LD PLAYERS

	CLD-210KVT(-G)	CLD-110KVT	CLD-S300V	CLD-D925	CLD-D515	CLD-S315	CLD-D500	CLD-S180
Format	NTSC			PAL/NTSC			NTSC	
Technical Features								
Video CD Ver. 2.0 Playback	yes	yes	yes					
Video CD Dual System (PAL/NTSC)	yes	yes	yes					
Laser Disc Dual System (PAL/NTSC)				yes	yes	yes		
Disc Play	Both Side	Single Side	Single Side	Both Side	Both Side	Single Side	Both Side	Single Side
Twin VCD/CD Tray	yes	yes						
Video CD (VCD) Functions								
VCD Playback Control (PBC)	yes	yes	yes					
VCD Digest Search	yes	yes	yes					
VCD Output Switching (NTSC/PAL/AUTO)	yes	yes	yes					
VCD NR	yes	yes						
Audio Features								
1-Bit DLC (Direct Linear Conversion)	yes	yes	yes	yes	yes	yes	yes	yes
CX Noise Reduction System (P=PAL; N=NTSC)				yes (P/N)	yes (P/N)	yes (N)	yes	yes
Surround (Simulated Stereo)	yes	yes						
Video Features								
DVP (Digital Video Processing) System	yes	yes	yes	yes	yes	yes	yes	yes
Digital TBC (Time Base Corrector)	yes	yes	yes	yes	yes	yes	yes	yes
Digital Comb Filter	3-line			3-line			3-line	
Picture Control (Sharpness Control)						yes		
Digital Field Memory				yes				
Conveniences								
Special Play Functions								
Film Mode						yes		
Quick Turn Mode		yes					yes	
Repeat Modes	7	6	6	7	7	6	7	6
Programme Play (Chapter/Track, 24 Steps)	yes	yes	yes	yes	yes	yes	yes	yes
Multi-Speed Play (Forward/Reverse) (LD)			CAV	CAV/CLV	CAV	CAV (NTSC)	CAV	CAV
Still/Step (Forward/Reverse)	CAV	CAV	CAV/CLV	CAV/CLV	CAV	CAV (NTSC)	CAV	CAV
Random Play			yes	yes	yes	yes	yes	yes
Last Memory (R=Review Mode)	yes	yes	yes (R)	yes (R)	yes (R)	yes (R)	yes (R)	yes (R)
Scan/Search Functions								
10-Key Direct Search and Play (Chapter/Track) (U=Unit/R=Remote)	yes (U*/R)	yes (U*/R)	yes (R)	yes (R)	yes (R)	yes (R)	yes (R)	yes (R)
Frame/Time Number Search (LD)	yes (CAV)	yes (CAV)	yes (CAV)	yes	yes	yes	yes	yes
Track/Time Search (CD)	yes (VCD)	yes (VCD)	yes (VCD)	yes (track)	yes (track)	yes (track)	yes (track)	yes (track)
Intro/Hi-Lite Scan			yes (intro)	yes	yes	yes	yes	yes
CLV Clear Scan				yes	yes	yes	yes	yes
Display								
On-Screen Information Display (24 Characters x 10 Lines)	yes	yes	yes	yes	yes	yes	yes	yes
On-Screen Contents Calendar				yes	yes	yes	yes	yes
Display Off (F=Fluorescent/O=On-Screen)				yes (F/O)	yes (F)		yes (F/O)	
Special Functions								
SR (System Remote) Control Unit	yes	yes	yes	yes	yes	yes	yes	yes
Jog & Shuttle (Remote)				yes				
Independent CD Tray			yes	yes	yes	yes	yes	yes
Terminals								
AC-3 RF Output for Dolby Digital	yes	yes	yes	yes	yes**	yes**	yes	
S-Video Outputs	2			1			2	
Video Outputs	2	2	2	1	1	1	2	2
Audio Outputs	2	2	2	1	1	1	2	2
Digital Output (O=Optical)				yes (O)			yes (O)	
SCART Euro-Connecctor				2	1	1		
Pioneer SR (System Remote) Terminal	yes	yes	yes	yes	yes	yes	yes	yes (in)
AUX Audio Input (Stereo)	yes	yes						

*U=15 keys; **Model with 'WPW1' suffix only

SPECIFICATIONS: VCD/LD AND CD/LD PLAYERS

	CLD-210KTV(-G)	CLD-110KVT	CLD-S300V	CLD-D925	CLD-D515	CLD-S315	CLD-D500	CLD-S180
	Karaoke VCD/LD Players			CD/LD Players				
Types of Discs	30cm and 20cm CAV/CLV Laser Discs, 12cm and 8cm Compact Discs, 12cm CDV, 12cm and 8cm Video CD Ver. 2.0	30cm and 20cm CAV/CLV Laser Discs, 12cm and 8cm Compact Discs, 12cm CDV, 12cm and 8cm Video CD Ver. 2.0	30cm and 20cm CAV/CLV Laser Discs, 12cm and 8cm Compact Discs, 12cm CDV, 12cm and 8cm Video CD Ver. 2.0	30cm and 20cm CAV/CLV Laser Discs, 12cm and 8cm Compact Discs, 12cm CDV	30cm and 20cm CAV/CLV Laser Discs, 12cm and 8cm Compact Discs, 12cm CDV	30cm and 20cm CAV/CLV Laser Discs, 12cm and 8cm Compact Discs, 12cm CDV	30cm and 20cm CAV/CLV Laser Discs, 12cm and 8cm Compact Discs, 12cm CDV	30cm and 20cm CAV/CLV Laser Discs, 12cm and 8cm Compact Discs, 12cm CDV
VIDEO CHARACTERISTICS								
Horizontal Resolution (lines) (LD)	425	425	425	440 (PAL)/425 (NTSC)	440 (PAL)/425 (NTSC)	440 (PAL)/425 (NTSC)	425	425
Signal-to-Noise Ratio (LD)	50dB	49dB	49dB				50dB	49dB
DIGITAL AUDIO CHARACTERISTICS								
Frequency Response	4–20,000Hz	4–20,000Hz	4–20,000Hz	4–20,000Hz	4–20,000Hz	4–20,000Hz	4–20,000Hz	4–20,000Hz
Signal-to-Noise Ratio (EIAJ) (LD/CD)	102dB	102dB	102dB	115dB	110dB	98dB	102dB	102dB
Dynamic Range (EIAJ) (LD/CD)	92dB	92dB	92dB	97dB	95dB	94dB	92dB	92dB
Total Harmonic Distortion (EIAJ)	0.0055%	0.0055%	0.0055%	0.003%	0.005%	0.005%	0.0055%	0.0055%
Wow and Flutter (EIAJ)	Unmeasurable (0.001% weighted peak or less)	Unmeasurable (0.001% weighted peak or less)	Unmeasurable (0.001% weighted peak or less)	Unmeasurable (0.001% weighted peak or less)	Unmeasurable (0.001% weighted peak or less)	Unmeasurable (0.001% weighted peak or less)	Unmeasurable (0.001% weighted peak or less)	Unmeasurable (0.001% weighted peak or less)
MISCELLANEOUS								
Power Requirements	110–240V 50/60Hz	110–240V 50/60Hz	110–240V 50/60Hz	220–240V 50/60Hz	220–240V 50/60Hz	220–240V 50/60Hz	110–240V 50/60Hz	110–240V 50/60Hz
Power Consumption	35W	35W	35W	51W	37W	33W	34W	30W
Dimensions (W x H x D) (without package)	420 x 132 x 439mm	420 x 132 x 416mm	420 x 120 x 384mm	420 x 132 x 407mm	420 x 132 x 399mm	420 x 120 x 381mm	420 x 132 x 405mm	420 x 120 x 387mm
Weight	7.2kg	6.7kg	5.6kg	6.8kg	6.8kg	5.8kg	6.4kg	5.7kg

# The Heart of Pioneer Advanced Home Theatre

FOR EXCITING HOME THEATRE SOUND

THX **THX* 5.1 (VSX-D906S)**
Lucasfilm, the producers of the *Star Wars* epics, developed Home THX on the basis of THX for movie theatres. **Home THX** is a set of performance standards and specifications that ensure that a home theatre system is capable of reproducing the sound fields of movies created in the mastering process. The VSX-D906S features THX 5.1: You will experience movie soundtracks just the way the film maker intended.

* THX is a trademark of Lucasfilm Ltd.

DOLBY DIGITAL **Dolby* Digital (VSX-D906S, VSX-D606S(-G), VSX-D607S(-G)†)**
Dolby Digital (AC-3) provides the most advanced home theatre sound to date; the VSX-D906S, VSX-D607S(-G) and VSX-D606S(-G) have a Dolby Digital decoder and equal high power for all 5 channels, including both surround channels. Sound is all digital and discrete channel by channel, to give you the most realistic and dynamic theatre sound possible. For the ultimate—5.1-channel Dolby Digital sound—all five receivers come with a preamp output for an optional powered subwoofer. Of course, the Dolby Digital decoder lets you enjoy Dolby Pro Logic, too.
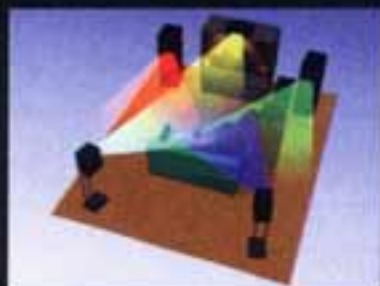
† The optional demodulator, RFD-1, is required to enjoy digital 5.1-channel theatre sound from Dolby Digital Laser Discs.

5.1-Channel Input (VSX-D507S, VSX-D457)
A Pioneer receiver with **5.1-Channel Input** is ready for Dolby Digital: it comes with the necessary 6 inputs for front left, front right, centre, surround left, surround right and subwoofer channels. Couple it with a DVD player with built-in decoder and add surround speakers, and you have a sound so spectacular you feel like you're at a cinema. With the VSX-D507S and VSX-D457, a trim control lets you adjust the levels of individual channels from a remote unit to heighten the sense of being at a cinema.

5D THEATER **Digital 5-D Theater (VSX-D507S, VSX-D457)**
With Dolby Pro Logic Surround, the sound from rear channels is mono—simply flat. So we developed **Digital 5-D Theater** for the 5-Channel AIS to let you enjoy an enhanced sense of left-right movement in surround channels. This Pioneer-developed exclusive technology simulates stereo sound for the rear channels based on the conditions of front-channel signals. You'll find on-screen action more real and more exciting.

Dolby Pro Logic with 5-D Theater · Dolby Pro Logic

Simulated Stereo Surround · Mono Surround
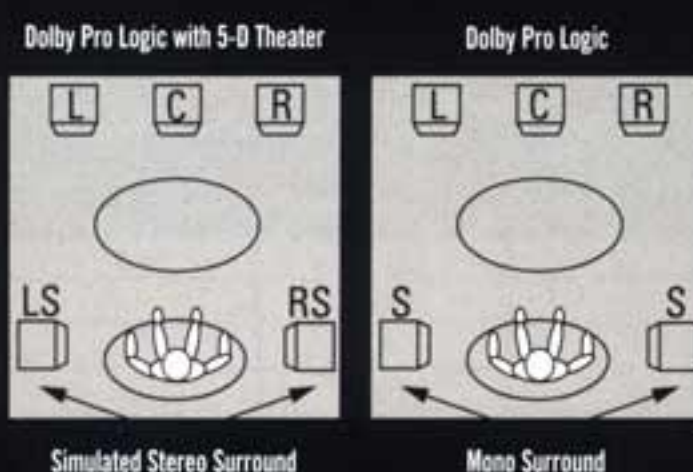
DOLBY SURROUND PRO·LOGIC **Dolby* Pro Logic* Surround (VSX-D507S, VSX-D457, VSX-D307)**
Dolby Pro Logic Surround creates the ambience of a cinema while you view videos in your home theatre. It decodes encoded sound information contained in Dolby Surround video software and produces 4 distinct outputs (front left and right, front centre and rear), to put you in the middle of the action. Thanks to steering logic (adaptive matrix), the sense of direction is dramatically enhanced, adding excitement to the action on-screen.

5-Channel Equal High Power Output with AIS (Accurate Imaging System) (VSX-D906S, VSX-D606S(-G), VSX-D607S(-G), VSX-D507S, VSX-D457)

5-CHANNEL EQUAL POWER

100w	100w	100w
FRONT	CENTRE	FRONT
100w		100w
REAR		REAR

Dolby Digital and Pro Logic receivers from Pioneer (excluding VSX-D307) feature **5-Channel Equal High Power Output** with AIS (Accurate Imaging System). High 5-channel power is absolutely necessary with Dolby Digital, since Dolby Digital features 5 discrete full-range channels for the most effective surround sound. With

Dolby Pro Logic, our 5-Channel AIS works with another Pioneer exclusive—**Digital 5-D Theater**—to give you an enhanced sense of left-right movement from surround channels.

DSP (Digital Signal Processor)
All Pioneer Dolby Digital and Dolby Pro Logic receivers feature high-performance DSPs (Digital Signal Processors), to offer a number of effective functions, including Dolby Digital, Dolby Pro Logic, Virtual Dolby Surround (TruSurround/SRS), DNR (Digital Noise Reduction) and sound field control (JAZZ, DANCE, HALL, THEATRE 1, 2). The DIALOG function controls the dynamic range by compression to make dialogue audible over sound effects.

Virtual DOLBY SURROUND **Virtual Dolby Surround (VSX-D507S, VSX-D457, VSX-D307)**
Virtual Dolby Surround allows two speakers up front to do the job of five speakers, letting you enjoy the 'virtual world' of Dolby home theatre. The Virtual Dolby Surround processor accepts and processes an output from the built-in Dolby Pro Logic decoder, so that two speakers in front produce a virtual surround field, mixing the rear sound with the front. Moreover, the VSX-D507S and VSX-D457 feature upgraded **TruSurround***—an additional virtualizer—for more sophisticated creation of virtual surround sound from Dolby Pro Logic sources. SRS 3-D is also available for retrieval of spatial information from any stereo source and restoration of the original 3-dimensional sound field.
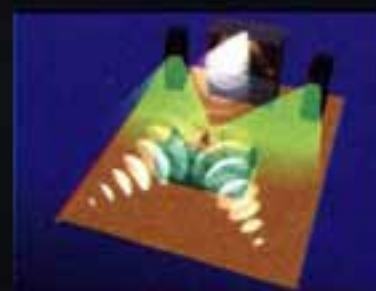
Note: Pioneer's Virtual Dolby Surround incorporates TruSurround technology under license from SRS Labs, Inc. TRUSURROUND, SRS and (●) are trademarks of SRS Labs, Inc.

DNR (Digital Noise Reduction) (VSX-D507S)
DNR is a frequency-domain noise reduction technology. It intelligently discriminates noise by dividing the signal into a number of frequency bands, assessing the presence or absence of a signal in each band, and suppressing noise for no-signal bands. Moreover, DNR uses algorithms that are optimized source by source (cassette, video tape, etc.).

The result: noise is effectively reduced, while sound quality is not degraded or otherwise affected at all.

Direct Energy MOS Power Amplifier (VSX-D906S)
Our new **Direct Energy MOS Power Amp** incorporates a high-performance power device called Hex MOS FET that features higher current linearity and less heat generation than conventional bipolar transistors or MOS FETs. These outstanding properties make the Hex MOS FET the ideal device for high-power multi-channel amplification with low distortion.
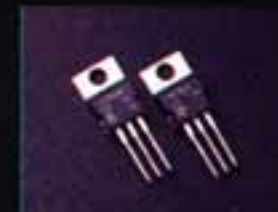
FOR INTELLIGENT SYSTEM CONTROL

ISC *Intelligent System Control* **ISC (Intelligent System Control) (VSX-D906S, VSX-D606S(-G), VSX-D607S(-G), VSX-D507S)**
The Pioneer ISC features the **Multi-Operation Smart Remote**. This remote not only comes preprogrammed to control our SR (System Remote) audio and video components, but even has the ability to learn functions of most other infrared remotes—that's why it's smart! Moreover, codes for audio/video components from other manufacturers are factory preset. Just recall the code number for the manufacturers and components you use, and you're ready to control them all from a single remote.

Another feature of Pioneer ISC is a set of **Multi-Operation Commands** that cause a series of events to happen at a touch—all automatically, every time. So, for instance, it takes just a simple press of a button to turn the receiver, TV and CLD player on, and start play on the CLD player.

With the VSX-D906S, moreover, **On-Screen GUI (Graphical User Interface)** turns your TV into an interactive display that guides you through operations and lets you adjust and confirm settings easily. With the VSX-D606S(-G), VSX-D607S(-G) and VSX-D507S, a fluorescent display on the unit itself serves as an interactive control to facilitate use.

* 'Dolby', the double-D symbol, 'Pro Logic' and 'AC-3' are trademarks of Dolby Laboratories Licensing Corporation.

VSX-D906S

| THX 5.1 | Dolby Digital/Pro Logic | On-Screen GUI | 100W x 5 (6Ω) |

THX | DOLBY DIGITAL | ISC Intelligent System Control | SR

- **Stereo: 95W + 95W** (DIN, 8 ohms)
- **5-Channel Equal High Power Output with AIS (Accurate Imaging System) (100W x 5)**
- **Surround: Continuous power output: 100W + 100W (6 ohms, 1kHz, 0.8% THD) (front); 100W (6 ohms, 1kHz, 0.8% THD) (centre); 100W + 100W (6 ohms, 1kHz, 0.8% THD) (surround)**

- THX 5.1
- Built-in AC-3 demodulator for conversion of AC-3 into digital signal
- Direct Energy MOS Power Amplifier
- Digital Signal Processor (DSP) for Dolby Digital/Dolby Pro Logic and Sound Field Control
  * Optical and coaxial digital/RF inputs for Dolby Digital
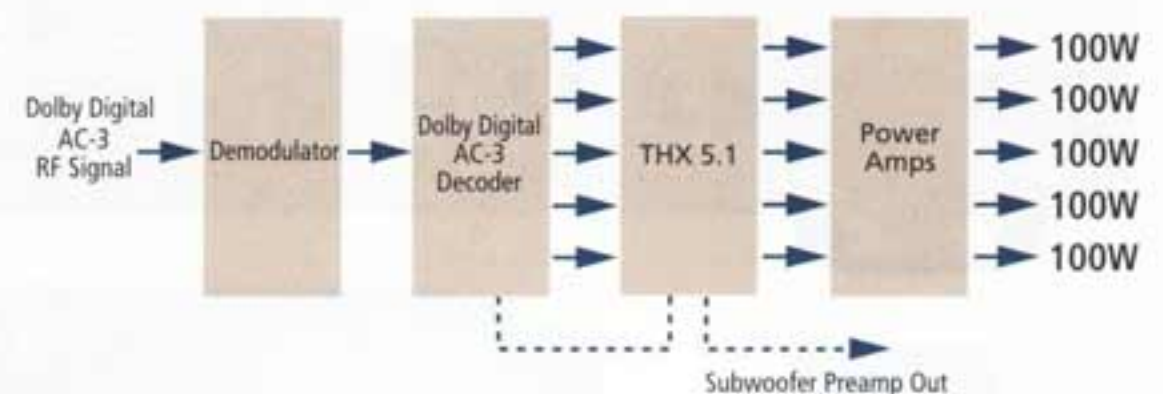
- ISC (Intelligent System Control) with Multi-Operation Smart Remote
- Sound field control: JAZZ, DANCE, HALL, THEATRE 1, 2
- On-screen GUI (Graphical User Interface)
- DVD Control
- File-type CD control (CD title list)
- Motor-driven volume control
- SOURCE DIRECT switch

- 5 video inputs
- 5 audio inputs
- Speaker outputs: FRONT A/B, REAR, CENTRE
- Preamp outputs for all 5 channels and subwoofer

Note: The VSX-D906S described here is different from the one available in the United States even if they bear the same model number.

THX 5.1

Lucasfilm, the producers of the *Star Wars* epics, developed Home THX on the basis of the THX for movie theatres. Home THX is a set of criteria to ensure that a home theatre system is capable of reproducing the sound fields of movies as originally mastered—in other words, just the way the film maker intended.

Dolby Digital AC-3 RF Signal → Demodulator → Dolby Digital AC-3 Decoder → THX 5.1 → Power Amps → 100W / 100W / 100W / 100W / 100W

Subwoofer Preamp Out

Sound Field Control Modes

	Programmes	Effects of Simulated Sound Fields
Surround Modes	Dolby Digital	For 5.1-channel playback of Dolby Digital software
	Dolby Pro Logic	Provides an enhanced sense of direction and clear definition from sound effects and dialogue recorded in Dolby Surround
Sound Field Control Modes	Jazz	To recreate the cozy atmosphere of a small jazz club
	Dance	You'll get the full, live feeling of a typical disco with the dance floor at centre
	Hall	Acoustic parameters are optimized to recreate a large concert hall seating 1,000 to 2,000 people
	Theatre 1	Acoustic parameters are optimized to simulate the atmosphere of a medium-sized cinema in your living room
	Theatre 2	You enjoy the ambiance of a cinema as well as high channel definition. When used with a surround mode, lets you enjoy the high-impact, dynamic sound of the latest movies
	Dialog*	Dynamic range for dialogue frequencies is compressed to allow you to hear dialogue clearly against sound effects

* VSX-D507S and VSX-D457 only

On-Screen GUI
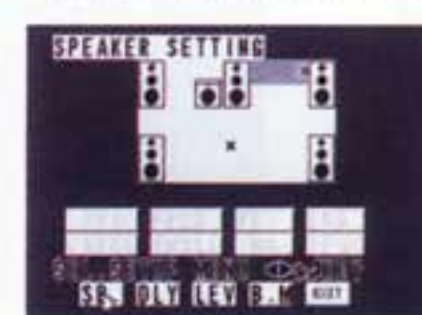
SPEAKER SETTING Mode
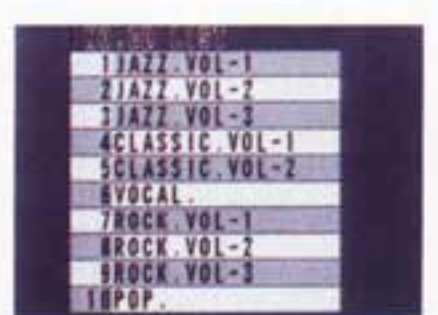
CD LIST Mode

CD LIST INPUT Mode

TUNER LIST INPUT Mode

To enjoy THX 5.1 and Dolby Digital to the full, levels between the speakers must be critically adjusted. With the VSX-D906S's On-Screen GUI, you can match speaker levels easily thanks to the graphical on-screen representations.

VSX-D606S(-G)

Dolby Digital   **Dolby Pro Logic**   100W x 5 (8Ω)

DD DOLBY DIGITAL   *ISC* Intelligent System Control   SR

VSX-D606S

VSX-D607S(-G)

Dolby Digital   **Dolby Pro Logic**   100W x 5 (8Ω)

DD DOLBY DIGITAL   *ISC* Intelligent System Control   SR
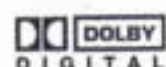
VSX-D606S-G

VSX-D607S-G

VSX-D607S

- Stereo: 130W + 130W (DIN, 8 ohms)
- 5-Channel Equal High Power Output with AIS (Accurate Imaging System) (100W x 5)
- Surround: Continuous power output: 100W + 100W (8 ohms, 1kHz, 0.8% THD) (front); 100W (8 ohms, 1kHz, 0.8% THD) (centre); 100W + 100W (8 ohms, 1kHz, 0.8% THD) (surround)

- Built-in AC-3 demodulator for conversion of AC-3 into digital signal (VSX-D606S(-G))
- Digital Signal Processor (DSP) for Dolby Digital/Dolby Pro Logic and Sound Field Control
- Dolby Digital:
  * Coaxial digital/RF inputs for Dolby Digital (VSX-D606S(-G))
  * Optical/coaxial digital input for Dolby Digital (VSX-D607S(-G))
- ISC (Intelligent System Control) with Multi-Operation Smart Remote
- Sound field control: JAZZ, DANCE, HALL, THEATRE 1, 2
- DVD Control
- A/V input on front
- Motor-driven volume control
- DIRECT switch

- 4 video inputs
- 4 audio inputs
- Random presets for 30 FM/AM stations
- Speaker outputs: FRONT A/B, REAR, CENTRE
- Preamp outputs for centre channel and subwoofer

RFD-1   Optional Demodulator

The optional RFD-1 accepts an AC-3 RF signal from an LD and converts it into a digital signal. Use it with the VSX-D607S(-G) for playback of Dolby Digital Laser Discs. Since it also comes with optical and coaxial digital inputs for PCM and Dolby Digital DVDs, you can easily switch between DVD and LD on a DVD/LD player such as the Pioneer DVL-909.
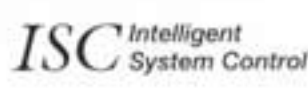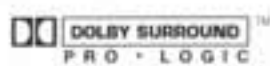
VSX-D507S

Digital 5-D Theater | **Dolby Pro Logic** | **100W x 5 (8Ω)**

5-D THEATER | DOLBY SURROUND PRO·LOGIC | Virtual DOLBY SURROUND | TruSurround with SRS(●) | ISC *Intelligent System Control* | SR

- Stereo: 120W + 120W (DIN, 8 ohms)
- 5-Channel Equal High Power Output with AIS (Accurate Imaging System) (100W x 5)
- Surround: Continuous power output: 100W + 100W (8 ohms, 1kHz, 0.8% THD) (front); 100W (8 ohms, 1kHz, 0.8% THD) (centre); 100W + 100W (8 ohms, 1kHz, 0.8% THD) (surround)

- Digital Signal Processor (DSP) for Dolby Pro Logic and Sound Field Control
- 5.1-channel input for Dolby Digital DVD discs: Centre, Surround-Left, Surround-Right, Subwoofer
- ISC (Intelligent System Control) with Multi-Operation Smart Remote
- Sound field control: JAZZ, DANCE, HALL, THEATRE 1, 2, DIALOGUE

- Digital Noise Reduction
- Digital 5-D Theater
- Virtual Dolby Surround (TruSurround/SRS)
- DVD Control
- Motor-driven volume control
- A/V input on front
- 4 video inputs
- 4 audio inputs
- Random presets for 30 FM/AM stations

- Speaker outputs: FRONT A/B, REAR, CENTRE
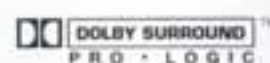- Preamp outputs for centre channel and subwoofer

5.1-Channel Input for Dolby Digital DVD Discs

VSX-D457

Digital 5-D Theater | **Dolby Pro Logic** | **100W x 5 (8Ω)**

5-D THEATER | DOLBY SURROUND PRO·LOGIC | Virtual DOLBY SURROUND | TruSurround with SRS(●) | SR

- Stereo: 120W + 120W (DIN, 8 ohms)
- 5-Channel Equal High Power Output with AIS (Accurate Imaging System) (100W x 5)
- Surround: Continuous power output: 100W + 100W (8 ohms, 1kHz, 0.8% THD) (front); 100W (8 ohms, 1kHz, 0.8% THD)

- (centre); 100W + 100W (8 ohms, 1kHz, 0.8% THD) (surround)
- Digital Signal Processor (DSP) for Dolby Pro Logic and Sound Field Control
- 5.1-channel input for Dolby Digital DVD discs: Centre, Surround-Left, Surround-Right, Subwoofer

- Sound field control: JAZZ, DANCE, HALL, THEATRE 1, 2, DIALOGUE
- Digital 5-D Theater
- Virtual Dolby Surround (TruSurround/SRS)
- Full-function A/V SR (System Remote) control unit
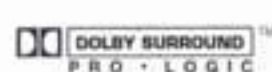- DVD Control
- Motor-driven volume control

- 3 video inputs
- 4 audio inputs
- Random presets for 30 FM/AM stations
- Speaker outputs: FRONT A/B, REAR, CENTRE
- Preamp outputs for centre channel and subwoofer

VSX-D307

Dolby Pro Logic **Virtual Dolby Surround** **100W x 4 (8Ω)**

- Stereo: 110W + 110W (DIN, 8 ohms)
- 4-Channel Equal High Power Output with AIS (Accurate Imaging System) (100W x 4)
- Surround: Continuous power output: 100W + 100W (8 ohms, 1kHz, 0.9% THD) (front); 100W

(8 ohms, 1kHz, 0.9% THD) (centre); 100W (8 ohms, 1kHz, 0.9% THD) (surround)

- Digital Signal Processor (DSP) for Dolby Pro Logic and Sound Field Control
- Sound field control: JAZZ, DANCE, HALL, THEATRE 1, 2
- Virtual Dolby Surround
- Full-function A/V SR (System Remote) control unit
- DVD Control
- Motor-driven volume control
- 2 video inputs
- 4 audio inputs
- Random presets for 30 FM/AM stations
- Speaker outputs: FRONT, REAR, CENTRE
- Preamp outputs for subwoofer

VSX-295

Quartz-Synthesizer Receiver **115W x 2 (8Ω)**

- Continuous power output: 115W + 115W (DIN, 8 ohms)
- Full-function SR (System Remote) control unit
- Super bass

- DVD control
- 2 video inputs
- 4 audio inputs
- Tone controls (bass/treble)
- Random presets for 30 FM/AM stations
- 3-speed tuning
- Motor-driven volume control
- Speaker A/B selector

SX-205

Quartz-Synthesizer Receiver **115W x 2 (8Ω)**

- Continuous power output: 115W + 115W (DIN, 8 ohms)
- Super bass
- Random presets for 30 FM/AM stations

- 6 audio inputs
- 3-speed tuning
- Tone controls (bass/treble)
- Speaker A/B selector

FEATURE COMPARISON: AUDIO/VIDEO RECEIVERS

	VSX-D906S	VSX-D606S(-G)	VSX-D607S(-G)	VSX-D507S	VSX-D457	VSX-D307	VSX-295	SX-205
Power Output								
Stereo (DIN) (8 Ohms)	95W+95W	130W + 130W	130W + 130W	120W + 120W	120W + 120W	110W + 110W	115W+115W	115W+115W
Stereo (FTC) (8 Ohms) (*=6 Ohms)	100W+100W*	100W+100W	100W+100W	100W + 100W	100W + 100W	100W + 100W	100W+100W	100W+100W
Surround								
Front (8 Ohms) (*=6 Ohms)	100W+100W*	100W+100W	100W+100W	100W + 100W	100W + 100W	100W + 100W	–	–
Centre (8 Ohms) (*=6 Ohms)	100W*	100W	100W	100W	100W	100W	–	–
Surround (8 Ohms) (* =6 Ohms)	100W+100W*	100W+100W	100W+100W	100W + 100W	100W + 100W	100W	–	–
Surround Sound								
THX. 5.1	yes							
DSP (Digital Signal Processor)	yes	yes	yes	yes	yes	yes		
5-Channel Equal High Power Output (AIS)	yes	yes	yes	yes	yes	4-channel		
Dolby Digital (DSP) (†=with RFD-1 Demodulator)	yes	yes	yes†					
Dolby Pro Logic Surround (DSP)	yes	yes	yes	yes	yes	yes		
Dolby 3-Channel Logic (* Speaker mode=rear none)	yes*	yes*	yes	yes	yes	yes		
Virtual Dolby Surround (DSP) (* = TruSurround/SRS)				yes*	yes*	yes		
DNR (DSP)				yes				
Digital 5-D Theater (DSP)				yes	yes			
Sound Field Control (DSP)								
JAZZ	yes	yes	yes	yes	yes	yes		
DANCE	yes	yes	yes	yes	yes	yes		
HALL	yes	yes	yes	yes	yes	yes		
THEATRE 1 & 2	yes	yes	yes	yes	yes	yes		
DIALOG (DR Compression)				yes	yes			
Audio Features								
Direct Energy MOS Power Amplifier	yes							
Motor-Driven Volume Control	yes	yes	yes	yes	yes	yes	yes	
SOURCE DIRECT Switch	yes	yes	yes	yes	yes	yes		
Bass/Treble Tone Controls	yes	yes	yes	yes	yes	yes	yes	yes
Loudness	yes	yes	yes	yes	yes	yes		
Super Bass							yes	yes
Advanced Control								
ISC with Multi-Operation Smart Remote	yes	yes	yes	yes				
Multi-Operation Commands	yes	yes	yes	yes				
On-Screen GUI (Graphical User Interface)	yes							
SR (System Remote) Control	yes	yes	yes	yes	yes	yes	yes	
Remote Key Illumination	yes	yes	yes					
Tuning Jog Dial		yes	yes					
File-Type CD Control (CD Title List)	yes							
DVD Player Control	yes	yes	yes	yes	yes	yes	yes	
Conveniences								
Random Preset Stations	30	30	30	30	30	30	30	30
RETURN Key		yes	yes				yes	
Terminals								
5.1-Channel Input (C=Centre, SL=Surround Left, SR=Surround Right, SW=Subwoofer)				yes C/SL/SR/SW	yes C/SL/SR/SW			
AC-3 RF Input	yes	yes						
Digital Input for Dolby Digital (O=Optical/C=Coaxial)	yes (O/C)	yes (C)	yes (O/C)					
Audio (TUNER Included)/Video Inputs	5/5	4/4	4/4	4/4	4/3	4/2	4/2	6/–
Preamp Outputs (C=Centre, F=Front, S=Surround [Rear], SW=Subwoofer)	C/F/S/SW	C/SW	C/SW	C/SW	C/SW	SW	SW	
A/V Input on Front	yes	yes	yes	yes				
Pioneer SR (System Remote) In/Out Terminals	In/Out	In/Out	In/Out	In/Out	Out	Out		
Speaker Outputs								
Front A/B	Parallel	Series	Series	Series	Series	A	Series	Series
Centre	yes	yes	yes	yes	yes	yes		
Surround (Rear)	yes	yes	yes	yes	yes	yes		

SPECIFICATIONS: AUDIO/VIDEO RECEIVERS

|	VSX-D906S	VSX-D606S(-G)	VSX-D607S(-G)	VSX-D507S	VSX-D457
AMPLIFIER SECTION					
Continuous Power Output					
DIN (1kHz, 8 ohms)	95W + 95W	130W + 130W	130W + 130W	120W + 120W	120W + 120W
Stereo (Front Channels)	100W + 100W (20–20,000Hz, 0.09% THD, 6 ohms)	100W + 100W (20–20,000Hz, 0.09% THD, 8 ohms)	100W + 100W (20–20,000Hz, 0.09% THD, 8 ohms)	100W + 100W (20–20,000Hz, 0.09% THD, 8 ohms)	100W + 100W (20–20,000Hz, 0.09% THD, 8 ohms)
5/4-Channel					
Front Channels (1kHz)	100W + 100W (0.8% THD, 6 ohms)	100W + 100W (0.8% THD, 8 ohms)	100W + 100W (0.8% THD, 8 ohms)	100W + 100W (0.8% THD, 8 ohms)	100W + 100W (0.8% THD, 8 ohms)
Centre Channel (1kHz)	100W (0.8% THD, 6 ohms)	100W (0.8% THD, 8 ohms)	100W (0.8% THD, 8 ohms)	100W (0.8% THD, 8 ohms)	100W (0.8% THD, 8 ohms)
Surround Channels (1kHz)	100W + 100W (0.8% THD, 6 ohms)	100W + 100W (0.8% THD, 8 ohms)	100W + 100W (0.8% THD, 8 ohms)	100W + 100W (0.8% THD, 8 ohms)	100W + 100W (0.8% THD, 8 ohms)
Total Harmonic Distortion (8 ohms)	0.09% (20–20,000Hz, 6 ohms, continuous rated power output)	0.09% (20–20,000Hz, continuous rated power output)	0.09% (20–20,000Hz, continuous rated power output)	0.09% (20–20,000Hz, continuous rated power output)	0.09% (20–20,000Hz, continuous rated power output)
Input (Sensitivity/Impedance)					
PHONO (MM)	2.8mV/47k ohms	2.8mV/47k ohms	2.8mV/47k ohms	2.8mV/47k ohms	2.8mV/47k ohms
CD, TAPE, VCR, LD	275mV/47k ohms	200mV/47k ohms	200mV/47k ohms	200mV/47k ohms	200mV/47k ohms
Output					
TAPE REC, VCR, REC	275mV/2.2k ohms	200mV/2.2k ohms	200mV/2.2k ohms	200mV/2.2k ohms	200mV/2.2k ohms
Frequency Response					
PHONO (RIAA Equalization)	20–20,000Hz ±0.3dB	20–20,000Hz ±0.3dB	20–20,000Hz ±0.3dB	20–20,000Hz ±0.5dB	20–20,000Hz ±0.5dB
CD, TAPE, VCR, LD	5–100,000Hz +0dB, -3dB	5–100,000Hz +0dB, -3dB	5–100,000Hz +0dB, -3dB	10–100,000Hz +0dB, -3dB	10–100,000Hz +0dB, -3dB
Signal-to-Noise Ratio (IHF '66/EIA)					
PHONO (MM)	80dB/80dB*	75dB/75dB*	75dB/75dB*	72dB/75dB	72dB/75dB
CD, TAPE, VCR, LD	97dB/83dB*	97dB/80dB*	97dB/80dB*	96dB/79dB	96dB/79dB
FM TUNER SECTION					
Usable Sensitivity (mono)	11.2dBf (1.0μV, 75 ohms)	11.2dBf (1.0μV, 75 ohms)	11.2dBf (1.0μV, 75 ohms)	13.2dBf (1.3μV, 75 ohms)	13.2dBf (1.3μV, 75 ohms)
50dB Quieting Sensitivity					
Mono	16.8dBf (1.9μV, 75 ohms)	16.8dBf (1.9μV, 75 ohms)	16.8dBf (1.9μV, 75 ohms)	20.2dBf (2.8μV, 75 ohms)	20.2dBf (2.8μV, 75 ohms)
Stereo	38.6dBf (23.3μV, 75 ohms)	38.6dBf (23.3μV, 75 ohms)	38.6dBf (23.3μV, 75 ohms)	38.6dBf (23.3μV, 75 ohms)	38.6dBf (23.3μV, 75 ohms)
Signal-to-Noise Ratio					
Mono/Stereo	73dB (at 85dBf)/70dB (at 85dBf)	73dB (at 85dBf)/70dB (at 85dBf)	73dB (at 85dBf)/70dB (at 85dBf)	73dB (at 85dBf)/70dB (at 85dBf)	73dB (at 85dBf)/70dB (at 85dBf)
Total Harmonic Distortion (at 65dBf)					
1kHz (mono/stereo)	–/0.5%	–/0.5%	–/0.5%	–/0.5%	–/0.5%
Frequency Response	30–15,000Hz ±1.0dB	30–15,000Hz ±1.0dB	30–15,000Hz ±1.0dB	30–15,000Hz ±1.0dB	30–15,000Hz ±1.0dB
Alternate Channel Selectivity	60dB (400kHz)	60dB (400kHz)	60dB (400kHz)	60dB (400kHz)	60dB (400kHz)
Stereo Separation (1kHz)	40dB	40dB	40dB	40dB	40dB
VIDEO SECTION					
Input (Sensitivity/Impedance)	1Vp-p/75 ohms	1Vp-p/75 ohms	1Vp-p/75 ohms	1Vp-p/75 ohms	1Vp-p/75 ohms
Output (Level/Impedance)	1Vp-p/75 ohms	1Vp-p/75 ohms	1Vp-p/75 ohms	1Vp-p/75 ohms	1Vp-p/75 ohms
Frequency Response	5Hz–10MHz +0dB, -3dB	5Hz–7MHz +0dB, -3dB	5Hz–7MHz +0dB, -3dB	5Hz–7MHz +0dB, -3dB	5Hz–7MHz +0dB, -3dB
Signal-to-Noise Ratio	55dB	55dB	55dB	55dB	55dB
MISCELLANEOUS					
Power Requirements	110/120–127/220/240V (switchable) 50/60Hz	110/120–127/220/240V (switchable) 50/60Hz	110/120–127/220/240V (switchable) 50/60Hz	110/120–127/220/240V (switchable) 50/60Hz	110/120–127/220/240V (switchable) 50/60Hz
Power Consumption	500W	770W	770W	340W	340W
Dimensions (W x H x D) (without package)	420 x 177 x 449mm	420 x 160 x 374mm	420 x 158 x 374mm	420 x 158 x 373mm	420 x 158 x 373mm
Weight (without package)	14.2kg	9.8kg	9.4kg	9.0kg	9.0kg

* Direct switch on

VSX-D906S
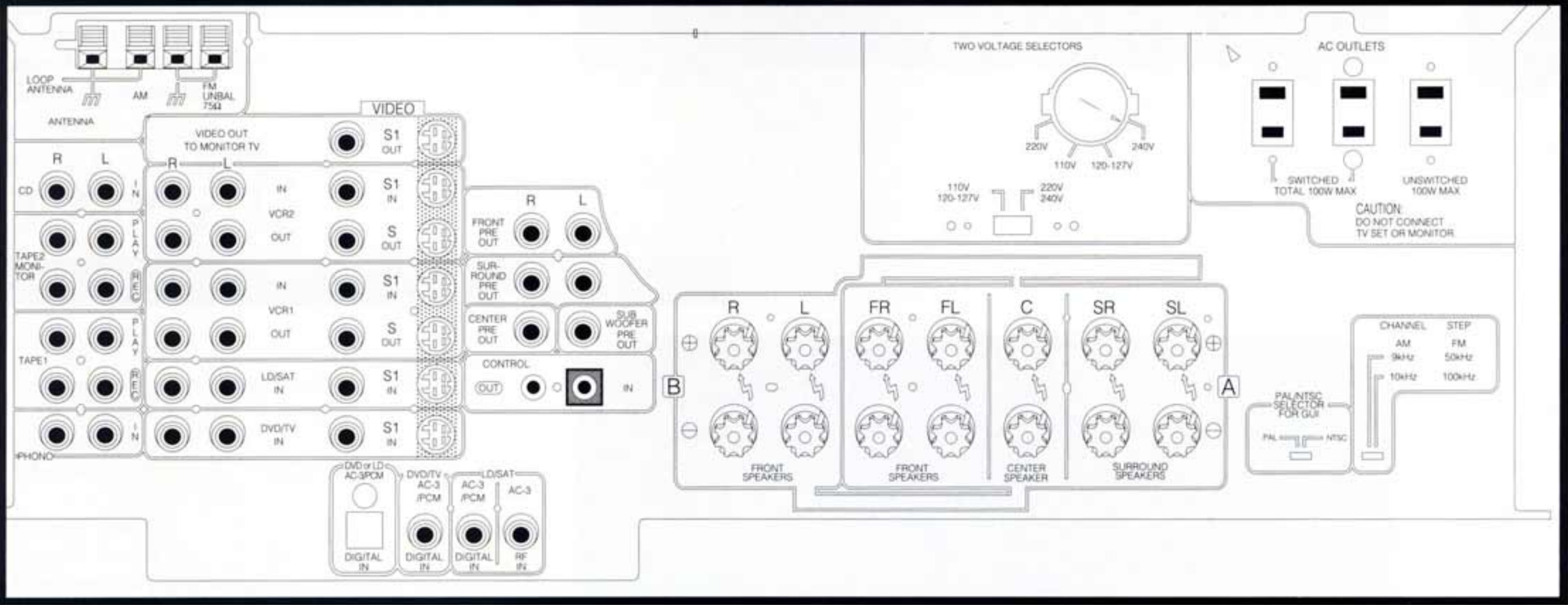
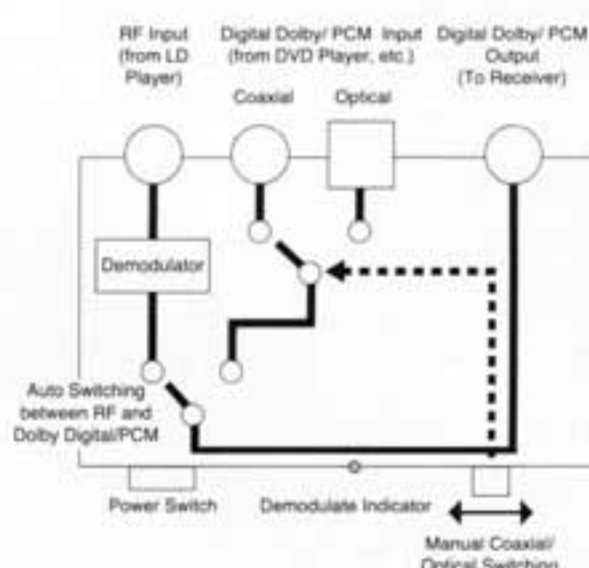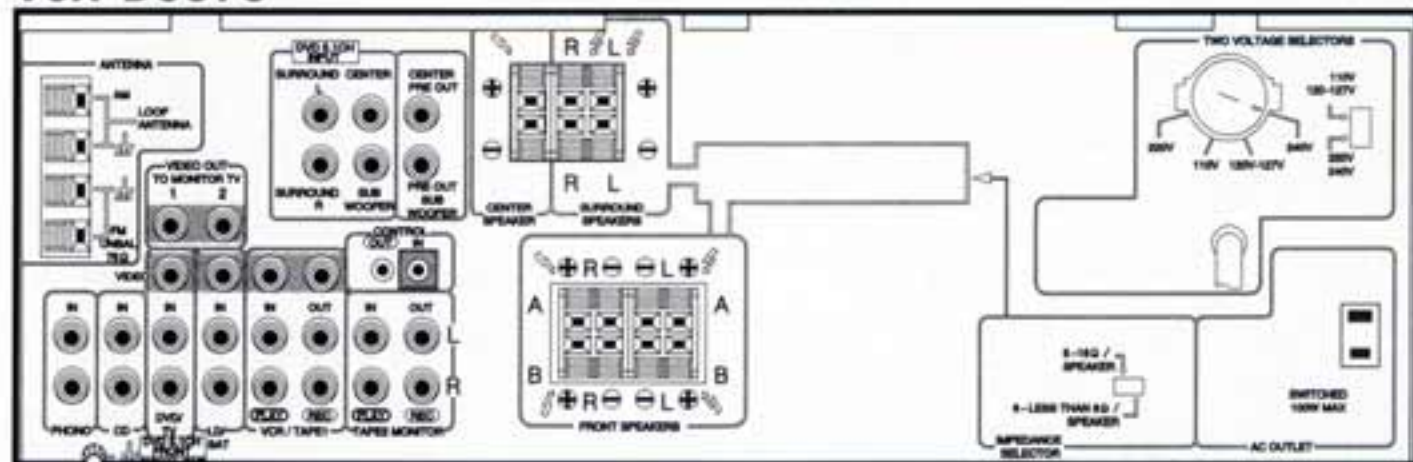|	VSX-D307	VSX-295	SX-205
	110W + 110W	115W + 115W	115W + 115W
	100W + 100W (40–20,000Hz, 0.9% THD, 8 ohms)	100W + 100W (40–20,000Hz, 0.9% THD, 8 ohms)	100W + 100W (40–20,000Hz, 0.9% THD, 8 ohms)
	100W + 100W (0.9% THD, 8 ohms)		
	100W (0.9% THD, 8 ohms)		
	100W (0.9% THD, 8 ohms)		
	0.9% (40–20,000Hz, continuous rated power output)	0.9% (40–20,000Hz, continuous rated power output)	0.9% (40–20,000Hz, continuous rated power output)
	2.8mV/47k ohms	2.8mV/47k ohms	2.8mV/47k ohms
	200mV/47k ohms	200mV/47k ohms	200mV/47k ohms
	200mV/2.2k ohms	200mV/2.2k ohms	200mV/2.2k ohms
	20–20,000Hz ±0.5dB	20–20,000Hz ±0.5dB	20–20,000Hz ±0.5dB
	10–100,000Hz +0dB, -3dB	10–100,000Hz +0dB, -3dB	10–100,000Hz +0dB, -3dB
	72dB/75dB	72dB/75dB	72dB/75dB
	96dB/79dB	96dB/79dB	96dB/79dB
	13.2dBf (1.3µV, 75 ohms)	11.2dBf (1.0µV, 75 ohms)	11.2dBf (1.0µV, 75 ohms)
	20.2dBf (2.8µV, 75 ohms)	16.8dBf (1.9µV, 75 ohms)	16.8dBf (1.9µV, 75 ohms)
	38.6dBf (23.3µV, 75 ohms)	38.6dBf (23.3µV, 75 ohms)	38.6dBf (23.3µV, 75 ohms)
	73dB (at 85dBf)/70dB (at 85dBf)	73dB (at 65dBf)/70dB (at 85dBf)	73dB (at 65dBf)/70dB (at 85dBf)
	–/0.5%	–/0.5%	–/0.5%
	30–15,000Hz +1.0dB	30–15,000Hz +1.0dB	30–15,000Hz +1.0dB
	60dB (400kHz)	60dB (400kHz)	60dB (400kHz)
	40dB	40dB	40dB
	1Vp-p/75 ohms	1Vp-p/75 ohms	
	1Vp-p/75 ohms	1Vp-p/75 ohms	
	5Hz–7MHz +0dB, -3dB	5Hz–7MHz +0dB, -3dB	
	55dB	55dB	
	110/120–127/220/240V (switchable) 50/60Hz	110/120–127/220/240V (switchable) 50/60Hz	110/120–127/220/240V (switchable) 50/60Hz
	210W	540W	520W
	420 x 143 x 325mm	420 x 140 x 328mm	420 x 140 x 298mm
	7.7kg	7.3kg	6.8kg

VSX-D606S(-G)
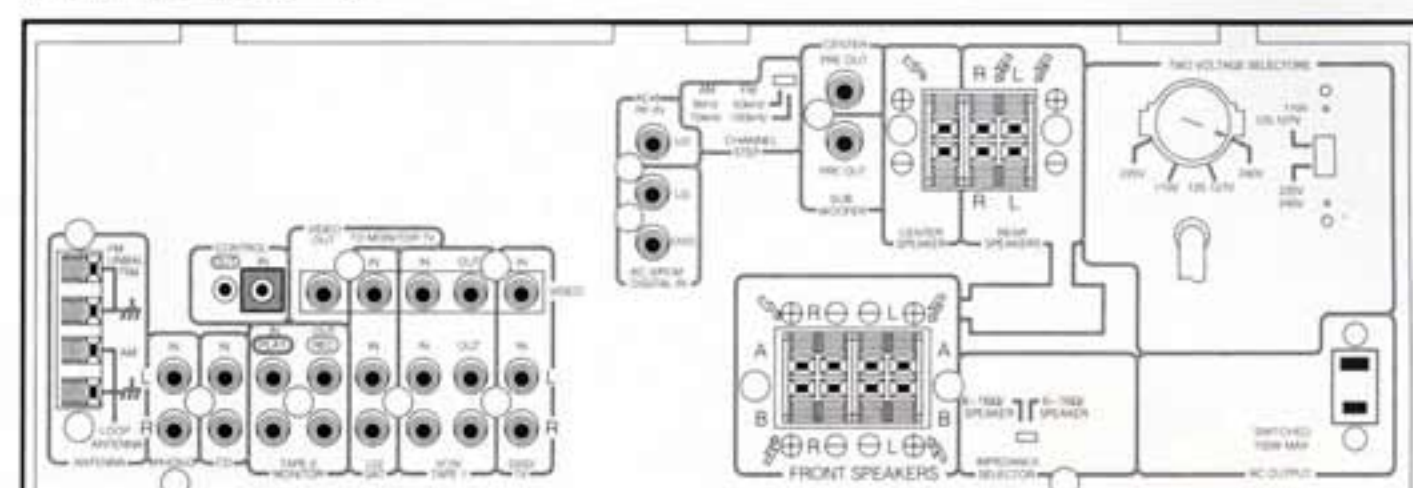
VSX-D607S(-G)
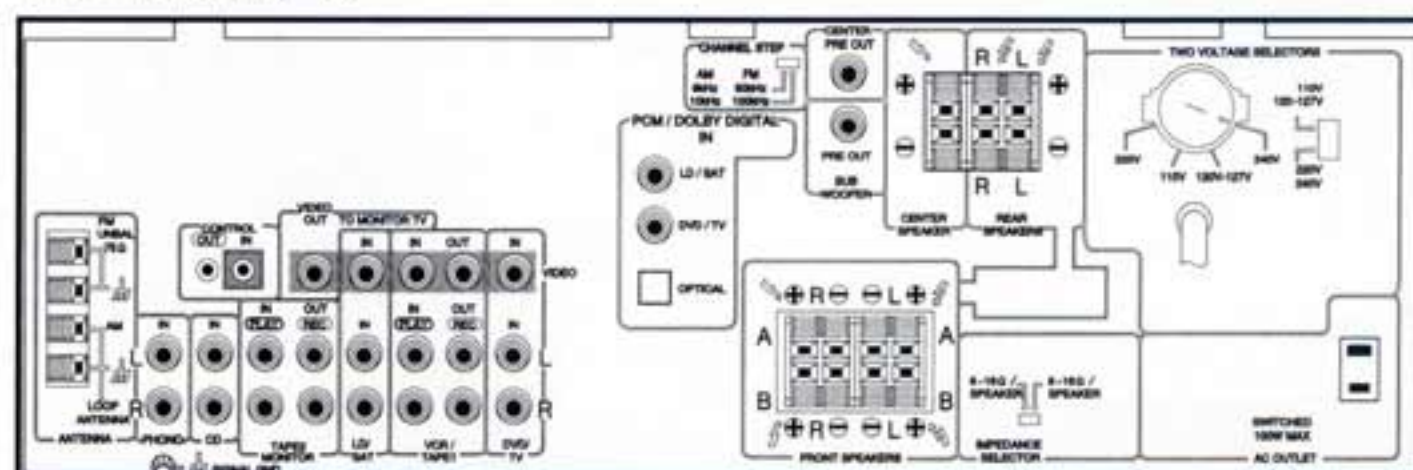
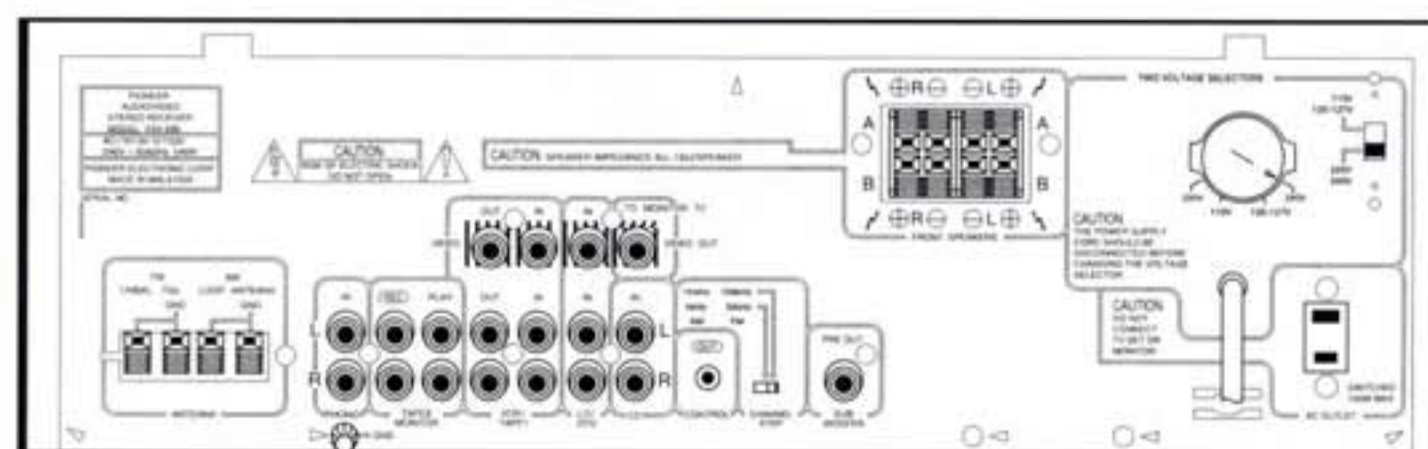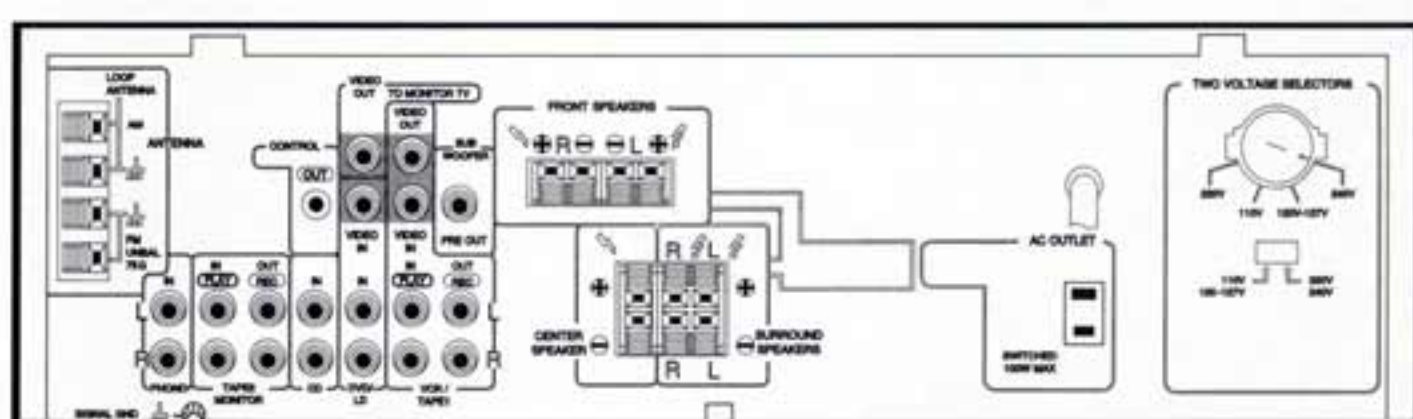RFD-1 Demodulator Connection Diagram

VSX-D507S

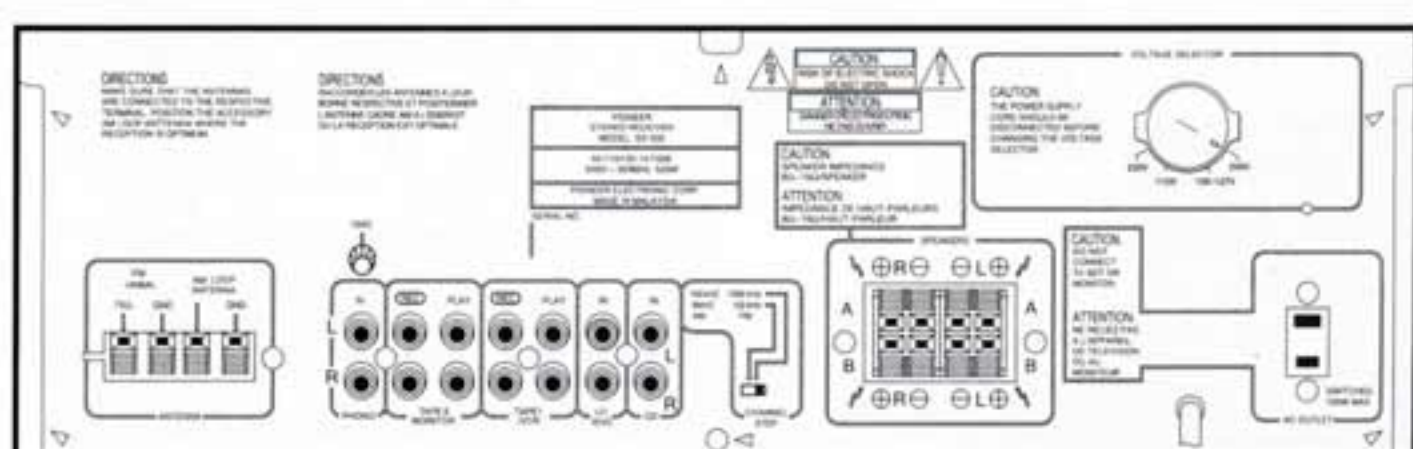## VSX-D457
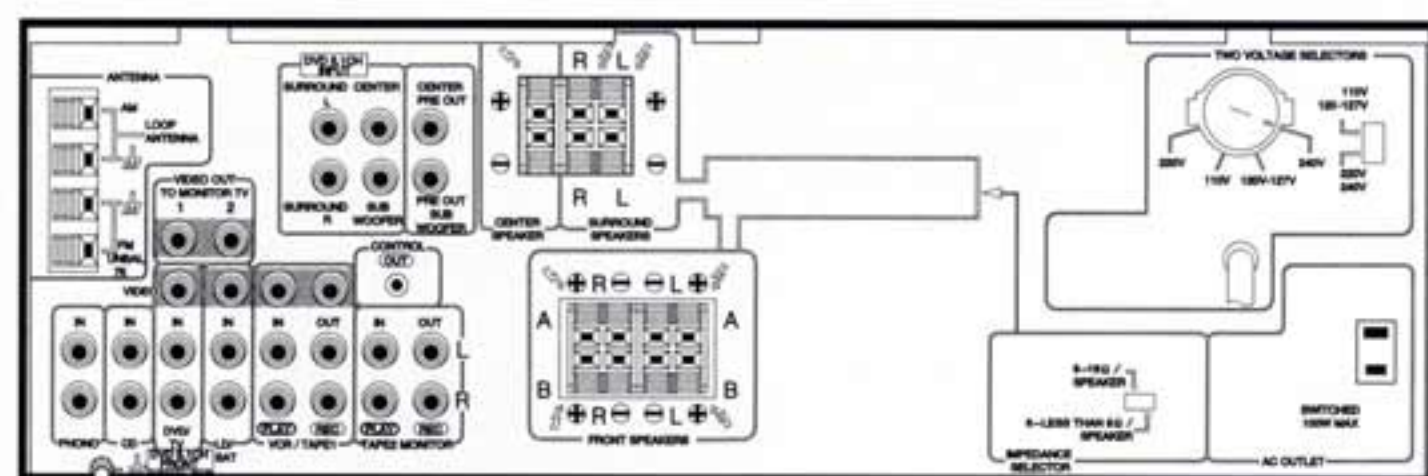
VSX-D307

VSX-295

SX-205

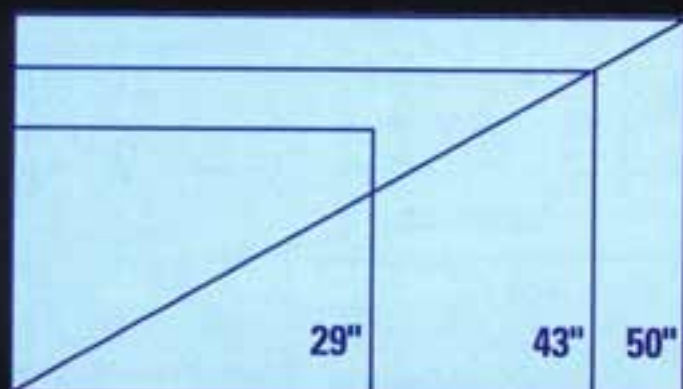## A Large, Wide Screen for the Feel of a Movie Theatre

FOR BIGGER, WIDER PICTURES

Pioneer Widescreen in Dynamic 16:9 Proportions

The SD-T50W1 and SD-T43W1 are our 50- and 43-inch diagonal projection TVs, boasting a **widescreen in a 16:9 ratio**—a specification closer to cinema proportions than ever before for projection monitors. Both offer five screen modes: **NATURAL WIDE, CINEMA WIDE, ZOOM, FULL and 4:3 NORMAL.** Using the Natural Wide mode, you can fill the big screen with a naturally expanded picture from any popular 4:3 source—ordinary TV programmes, for instance. Pioneer's Natural Wide technology ensures that the picture is least affected at the centre and more expanded toward the left and right edges, to give you a picture that looks natural from where you sit. Natural Wide presents a picture in proportions that comfortably fit your vision, and allows you to enjoy sports and music broadcasts in a whole new way. Use the **Cinema Wide** mode, and you enjoy films in the original dynamic proportions on a wide screen. Both projection monitors come with the full auto zoom function that automatically chooses the most suitable mode for a video programme.
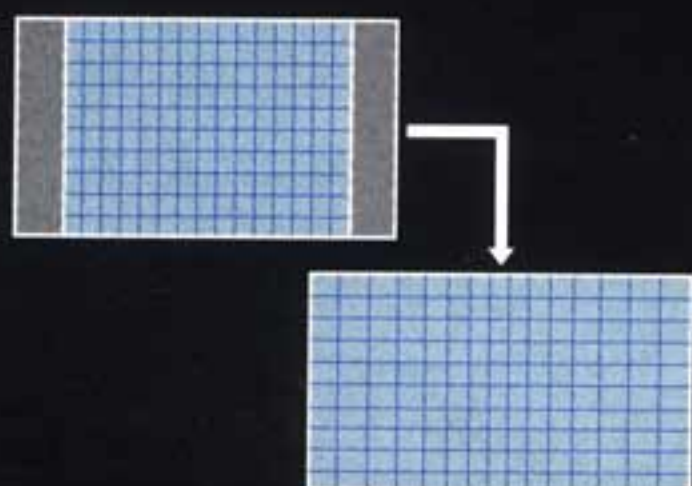
FOR BRIGHT PICTURE WITH TRUE-TO-LIFE COLOUR

Multi-Point Digital Convergence System
Precise convergence of projected red, green and blue beams is ensured by an advanced computer reference system developed by Pioneer. The result is highly accurate convergence for lifelike colours. With Pioneer projection monitors, the new **Multi-Point Digital Convergence System** lets you adjust convergence from the remote, and do so at the centre and at eight points on the periphery, to produce accurate colours extending to the very edges of the screen (all models).

3-Line Y/C Separation (SD-T50W1, SD-T43W1)
Video signals are composed of two types of signals: luminance (Y) and chrominance (C). They often interfere with each other, causing video noise—dot crawl and colour bleeding, for instance. Pioneer's 3-line digital comb filter accurately separates Y/C signals through digital processing. The result is an outstanding picture with pure colours and crisp edges.

Inverted-Radius CRTs
We have developed another way to make our projection monitors slimmer: inverted-radius CRTs for red, green and blue. Each comes with a slightly concave screen, shortening the beam path and reducing the dimensions of the cabinet. A shorter beam path usually diminishes brightness around the edge of the screen, but our engineers have solved this problem in our new line of CRTs (SD-P50A3-K).

Linear White Circuit
The **Linear White Circuit** reproduces natural white over the entire high-to-low luminance range, controlling the balance between red, green and blue. (All models)

Lenticular-Grooved Screen
Pioneer's unique **Lenticular-grooved Screen** design prevents outside light from entering the screen or from reflecting off its surface. It also intensifies the projected light of the image from each RGB (Red, Green and Blue) picture tube. (All models)

FOR FINE DETAIL IN FOCUS

Scan Velocity Modulation Circuit
The Scan Velocity Modulation Circuit varies the velocity of horizontal deflection modulation in response to changes in the luminance signal. The result is improved focusing characteristics and exceptional sharpness with no increase in video noise (SD-P50A3-K).

Triple Dynamic Focus Circuit
With conventional projection monitors, objects on the screen sometimes look out of focus—a problem caused by a rapid change in the level of luminance signal. Pioneer has overcome this problem with the new Triple Dynamic Focus Circuit. It stabilizes the voltage for driving the CRTs to compensate for changes in the luminance level, and extends sharp focus to the entire screen (SD-P50A3-K).

Fine Pitch Screen
The SD-P50A3-K employs a new 0.72mm fine pitch screen, quite possibly the finest pitch in the industry. Horizontal resolution is remarkably increased, which adds more detail and sharpness to images. The end result is a picture that is absolutely stunning.

FOR VIEWING VERSATILITY

Wide Viewing Angle
Pioneer projection monitors provide outstanding picture clarity even when viewed from off centre: they boast a panoramic horizontal viewing angle of 140° and vertical viewing angle of 50°.
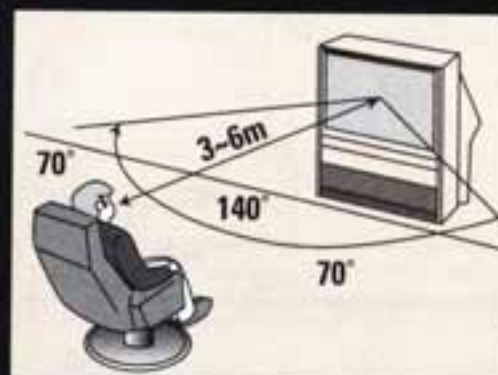
Dual-Tuner Picture-in-Picture
The SD-P50A3-K is equipped with two separate TV tuners to give you Picture-in-Picture function, so you can view two TV programmes simultaneously—one on the big screen and the other in a smaller inset 1/9th the size of the main screen. The inset picture can be moved to the other side of the screen (SD-P50A3-K).

FOR COMPACT DESIGN AND POWERFUL BASS SOUND

As slim as a standard 29-inch TV, the 40-inch SD-M1407 presents a considerably larger viewing area thanks to its superb design engineering. Moreover, a pair of **Long-Duct Woofers** let you enjoy solid bass sound whether you watch musical programmes or movies with digital sound.

FOR MORE REALISTIC THEATRE SOUND

Subwoofer Output
The SD-P50A3-K features a preamp output for an optional powered subwoofer such as the Pioneer S-W200. The additional subwoofer imparts a thrilling sense of realism to your Home Theatre sound (SD-P50A3-K).

FOR MULTI-SYSTEM VERSATILITY

When it comes to viewing TV broadcasts, you'll have no problem wherever you are in the world. Pioneer 'Multi-System' projection monitors feature full compatibility with virtually all standard systems including **NTSC, PAL and SECAM.**

		SD-T50W1	SD-T43W1	SD-M1407
Colour System and TV Standard	PAL	B,G,I,D/K	B,G,I,D/K	B/G,I,D/K
	SECAM	B/G,I,D/K, L,L'	B/G,I,D/K, L,L'	-
	NTSC	3.58MHz-M	4.43MHz	3.58MHz-M
		4.43MHz	3.58MHz	4.43MHz
Teletext Decoding	CEEFAX	yes	yes	yes
	FLOF	yes	yes	yes
	TOP	yes	yes	-
Stereo Broadcasting	MTS	yes	yes	-
	CCIR	yes	yes	-
	NICAM	yes	yes	yes
Cable TV Tuning		yes	yes	yes

SD-T50W1

- Widescreen 50-inch 16:9 aspect ratio (SD-T50W1)
- Widescreen 43-inch 16:9 aspect ratio (SD-T43W1)
- Pioneer Natural Wide, Cinema Wide, Full, Zoom and 4:3 Normal
- 'Trident' PAL/SECAM/NTSC reception: PAL (B/G, I, D/K), SECAM (B/G, I, D/K, L, L'), and NTSC (NTSC 3.58MHz, 4.43MHz playback) systems
- 9-point digital convergence system and remote convergence

- 3-line digital comb filter for Y/C separation
- Black screen with SLD (Surface Layer Diffusion) lenticular screen
- Compatible with MTS, CCIR and NICAM digital stereo broadcasting
- VNR (Video Noise Reduction)
- Linear white circuit
- DPO (Dynamic Picture Optimizer)
- Black level expansion
- Dynamic sharpness control
- Dual dynamic focus circuit
- CTI (Colour Transient Improvement) circuit
- Black Coupler
- A/V memory for 4 audio/video settings
- Teletext decoder
- Front surround
- Multi-language on-screen display (English/German/French/Italian)
- Stereo amplifier: 10W + 10W
- Remote control unit (SR)

Pioneer 16:9 widescreen projection monitors let you enjoy any video source in wide, dynamic proportions. The Natural Wide mode fills the big screen with a naturally expanded picture from popular 4:3 sources like ordinary TV broadcasts and VCDs. Letterbox DVDs and LDs likewise benefit, presenting the viewer with fine, high-quality images filling the entire wide screen.

SD-T43W1

SD-M1407

- PAL/NTSC playback and PAL broadcast reception: B/G, I, D/K
- Long-duct woofers for substantial bass
- Black screen with SLD (Surface Layer Diffusion) lenticular screen

- Green Lens for more realistic colour reproduction
- Compatible with NICAM digital stereo broadcasting
- VNR (Video Noise Reduction)
- Linear white circuit
- DPO (Dynamic Picture Optimizer)
- Black level expansion
- Dynamic sharpness control
- Dual dynamic focus circuit
- CTI (Colour Transient Improvement) circuit
- A/V memory for 4 audio/video settings
- Teletext decoder
- Stereo amplifier: 30W + 30W (peak music power)
- Remote control unit (SR)

SD-P50A3-K

- 50-inch screen
- Scan Velocity Modulation Circuit
- Fine pitch screen
- 2-line Y/C separation
- Multi-point digital convergence system

- SLD (Surface Layer Diffusion) lenticular screen
- VNR/CNR (Video/Colour Noise Reduction)
- High-resolution phosphor CRT
- Linear white circuit
- Black level expansion
- Inverted-radius CRT
- Auto flesh tone circuit
- Pure colour lens
- Triple Dynamic Focus Circuit
- Stereo Wide
- Dual-tuner Picture-in-Picture
- A/V memory
- On-screen display
- Stereo amplifier: 2W + 2W
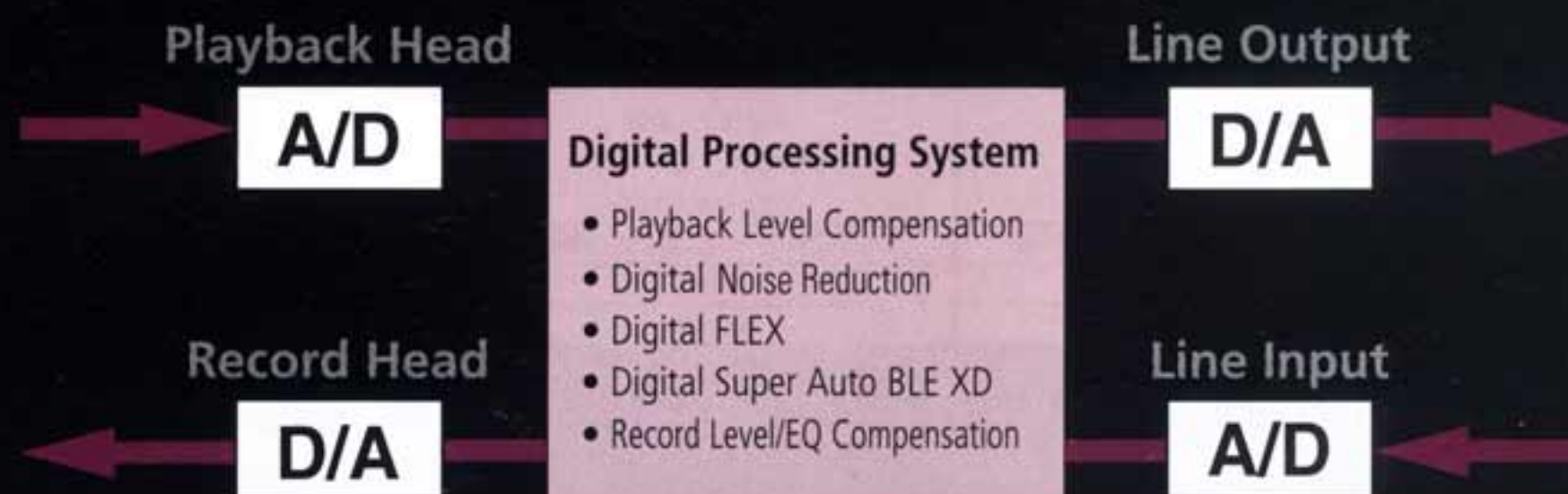- Remote control unit (SR)

FEATURE COMPARISON: PROJECTION MONITOR RECEIVERS

	SD-T50W1	SD-T43W1	SD-M1407	SD-P50A3-K
Display				
Reception Systems	NTSC/PAL/SECAM Trident model PAL (B/G, I, D/K) SECAM (B/G, I, D/K, L and L') NTSC 3.58MHz (M)	NTSC/PAL/SECAM Trident model PAL (B/G, I, D/K) SECAM (B/G, I, D/K, L and L') NTSC 3.58MHz (M)	PAL (B/G, I, D/K)	American TV standard, NTSC Colour
Colour Systems	PAL/SECAM/NTSC (3.58MHz/4.43MHz)	PAL/SECAM/NTSC (3.58MHz/4.43MHz)	PAL/NTSC (3.58MHz/4.43MHz)	NTSC
SLD (Surface Layer Diffusion) System	yes	yes	yes	yes
Screen Size	50 inches	43 inches	40 inches	50 inches
Wide Viewing Angle (Horizontal/Vertical)	140°/50°	140°/50°	140°/50°	
Technical Features				
Aspect Ratio	16:9	16:9	4:3	4:3
Natural Wide/Cinema Wide/Zoom/Full/4:3 Normal	yes	yes		
Vertical Scroll Function	yes	yes		
Full Auto Zoom Function	yes	yes		
Teletext Decoder	CEEFAX, FLOF, TOP	CEEFAX, FLOF, TOP	CEEFAX and FLOF	
VNR (Video Noise Reduction)	yes	yes	yes	yes
CNR (Colour Noise Reduction)				yes
XDS (Extended Data Service)				yes
Black Level Expansion	yes	yes	yes	yes
Dynamic Sharpness Control	yes	yes	yes	
3-Line Digital Comb Filter	yes (PAL/NTSC)	yes (PAL/NTSC)		
Linear White Circuit	yes	yes	yes	yes
CTI (Colour Transient Improvement)	yes	yes	yes	
Green Lens			yes	
Dynamic Focus Circuit	Dual	Dual	Dual	Triple
Black Screen	yes	yes	yes	
Black Coupler	yes	yes	yes	
Multi-Point Digital Convergence System	yes	yes	yes	yes
5-Element Aspherical Hybrid Lens System	yes	yes	yes	yes
DPO (Dynamic Picture Optimizer)	yes	yes	yes	
Scan Velocity Modulation Circuit				yes
Remote Convergence System				yes
Y/C Separation				2-line
Fine Pitch Screen				yes
High-Resolution Phosphor CRT				yes
Pure Colour Lens				yes
Inverted-Radius CRT				yes
Auto Flesh Tone Circuit				yes
Closed-Caption Decoder				yes
Audio Features				
Power Output	10W + 10W	10W + 10W	10W + 10W	2W + 2W
Power Output (PMPO)	30W + 30W	30W + 30W	30W + 30W	6W + 6W
Speakers	12cm x 2, 6cm x 2	12cm x 2	12cm x 2, 6cm x 2	10cm x 2
Surround	Front Surround	Front Surround		Stereo Wide
Conveniences				
On-Screen Display	English/German/French/Italian	English/German/French/Italian		
Station Labelling	yes	yes	yes	
AV Memory	yes	yes	yes	yes
Reset Key	yes	yes		
Remote Control Unit	SR	SR	SR	SR
Dual-Tuner Picture-in-Picture				yes
Auto Search	yes	yes		
Auto Tuner Preset				yes
ESC Mode (Return)				yes
Terminals				
A/V Inputs and Outputs	2 +1 (Front)/1	2 +1 (Front)/1	2 +1 (Front)/2 (TV + A/V)	2+1 (Front)/1
Audio Output	1 (Variable)	1 (Variable)	1 (Variable)	
S-Video Inputs	2+1 (Front)	2+1 (Front)	2+1 (Front)	1
EuroScart	2	2	2	
External Speaker Output	1	1	1	
Subwoofer Output				yes
Tuner				
Reception Channels	NTSC: US VHF: CH 2-CH 13 UHF: CH 14-CH 69 US CATV STD: CH 2-W+84 US CATV HRC: CH 1-W+84 Taiwan VHF: CH 7-CH 13 Taiwan UHF: CH 33-CH 48 PAL/SECAM: CCIR VHF: CH 2-CH 12 UHF: CH 21-CH 69 CCIR CATV: E2-E12,S1-S41,S22H-S34H Italy: A-H2/New Zealand: CH 1- CH 11 OIRT: R1 - R12/China: CH 1- CH 57 Australia: CH 0 - CH 11/Ireland: A - J Belgium: U1-U5, M1/7-M10/7, M1/8-M8/8, X-Z+2 UK: CH 21-CH 69 France: FB-FC, F1-F6, K4-K9, B-Q	NTSC: US VHF: CH 2-CH 13 UHF: CH 14-CH 69 US CATV STD: CH 2-W+84 US CATV HRC: CH 1-W+84 Taiwan VHF: CH 7-CH 13 Taiwan UHF: CH 33-CH 48 PAL/SECAM: CCIR VHF: CH 2-CH 12 UHF: CH 21-CH 69 CCIR CATV: E2-E12,S1-S41,S22H-S34H Italy: A-H2/New Zealand: CH 1- CH 11 OIRT: R1 - R12/China: CH 1- CH 57 Australia: CH 0 - CH 11/Ireland: A - J Belgium: U1-U5, M1/7-M10/7, M1/8-M8/8, X-Z+2 UK: CH 21-CH 69 France: FB-FC, F1-F6, K4-K9, B-Q	PAL: CCIR VHF: CH 2-CH 12 UHF: CH 21-CH 69 CCIR CATV: E2-E12, S1-S41, S22H-S34H Italy: A-H2 New Zealand: CH 1- CH 11 OIRT: R1 - R12 China: CH 1- CH 57 Australia: CH 0 - CH 11 Ireland: A - J Belgium: U1-U5, M1/7-M10/7, M1/8-M8/8, X-Z+2	NTSC: VHF: CH2—CH12 UHF: CH14—CH69 US CATV STD: CH2—W+29 US CATV HRC: CH1—W+29
Aerial Terminal	VHF/UHF (75 ohms, unbalanced, DIN socket)	VHF/UHF (75 ohms, unbalanced, DIN socket)	VHF/UHF (75 ohms, unbalanced, DIN socket)	VHF/UHF (75 ohms, unbalanced, DIN socket)
Miscellaneous				
Power Requirements	110/120-127/220-230/240VAC, 50/60Hz	110/120-127/220-230/240VAC, 50/60Hz	220-240VAC, 50/60Hz	120VAC, 50/60Hz
Power Consumption	330W	330W	300W	230W
Dimensions (W x H x D) (Without package)	1,240 x 1,215 x 615mm	1,092 x 1,172 x 529mm	1,002 x 824 x 556mm	1,116 x 1,340 x 578mm
Weight (Without package)	90kg	71kg	56kg	94kg

For the Wide Range and Low Noise of Digital—from Cassettes

Playback Head → **A/D** → **Digital Processing System**
- Playback Level Compensation
- Digital Noise Reduction
- Digital FLEX
- Digital Super Auto BLE XD
- Record Level/EQ Compensation

→ **Line Output** → **D/A** →

Record Head ← **D/A** ← [Digital Processing System] ← **Line Input** ← **A/D** ←

DIGITAL PROCESSING SYSTEM Digital Processing System with 20-bit A/D and D/A converters

With conventional cassette decks, all processing—from high-frequency equalization to noise reduction—is performed on signals that remain analogue throughout. Our 'digital processing' double-cassette decks—CT-W806DR, CT-W706DR and CT-W606DR—pick analogue signals off a tape and convert them into a digital format, allowing all internal processing to be performed in the digital domain.

The **Digital Processing System** makes possible Legato Link Conversion, Digital Noise Reduction, Digital Super Auto BLE XD, Digital TDNS, Digital ALCA and Digital FLEX.

## Digital Noise Reduction (CT-W806DR, CT-W706DR, CT-W606DR)

Digital signal processing allows intelligent isolation and reduction of hiss noise without significantly affecting musical signals. The result

is a high signal-to-noise ratio of 90dB from a cassette tape—a range almost as wide as that of a CD. Noise can be removed from any recorded tapes, even old ones, as well as dubbed tapes.

LEGATO LINK CONVERSION Legato Link Conversion (CT-W806DR, CT-W706DR)

With cassette decks featuring the Digital Processing System, **Legato Link Conversion** makes possible from a playback tape a wide-band response extending beyond 20kHz. A smoothly extended frequency response means you enjoy most natural sound.
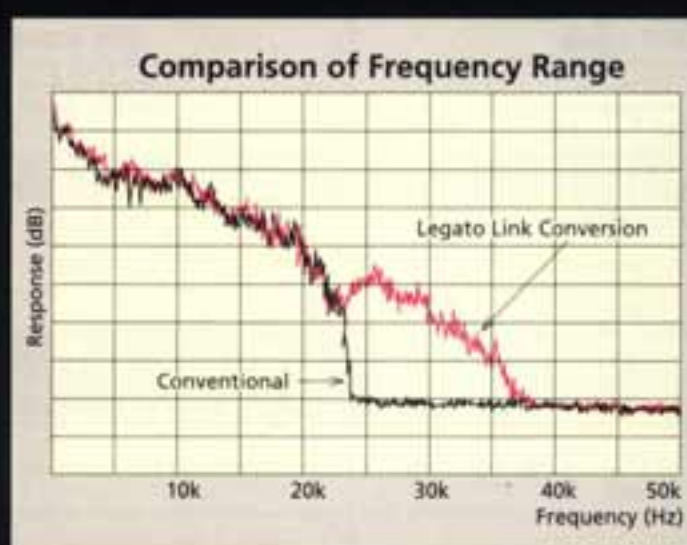
FLEX FREQUENCY LEVEL EXPANDER FLEX (Frequency Level Expander)

The power spectrum of music shows the distribution of energy over the audible range, frequency by frequency. With high-quality recorded music, the power decreases at a certain rate in proportion with frequency ('1/f curve'). This indicates that there are rich high-frequency contents. Poorly recorded materials, however, exhibit a more precipitous
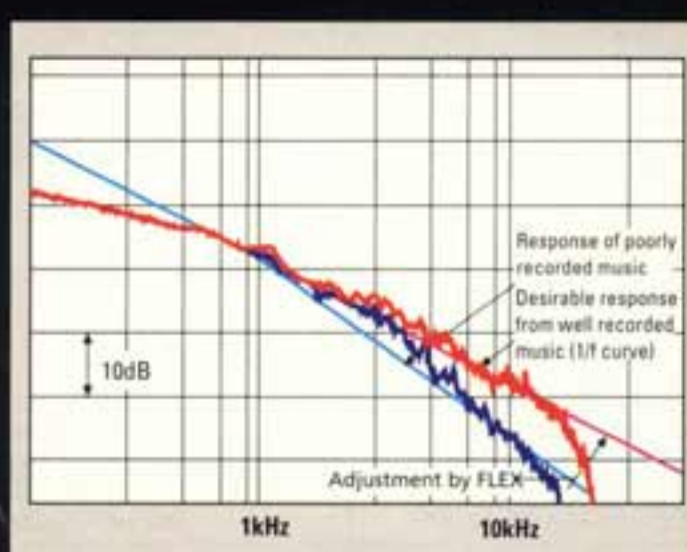
power spectrum—and so do worn tapes. Our **FLEX** technology remedies the problem by analyzing the spectrum of music in play and adjusting it to fit the typical '1/f' curve. You get rich, balanced and natural sound from every recorded tape.

## SUPER AUTO BLE / SUPER AUTO BLE XD

Super Auto BLE and Super Auto BLE XD

Super Auto BLE automatically optimizes bias, level and equalization for the deck according to the characteristics of a particular brand of tape. Using three calibration frequencies for accuracy, it ensures that any tape you use will deliver flat frequency response and tonal balance. **Super Auto BLE XD** provides even more: after optimizing parameters, it checks the tape's high-frequency headroom. A built-in computer stores this data. Then, during actual recording, it controls the bias according to the stored data, so that the recording you make will be more faithful to the original across a wide range, even when levels are high.

TDNS (Tape Duplication Noise Suppressor)

When you make a recording, bias is superimposed over the music to improve linearity. And when you dub a song, the dub not only inherits the noise in the original master, it also adds bias noise of its own. Our TDNS (Tape Duplication Noise Suppressor) solves this problem: during dubbing,

it suppresses the hiss noise of the master by the noise reduction process and minimizes bias noise by decreasing the recording bias whenever there's a moment of silence in music being recorded.

Dubbing by TDNS
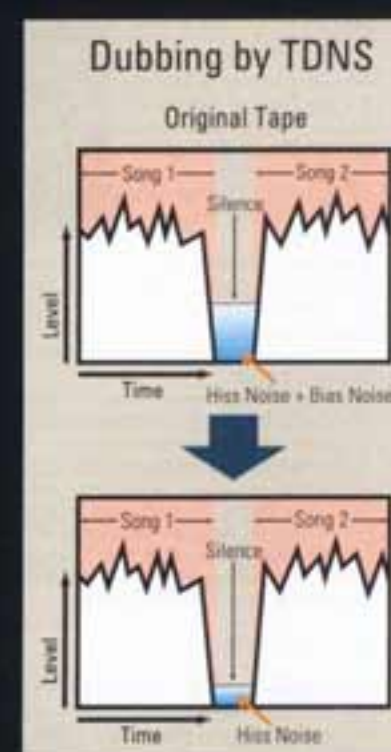
ALCA (Auto Level Control with Tape Analysis) (CT-W806DR)

The new **ALCA (Auto Level Control with Tape Analysis)** automatically optimizes the recording level. What's more, when the input is digital, it retains the original recording level for best results. Since it knows the maximum level of the input digital audio data, a microcomputer is able to calculate the optimum peak level for the tape in use before actual recording.

Digital Synchro (CT-W806DR)

The CT-W806DR features an optical digital input (and an optical cable*) for connection of a CD player with the matching output, allowing you to make synchronized recording of digital programmes. Recording starts automatically only when a musical signal is actually input.

* An optical digital cable is standard with the CT-W806DR.

Comparison of Frequency Range

S/N Ratios with Dolby B/C NR and Digital NR

Dolby NR	OFF	B	C	S	OFF	B/C
Digital NR	OFF	OFF	OFF	OFF	ON	ON

Conventional Dubbing

DIGITAL OPTICAL IN

28
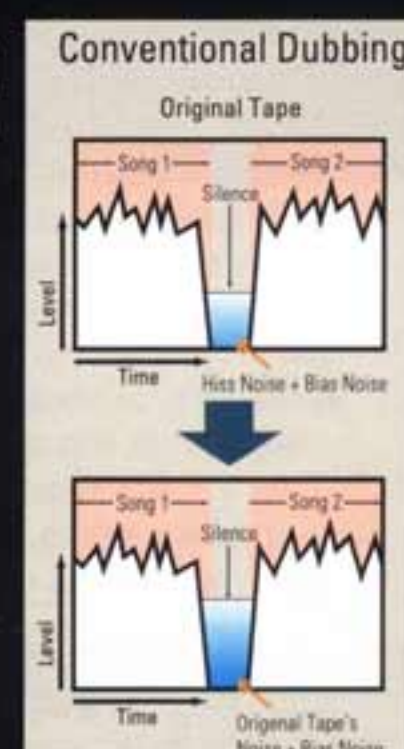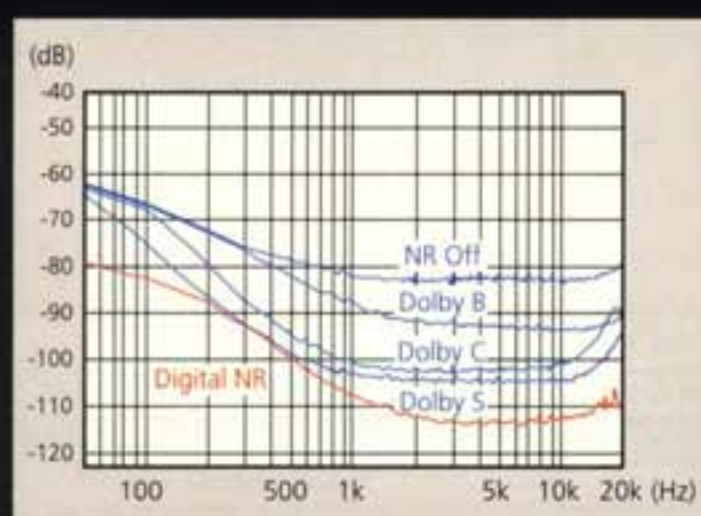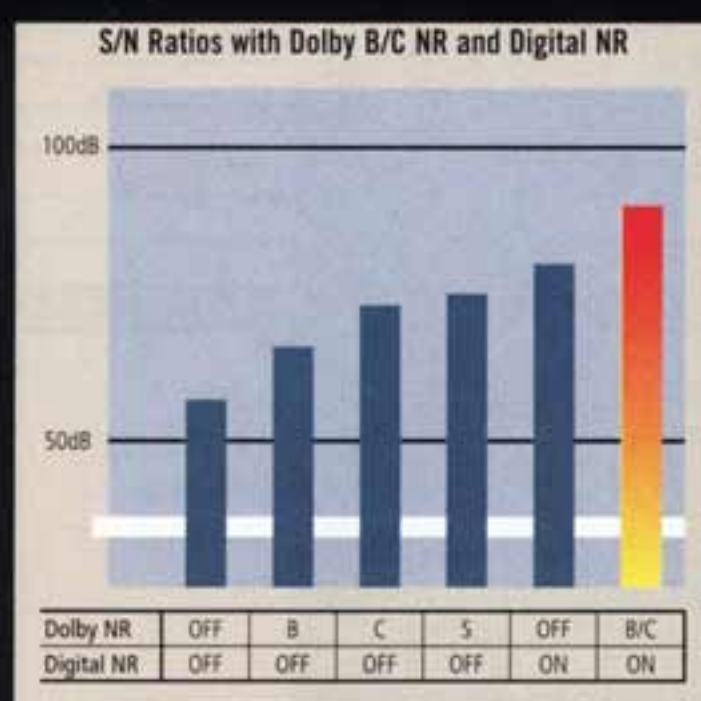
CT-W806DR

Double Auto-Reverse | Parallel/Relay Record

Digital TDNS | Digital ALCA | Legato Link

DIGITAL PROCESSING SYSTEM | LEGATO LINK CONVERSION | (SUPER AUTO BLE XD) | **FLEX** FREQUENCY LEVEL EXPANDER | SR

With the Flipdown Panel Open

CT-W706DR

Double Auto-Reverse | Digital TDNS | Legato Link

DIGITAL PROCESSING SYSTEM | LEGATO LINK CONVERSION | (SUPER AUTO BLE XD) | **FLEX** FREQUENCY LEVEL EXPANDER | SR

- Digital Processing System with 20-bit A/D and D/A converters
- Legato Link Conversion
- 2 auto-reverse cassette transports with relay record/play and parallel recording (CT-W806DR)
- 2 auto-reverse cassette transports with relay play (CT-W706DR)
- Digital Super Auto BLE XD (Deck I/II) (CT-W806DR)
- Digital Super Auto BLE XD (Deck II) (CT-W706DR)
- Powered loading/eject
- Optical digital input and Digital synchro (CT-W806DR)

- Digital Noise Reduction
- Digital TDNS (Tape Duplication Noise Suppressor)
- Digital ALCA (Auto Level Control with Tape Analysis) (CT-W806DR)
- Digital FLEX (Frequency Level Expander) (Deck I/II)
- CD-Deck Synchro
- Normal/high-speed tape dubbing
- Dolby HX Pro (Deck I/II) (CT-W806DR)
- Dolby HX Pro (Deck II) (CT-W706DR)
- Dolby B/C noise reduction with built-in MPX filter
- Music/Skip Search (up to 15 songs forward or backward)

- Blank Skip
- Auto space rec mute
- Independent 4-digit electronic tape/elapsed time counters (Deck I/II)
- Fluorescent peak-hold level meters
- Auto tape selector
- Microphone input with volume control and mixing (CT-W806DR)
- Last Memory

CT-W606DR

30

- Digital Processing System with 20-bit A/D and D/A converters
- 2 auto-reverse cassette transports with relay play
- Digital Super Auto BLE XD (Deck II)

- Digital Noise Reduction
- Digital TDNS (Tape Duplication Noise Suppressor)
- Digital FLEX (Frequency Level Expander) (Deck I/II)
- CD-Deck Synchro
- Normal/high-speed tape dubbing

- Dolby HX Pro (Deck II)
- Dolby B/C noise reduction with built-in MPX filter
- Music/Skip Search (up to 15 songs forward or backward)
- Blank Skip
- Auto space rec mute

- Independent 4-digit electronic tape/elapsed time counters (Deck I/II)
- Fluorescent peak-hold level meters
- Auto tape selector
- Last Memory

CT-W404R

- 2 auto-reverse cassette transports: one plays, and the other plays and records in both directions
- Dolby B/C noise reduction with

  built-in MPX filter
- Fluorescent peak-hold level meters

- Normal/high-speed tape dubbing
- Relay play
- Dolby HX Pro (Deck II)
- Music/Skip Search
- Rewind auto play

- Auto space rec mute
- Independent 4-digit electronic tape/elapsed time counters (Deck I/II)
- Auto tape selector

CT-W205R

Double Auto-Reverse

SR

- 2 auto-reverse cassette transports: one plays, and the other plays and records in both directions
- Normal/high-speed tape dubbing
- Dolby B/C noise reduction with built-in MPX filter
- Relay play
- Music/Skip Search
- Rewind auto play
- Auto space rec mute
- LED level indicator
- Auto tape selector

CT-W106

Double Cassette Deck

SR

- Normal/high-speed tape dubbing
- Dolby B noise reduction with built-in MPX filter
- Auto record level controller
- Anti-resonance and anti-vibration design: Large insulators
- Two cassette transports
- Relay play
- LED level indicator
- Auto tape selector (Type I/Type II)

CT-S450S

Single Cassette Deck

DOLBY S
S-type Noise Reduction

(SUPER AUTO BLE)

FLEX
FREQUENCY LEVEL EXPANDER

CD CD-DECK SYNCHRO

SR

- **Dolby S-type noise reduction with built-in Dolby MPX filter**
- **Super Auto BLE**
- **FLEX (Frequency Level Expander)**

- Centre mount design
- Dolby HX Pro
- Dolby B/C noise reduction with built-in MPX filter
- CD-Deck Synchro
- Last memory

- Fluorescent peak-hold level indicators (WIDE/EXPANDED)
- Display off switch
- Music/Skip Search
- 4-digit electronic tape/elapsed-time counter

- Auto space rec mute
- Auto tape selector
- Headphone output
- Timer play (timer optional)

CT-S250

Single Cassette Deck

FLEX
FREQUENCY LEVEL EXPANDER

SR

- **FLEX (Frequency Level Expander)**
- **Dolby B/C noise reduction with built-in MPX filter**
- **Centre mount design**

- Anti-resonance and anti-vibration design: Honeycomb chassis and large insulators
- Fluorescent peak-hold level indica-

tors (WIDE/EXPANDED)
- 4-digit electronic tape/elapsed-time counter
- Display off switch

- Music/Skip Search
- Auto space rec mute
- Auto tape selector

FEATURE COMPARISON and SPECIFICATIONS: CASSETTE DECKS

	CT-W806DR	CT-W706DR	CT-W606DR	CT-W404R	CT-W205R	CT-W106	CT-S450S	CT-S250
Format				Double				Single
Auto-Reverse Record/Play	Deck I/II	Deck II	Deck II	Deck II	Deck II	–		
Auto-Reverse Play	–	Deck I	Deck I	Deck I	Deck I	–		
Wide-Range Technology								
20-Bit A/D and D/A Converters	yes	yes	yes					
Legato Link Conversion	yes	yes						
Mechanical Features								
Powered Loading/Eject	yes	yes						
Audio Features								
Digital Noise Reduction	yes	yes	yes					
FLEX (Frequency Level Expander)	yes (digital)	yes (digital)	yes (digital)				yes	yes
TDNS (Tape Duplication Noise Suppressor)	yes (digital)	yes (digital)	yes (digital)					
ALCA (Auto Level Control with Tape Analysis)	yes (digital)							
Super Auto BLE (XD=Extended)	XD (digital)	XD (digital)	XD (digital)				yes	
Dolby* Noise Reduction System	B/C	B/C	B/C	B/C	B/C	B	S/B/C	B/C
Dolby HX Pro*	yes	yes	yes	yes			yes	
MPX Filter	Built-In	Built-In	Built-In	Built-In	Built-In	Built-In	Built-In	Built-In
Display Off Switch for Low Noise							yes	yes
Anti-Resonance and Anti-Vibration Designs								
Honeycomb Chassis	yes	yes	yes	yes	yes		yes	yes
Conveniences								
CD-Deck Synchro	yes	yes	yes				yes	
Digital Synchro	yes							
Relay Play	yes	yes	yes	yes	yes	yes		
Relay Record	yes							
Parallel Recording	yes							
Normal/High-Speed Dubbing	yes	yes	yes	yes	yes	yes		
Last Memory	yes	yes	yes				yes	
Music/Skip Search	yes	yes	yes	yes	yes		yes	yes
Blank Skip	yes	yes	yes	yes	yes			
Rewind Auto Play				yes	yes			
Auto Space Rec Mute	yes	yes	yes	yes	yes		yes	yes
Mic Mixing	yes							
Timer Record/Play (Timer Optional)	yes/yes						–/yes	
Display								
4-Digit Electronic Counter (Modes)	2	2	2	2			2	2
Fluorescent Peak-Hold Level Meter	yes	yes	yes	yes	(LED)	(LED)	yes	yes
Meter Range (WIDE/EXPANDED)							yes	yes
Terminals								
Optical Digital Input	yes							
Headphone Output	yes	yes	yes				yes	
Microphone Input with Volume Control	yes							
Pioneer SR (System Remote) Terminal†	yes	yes	yes	yes	yes		yes	yes

* 'Dolby', the double-D symbol and 'HX Pro' are trademarks of Dolby Laboratories Licensing Corporation.

†Pioneer components not supplied with remote controls have no infrared receptacle, but can be controlled with a Pioneer remote using the SR (System Remote) terminal on the rear panel.

		CT-W806DR	CT-W706DR	CT-W606DR	CT-W404R
Wow and Flutter (WRMS)		0.09%	0.09%	0.09%	0.09%
Frequency Response (-20dB)					
Type IV (Metal Tape)		20–20,000Hz	20–20,000Hz	20–20,000Hz	20–16,500Hz
Type II (Chrome Tape)		20–19,000Hz	20–19,000Hz	20–19,000Hz	20–16,000Hz
Type I (Normal Tape)		20–18,000Hz	20–18,000Hz	20–18,000Hz	20–16,000Hz
Signal-to-Noise Ratio					
Digital Noise Reduction		90dB (with Dolby B/C NR)	90dB (with Dolby B/C NR)	90dB (with Dolby B/C NR)	
		82dB (with Dolby NR Off)	82dB (with Dolby NR Off)	82dB (with Dolby NR Off)	
Digital NR/Dolby NR off*		57dB	57dB	57dB	57dB
Harmonic Distortion		0.8% (-4dB)	0.8% (-4dB)	0.8% (-4dB)	0.8% (-4dB)
Power Requirements	(SD/SL)	110/120–127/220/230–240V	110/120–127/220/230–240V	110/120–127/220/230–240V	110/120–127/220/240V
		(switchable) 50/60Hz	(switchable) 50/60Hz	(switchable) 50/60Hz	(switchable) 50/60Hz
	(HL)				220-230V, 50/60Hz
Power Consumption		25W	19W	19W	17W
Dimensions (W x H x D) (without package)		420 x 125 x 250mm	420 x 125 x 250mm	420 x 125 x 250mm	420 x 125 x 250mm
Weight (without package)		4.7kg	4.4kg	4.4kg	4.0kg

		CT-W205R	CT-W106	CT-S450S	CT-S250
Wow and Flutter (WRMS)		0.09%	0.15%	0.07%	0.07%
Frequency Response (-20dB)					
Type IV (Metal Tape)		20–16,500Hz	–	20–18,000Hz	20–18,000Hz
Type II (Chrome Tape)		20–16,000Hz	30–16,000Hz	20–17,000Hz	25–17,000Hz
Type I (Normal Tape)		20–16,000Hz	30–16,000Hz	20–17,000Hz	25–17,000Hz
Signal-to-Noise Ratio					
Digital Noise Reduction					
Digital NR/Dolby NR Off*		57dB	56dB	57dB	57dB
Harmonic Distortion		0.8% (-4dB)	1.0% (-4dB)	1.0% (-4dB)	1.0% (-4dB)
Power Requirements	(SD/SL)	110/120–127/220/230–240V	110/120–127/220/230–240V	110/120–127/220/230–240V	110/120–127/220/230–240V
		(switchable) 50/60Hz	(switchable) 50/60Hz	(switchable) 50/60Hz	(switchable) 50/60Hz
	(HL)				
Power Consumption		16W	16W	16W	16W
Dimensions (W x H x D) (without package)		420 x 125 x 250mm	420 x 130 x 250mm	420 x 125 x 280mm	420 x 125 x 280mm
Weight (without package)		3.8kg	3.6kg	3.8kg	3.5kg

For Wide-Range Response and Music on Demand from Your Library

FOR FILE-CD PLAYBACK—MUSIC ON DEMAND!

Music on Demand

File-type CD players (PD-F1006, PD-F957, PD-F805, PD-F706, PD-F507, PD-F407)

Music on demand! You have music any time you want it, drawing on your entire collection of CDs. Our line of **file-type CD players** has been expanded, with each loading up to 25 to 101 discs and giving instant access to any one of them.

Custom Filing System (PD-F1006, PD-F957, PD-F805, PD-F706, PD-F507, PD-F407)

The CD filing system of each file-type CD player lets you sort the stored discs into three convenient 'virtual' categories (one category with the PD-F805), allowing you to classify discs by music type, artist, etc. You can, for instance, put discs of your favourite artists in one file, hits of the 70's in the second, and classical discs in the third. And you even don't have to touch a disc to do so. Listen only discs in a particular file or programme tracks from a single file—that's convenient.

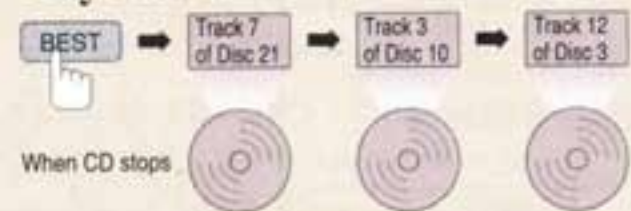### Best Selection Memory (PD-F1006, PD-F957, PD-F805, PD-F706, PD-F507, PD-F407)

Just press the 'BEST' key while a track you want for an encore is being played—programming favourite tracks into memory is as simple as that. Press the 'STOP' key to hold play. Press the 'BEST' key again, then up to 20 or 15

Best Selection Memory

Memory Track

Play Memorized Track

favourites in memory are played back in order.

Previous Disc Scan (PD-F1006, PD-F957, PD-F805, PD-F706, PD-F507, PD-F407)

Each time a disc is played, it's automatically programmed. When you press the 'PREVIOUS' key, **'Previous Disc Scan'** will play the programmed discs in the memory on a last-in, first-out basis—starting with the most recent and moving backward to the first memorized. Press the 'PLAY' key when you've found the disc you want.

Previous Disc Scan

Hi-Lite Scan (PD-F1006, PD-F957, PD-F805, PD-F706, PD-F507, PD-F407)

Hi-Lite Scan lets you sample a portion of each track on a disc, say, one minute (time adjustable) into each song, where the 'highlight' is most likely to be found. This makes it easier for you to identify a song. With Hi-Lite Scan for file-type CD players, you can conveniently scan tracks in a virtual file as well as programmed tracks in 'Best Selection Memory.'

FOR WIDE-RANGE ACCURACY

Hi-bit Legato Link Conversion (PD-S707, PD-S505)

Conventional Method | Hi-bit Conversion | Original Sound

Compact Discs contain signals representing frequencies up to 20kHz; signals with frequencies above that are removed in the digitizing process and also by the D/A converter on playback. Music actually contains frequencies above 20kHz. The Pioneer

Legato Link Conversion features a unique processing power to smoothly extend the frequency response to 20kHz, allowing you to enjoy natural sound that is possible only with a smoothly extended response. Upgraded Hi-bit Legato Link Conversion provides the added advantage of expanding bits to achieve 24-bit or 20-bit equivalent resolution (PD-S707 and PD-S505, respectively). By deducing the original waveforms from the data on a CD and re-quantizing 16-bit data for 24-bit or 20-bit data, it improves low-level resolution, to make soft music sound more natural and delicate.

Comparison of Frequency Range
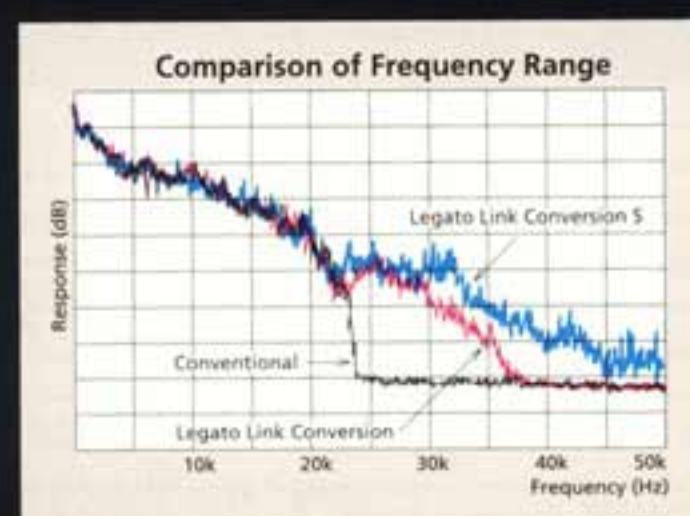
Legato Link Conversion S (PD-S904)

The **Legato Link Conversion S** (Special) features an additional harmonics synthesizer for creating frequencies above 20kHz and a special processing algorithm written for it. The frequency range is further extended, for more natural, more lifelike music.

Clean DAC-Drive System (PD-S904)

The output from a one-bit D/A converter is comprised of a series of pulse signals with only two levels—0s and 1s. Ideally, both levels should be constant values, but in reality they deviate due to noise in the ground and ripple in the power supply. This jeopardizes audio performance. Our **Clean DAC-Drive System** features two dedicated regulators for both stereo channels to remove ripples and cut ground and power supply

noise, with the advantage that purity is further improved.

Pioneer's 1-bit DLC (Direct Linear Conversion) with High-Speed and High-Density Pulseflow D/A Converter

Conventional D/A converters are 'multi-bit' types, and zero-crossing distortion and glitches inevitably occur during the D/A conversion process. Newer 'one-bit' D/A converters avoid these faults but create their own problems—such as jitter due to high clock frequency and the effect of noise shaping. Pioneer has successfully developed an exclusive fault-free design—the High-Speed and High-Density Pulseflow D/A converter based on our 1-bit DLC (Direct Linear Conversion) concept.

Z-Concept for Higher Musical Signal Transfer Accuracy (PD-S707)

Pioneer developed the new **Z-Concept** as an approach to improving the performance of digital conversion in the time domain for higher musical signal transfer accuracy. This approach ensures that data is read out from a disc, signals are transmitted from circuit to circuit, and digital signals are converted into analog, all with significantly improved accuracy. The Z-Concept presents music in a more realistic 3D perspective.

Z-Concept Diagram
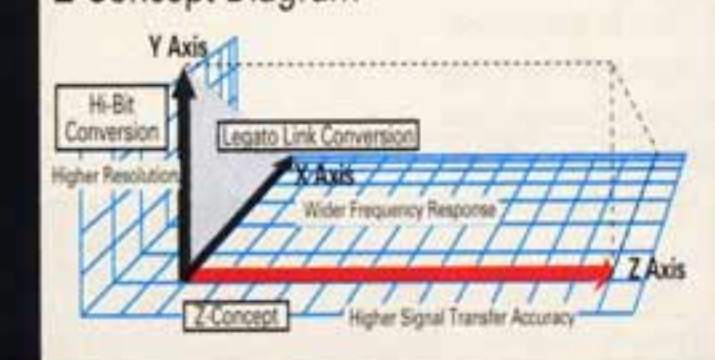
DAC 24 (PD-S707)

An exceptional resolution of 120dB for an ultra-wide frequency range topping 40kHz! By taking advantage of Delta Sigma 1-bit conversion technology, Pioneer's new DAC 24 is fully compatible with the expanded 24-bit data output through Hi-bit Legato Link Conversion. Moreover, the newly-developed D/A converter is highly resistant to jitters (short-term timing irregularities) present in the system clock. This means resolution is high and harmonic distortion low even in face of jitters in the clock.

4

PD-F1006

101-Disc File-Type | **On-Screen Disc Management** | **CD Text**

Music on Demand CDFILE 101-DISC | CD-DECK SYNCHRO | SR | **CD TEXT**

Main Menu

Programme Mode

Custom

You can conveniently input disc names from the keyboard of your IBM-compatible PC: just plug it to the PD-F1006 and type.

TITLE INPUT

PD-F957

101-Disc File-Type | **CD Text**

Music on Demand CDFILE 101-DISC | CD-DECK SYNCHRO | SR | **CD TEXT**

Single Loader

Liner-Notes File

Roulette Rack System

- 101-disc playback: You can put your entire CD library into the player and have instant access to any disc
- Single loader: Lets you load one extra disc for instant playback
- 3 'file' playback modes: Best Selection Memory (20 tracks), Previous Disc Scan (20 discs) and Hi-Lite Scan
- On-Screen Disc Management System (PD-F1006)
- Title input: You can name stored discs—type with the remote's embedded keyboard (PD-F1006/PD-F957)

or your PC's keyboard (PD-F1006)
- CD Text compatible: For display of disc and track titles, recorded as CD Text
- 'Custom filing': You can 'file' discs in 3 'custom' categories—for playback of discs in the chosen custom files only
- Roulette rack system: A space-efficient design
- 1-bit DLC (Direct Linear Conversion) with High-Speed and

High-Density Pulseflow D/A Converter
- 3 playback modes: Single disc, all discs, and only discs in custom files
- Disc illumination
- Powered door (open/close)
- CD-Deck Synchro
- Full-function SR (System Remote) control unit, with numeric keypad, DISC SET/TRACK SET keys and power on/off
- Memory backup

- Last disc memory: Replay starts with the disc you heard last before turning the power off
- 3-mode random play from all discs, a single disc, or discs in custom files only
- Liner notes file with numbered stickers: You can keep liner notes for up to 100 CDs as a handy reference
- Optical digital output
- Video output for Disc Management (PD-F1006)

PD-F805

50+1-Disc File-Type | **Custom Filing (1 category)** | **Single-Disc Slot**

Music on Demand C 50+1 DISC CD-DECK SYNCHRO SR

PD-F706

25+1-Disc File-Type | **Custom Filing (3 categories)** | **Single-Disc Slot**

Music on Demand C 25+1 DISC CD-DECK SYNCHRO SR

- 50+1-disc playback: Enjoy instant access to any of 50 discs (PD-F805)
- 25+1-disc playback: Have instant access to any of 25 discs (PD-F706)
- Separate Single-Disc Slot: Load an additional disc at any time for instant play
- 3 'file' playback modes: Best Selection Memory (15 tracks), Previous Disc Scan (15 discs) and Hi-Lite Scan

- 'Custom filing': You can 'file' discs in one category (PD-F805) or 3 'custom' categories (PD-F706)—for playback of discs in the chosen custom file only
- Rolling rack system: Discs are loaded directly, and up to 25 discs can be changed without interrupting play (PD-F805)
- 1-bit DLC (Direct Linear Conversion) with High-Speed and High-Density Pulseflow D/A Converter

- 3 playback modes: Single disc, all discs, and only discs in custom files
- Anti-resonance and anti-vibration designs: Honeycomb chassis and large insulators
- CD-Deck Synchro
- Full-function SR (System Remote) control unit, with numeric keypad, DISC SET/TRACK SET keys and power on/off
- Last disc memory: Replay starts with the disc you heard last

- before turning the power off
- 3-mode random play from all discs, a single disc and discs in custom files only
- Optical digital output
- Liner notes file with numbered stickers: You can keep liner notes for stored CDs as a handy reference

PD-F507
PD-F407

Music on Demand CDFILE 25-DISC SR

PD-F507 Remote

- 25-disc playback: You can put your entire CD library into the player and have instant access to any disc
- 3 'file' playback modes: Best Selection Memory (15 tracks), Previous Disc Scan (15 discs) and Hi-Lite Scan
- 'Custom filing': You can 'file' discs in three 'custom' categories—for playback of discs in the chosen

custom files only

- 1-bit D/A converter
- 3 playback modes: Single disc, all discs, and only discs in custom files
- Anti-resonance and anti-vibration designs: Honeycomb chassis and large insulators
- Full-function SR (System Remote) control unit, with numeric keypad, DISC SET/TRACK SET keys and

power on/off (PD-F507)
- Last disc memory: Replay starts with the disc you heard last before turning the power off
- 3-mode random play from all discs, a single disc and discs in custom files only
- Full random play: Plays all tracks once from all discs
- Direct track access by numeric keypad (on remote) (PD-F507)

- Optical digital output (PD-F507)
- Liner notes file with numbered stickers: You can keep liner notes for up to 25 CDs as a handy reference
- Pioneer SR (System Remote) terminal (PD-F407)*

* The PD-F407 shares the same looks and functions as the PD-F507 except that it does not come with a remote control or infrared receptacle. Yet the PD-F407 can be controlled with a Pioneer remote using the SR (System Remote) terminal on the rear.

PD-M426
PD-M406

JD-M300

Every Pioneer multi-play CD player comes with a magazine that holds up to six 12cm discs. The JD-M300 is an optional spare magazine.

 SR 6 CDs

The magazine-type Multi-Play CD players with the mark and the magazines with the same mark are compatible for 12cm (5-inch) discs.

PD-M426 Remote

- Magazine CD players for continuous play of 6 discs
- 1-bit DLC (Direct Linear Conversion) D/A Converter
- Full-function SR (System Remote) control unit, with 6 DISC keys and power on/off (PD-M426)

- Magazine Hi-Lite Scan
- Auto power-on and power-down eject
- Multi-disc magazine included
- Pioneer SR (System Remote) terminal*

* The PD-M406 shares the same looks and functions as the PD-M426 except that it does not come with a remote control or infrared receptacle. Yet the PD-M406 can be controlled with a Pioneer remote using the SR (System Remote) terminal on the rear.
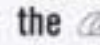
PD-S904

Compact Disc Player | Stable Platter Mechanism | Legato Link Conversion S

- Legato Link Conversion S
- Stable Platter Mechanism with centre-tray loading
- Clean DAC-Drive System

- 1-bit DLC (Direct Linear Conversion) with twin High-Speed and High-Density Pulseflow D/A Converters
- Twin transformers for analogue and digital circuitry
- Anti-resonance and anti-vibration designs: Honeycomb chassis and large insulators
- Optical digital output with output selector switch
- Design for low noise: Display off switch
- Full-function SR (System Remote)

control unit, with power on/off
- Compu-PGM Edit and Auto programme editing
- Peak search: To facilitate output level setting for recording
- Index search (on remote)

PD-S707

Compact Disc Player | Stable Platter Mechanism | Hi-bit Legato Link Conversion

- Hi-bit Legato Link Conversion
- DAC 24: For high resolution of 120dB to 40kHz frequencies
- Stable Platter Mechanism with centre-tray loading
- Acoustic damper tray
- Z-Concept: Accurate signal

(Available in summer 1998.)

transmission for realistic 3-D perspective
- Anti-resonance and anti-vibration designs: Honeycomb chassis and large insulators
- Optical digital output with output

selector switch
- Design for low noise: Display off switch
- Talk-back input: During programme, Compu-PGM Edit and Auto programme editing, display prompts you to input the neces-

sary 'data' through easy-to-understand messages
- Full-function SR (System Remote) control unit, with numeric keypad and power on/off
- Compu-PGM Edit and Auto programme editing (on remote)

PD-S505

Compact Disc Player | **Stable Platter Mechanism** | **Hi-bit Legato Link Conversion**

- **Hi-bit Legato Link Conversion**
- **Stable Platter Mechanism with centre-tray loading**
- **Anti-resonance and anti-vibration designs: Honeycomb chassis and large insulators**

- 1-bit DLC (Direct Linear Conversion) with High-Speed and High-Density Pulseflow D/A Converter
- Design for low noise: Display off switch
- Talk-back input: During pro-

gramme, Compu-PGM Edit and Auto programme editing, display prompts you to input the necessary 'data' through easy-to-understand messages
- Full-function SR (System Remote) control unit, with power on/off

- Compu-PGM Edit and Auto programme editing
- Digital level control (on remote)
- Hi-Lite Scan
- Headphone output with volume control

PD-206

Compact Disc Player

- **Full-function SR (System Remote) control unit**
- **Numeric keypad on unit**
- **1-bit DLC (Direct Linear Conversion) D/A Converter**

- CD-Deck Synchro
- Design for low noise: Display off switch
- Compu-PGM Edit and Auto programme editing

- Hi-Lite Scan
- Memory hold
- Talk-back input
- Headphone output with volume control

PD-106

Compact Disc Player

- **1-bit DLC (Direct Linear Conversion) D/A Converter**

- CD-Deck Synchro

- Design for low noise: Display off switch
- Compu-PGM Edit and Auto programme editing

- Hi-Lite Scan
- Memory hold
- Talk-back input
- Pioneer SR (System Remote) terminal

* The PD-106 shares the same looks and functions as the PD-206 except that it does not come with a remote control, infrared receptacle or numeric keypad. Yet the PD-106 can be controlled with a Pioneer remote using the SR (System Remote) terminal on the rear.

FEATURE COMPARISON: CD PLAYERS

	PD-F1006	PD-F957	PD-F805	PD-F706	PD-F507	PD-F407
			File Type			
Format						
Single-Disc Loader	yes	yes				
Separate Single-Disc Slot			yes	yes		
Disc Capacity	101	101	50+1	25+1	25	25
Digital Features						
1-Bit Pulseflow D/A Converter	yes	yes	yes	yes		
1-Bit D/A Converter					yes	yes
Low-Noise Designs						
Low-Loss Laser Pickup	yes	yes	yes	yes	yes	yes
Playback Options						
Playback Modes						
Single Disc	yes	yes	yes	yes	yes	yes
All Discs	yes	yes	yes	yes	yes	yes
'Custom File' Discs	yes	yes	yes	yes	yes	yes
File Playback Modes						
Best Selection Memory	yes (20 tracks)	yes (20 tracks)	yes (15 tracks)	yes (15 tracks)	yes (15 tracks)	yes (15 tracks)
Previous Disc Scan	yes (20 discs)	yes (20 discs)	yes (15 discs)	yes (15 discs)	yes (15 discs)	yes (15 discs)
Hi-Lite Scan	yes	yes	yes	yes	yes	yes
Random Play Modes						
Single Disc	yes	yes	yes	yes	yes (full)	yes (full)
All Discs	yes	yes	yes	yes	yes (full)	yes (full)
'Custom File' Discs	yes	yes	yes	yes	yes (full)	yes (full)
Programmed Play (Steps)	36	36	24	24	32	32
Repeat Modes						
Single Track	yes	yes	yes	yes	yes	yes
Single Disc	yes	yes	yes	yes	yes	yes
All Discs	yes	yes	yes	yes	yes	yes
'Custom File' Discs	yes	yes	yes	yes	yes	yes
Single Disc Random	yes	yes	yes	yes	yes	yes
All Disc Random	yes	yes	yes	yes	yes	yes
'Custom File' Disc Random	yes	yes	yes	yes	yes	yes
Programmed Tracks	yes	yes	yes	yes	yes	yes
Conveniences						
CD-Deck Synchro	yes	yes	yes	yes		
On-Screen Disc Management System	yes					
Title Input (* via PC Keyboard)	yes*	yes				
Dot-Matrix Display		yes				
CD Text Compatible	yes	yes				
SR (System Remote) Control Unit	yes	yes	yes	yes	yes	
Memory Backup	yes	yes	yes			
Memory Hold	yes	yes	yes	yes	yes	yes
Last Disc Memory	yes	yes	yes	yes	yes	yes
Direct Track Access by Numeric Keypad (Remote)	yes	yes	yes	yes	yes	
Auto Power-On/Power-Down Eject (Single-Disc Slot)			yes	yes		
Liner Notes File	1	1	1	1	1	1
Terminals						
Optical Digital Output	yes	yes	yes	yes	yes	
Headphone Output with Volume Control	yes		yes	yes		
Video Output for Disc Management	yes					
Pioneer SR (System Remote) Terminal	yes	yes				yes
Anti-Resonance & Anti-Vibration Designs						
Honeycomb Chassis			yes	yes	yes	yes
Large Insulators	yes	yes	yes	yes	yes	yes

SPECIFICATIONS: CD PLAYERS

	PD-F1006	PD-F957	PD-F805	PD-F706	PD-F507	PD-F407
Frequency Response	2–20,000Hz	2–20,000Hz	2–20,000Hz	2–20,000Hz	2–20,000Hz	2–20,000Hz
Signal-to-Noise Ratio (EIAJ)	98dB	98dB	98dB	98dB	98dB	98dB
Dynamic Range (EIAJ)	96dB	96dB	96dB	96dB	96dB	96dB
Channel Separation	–	–	–	–	–	–
Distortion (EIAJ)	0.003%	0.003%	0.003%	0.003%	0.005%	0.005%
Power Requirements (RD)	110–127/220–240V (switchable) 50/60Hz	110–127/220–240V (switchable) 50/60Hz	110–127/220–240V (switchable) 50/60Hz	110–127/220–240V (switchable) 50/60Hz	110–127/220–240V (switchable) 50/60Hz	110–127/220–240V (switchable) 50/60Hz
Power Requirements (RL)			110–120/220–240V (switchable), 50/60Hz		110–120/220–240V (switchable), 50/60Hz	
Power Consumption	14W	12W	14W	14W	13W	13W
Dimensions (W x H x D) (without package)	420 x 190 x 402mm	420 x 193 x 402mm	420 x 190 x 358mm	420 x 190 x 316mm	420 x 193 x 312mm	420 x 193 x 312mm
Weight (without package)	6.5kg	6.5kg	6kg	5.0kg	4.8kg	4.8kg

	PD-M426	PD-M406	PD-S904	PD-S707	PD-S505	PD-206	PD-106
Format	Magazine				Single Play		
Multi-Play	Magazine	Magazine					
Disc Capacity	6	6	1	1	1	1	1
Wide-Range Technology							
Hi-Bit Legato Link Conversion				yes (24-bit)	yes (20-bit)		
Legato Link Conversion S			yes				
Z-Concept Designs							
DAC 24				yes			
Stable Platter Mechanism			yes	yes	yes		
Centre Tray Mechanism			yes	yes	yes		
Accurate EFM Circuit				yes			
Accurate Servo Circuit				yes			
Digital Features							
1-Bit DLC with Pulseflow D/A Converter			yes (twin)		yes		
1-Bit DLC D/A Converter	yes	yes				yes	yes
Clean DAC-Drive System			yes				
Structural Designs							
Direct Connection			yes				
Separate Analogue/Digital Transformers			yes				
Acoustic Damper Tray				yes			
Low-Noise Designs							
Low-Loss Laser Pickup	yes	yes	yes	yes	yes	yes	yes
Display Off Switch			yes	yes	yes	yes	yes
Playback Options							
Playback Modes							
All Discs	yes	yes					
Hi-Lite Scan	Magazine	Magazine		yes	yes	yes	yes
Edit Modes							
Compu-PGM			yes	yes	yes	yes	yes
Auto Programme			yes	yes	yes	yes	yes
Random Play Modes							
All Discs Random	yes	yes					
Single Disc Random			yes	yes	yes	yes	yes
Programme Random			yes	yes	yes		
Programmed Play (Tracks/Discs)	32	32	24	24	24	24	24
Repeat Modes							
Single Track	yes	yes	yes	yes	yes	yes	yes
All Discs (All Tracks)	yes	yes	yes	yes	yes	yes	yes
Programmed Tracks	yes	yes	yes	yes	yes	yes	yes
Random	yes	yes	yes	yes	yes	yes	yes
Conveniences							
Digital Level Control				yes (remote)	yes (remote)	yes	yes
CD-Deck Synchro			yes	yes	yes	yes	yes
Full-Function SR (System Remote) Control Unit*	yes		yes	yes	yes	yes	
Talk-Back Input				yes	yes	yes	yes
Memory Hold	yes	yes	yes	yes	yes	yes	yes
Last Disc Memory	yes	yes					
Peak Search			yes				
Index Search			yes	yes			
Direct Track Access (N=Numeric Keypad; J=Jog)			yes (N)	yes (J)	yes (N)	yes (N)	
Auto Power-On/Power-Down Eject	yes	yes					
Timer Play (Timer Optional)	yes	yes	yes	yes	yes	yes	yes
Music Calendar			yes	yes	yes	yes	yes
Terminals							
Optical Digital Output			yes	yes			
Output Selector			yes	yes			
Headphone Output with Volume Control					yes	yes	
Pioneer SR (System Remote) Terminal**	yes	yes					yes
Anti-Resonance & Anti-Vibration Designs							
Honeycomb Chassis	yes	yes	yes	yes	yes	yes	yes
Large Insulators	yes	yes	yes	yes	yes	yes	yes

* Remote control unit supplied; ** Terminals for wired remote control or CD-Deck Synchro

PD-M426	PD-M406	PD-S904	PD-S707	PD-S505	PD-206	PD-106
2—20,000Hz	2—20,000Hz	2—20,000Hz	2—20,000Hz	2—20,000Hz	2—20,000Hz	2—20,000Hz
98dB	98dB	112dB	110dB	106dB	98dB	98dB
95dB	95dB	98dB	96dB	96dB	96dB	96dB
—	—	106dB	104dB	100dB	—	—
0.005%	0.005%	0.0021%	0.0026%	0.003%	0.003%	0.003%
110—127/220—240V (switchable) 50/60Hz	110—127/220—240V (switchable) 50/60Hz	110/120—127/220/240V (switchable) 50/60Hz (HL) 220—230V, 50/60Hz	110—127/220—240V (switchable) 50/60Hz	110—127/220—240V (switchable) 50/60Hz 110—120/220—240V (switchable), 50/60Hz	110—127/220—240V (switchable) 50/60Hz 110—120/220—240V (switchable), 50/60Hz	110—127/220—240V (switchable) 50/60Hz 110—120/220—240V (switchable), 50/60Hz
12W	12W	21W	14W	13W	12W	12W
420 x 105 x 294mm	420 x 105 x 294mm	420 x 131 x 286mm	420 x 125 x 283mm	420 x 110 x 283mm	420 x 101 x 267mm	420 x 101 x 263mm
3.7kg	3.7kg	5kg	4.2kg	3.8kg	3.1kg	3.1kg

Dynamic Theatre Sound and Easy Installation

Linear Power Response Speaker Technology (S-HF10, S-HF9, S-HF7, S-HF5, S-HS501, S-HS301, S-HS201, S-W200, S-CR505, S-F505, S-C705, S-C605, S-C505)

Speakers are built to be heard but not seen—and this is particularly true with a home theatre system, which can require five speakers (Dolby Pro Logic) or even six (Dolby Digital). The Pioneer Linear Power Response Speaker Technology has made compact size, dynamic power and low distortion all compatible without forcing any compromise. This innovative technology features 'edgeless construction', which allows the diaphragm to travel smoothly over a much longer distance than normal. The result: the diaphragm responds in linear fashion to the input much more faithfully than with ordinary speakers. Musically, this means rich bass and clarity even at low levels, as well as a better sense of presence—all from a surprisingly compact enclosure.

Wide-range sound reproduction

Linear Power Response Technology provides a wider frequency range with superior sound linearity extending to the high-frequency range. This technology is especially well-suited for the low-range sound characteristics of cinema sound. What's more, because a wider dynamic range is realized, Dolby Digital can be effectively reproduced.

Superior power handling

With no edge roll to restrict cone movement, this innovative system mimics a finely tuned, precision piston, smoothly driving the speaker cone to a higher power input level than ever before. This innovative design delivers a richer, more powerful bass in a compact speaker system.

Edgeless construction for clean sound reproduction

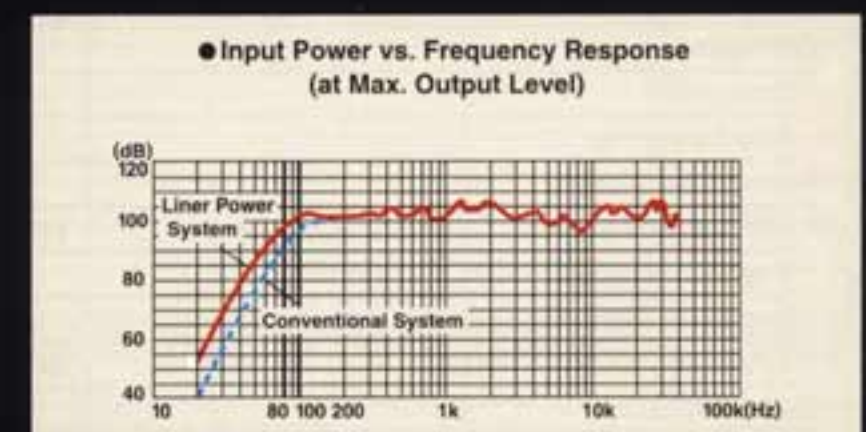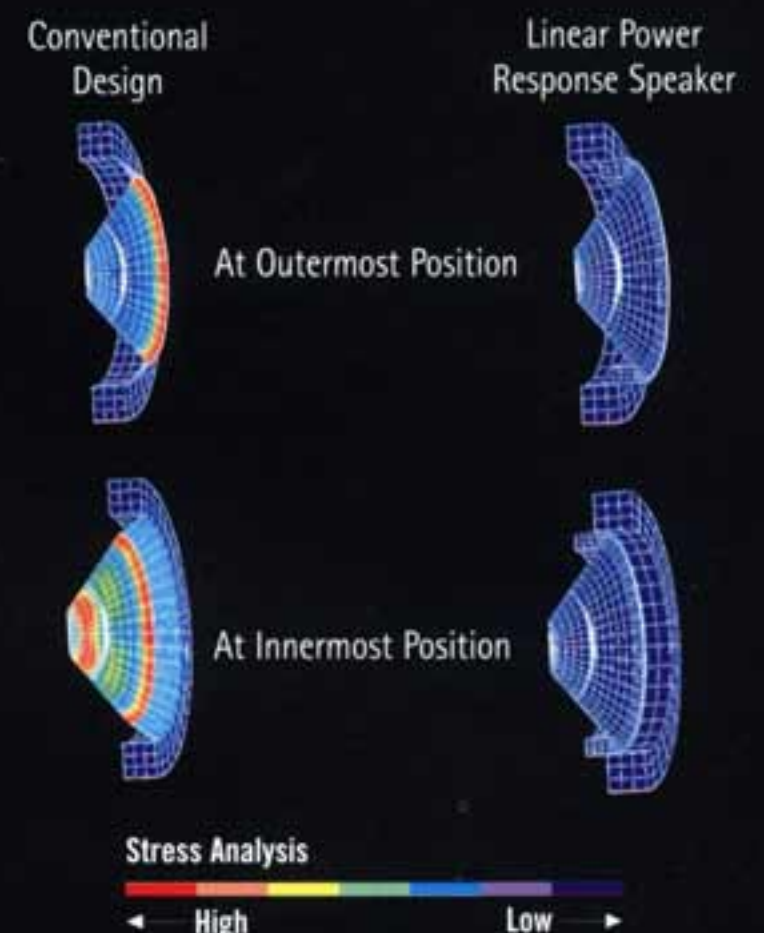The Linear Power Response Speakers provide near perfect linear response.

Thanks to the unique edgeless diaphragm, there is no stress or distortion around its rim, facilitating clean sound reproduction that is as close to the original source as possible.

Conventional Design

Linear Power Response Speaker

At Outermost Position

At Innermost Position

Stress Analysis

◄ High   Low ►

LINEAR POWER RESPONSE TECHNOLOGY

KAZZE

The Kazze speaker is an application of Pioneer Linear Power Response Technology.

● Input Power vs. Frequency Response (at Max. Output Level)

Liner Power System

Conventional System

S-C705/S-C605

S-HF10/S-HF9/S-HF7/S-HF5

S-HF10/S-HF9/S-HF7/S-HF5

S-C505

S-C505

S-W200/S-W100S

It faithfully reproduces every sound —from a bee's buzz to a dinosaur's roar. Pioneer Linear Power Technology.

S-HF10

LINEAR POWER RESPONSE TECHNOLOGY KAZZE

| Linear Power | 200W Max. (6Ω) |

- Tower design: For consistent performance independent of room flooring
- New Linear Power Response Technology: Dynamic power and low distortion with accurate linear response to input
- Two 22cm cone woofers
- 7.7cm cone midrange
- 2.5cm cone tweeter
- Magnetically shielded for audio/video use
- Binding posts

S-HF9

LINEAR POWER RESPONSE TECHNOLOGY KAZZE

| Linear Power | 160W Max. (6Ω) |

- Tower design: For consistent performance independent of room flooring
- New Linear Power Response Technology: Dynamic power and low distortion with accurate linear response to input
- 22cm cone woofer
- 7.7cm cone midrange
- 2.5cm cone tweeter
- Magnetically shielded for audio/video use
- Binding posts

S-HF7

LINEAR POWER RESPONSE TECHNOLOGY KAZZE

| Linear Power | 160W Max. (6Ω) |

- Tower design: For consistent perform-ance independent of room flooring
- New Linear Power Response Technology: Dynamic power and low distortion with accurate linear response to input
- Two 15cm cone woofers
- 6.6cm cone tweeter
- Magnetically shielded for audio/video use

S-HF5

LINEAR POWER RESPONSE TECHNOLOGY KAZZE

| Linear Power | 150W Max. (6Ω) |

- Tower design: For consistent perform-ance independent of room flooring
- New Linear Power Response Technology: Dynamic power and low distortion with accurate linear response to input
- 15cm cone woofer
- 6.6cm cone tweeter
- Magnetically shielded for audio/video use

KAZZE The Kazze speaker is an application of Pioneer Linear Power Response Technology.
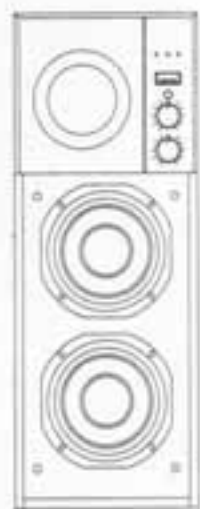
S-W200

LINEAR POWER *KAZE*
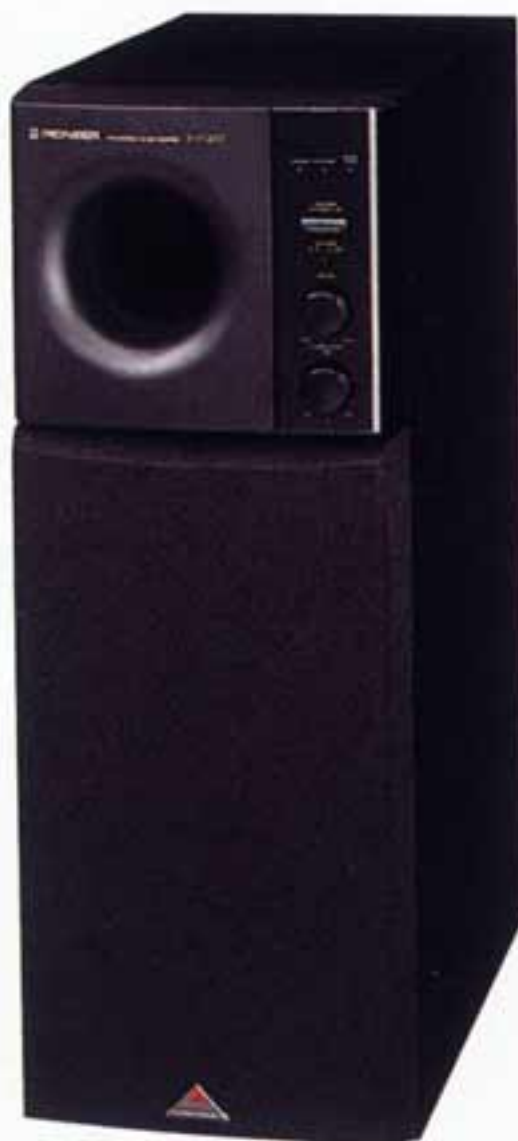
Linear Power | **Powered Subwoofer**

- Power output: 200W (RMS, 4 ohms, 30–200Hz)

- Linear Power Response Technology
- Two compact 15cm Linear Power Response woofers for dynamic bass sound with low distortion
- Built-in amplifier: High-efficiency high-power PWM (Pulse Width Modulation) switching operation
- Volume control
- Continuous variable turnover frequency
- Phase switch (0°/180°)
- Auto power off
- Magnetically shielded for audio/video use
- Dual inputs: Speaker level and line level
- Dimensions (W x H x D): 210 x 550 x 428mm
- Weight: 14.8kg

Unit Layout

S-W100S

Powered Subwoofer

- Power output: 100W (RMS, 4 ohms, 30–200Hz)

- Floor-standing passive radiator system
- 16cm cone woofer and 15.6cm x 28.6cm oval passive radiator for dynamic bass sound with low distortion
- High-efficiency high-power amplifier built-in
- Volume control
- Continuous variable turnover frequency
- Phase switch (0°/180°)
- Magnetically shielded for audio/video use
- Dual inputs: Speaker level and line level
- Dual outputs: Speaker level and line level
- Dimensions (W x H x D): 190 x 430 x 430mm
- Weight: 10.0kg

(Available in autumn 1998.)

S-C705

LINEAR POWER *KAZE*

Linear Power | **Centre-Channel** | **160W Max. (8Ω)**

- Centre speaker system for A/V receivers and amplifiers
- New Linear Power Response Technology: Dynamic power and low distortion with accurate linear response to input
- 13cm Linear Power Response cone woofer (x 2)
- 2.5cm cone tweeter
- Magnetically shielded for audio/video use

Unit Layout
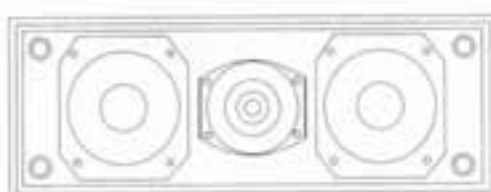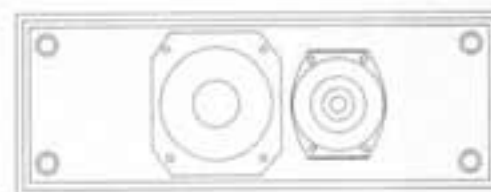
S-C605

LINEAR POWER *KAZE*

Linear Power | **Centre-Channel** | **160W Max. (8Ω)**

- Centre speaker system for A/V receivers and amplifiers
- New Linear Power Response Technology: Dynamic power and low distortion with accurate linear response to input
- 13cm Linear Power Response cone woofer
- 2.5cm cone tweeter
- Magnetically shielded for audio/video use

Unit Layout

S-C505

LINEAR POWER *KAZE*

Linear Power | **Satellites Speaker** | **160W Max. (8Ω)**

- Satellite speaker system for A/V receivers and amplifiers
- New Linear Power Response Technology: Dynamic power and low distortion with accurate linear response to input
- 13cm Linear Power Response cone woofer
- 2.5cm cone tweeter
- Magnetically shielded for audio/video use

Unit Layout

S-HS501

Satellite x 5

Powered Subwoofer x 1

LINEAR POWER
RESPONSE TECHNOLOGY

KAZE

A package with a powered subwoofer and a full five speakers...another package with a subwoofer and three satellites.... Our Home Theatre Experience speaker packages come in such a wide variety that you'll find one that exactly meets your needs. For example, if you want to upgrade to the full '5.1' channels of Dolby Digital in an economical way, you just add the S-HS301 (a package of a subwoofer and three satellites for centre and surround) and use the existing speakers you have for the front channels. Compact satellites are magnetically shielded for audio/video use and come with mounting hardware.

(The S-HS501 consists of the S-CR505, S-F505 and S-W200.)

S-HS301

Satellite x 3

Powered Subwoofer x 1

LINEAR POWER
RESPONSE TECHNOLOGY

KAZE

(The S-HS301 consists of the S-CR505 and S-W200.)

S-HS201

Satellite x 2

Powered Subwoofer x 1

LINEAR POWER
RESPONSE TECHNOLOGY

KAZE

(The S-HS201 consists of the S-F505 and S-W200.)

S-CR505

Satellite x 3

LINEAR POWER
RESPONSE TECHNOLOGY

KAZE

(The S-CR505 is a package of three S-C505 units.)

S-F505

Satellite x 2

LINEAR POWER
RESPONSE TECHNOLOGY

KAZE

(The S-F505 is a package of two S-C505 units.)

S-D99

4-Way Speaker
230W Max. (6Ω)

- Aligned Tweeter Tower Design: For precise sonic imaging and extended response
- Two 20cm cone woofers: For doubly rich and powerful bass response
- 7.7cm cone midrange and 6.6cm cone tweeter
- Round-corner front baffle
- Self-restoring circuit breaker

S-D77

3-Way Speaker
180W Max. (6Ω)

- Aligned Tweeter Tower Design: For precise sonic imaging and extended response
- 20cm cone woofer, 7.7cm cone midrange and 6.6cm cone tweeter
- Round-corner front baffle
- Self-restoring circuit breaker

S-D55

3-Way Speaker
180W Max. (6Ω)

- Aligned Tweeter Design: For precise sonic imaging
- 20cm cone woofer, 7.7cm cone midrange and 6.6cm cone tweeter
- Round-corner front baffle
- Self-restoring circuit breaker

S-D44V

3-Way Speaker
150W Max. (6Ω)

- Aligned Tweeter Design: For precise sonic imaging
- 20cm cone woofer, 6.6cm cone midrange and 5.2cm cone tweeter
- Magnetically shielded for audio/video use
- Round-corner front baffle
- Self-restoring circuit breaker

S-D33V/
S-D33

3-Way Speaker
150W Max. (6Ω)

- Aligned Tweeter Design: For precise sonic imaging
- 20cm cone woofer, 6.6cm cone midrange and 5.2cm cone tweeter
- Magnetically shielded for audio/video use (S-D33V)
- Round-corner front baffle
- Self-restoring circuit breaker

S-D11V/
S-D11

3-Way Speaker
150W Max. (6Ω)

- Aligned Tweeter Design: For precise sonic imaging
- 20cm cone woofer, 6.6cm cone midrange and 5.2cm tweeter
- Magnetically shielded for audio/video use (S-D11V)
- Round-corner front baffle
- Self-restoring circuit breaker

S-X33V

2-Way Coaxial Speaker System
80W Max. (8Ω)

- Centre speaker system for A/V receivers and amplifiers
- Compact and lightweight (3.5kg)
- 2-way coaxial speaker system
- 14cm cone woofer and 2cm dome tweeter with neodymium magnet
- Magnetically shielded for audio/video use
- Tone control switch

S-X7

Surround Speaker System
30W Max. (16Ω)

- Compact and lightweight (1.5kg)
- Wide installation versatility: Can be hung on the wall or suspended from the ceiling for stereo or surround sound
- Sensitivity selector switch
- 8.7cm full-range speaker

S-R9

2-Way Speaker System
50W Max. (8Ω)

- Compact and lightweight (3.0kg)
- Wide installation versatility: Can be hung on the wall using mounting hardware supplied
- Paired in mirror-image design for left and right
- 14cm cone woofer and 6.6cm cone tweeter

SPECIFICATIONS: SPEAKER SYSTEMS

Linear Power Speaker Systems

	S-HF10	S-HF9	S-HF7	S-HF5	S-C705	S-C605	S-C505
Speakers							
Woofer	22cm cone type x 2	22cm cone type	15cm cone type x 2	15cm cone type	13cm cone type x 2	13cm cone type	13cm cone type
Midrange	7.7cm cone type	7.7cm cone type	–	–	–	–	–
Tweeter	2.5cm cone type	2.5cm cone type	6.6cm cone type	6.6cm cone type	2.5cm cone type	2.5cm cone type	2.5cm cone type
Impedance	6 ohms	6 ohms	6 ohms	6 ohms	8 ohms	8 ohms	8 ohms
Frequency Range	35–35,000Hz	35–35,000Hz	40–20,000Hz	40–20,000Hz	50–35,000Hz	50–35,000Hz	55–35,000Hz
Sensitivity (1m/W)	88dB	88dB	84dB	84dB	85dB	85dB	85dB
Maximum Power	200W	160W	160W	150W	160W	160W	160W
Dimensions (W x H x D) (without package)	290 x 950 x 391mm	290 x 880 x 336mm	220 x 800 x 283mm	220 x 800 x 283mm	440 x 150 x 242mm	440 x 150 x 242mm	140 x 230 x 163mm
Weight (without package)	21.5kg	17.5kg	10.6kg	8.6kg	6.8kg	5.0kg	2.8kg

Linear Power Speaker Packages

	S-HS501	S-HS301	S-HS201	S-CR505	S-F505
System					
Front Satellite	S-C505 x 3 pcs.	S-C505 x 3 pcs.		S-C505 x 3 pcs.	S-C505 x 2 pcs.
Rear Satellite	S-C505 x 2 pcs.		S-C505 x2 pcs.		
Subwoofer Module	S-W200 x 1pc.	S-W200 x 1pc.	S-W200 x 1pc.		
Enclosure					
Front/Rear Satellite	Bass-reflex type	Bass-reflex type	Bass-reflex type	Bass-reflex type	Bass-reflex type
Subwoofer Module	Bass-reflex type	Bass-reflex type	Bass-reflex type	–	–
Speakers					
Front/Rear Satellite	(Midrange) 13cm cone type (Tweeter) 2.5cm cone type	(Midrange) 13cm cone type (Tweeter) 2.5cm cone type	(Midrange) 13cm cone type (Tweeter) 2.5cm cone type	(Woofer) 13cm cone type (Tweeter) 2.5cm cone type	(Woofer) 13cm cone type (Tweeter) 2.5cm cone type
Subwoofer Module (Woofer)	15cm cone type x 2	15cm cone type x 2	15cm cone type	–	–
Impedance	8 ohms	8 ohms	8 ohms	8 ohms	8 ohms
Frequency Range	30–35,000Hz	30–35,000Hz	30–35,000Hz	55–35,000Hz	55–35,000Hz
Sensitivity (1m/W)	85dB	85dB	85dB	85dB	85dB
Maximum Power	160W	160W	160W	160W	160W
Crossover Frequency	50–200Hz (Low/Mid) 5,000Hz (Mid/High)	50–200Hz (Low/Mid) 5,000Hz (Mid/High)	50–200Hz (Low/Mid) 5,000Hz (Mid/High)	5,000Hz (Mid/High)	5,000Hz (Mid/High)
Dimensions (W x H x D) (without package)					
Front/Rear Satellite	140 x 230 x 163mm	140 x 230 x 163mm	140 x 230 x 163mm	140 x 230 x 163mm	140 x 230 x 163mm
Subwoofer Module	210 x 550 x 428mm	210 x 550 x 428mm	210 x 550 x 428mm	–	–
Weight (without package)					
Front Satellite	2.8kg	2.8kg	2.8kg	2.8kg	2.8kg
Rear Satellite	2.8kg	–	–	–	–
Subwoofer Module	14.8kg	14.8kg	14.8kg	–	–

Powered Subwoofers

	S-W200	S-W100S*
Enclosure	Bass-reflex type	Floor-standing passive radiator type
Speaker	15cm cone type x 2	16cm cone x 1 15.6cm x 28.6cm oval passive radiator x 1
Built-in Amplifier	200W (RMS, 30–200Hz, 4 ohms)	100W (RMS, 30–200Hz, 4 ohms)
Frequency Range	30Hz–Turnover Frequency (50–200Hz)	30Hz–Turnover Frequency (50–200Hz)
Input Sensitivity/Impedance (100Hz)		
Stereo (Screw termin.)	3V + 3V/15k ohms	0.7V +0.7V/15k ohms
Mono (Pin jack)	300mV/50k ohms	70mV/50k ohms
MISCELLANEOUS		
Power Consumption	60W	250W
Power Requirements	110–115/120/220–230/240 50/60Hz	110–115/120-127/220–230/240V 50/60Hz
Dimensions (W x H x D)	210 x 550 x 428mm	190 x 430 x 430mm
Weight (without package)	14.8kg	10.0kg

(* Tentative figures.)

Pure Audio Speaker Systems

	S-D99	S-D77	S-D55	S-D44V	S-D33V/S-D33
Speakers					
Woofer	20cm cone type x 2	20cm cone type	20cm cone type	20cm cone type	20cm cone type
Midrange	7.7cm cone type	7.7cm cone type	7.7cm cone type	6.6cm cone type	6.6cm cone type
Tweeter	6.6cm cone type	6.6cm cone type	6.6cm cone type	5.2cm cone type	5.2cm cone type
Impedance	6 ohms	6 ohms	6 ohms	6 ohms	6 ohms
Frequency Range	35–20,000Hz	35–20,000Hz	40–20,000Hz	35–20,000Hz	40–20,000Hz
Sensitivity (1m/W)	87dB	88dB	89dB	89dB	90dB
Maximum Power	230W	180W	180W	150W	150W
Dimensions (W x H x D) (without package)	290 x 880 x 336mm	270 x 800 x 316mm	270 x 620 x 316mm	250 x 890 x 246mm	250 x 525 x 246mm
Weight (without package)	16.5kg	11.5kg	8.0kg	10.8kg	6.4kg (S-D33V)/ 6.2kg (S-D33)

	S-D11V/S-D11	S-X33V	S-X7	S-R9
Speakers				
Woofer	20cm cone type	14cm cone type	8.7cm full-range	14cm cone type
Midrange	6.6cm cone type	–	–	–
Tweeter	5.2cm cone type	2cm cone type with sound director	–	6.6cm cone type
Impedance	6 ohms	8 ohms	16 ohms	8 ohms
Frequency Range	35–20,000Hz	60–25,000Hz	100–20,000Hz	50–20,000Hz
Sensitivity (1m/W)	90dB	90dB	90dB	87dB
Maximum Power	150W	80W	30W	50W
Dimensions (W x H x D) (without package)	250 x 480 x 246mm	184 x 280 x 150mm	136 x 190 x 115mm	170 x 310 x 230mm
Weight (without package)	6.0kg (S-D11V)/ 5.8kg (S-D11)	3.5kg	1.5kg	3.0kg

Integrated Amplifiers

A-705R

Remote Control | **Advanced Wide-Range Linear Circuit** | **130W x 2 (4Ω)**

SR

- Continuous power output: 130W + 130W (DIN, 4 ohms)
- Advanced Wide-Range Linear Circuit: A new current NFB design provides flat output impedance to drive speakers with high stability over a wide frequency range
- High-Current Drive Circuit: Improves resistance to various types of noise. A 2-stage volume control circuit ensures better real-world signal-to-noise ratio

- Full-function SR (System Remote) control
- Chamber construction: A metal screen shields audio circuits from power supply for protection from the effects of power line-borne noise and transformer flux leakage. It also improves the resistance of the chassis to resonance and vibration
- 'Aero Wing' Heat Sink: High-rigidity curved fins reduce vibration to ensure clearer sound reproduction

- 'Aero Wing' Chassis: Additional ridges in chassis help increase rigidity, as well as protect circuits from vibrations generated externally or by the transformer
- High channel separation design: The High-Current Drive Circuit and channel separation enhancer circuit combine to produce wide channel separation
- Motor-driven rotary mechanism for input selection
- Complementary capacitor pair

- 'DIRECT' switch
- 'Silent' microprocessor system: Clock stops whenever the computer is not in use, to avoid digital noise
- Loudness switch
- 7 inputs: PHONO, CD, TUNER, LINE, TAPE 1/DAT, TAPE 2, ADAPTOR/TAPE 3
- Record selector
- High-gain phono equalizer
- Speaker A/B switching relay
- Gold-plated CD and phono inputs
- -20dB muting

A-605R

Direct Energy MOS | **Wide-Range Linear Circuit**
Remote Control | **120W x 2 (4Ω)**

SR

With the Flip-down Panel Opened

Toroidal Transformer

- Continuous power output: 120W + 120W (DIN, 4 ohms)
- Full-function SR (System Remote) control
- Direct Energy MOS Power Amp
- Wide-Range Linear Circuit

- Low power consumption design
- Advanced Direct Connection
- Local circuits off
- High channel separation design
- CD and TAPE 1/DAT input switching relay

- Motor-driven volume control
- S-MOS interface device
- Complementary capacitor pair
- 'DIRECT' switch
- 'Silent' microprocessor system
- Loudness switch

- 6 inputs: PHONO, CD, TUNER, LINE, TAPE 1/DAT, TAPE 2/MONITOR
- Record selector
- Speaker A/B switching relay
- -20dB muting

A-405

Wide-Range Linear Circuit   105W x 2 (4Ω)

- Continuous power output: 105W + 105W (DIN, 4 ohms)
- Wide-Range Linear Circuit
- 6 inputs: PHONO, CD, TUNER, LINE, TAPE 1/DAT, TAPE 2/MONITOR
- 'Aero Wing' Chassis

- 'DIRECT' switch
- Bass/treble tone controls
- Loudness switch
- 2-way tape dubbing

- Headphone output
- Connections for 2 pairs of speaker systems
- –20dB muting

A-307R

Remote Control   Direct Energy MOS   Wide-Range Linear Circuit   80W x 2 (4Ω)

- Continuous power output: 80W + 80W (DIN, 4 ohms)
- Full-function SR (System Remote) control
- Direct Energy MOS Power Amp
- Wide-Range Linear Circuit

- Low power consumption design
- Advanced Direct Connection
- Local circuits off
- Motor-driven volume control
- Complementary capacitor pair
- 'Silent' microprocessor system

- 'DIRECT' switch
- Bass/treble tone controls
- Loudness switch
- 6 inputs: PHONO, CD, TUNER, LINE, TAPE 1/MD, TAPE 2/MONITOR
- 2-way tape dubbing

- Headphone output
- Connections for 2 pairs of speaker systems

Wide-Range Linear Circuit

The Wide-Range Linear Circuit features a superior open-loop gain response. This means that, with the use of only a nominal amount of feedback and a simple one-pole filter, the circuit applies NFB (Negative Feedback) at high stability for frequencies over a wide range, in order to minimize distortion. Moreover, since its output impedance is flat and low over an extended range, the circuit's rejection of external noise is improved.

The Advanced Wide-Range Linear Circuit (A-705R) highlights a complex current mirror circuit for higher linearity and clarity. The use of the fewest possible capacitors ensures natural sound reproduction.

Direct Energy MOS Power Amp (A-605R, A-307R, A-207, A-107)

Our Direct Energy MOS Power Amp features a high-performance power device called Hex MOS FET. It generates much less heat and noise than usual, allowing the listener to enjoy dynamic sound and the heightened sense of clarity. In combination with the Wide-Range Linear Circuit, it ensures an optimum damping factor across the audio range and higher power linearity.

Direct Energy MOS FETs (A-605R)

A-207

Direct Energy MOS
Wide-Range Linear Circuit
60W x 2 (4Ω)

- **Continuous power output:**
  60W + 60W (DIN, 4 ohms)
- **Wide-Range Linear Circuit**
- **Direct Energy MOS Power Amp**

- 6 inputs: PHONO, CD, TUNER, LINE, TAPE 1/MD, TAPE 2/MONITOR
- Low power consumption design
- Local circuits off

- Complementary capacitor pair
- 'DIRECT' switch
- Bass/treble tone controls
- Loudness switch

- 2-way tape dubbing
- Headphone output
- Connections for 2 pairs of speaker systems

A-107

Direct Energy MOS
Wide-Range Linear Circuit
40W x 2 (8Ω)

- **Continuous power output:**
  40W + 40W (DIN, 8 ohms)
- **Wide-Range Linear Circuit**
- **Direct Energy MOS Power Amp**

- 6 inputs: PHONO, CD, TUNER, LINE, TAPE 1/MD, TAPE 2/MONITOR
- Low power consumption design
- Local circuits off

- Complementary capacitor pair
- 'DIRECT' switch
- Bass/treble tone controls
- Loudness switch

- 2-way tape dubbing
- Headphone output

SPECIFICATIONS: AMPLIFIERS

	A-705R	A-605R	A-405	A-307R	A-207	A-107
AMPLIFIER SECTION						
Continuous Power Output						
DIN (1kHz)	130W + 130W (4 ohms)	120W + 120W (4 ohms)	105W + 105W (4 ohms)	80W + 80W (4 ohms)	60W + 60W (4 ohms)	
	85W + 85W (8 ohms)	75W + 75W (8 ohms)	70W + 70W (8 ohms)	55W + 55W (8 ohms)	45W + 45W (8 ohms)	40W + 40W (8 ohms)
Stereo	100W + 100W† (20–20,000Hz, 0.03% THD, 4 ohms)	90W + 90W† (20–20,000Hz, 0.09% THD, 4 ohms)	80W + 80W† (20–20,000Hz, 0.1% THD, 4 ohms)	65W + 65W† (20–20,000Hz, 0.15% THD, 4 ohms)	45W + 45W† (20–20,000Hz, 0.15% THD, 4 ohms)	
	70W + 70W† (20–20,000Hz, 0.015% THD, 8 ohms)	80W + 80W† (20–20,000Hz, 0.06% THD, 8 ohms)	60W + 60W† (20–20,000Hz, 0.05% THD, 8 ohms)	45W + 45W† (20–20,000Hz, 0.1% THD, 8 ohms)	35W + 35W† (20–20,000Hz, 0.1% THD, 8 ohms)	30W + 30W† (20–20,000Hz, 0.1% THD, 8 ohms)
Total Harmonic Distortion	0.009%† (20–20,000Hz, 8 ohms, at -3dB continuous rated power output)	0.06%† (20–20,000Hz, 8 ohms, at -3dB continuous rated power output)	0.03%† (20–20,000Hz, 8 ohms, at -3dB continuous rated power output)	0.08%† (20–20,000Hz, 8 ohms, at -3dB continuous rated power output)	0.08%† (20–20,000Hz, 8 ohms, at -3dB continuous rated power output)	0.08%† (20–20,000Hz, 8 ohms, at -3dB continuous rated power output)
Input Sensitivity/Impedance						
PHONO (MM)	2.8mV/50k ohms	2.8mV/50k ohms	2.8mV/50k ohms	2.8mV/50k ohms	2.8mV/50k ohms	2.8mV/50k ohms
PHONO (MC)	0.24mV/100 ohms	–	–	–	–	–
CD, TUNER, AUX, TAPE	200mV/50k ohms	200mV/50k ohms	200mV/50k ohms	200mV/50k ohms	200mV/50k ohms	200mV/50k ohms
Frequency Response						
PHONO (RIAA Equalization)						
MM	20–20,000Hz ±0.2dB	20–20,000Hz ±0.5dB	20–20,000Hz ±0.5dB	20–20,000Hz ±0.5dB	20–20,000Hz ±0.5dB	20–20,000Hz ±0.5dB
MC	20–20,000Hz ±0.3dB	–	–	–	–	–
CD, TUNER, AUX, TAPE	1–150,000Hz† +0dB, -3dB	5–100,000Hz† +0dB, -3dB	5–100,000Hz† +0dB, -3dB	5–100,000Hz† +0dB, -3dB	5–100,000Hz† +0dB, -3dB	5–100,000Hz† +0dB, -3dB
Signal-to-Noise Ratio (IHF, A-Network)						
PHONO (MM/MC)	90dB† (at 5mV)/76dB† (at 0.5mV)	88dB† (at 5mV)/–	85dB† (at 5mV)/–	85dB† (at 5mV)/–	85dB† (at 5mV)/–	85dB† (at 5mV)/–
CD, TUNER, AUX, TAPE	110dB†	108dB†	107dB†	106dB†	106dB†	106dB†
MISCELLANEOUS						
Power Requirements (SD) (HL)	110/120–127/220/240V (switchable) 50/60Hz	110/120–127/220/240V (switchable) 50/60Hz	110/120–127/220/240V (switchable) 50/60Hz	110/120–127/220/240V (switchable) 50/60Hz	110/120–127/220/240V (switchable) 50/60Hz	110/120–127/220/240V (switchable) 50/60Hz / 220-230V, 50/60Hz
Power Consumption	720W (max.)	550W (max.)	560W (max.)	340W (max.)	310W (max.)	190W (max.)
Dimensions (W x H x D) (without package)	420 x 161 x 432mm	420 x 125 x 345mm	420 x 125 x 360mm	420 x 114 x 307mm	420 x 114 x 307mm	420 x 114 x 307mm
Weight (without package)	12.4kg	7.6kg	7.5kg	6.1kg	4.7kg	4.3kg

Tuners

F-403

Quartz-PLL Synthesizer Tuner

SR

- 9-column dot-matrix fluorescent display
- RF attenuator
- Random presets for 40 stations: For convenience, presets can be grouped into four 'classes' of ten each
- 'Direct access' tuning: Lets you tune a station by using the numeric keypad to enter the frequency
- 4-letter station name memory
- 3-speed search: One touch tunes each and every station, a sustained push causes the tuner to search for only powerful stations, and a more sustained touch quickens the search speed
- Selectable FM IF bandwidth: NORMAL and NARROW
- Large insulators
- Pioneer SR (System Remote) ready for remote operation

F-227S

Not available in ASEAN countries.

Quartz-PLL Synthesizer Tuner

- Random presets for 36 FM/MW/SW1/SW2 stations
- Auto tuning: The next station can be tuned in at the touch of a button
- Stereo/mono switch: With this switch left and right signals can be combined to provide a stronger, less noisy mono signal
- Large fluorescent display

F-205

Quartz-PLL Synthesizer Tuner

SR

- Random presets for 36 FM/AM stations
- RF attenuator: To prevent excessively powerful signals from overloading the front end and causing distortion
- Stereo/mono switch
- Pioneer SR (System Remote) terminal

5

Add-On Equipment

MA-990 — Mic Mixer

- 3 microphone inputs, each with its own volume control
- Digital stereo karaoke key control (9 steps)
- Digital echo
- DSP (Digital Signal Processor) for SUR-

ROUND, ECHO and CHORUS effects
- 3 audio inputs: LD, VCR and TAPE
- One-touch karaoke
- Music source control

MA-9 — Mic Mixer

- 3 microphone inputs, each with its own volume control
- Low-distortion variable digital reverb of up to 1 second

- Digital stereo karaoke key control (9 steps) without changing tempo
- One-touch karaoke

MA-550 — Mic Mixer

- 3 microphone inputs, each with its own volume control
- 3 audio inputs: LD, VCR and TAPE

- Digital echo
- Music source control

GR-555 — 7-Band Graphic Equalizer

- 7-band equalization: Permits boost and cut up to 10dB
- 7-band spectrum analyzer, channel by

channel
- Tape monitor
- Equalization on/off switch

GR-333 — 7-Band Graphic Equalizer

- 7-band equalization: Permits boost and cut up to 10dB
- LEDs in slider tips: Depict the 'shape' of

response you've created, channel by channel
- Equalizer on/off switch

DT-555 — Audio Digital Timer

- 24-hour cycle design
- 1-minute accuracy
- Sleep timer

- Time adjust controls
- 1 AC outlet

EX-9000(BK) — Dynamic Expander

- Dynamic expansion: Increases overall dynamic range of any music source
- 3-band adjustment: Expansion level is adjustable band by band
- 'Music Character' buttons: 'HARD' and

'SOFT' positions
- Fluorescent expansion indicator
- Noise reduction
- 2 input levels: 0dB and –6dB

SR-60(BK) — Reverberation Amplifier

- Effect selector: REVERB, ECHO and DUET
- Reverb level control (0 to 3 seconds)
- BBD (Bucket Brigade Device) amp

- Time/depth display
- Reverb recording
- Line output

PL-990 — Fully Automatic Belt-Drive Turntable

- Fully automatic operation
- Precision DC-servo motor
- Diecast aluminium platter
- Built-in phono equalizer
- Pitch control

Also available is the PL-J2500 with the same features and functions as the PL-990. It's sized to match with Midi components (360mm wide).

CU-AV200/CU-AV100 — Smart Remotes™

Our Smart Remotes™ have the capacity to learn functions from other remote controls for most audio or video components so long as they are of the infrared type. So with a Smart Remote™ in hand, you can handle just about every audio and video operation from the comfort of your chair. The CU-AV200 has 61 keys for 427 functions (max.), all programmable, as well as a convenient LCD display, while the CU-AV100 provides 68 keys for 225 functions (max.), of which 154 are programmable.

* With infrared remote control units of other makes that use special signal types, programming functions may not be possible.

SPECIFICATIONS: TUNERS AND ADD-ON EQUIPMENT

Tuners

	F-403	F-227S	F-205
TUNER SECTION			
Tuning Frequency Range	87.5–108MHz	87.5–108MHz	87.5–108MHz
Usable Sensitivity (mono)	12.7dBf (1.2μV, 75 ohms)	12.7dBf (1.2μV, 75 ohms)	12.7dBf (1.2μV, 75 ohms)
50dB Quieting Sensitivity			
Mono	18dBf (2.2μV, 75 ohms)	18dBf (2.2μV, 75 ohms)	18dBf (2.2μV, 75 ohms)
Stereo	38.3dBf (22.6μV, 75 ohms)	38.3dBf (22.5μV, 75 ohms)	38.3dBf (22.6μV, 75 ohms)
Signal-to-Noise Ratio (IHF)			
Mono/Stereo	81dB/78dB (at 80dBf)	77dB/73dB (at 85dBf)	78dB/74dB (at 85dBf)
Total Harmonic Distortion (1kHz, at 80dBf)			
Mono	0.15%	–	–
Stereo	0.2%	0.3%	0.3%
Frequency Response	30–15,000Hz ±1.0dB	30–15,000Hz ±1.0dB	30–15,000Hz ±1.0dB
Alternate Channel Selectivity			
±400kHz	70dB (Normal)	65dB	
±300kHz	70dB (Narrow)		60dB
Stereo Separation (1kHz)	50dB	40dB	40dB
AM TUNER SECTION			
Tuning Frequency Range	530–1,700kHz	530–1,700kHz	530–1,700kHz
MISCELLANEOUS			
Power Requirements	110/120–127/220/240V (switchable) 50/60Hz	110/120–127/220/240V (switchable) 50/60Hz	110/120–127/220/240V (switchable) 50/60Hz
Power Consumption	15W	10W	10W
Dimensions (W x H x D) (without package)	420 x 75.5 x 284mm	420 x 70 x 274mm	420 x 70 x 284mm
Weight (without package)	2.7kg	2.6kg	2.6kg

Turntable

	PL-990
MOTOR	
Drive System	Belt-drive
Motor	DC-servo motor
Speeds	33-1/3 and 45rpm
Wow and Flutter (WRMS)	0.25%
Signal-to-Noise Ratio (DIN)	50dB
TONE ARM	
Type	Dynamically balanced
Effective Arm Length	195mm
CARTRIDGE	
Type	MM type
Output Voltage	1.8–3.5mV
Stylus	Diamond
Tracking Force	3.5g±1g
MISCELLANEOUS	
Power Requirements	110–120/220–240V (switchable) 50/60Hz
Power Consumption	2W (max.)
Dimensions (W x H x D) (without package)	420 x 100 x 342mm
Weight (without package)	2.65kg

Add-on Equipment

	DT-555
Timer Type	24-hour type
Timer Set	Only one ON/OFF time setting in minimum units of minutes within a 24-hour period
Time Setting Interval	1 minute
Sleep Timer Set	1 minute–1 hour 59 minutes
Accuracy of Timer	No more than 59 seconds (delay time to displayed time)
AC Outlet Capacity Power	1,200 watts (max.)
Power Requirements	220/240V (switchable) 50/60Hz
Power Consumption	6W
Dimensions (W x H x D) (without package)	420 x 52 x 144mm
Weight (without package)	1.7kg

	MA-990	MA-9	MA-550
Inputs (Sensitivity/Impedance)			
MIC	1mV/20k ohms	1mV/40k ohms	1mV/20k ohms
LINE IN	150mV/100k ohms	150mV/50k ohms	150mV/100k ohms
Outputs (Level/Impedance)			
LINE OUT	150mV/5k ohms	150mV/1k ohms	150mV/5k ohms
Power Requirements	AC 110/120–127/220/230–240V (switchable) 50/60Hz	AC 110/120–127/220/230–240V (switchable) 50/60Hz	AC 110/120–127/220/230–240V (switchable) 50/60Hz
Power Consumption	14W	7W	6W
Dimensions (W x H x D) (without package)	420 x 85 x 316mm	420 x 85 x 336mm	420 x 81 x 315mm
Weight (without package)	3.1kg	3.2kg	2.9kg

	GR-555	GR-333
GRAPHIC EQUALIZER SECTION		
Equalizer Range	±10dB	±10dB
Centre Frequencies	60, 150, 400, 1k, 2.4k 6k, 15kHz	60, 150, 400, 1k, 2.4k 6k, 15kHz
SPECTRUM ANALYZER SECTION		
Display Resolution	3dB (x 8)	–
Centre Frequencies	60, 150, 400, 1k, 2.4k 6k, 15kHz	–
MISCELLANEOUS		
Power Requirements	110/120–127/220/240V (switchable) 50/60Hz	110/120–127/220/240V (switchable) 50/60Hz
Power Consumption	16W	6W
Dimensions (W x H x D) (without package)	420 x 105 x 334mm	420 x 60 x 221mm
Weight (without package)	4.2kg	2.2kg

	SR-60(BK)
Reverberation Time (400Hz, DEPTH volume control Min.)	
Reverb	0–3 sec.
Echo	0–3 sec.
Duet	100msec.
Total Harmonic Distortion	0.005% (1kHz, REVERB LEVEL min., output 1V)
Frequency Response	10–70,000Hz +0dB, -1dB
Signal-to-Noise Ratio (IHF, A-Network)	104dB (output 2V)
Power Requirements	110/120–127/220/240V (switchable) 50/60Hz
Power Consumption	30W
Dimensions (W x H x D) (without package)	420 x 99 x 340mm
Weight (without package)	4.6kg

	EX-9000(BK)		
Dynamic Range (max.)	Low (50Hz)	Mid (500Hz)	High (5kHz)
Expansion Level	17dB	12dB	17dB
Upward Gain	+15dB	+7dB	+12dB
Downward Gain	-2dB	-5dB	-5dB
Signal-to-Noise Ratio (IHF, A-Network)	96dB (output 1V, 1kHz, all expansion level max.)		
Gain	0dB (all controls minimum)		
Power Requirements	110/120–127/220/240V (switchable) 50/60Hz		
Power Consumption	28W		
Dimensions (W x H x D) (without package)	420 x 60 x 212mm		
Weight (without package)	3.1kg		

Headphones/Microphones

SE-IR700C*
- Recommended for use with an A/V system
- Type: closed • Reception range: 9m • Noise-resistant infrared optical transmission system
- Transmitter uses 16 LEDs to widen transmission range and improve send/receive performance

SE-IR550C*
- Recommended for use with an A/V system • Type: open • Reception range: 10m • Cordless infrared transmission system • Open-back design for reproduction of rich ambience

SE-IR350C*
- Recommended for use with an A/V system • Type: open • Reception range: 8m
- Large-diameter (32mm) driver units
- Voice-activated automatic power on/off for transmitter

SE-DJ250
- Recommended for use with karaoke systems
- Type: open • Combination open-back headphones and unidirectional dynamic microphones
- Volume control for headphones • Flexible microphone boom and tilting mechanism

SE-700D
- Type: closed • Large-diameter (43mm) coaxial 2-way driver units • Dual bass horn for deep bass • Low-resonance ASA composite construction

SE-500D
- Type: closed • Large-diameter (38mm) coaxial 2-way driver units • Dual bass horn for deep bass • Low-resonance ceramic composite baffles

SE-400D
- Type: closed • Large-diameter (38mm) driver units • Dual bass horn for deep bass • Perfect-fit oval ear pads

SE-M750
- Type: closed • Large-diameter (41mm) driver units • High-performance neodymium magnets
- Synchro self-adjusting headband for comfort and balance • 3D multi-cushion ear pads for close fit and insulation • Low-resonance ASA composite construction • Side-mounting connection cable

SE-M550
- Type: closed • Large-diameter (32mm) driver units
- High-performance neodymium magnets • Synchro self-adjusting headband for comfort and balance
- 3D multi-cushion ear pads for close fit and insulation • Low-resonance ASA composite construction

SE-M350
- Type: closed • Large-diameter (38mm) driver units for rich bass • New oval-shaped design • Reshaped perfect-fit ear pads matching the contours of the ears
- Side-mounting connection cable

SE-M250
- Type: closed • Large-diameter (38mm) driver units for rich bass • New oval-shaped design • Reshaped perfect-fit ear pads matching the contours of the ears
- Lightweight resin-reinforced headband

SE-A40
- Type: open • Large-diameter (33mm) driver units for more subtle sound reproduction
- Double headband • Comfortable fit with 'ball-joint' mechanism for headband and pads
- Fashionable silver metallic round design

SE-A20V/SE-A20
- Type: open • Large-diameter (27mm) driver units
- BBS (Bass Boost Structure) • OFC (Oxygen-Free Copper) Litz wire cable • Gold-plated 2-way mini-plug • 5m (SE-A20V)/2m (SE-A20) long cable
- Volume and stereo/mono control, control box with sound control switch (SE-A20V)

SE-A10
- Type: open • Large-diameter (27mm) driver units • OFC (Oxygen-Free Copper) Litz wire cable • Gold-plated 2-way mini-plug

DM-R70II
- Type: dynamic • Electronic echo circuit
- New mic design for better midrange response • 2-way adaptor plug

DM-52
- Type: dynamic • Newly developed microphone unit featuring high sound quality • Balanced Cannon-type plug

DM-33
- Type: dynamic • Newly developed microphone unit featuring high sound quality • Solid diecast aluminium grip

DM-23
- Type: dynamic • Newly developed microphone unit featuring high sound quality • Tapered resin grip • 2-way adaptor plug

DM-C930
- Type: dynamic • 'Once More' button
- 'Key Control' (#/b) buttons • Balanced Cannon-type plug • Solid diecast zinc grip

DM-C530
- Type: dynamic • 'Once More' button
- 'Key Control' (#/b) buttons • Tapered resin grip

4

* An infrared cordless headphone system with headphones powered by AA batteries. For use in 230V AC areas only.

PIONEER TECHNICAL GLOSSARY

AIS (Accurate Imaging System) (Receiver)
Equalizes high power for five (or four) channels, to make Dolby Digital and Pro Logic sound more exciting with localized dialogue and smooth motion.

ALCA (Auto Level Control with Tape Analysis) (Deck)
Recording level is optimized tape by tape as well as source by source for best results.

Best Selection Memory (File-Type CD)
Store a track of your choice for subsequent replay simply by touching the 'BEST' button while it is being played. Press the 'STOP' key to end the selection process and up to 15 or 20 favourites in memory are played back in order.

Both-Side Play (LD)
You enjoy automatic side-to-side play of an LD without the need to go and flip the disc over.

CD-Deck Synchro (CD)
Synchronized start of CD playback and recording are automatically carried out.

Custom Filing Function (File-Type CD)
A convenient 'filing' tool that allows you to put a group of discs into a 'virtual' file for instant play.

Digital 5-D Theater (Receiver)
Enhances the sense of left-right movement in the rear channels of Dolby Pro Logic—optimized for the 5-Channel Accurate Imaging System.

Digital Noise Reduction (Deck)
Using digital filters to isolate and remove only noise, achieves an amazing signal-to-noise ratio of 90dB—the highest ever in cassette decks.
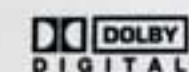
Digital Processing System (Deck)
Converts signals into digital format for precise, low-distortion processing—from noise reduction to FLEX to Super Auto BLE XD.
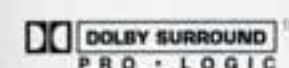
Direct Energy MOS Power Amp (Receiver/Amp)
An ideal power-output device for a high-power multi-channel receiver, featuring superior linearity and low resistance.

Dolby Digital (Receiver)
A giant leap in home theatre sound, providing the '5.1' discrete channels of digital audio supplied from Dolby Digital LD or DVD software. Compatible with Dolby Pro Logic.

Dolby Pro Logic Surround (Receiver)
Puts you in the ambience of a movie theatre, producing four channels—left and right, rear and centre.

DPO (Dynamic Picture Optimizer)(TV)
Brightness and contrast are automatically adjusted according to ambient lighting conditions, for true, natural colour reproduction.

DSP (Digital Signal Processor) (Receiver)
Ensures high-quality signal processing in the digital domain for Dolby Digital or Pro Logic, and sound-field control.

DVP (Digital Video Processing System) (LD)
A cutting-edge engineering effort at Pioneer to provide higher video signal-to-noise ratio and noise-free, sharp picture reproduction.

File-Type CD Play (CD)
Depending on player type, 25, 25+1, 50+1 or 101 discs can be stored and instantly accessed for playback.

FLEX (Frequency Level Expander) (Deck)
Ensures rich, balanced and natural sound with brilliant highs from every recorded tape.

Hi-bit Legato Link Conversion (CD)
The latest version of Pioneer Legato Link Conversion, providing the added advantage of 20-bit equivalent resolution for more natural and musical sound.

High-Speed and High-Density Pulseflow D/A Converter (LD/CD)
Pioneer's exclusive 1-bit technology, suppresses the generation of harmonic distortion while assuring clean and accurate D/A conversion.

ISC (Intelligent System Control) (Receiver)
The latest version of Pioneer's advanced control system, combining the Multi-Operation Smart Remote and Commands with On-Screen Display and Instructions.

Legato Link Conversion (LD/CD/Deck)
Reconstructs the waveform of the original sound by reproducing frequencies above 20kHz, providing the most natural response ever.

Legato Link Conversion S (CD)
An upgraded Legato Link Conversion system featuring an additional harmonic synthesizer to generate frequencies above 20kHz for more lifelike music.

Linear Power Response Speaker (Speaker)
With no edge to restrict cone movement, a compact Linear Power Response speaker can deliver powerful and deep bass sound with low distortion.

Multi-Operation Smart Remote (Receiver)
You can teach the remote the functions of other remotes, make other makers' products responsive to its commands by simply inputting their codes, and store commands to perform a series of actions at a touch.

Natural Wide (TV)
You can fill the projection screen with a naturally expanded picture from any source, including those in popular 4:3 proportions.

On-Screen Disc Management System (File-Type CD)
Uses your TV for on-screen display, letting you give titles to 100 discs, search discs by title, divide them into three groups and programme tracks.

On-Screen Display (Receiver)
Your TV serves as a colourful interactive display to guide you through operations and help you adjust and confirm settings.

Previous Disc Scan (File-Type CD)
Discs are automatically programmed and stored in memory as they are played. At a touch, discs in the memory are played back in reverse order to help you find the one you want.

16:9 Aspect Ratio (TV)
Five modes—Natural Wide, Cinema Wide, Full, Zoom and 4:3 Normal—are provided to fit your programme's original format (in 4:3 proportions, for instance) to a screen with a 16:9 aspect ratio.

SR (System Remote) Control (All Categories)
Pioneer's universal remote control that makes our A/V components responsive to commands from a single SR remote unit.

Stable Platter Mechanism (CD)
Supports the entire disc from below, ensuring accurate readout by eliminating vibrations, jitters, and wobble.

Super Auto BLE and Super Auto BLE XD (Deck)
Optimizes bias, level and equalization tape by tape for the best results. XD (Extended Dynamic Range) additionally optimizes bias to extend high-frequency linearity.

TDNS (Tape Duplication Noise Suppressor) (Deck)
During recording, TDNS stops application of bias when there's a break in the music. On playback there are clean silences between recorded songs.

Virtual Dolby Surround (Receiver/DVD)
Allows two speakers up front to do the job of five speakers, letting you enjoy the 'virtual world' of Dolby home theatre from Dolby Digital and Dolby Pro Logic programmes.

Z-Concept (CD)
A new approach to improving the performance of digital conversion in the time domain for higher musical signal transfer accuracy.

ⓊPIONEER®
The Art of Entertainment

For more information, call or write to:

Visit us on the WWW!

http://www.pioneer.co.jp