

Pioneer *sound.vision.soul*

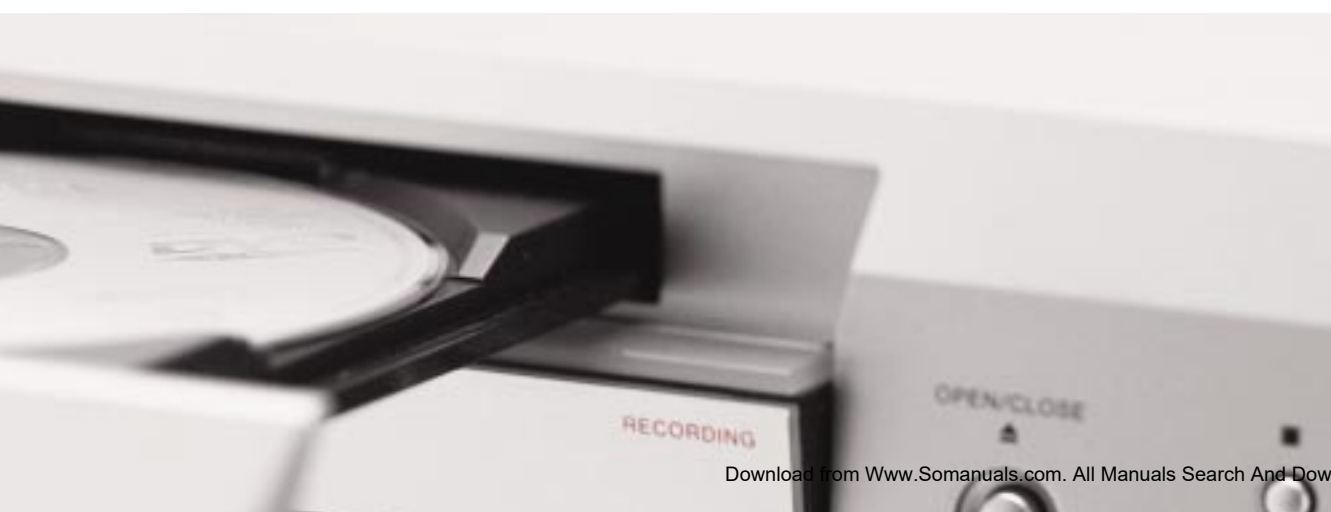
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D V D

R E C O R D E R S

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D V D R E C O R D I N G T E C H N O L O G Y

The DVR-810H-S is a world's first, combining a DVD Recorder and DVD/CD Player with the revolutionary TiVo Basic™ Service, all in one component. TiVo acts as the brain, always working to find and record your favorite programs. Once you experience TiVo and DVD recording, there's just no going back.

And here's the best part: the TiVo Basic™ service is included with the purchase of the Pioneer DVR-810H-S! You don't have to do anything else and there's no fee. So get ready—with the DVR-810H-S and TiVo, you can Find, Store, and Burn what you want, when you want.

Find It

The TiVo service automatically finds the programs you want to watch, and then records them on the built-in Hard Disc Drive for viewing. Now, YOU decide when it's prime time.

Smart, Customized Viewing

The TiVo service*1 searches through all the channels that are available to your home and assembles three days worth of programming information into an easy-access guide. Bottom line: you see the entertainment you like and avoid everything else.

Showcases

Love HBO movies? Want to know what's on NBC tomorrow night? The Showcases menus put it all into one handy grid. It's also a great place to get new ideas about upcoming events you won't want to miss.

Easy Setup

TiVo service is simple to set up and use, with a friendly on-screen navigator that steps you through the process. You can be up and watching in less than an hour! Whether you get your TV signal via cable, digital cable, satellite, antenna, or a combination thereof, TiVo has you covered. It holds a database of over 13,000 channels covering the United States. (To use both satellite and cable at the same time, an upgrade to TiVo Plus™ service is required).

Upgrade to TiVo Plus™ Service

Upgrading to TiVo Plus™ Service*2, which you can do at any time, adds a valuable set of original features. Season Pass™ automatically records every episode of your favorite series every time it's on, even skipping the repeats. You can use WishList™ to search for programs that match your unique interests: tech gadgets, history, you name it. With Online Scheduling, you can schedule recordings from anywhere, via the

Web. And, TiVo Plus™ Service offers a 14-day Program Guide, vs. 3 days with TiVo Basic™ service, so finding future shows and selecting them for recording is even easier.

With the TiVo Plus™ upgrade, you can also take advantage of a home computer network to enable TiVo's exciting Home Media Features*3. Enjoy digital music and digital photos right in your living room. Or, with a TiVo Series2 DVR you can even experience multi-room viewing. For more information, visit www.tivo.com/media.

Store It

SO, just where is all this great content being stored? Glad you asked. The DVR-810H-S includes a big 80GB Hard Disc Drive that holds up to 80 hours of your favorite shows. Now when you turn on your TV, you're greeted with a menu of your own personalized entertainment, instead of endless channel-surfing.

Watch This

How easy is it to watch a program that TiVo has found and stored for you? Just select the program from the "Now Playing" menu and enjoy.

THE NEXT GENERATION OF DVD

If you think you have seen and heard all DVD has to offer, think again. This year Pioneer unleashes technology that will integrate and exhilarate your digital world. It starts with the world's first DVD recorder with built-in TiVo® — combining four components into one and allowing you to easily find, store, burn, and play your personal digital content. And it includes a full line of DVD players featuring progressive scan and playback of high-resolution DVD-Audio and SACD discs. DVD movies were just the beginning; welcome to the next generation.

Control Live TV

Here's the amazing thing: because now you're watching video off the Hard Disc Drive, you can pause, rewind, or slow things down so you never miss a moment. Hit the fast-forward button during recorded programs to skip the parts you don't want to see.

Chase Play

Picture this: you come home late, missing the first ten minutes of a show you were looking forward to. With Chase Play, you can back up and catch the beginning, while the DVR-810H-S finishes recording to the end. You'll never miss your favorite shows again.

Burn It

Once you've stored TV shows and movies on your Hard Disc Drive, you have lots of options. You can keep them on the Hard Disc Drive for repeat viewing, or just watch them once and delete them to free up space. Or, you can burn them onto a DVD — either a DVD-R or DVD-RW — that you can play on most players almost anywhere, even in your car or on your laptop.

DVD-R or DVD-RW?

Favorite shows and one-of-a-kind home movies are good examples of content you'd want to permanently archive onto a DVD-R, so they can't accidentally be erased. Or, use a DVD-RW (content can be erased and re-written) to share with friends and for temporary storage.

80 Hours of Programming

How much material will fit on an 80GB Hard Disc Drive or a DVD? It depends upon the recording quality you select and the type of programming. Here are the recording capacities for each, by quality level:

Quality Level	Recorder	DVD
Extreme (Fine)	14 Hours	1 Hour
High (SP)	27 Hours	2 Hours
Medium (LP)	54 Hours	4 Hours
Basic (EP)	80 Hours	6 Hours

One Fast, Easy Drive

It's easy to record material from the Hard Disc Drive onto DVD. The DVR-810H-S features up to 15x recording speed, so you can dub a 2-hour program to DVD in Basic EP Quality mode in less than 10 minutes. After using a S-L-O-W VCR for so long, you're going to love DVD recording. You can even record content to the Hard Disc Drive while dubbing different content from the Hard Disc Drive to a DVD! Plus, DVD recordings are made in Video Mode, so your newly recorded discs will play in most DVD players.

Extreme Levels of Quality

Relax: once captured to the Hard Disc Drive, your programs stay digital, with vastly superior detail, color accuracy, and audio quality compared to videotape. To take it a step farther, the DVR-810H-S provides an additional level of recording quality, called "Extreme" (Fine), that is not offered by even the best stand-alone DVR set-top boxes.

DCDi by Faroudja

When material originally shot on video (as opposed to film) is up-converted from standard definition (480i) to enhanced definition quality (480p), the process calls for some new video information to be created. Overall, this "interpolation" greatly improves picture quality, but during fast-paced programs such as pro football and hockey it often causes unwanted jagged edges (jaggies) along diagonal lines. The DVR-810H-S utilizes a technique called "Directional Correlation De-Interlacing", or DCDI, a video mode algorithm that monitors edge transitions and fills in any information gaps that cause the jaggies. With DCDI, edges are smoother and more natural, and the overall picture quality is improved.



Digital 3D Noise Reduction

The DVR-810H-S includes a sophisticated noise reduction circuit which can achieve an amazing 6-10dB of noise reduction, without introducing artifacts or decreasing sharpness. You'll experience a much cleaner picture that is virtually free of noise.



*1 TiVo service is accessed through a standard telephone line or broadband connection and is available as a local call in most areas. In some areas, local and long-distance charges may apply.

*2 TiVo Plus service requires subscription fee. Pricing, terms and conditions of TiVo Services are subject to change without notice. Receipt of TiVo Plus service is subject to the terms and conditions of the TiVo service agreement.

*3 Requires upgrade to TiVo Plus and additional equipment. For details, visit www.tivo.com/media

Some discs may not be playable due to different recording formats or physical condition of the disc at the time of recording or playback.

"DCDi" is a trademark of Faroudja, a division of Genesis Microchip Inc.

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DVR-810H-S

DVD RECORDER WITH TIVO®

- Digital Record up to 80 Hours of Your Favorite Shows onto Built-In (80GB) Hard Disc Drive*¹
- DVD-R/RW Recorder, for Copying from Hard Disc Drive to DVD
- Easy Recording Directly from Program Guide
- TiVo Basic™ Service Included; Upgradeable to TiVo Plus™
- MP3 Compatible*²
- DCDi™ by Faroudja
- PureCinema 2:3 Progressive Scan
- Dolby Digital/DTS (Digital Theater System) Digital Output

*¹ Actual recording capacity varies depending upon the type of programming being recorded.

*² Some discs may not be playable due to different recording formats or physical condition of the disc at the time of recording or playback.



RW
COMPATIBLE

This label indicates playback compatibility with DVD-RW discs recorded in VR mode (Video Recording format). However, for discs recorded with a record-only-once encrypted program, playback can only be achieved using the CPRM compatible device.



Don't be fooled by the sleek, low-profile design. These are powerful, next-generation DVD Recorders that make editing, recording, and playing DVDs easy. And fast. And fun. Here's how.

Advanced Disc Navigator

The user-friendly menu system makes all the key functions really easy to operate. For example, you can set up a Play List or move a chapter with this menu. Want to find and play a certain segment of your "My Kids" DVD? Just select a thumbnail of that chapter and it will begin to play.

Full-Motion Thumbnails with Sound

Yes, this menu's thumbnail images are actually shown in full motion, with sound! These mini-movies make it much easier to find what you're looking for, and they make your DVD recordings look really professional. Think of a DVD with full-motion chapter thumbnails from your daughter's childhood or your best friend's wedding, and you can envision what a powerful menu this would make.

Edit. Burn. Show Off. Repeat.

So, you have countless hours of home video of your kids or a recent European vacation. You want to organize your footage and record it to DVD, so you can show it to family and

friends. And let's say you don't have the time or the patience to do it on your home computer.

A Pioneer DVD Recorder is the perfect way to create your own home movie classics on DVD. Basic editing in Video mode lets you name, erase, lock, and unlock titles before finalizing the disc. Want to re-name the title showing baby's first steps? Easy.

In VR mode (using a DVD-RW disc) you can do even more, such as erase part of a title or make detailed changes to chapters in a title. You can also set up a Play List — for example, a title for each European city you toured — which adds further editing capabilities, such as moving the position of a chapter, combining it with another, or dividing it in two.

In Video mode you can finalize the disc and then select a suitable wallpaper to appear behind the disc's menu during playback — so when you show your DVD to friends and family, it has a clean, professional look. And you did it all without a computer!

Built-in Hard Disc Drive (DVR-520H-S)

The DVR-520H-S offers the additional ability of editing content on its built-in 80GB Hard Disc Drive before transferring it to DVD, making it

even easier to create a home video masterpiece. This Hard Disc Drive holds up to 102 hours of your favorite shows and home movies, giving you lots of options: you can store programs for as long as you like, and watch them when you want. You can delete them after viewing to free up disc space. Or burn them to DVD and play them for rear-seat passengers on the next long drive. Your choice.

The DV Cam-to-DVD Connection

If your home movies were shot with a DV camcorder — and you want to burn certain parts to DVD but not others — here's another great feature that will save lots of time. Just connect your camcorder's DV input to the bi-directional DV input on the DVR's front panel. Now, you can use the DVR's remote to control your camcorder's functions (Forward, Reverse, etc.) and easily find the scenes you want to preserve to DVD. The DVR-520H-S and DVR-320-S can control most brands of DV camcorders, unlike many other DVD recorders, which either don't offer DV connectivity at all or don't allow camcorder control via the DVD recorder.

And if your movies were shot in analog format rather than digital? You're covered. Inputs for composite/S-video and left and right audio are provided for dubbing to DVD.



Advanced Disc Navigator



GUI with thumbnails

High-Speed, High-Quality Burning

Program duration ("real time")	Recording Mode used (on HDD)		High-Speed Copy HDD to DVD		
	Name	Corresponding Max. Rec. time on DVD disc	2x Media*	4x Media*	8x Media*
1 hour	FINE	1 hour	30 min.	15 min.	8 min.
1 hour	SP	2 hours	15 min.	7.5 min.	4 min.
1 hour	LP	4 hours	7.5 min.	4 min.	2 min.
1 hour	EP	6 hours	5 min.	2.5 min.	1.25 min.

- The number of titles which can be recorded on the Hard Disk Drive is limited to 250, even if there's still more recording time available.
- The actual speed depends on the recording mode and media used. 48x high-speed copy can be reached when content is recorded in EP mode and copied to 8x DVD-R media.

* Approximate recording times. Additional time will be required, e.g. to create management information.

High-Speed, High-Quality Burning (DVR-520H-S)

They don't call this "burning" for nothing. The DVR-520H-S records from its Hard Disc Drive to DVD at very high speed. An hour-long program recorded in Basic EP mode takes less than 90 seconds when using 8x media. Yes, it's that fast. You can even watch other recorded content on the Hard Disc Drive while backing up a DVD (high-speed copying).

Disc Backup and Bit-for-Bit Recording (DVR-520H-S)

The DVR-520H-S also features Disc Backup, a Pioneer exclusive. You can make a direct file transfer of your home-movie DVD to the unit's Hard Disc Drive, and from that make as many copies of your original DVD as you want, all at blazing speed. This is a great feature even for videophiles who do their editing on their home computer and burn their material to DVD. And unlike other Hard Disc Drive-to-DVD recorders, it doesn't recompress the video to another format. It makes a perfect copy that is bit-for-bit identical to the original, every time.

Chase Play: Prime Time Starts Now

Let's say that you set the timer to record your favorite program, but end up getting home early, while it's still recording. And you want to see it right now, from the beginning. Good news: you don't need to wait until the recording's done. With Chase Play, you can watch the program from the beginning as the rest of the program is being recorded.

With either model, Chase Play lets you watch, stop, or pause a show that you're recording. With the DVR-520H-S,

the Hard Disc Drive is handling both Chase Play tasks. But the DVR-320-S accomplishes Chase Play without a Hard Disc Drive, using a memory buffer and recording directly to standard DVD-RW discs (VR Mode)*.

* Only when using DVD-RW Ver. 1.1/2X (1 – 2X recording speed) and Ver.1.2/4X (2 – 4X recording speed)

Smart VBR (Variable Bit Rate Recording)

This recording mode lets you choose the quality level/recording time that best suits you. Choose from Fine, SP, LP, EP, and Auto; Auto automatically sets the best recording quality for the time remaining on the disc. Both models have an improved VBR recording process for the best possible video quality in any recording mode.

Virtual Liquid Crystal Tilt Mechanism

When recording to DVD, it's critical to have a precisely aimed laser beam. But sometimes imperfections in blank DVD discs cause the laser to lose accuracy, and you can get a less-than-perfect recording. Our new improved virtual lens tilt mechanism featuring liquid-crystal technology corrects for these imperfections, assuring the most accurate recording possible.

TV Recording with Built-in Tuner

TV shows and movies are among the most popular material to record — which is why Pioneer's DVD Recorders include a built-in TV tuner. It's easy to find and record your favorite TV program: use either Pioneer's timer record system with its graphical interface and handy calendar, or the widely used VCR Plus+® system.

Sophisticated Video Playback

The DVR-520H-S and DVR-320-S feature PureCinema 2:3 Progressive Scan for a more film-like presentation when watching movies. A full set of connections is provided, including a component video output for higher-quality signal transfer to your TV. Both models offer a JPEG photo viewer that's compatible with Fuji and Kodak discs, and CD-R/RWs burned from your computer.

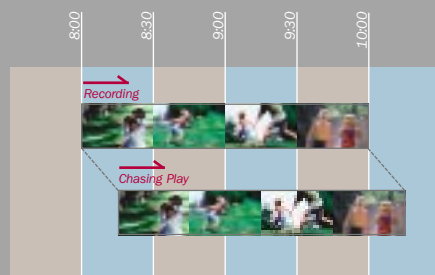
Superior Audio. Of Course.

As with all Pioneer components, great audio comes built in. Both models feature Dolby Digital and DTS Digital surround sound outputs, along with high-quality audio and video D/A converters.

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DVD players and DVD discs have Regional Code classifications that determine their market area and compatibility. Discs and players must have matching codes in order to be played. All DVD players featured in this catalog are classified as Regional Code 1.

Chase Play: Prime Time Starts Now



Chase Play



Simultaneous Recording and Playback

Type		HDD		DVD-R/RW	
		Rec	Play	Rec	Play
Simultaneous Recording & Playback (different source)	Pattern 1	●	▶		
	Pattern 2	●			▶
	Pattern 3		▶	●	
	Pattern 4*			●	▶
Chase Play (same source)	Pattern 1	●	▶		
	Pattern 2*			●	▶

* Caution: Only when using DVD-RW Ver. 1.1/2X (1 – 2X recording speed) and Ver. 1.2/4X (2 – 4X recording speed) media and "VR Mode". While recording to the disc, playback during scan operations may not be smooth.

DVR-520H-S

SLIM-DESIGN DVD RECORDER WITH BUILT-IN 80GB HARD DISK DRIVE



- 59mm-slim design
- 80GB Built-In Hard Disk Drive with max. 102 hours*¹ recording capacity
- High-Speed Copying from HDD to DVD-R/RW disc, and from DVD-RW to HDD in VR mode
- High-quality DVD-RW technologies for optimized recording
 - Precision Recording Technology
 - Lens Tilt Mechanism
 - Ultra DRA (Dynamic Resonance Absorber)
- DVD-RW/DVD-R/CD/Video CD/CD-R/CD-RW Playback Capability
- 10-bit/54MHz Video DAC and 24-bit/192kHz Audio DAC
- PureCinema 2:3 Progressive Scan
- WMA*² (Windows Media™ Audio)/MP3*² Compatible
- JPEG PhotoViewer (FUJICOLOR CD*³/Kodak Picture CD Compatible)
- Dolby*⁴ Digital/DTS*⁵ (Digital Theater System) Digital Output
- Easy Timer and One-Touch Recording
- Chase Play and Playback with Recording (HDD/DVD: VR mode*⁶)

- Erase Title (HDD/DVD) and Chapter Edit (HDD/DVD: VR mode)
- Disc History
- Advanced GUI (Graphical User Interface) with Advanced Disc Navigator and Set-up Navigator
- DV Terminal (IEEE1394*⁷)
- Copy List (Dubbing List) (HDD)
- Closed Caption

*¹ In EP mode. (No more recording is possible on the HDD after the maximum of 250 titles has been reached.)

*² WMA and MP3 specifications are listed on page 13.

*³ FUJICOLOR CD is a trademark of FUJI PHOTO FILM Co. Ltd.

*⁴ "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

*⁵ "DTS" and "DTS Digital Out" are registered trademarks of Digital Theater Systems, Inc.

*⁶ Only when using DVD-RW Ver. 1.1/2X (1 — 2X recording speed) and Ver. 1.2/4X (2 — 4X recording speed).

*⁷ "i.LINK" and "i.LINK" logo are trademarks. Can be connected to video DV decks and DV camcorders (although some DV decks and camcorder models are not compatible). Cannot be connected to DVD players and AV amplifiers.

• VCR Plus+ and PlusCode are registered trademarks of Gemstar Development Corporation. The VCR Plus+ system is manufactured under license from Gemstar Development Corporation.



DVR-320-S

SLIM-DESIGN DVD RECORDER



- 59mm-slim design
- Records up to 6 Hours*¹ to a DVD-R/RW disc
- DVD-RW/DVD-R/CD/Video CD/CD-R/CD-RW Playback Capability
- 10-bit/54MHz Video DAC and 24-bit/192kHz Audio DAC
- PureCinema 2:3 Progressive Scan
- WMA (Windows Media™ Audio)/MP3 Compatible
- JPEG PhotoViewer (FUJICOLOR CD/Kodak Picture CD Compatible)
- Dolby Digital/DTS (Digital Theater System) Digital Output
- Easy Timer and One-Touch Recording
- Chase Play and Playback with Recording (VR mode*²)
- Erase Title and Chapter Edit (VR mode)

- Disc History
- Advanced GUI (Graphical User Interface) with Advanced Disc Navigator and Set-up Navigator
- DV Terminal (IEEE1394*³)
- Closed Caption

*¹ In EP mode.

*² Only when using DVD-RW Ver. 1.1/2X (1 — 2X recording speed) and Ver. 1.2/4X (2 — 4X recording speed).

*³ "i.LINK" and "i.LINK" logo are trademarks. Can be connected to video DV decks and DV camcorders (although some DV decks and camcorder models are not compatible). Cannot be connected to DVD players and AV amplifiers.

• VCR Plus+ and PlusCode are registered trademarks of Gemstar Development Corporation. The VCR Plus+ system is manufactured under license from Gemstar Development Corporation.





PureCinema Progressive Scan (DV-578A-S/DV-275-S)

Keeping it real: Pioneer's 2:3 Pull-Down PureCinema Progressive Scan system, along with a 108MHz/12-bit (DV-578A-S) or 54MHz/12-bit (DV-275-S) D/A converter, retains more of the clarity and subtlety of the original cinema experience. DVDs of movies originally shot on film can now display smooth, high-resolution moving images that are free of artifacts and jagged edges.

DVD-R/DVD-RW Compatible (DV-578A-S and DV-275-S)

These models can play DVDs containing TV content or home movies that you've recorded in either Video Mode or VR Mode. Video Mode recordings, which can be burned to either DVD-R or DVD-RW discs, are playable on nearly all current DVD-Video playback systems. Video Recording (VR) Mode recordings, which can be burned only to DVD-RW discs, are playable on most DVD-RW-compatible players.

DVD-Audio (DVD-A) and Super Audio CD (SACD)

These advanced formats represent the highest level of audio on disc: high-density, high-resolution music that is miles ahead of regular CD. The recordings are bigger, more detailed, and more open, and they're here now.

DVD-Audio (DV-578A-S)

A DVD-A disc holds 4.7GB of data, seven times that of a regular CD. This massive capacity allows it to reproduce ALL of the music intended by the artist, without the limitations of a normal CD. The warmth of a DVD-A recording is reminiscent of the sound from vintage vinyl albums. Audio on a DVD-A can be formatted into two channels (stereo) at a 192kHz, 24-bit rate, which may be the highest level of quality you'll hear in your lifetime. Or, into six channels at a 96kHz, 24-bit rate, creating a full surround field that swirls around you.



Super Audio CD (DV-578A-S)

SACDs also deliver exceptionally detailed sound with the warmth of analog recordings. They hold about 4GB of data and currently come in three types (all three can be played by an SACD-compatible player):



Single-Layer: One layer of high-density data is dedicated to either very high-resolution stereo (two-channel) or multi-channel music.

Dual-Layer: Two high-density layers, otherwise the same as above. The two layers give you even more great music.

Hybrid Discs: Two layers, but one layer is for high-density SACD music, the other for regular CD audio. The CD audio layer is the only type of SACD audio that can be played on a regular CD player. Why would you want a hybrid disc?

You can play the high-density layer in your SACD-compatible home player, and the CD layer in your car or portable CD player.

Disc Navigator (DV-578A-S/DV-275-S)

Disc Navigator makes it simple to browse through digital disc content to find what you want to play. Press PLAY to start a slide show from the first stored folder/picture on a disc containing JPEG picture files. Adjust the image size to fill as much of the screen as possible, magnifying it by a factor of 2 or 4 if you choose. Disc Navigator also makes it easier to access and play MP3 and WMA audio files recorded on CD-R/RW discs*.

* See notes on page 9 for details.

Video Adjust Menu (DV-578A-S/DV-275-S)

This makes it easy to fine-tune picture settings, including Sharpness, Brightness, Contrast, Gamma (for picture 'warmth'), Hue (for red/green balance), and Chroma Level (for color saturation).

Dialog Enhancer (DV-578A-S/DV-275-S)

Set Dialog Enhancer at High, Medium, Low, or Off (default), depending on how much you want a movie's dialog to stand out from background sound in the soundtrack.

Equalizer (DV-275-S)

You can also choose among Rock, Pop, Live, Dance, Techno, Classic, Soft, and Off (default) preset EQ curves, to suit the music being played.

H I G H E R D V D D I S T I N C T I O N

Pioneer proves once again that all DVD players are NOT created equal. With groundbreaking advances that can turn a B-movie into a masterpiece. Compatibility with next-generation audio formats. And convenience features that make great home theater simply effortless. With Pioneer you will hear, see, and feel the difference.



DV-578A-S

SLIM-DESIGN PROGRESSIVE SCAN DVD PLAYER WITH ADVANCED DVD-AUDIO/SACD CAPABILITY



- DVD-Audio/Super Audio CD (SACD) Playback Capability
- DVD-RW (compatible with CPRM^{*1}), DVD-R Capability
- 12-bit/108MHz Video DAC
- 24-bit/192kHz Audio DAC
- PureCinema 2:3 Progressive Scan
- WMA^{*} (Windows Media™ Audio)/MP3 Compatible
- JPEG PhotoViewer (FUJICOLOR CD^{**2}/Kodak Picture CD Compatible)
- Video Adjust Menu (Sharpness, Brightness, Contrast, Gamma, Hue, Chroma Level, BNR)
- DTS^{*3} (Digital Theater System) 5.1-ch. Output
- Component Video Output (DVD, Video CD)

- Advanced GUI
- Disc Navigator for Easy Browsing
- Dialog Enhancer
- Zoom Function
- Twin-Wave Laser Pickup for CD/Video CD/CD-R/CD-RW/DVD-R/RW Playback

^{*1} CPRM copy protection technology with scramble system allows recording of copy-once broadcast programs, but not copying of such recordings. CPRM recordings can only be made on DVD-RW discs in VR mode, and can only be played on CPRM-compatible players.

^{*2} FUJICOLOR CD is a trademark of FUJI PHOTO FILM Co. Ltd.

^{*3} "DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc.



DV-275-S

SLIM-DESIGN DVD/CD/VIDEO CD PLAYER



- DVD-RW (compatible with CPRM), DVD-R Capability
- 12-bit/54MHz Video DAC
- 24-bit/192kHz Audio DAC
- PureCinema 2:3 Progressive Scan
- WMA^{*} (Windows Media™ Audio)/MP3 Compatible
- JPEG PhotoViewer (FUJICOLOR CD/Kodak Picture CD Compatible)
- Video Adjust Menu (Sharpness, Brightness, Contrast, Gamma, Hue, Chroma Level)
- DTS (Digital Theater Systems) Digital Output (DVD)
- Dolby Digital Output
- Component Video Output (DVD, Video CD)

- Dialog Enhancer & Equalizer
- Advanced GUI
- Disc Navigator for Easy Browsing
- Twin-Wave Laser Pickup for CD/Video CD/CD-R/CD-RW/DVD-R/RW Playback
- Zoom Function
- Slim Design with Cursor Key on the Front Panel
- Standby Power Consumption: 0.07W



* Windows Media and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.



ENERGY STAR® and the ENERGY STAR certification mark are registered U.S. marks.

Notes:

MP3 playback: • Compatible with MPEG1 Audio Layer3 32kHz, 44.1kHz and 48kHz formats. • Recording format should be in accordance with ISO9660 CD-ROM file system.

• MP3 file name requires MP3 or mp3 as an extension. • Chinese characters cannot be displayed, although files featuring them can be played. • 299 tracks/folders can be played per disc. • Can play with VBR (Variable Bit Rate), but playing time may not be shown correctly. • Cannot play some CD-R/RW discs recorded via PC, depending on disc and pickup conditions. • Cannot play some CD-R/RW discs recorded via PC, depending on PC system setup parameters.

JPEG PhotoViewer (FUJICOLOR CD/Kodak Picture CD Compatible): • This player is compatible with FUJICOLOR CD and Kodak Picture CD formats, as well as CD-R/RW/Roms containing JPEG files (up to 648 files). • Baseline JPEG and EXIF 2.2 still image files up to 6 megapixels are supported. File format used by digital still cameras. • The CD-R/RW/ROM containing the JPEG files must be ISO 9660 Level 2 compliant. • CD physical format: Mode 1, Mode 2/XA Form 1.

DV-F727

301-DISC FILE-TYPE DVD/CD/VIDEO CD/CD-R PLAYER



- 301-Disc Control and Management
- Easy Title/Artist Input Using Keyboard and Mouse
- Easy Alphabetical Title/Artist
- Easy Disc Sorting with 20 Custom Files (Audio 10, Video 10)
- Auto Update of Text and Types for All Discs
- Master/Slave Connection: Can Be Connected to Another DV-F727 to Control up to 601 Discs
- 10-bit/27MHz Video DAC with Viter-Bi Error Correction
- Advanced Digital Video Noise Reduction with Film Recognition and Gamma Control
- Virtual Dolby Digital with SRS* TruSurround
- 24-bit/96kHz DAC for Superb Sound Quality
- DTS (Digital Theater Systems) Digital Output (DVD)

- Dolby Digital Output
- Joystick & Jog Remote Control Unit
- Component Video Output (DVD, Video CD)
- 2 Digital Audio Outputs (Coaxial and Optical)

* TruSurround, SRS and  symbol are trademarks of SRS Labs, Inc.



Center Loading Mechanism

DVL-919

DVD/CD/LD/VIDEO CD PLAYER



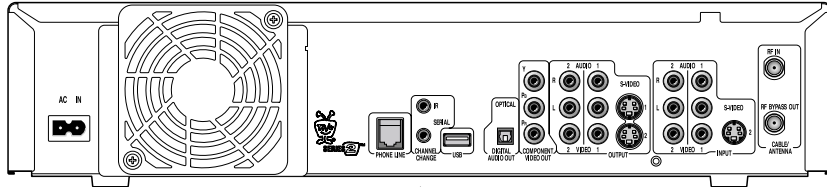
- 10-bit/27MHz Video DAC with Viter-Bi Error Correction
- 24-bit/96kHz DAC for Superb Sound Quality
- Hi-bit Conversion (DVD, LD, CD)
- Component Video Output (DVD, Video CD)
- Video Noise Reduction (DVD, LD, Video CD)
- DTS (Digital Theater Systems) Digital Output (DVD, LD)
- Dolby Digital Output
- Virtual Dolby Surround with SRS TruSurround
- GUI (Graphic User Interface) and Heads-Up Remote for Easy Operation

- Both-Side Play with Sigma-Turn Mechanism for LD Playback
- Digital Field Memory for LD Playback

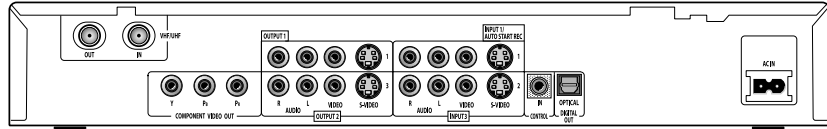


REAR PANELS

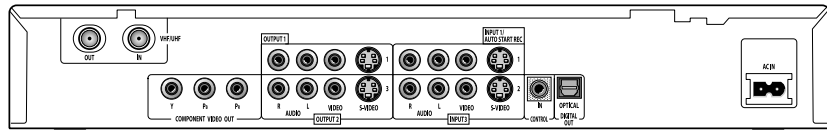
DVR-810H-S



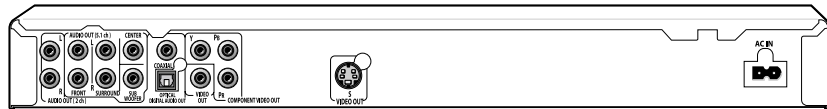
DVR-520H-S



DVR-320-S



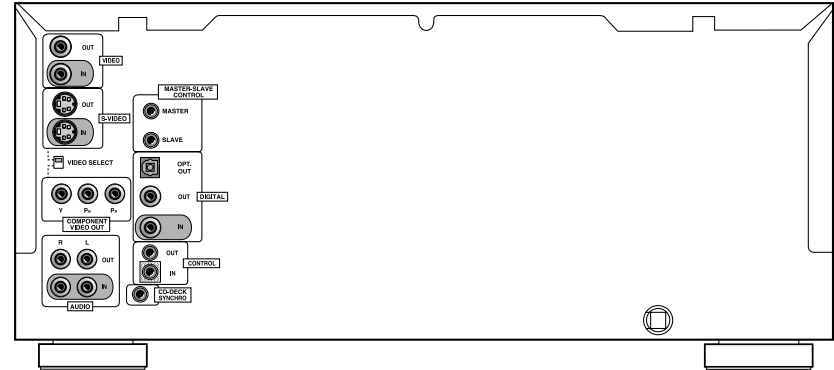
DV-578A-S



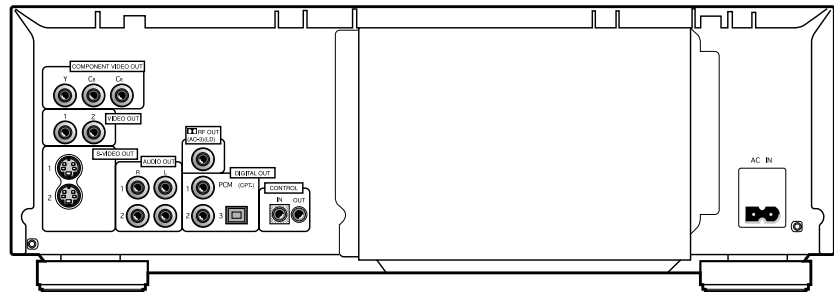
DV-275-S



DV-F727



DVL-919



PRODUCT SPECIFICATIONS

DVD RECORDERS: Feature Comparison & Specifications

DVR-810H-S		
HDD/DVD Recording Mode	HDD	DVD
Playback:		
Media	—	DVD-Video/DVD-R/DVD-RW/ CD/CD-R ¹ /CD-RW ¹
MP3 ² Playback ³	—	Yes
Chase Playback	Yes	—
Recording:		
Media		
DVD-R/RW	—	Yes
Hard Disk Drive (HDD)	80GB	—
Recording Mode:	FINE: +/- 14 H	FINE: +/- 1 H
Max. Recording Time ⁴	SP: +/- 27 H LP: +/- 54 H EP: +/- 80 H	SP: +/- 2 H LP: +/- 4 H EP: +/- 6 H
Variable Bit Rate Recording		Yes
Record from Guide	Yes	—
VCR Plus+	Yes	—
Number of Events	No limit	24 Titles
Editing:		
Input Disc Name/Title Name	—/Yes (Auto by EPG)	Yes/Yes (Auto by EPG)
Erase Title	Yes	—
Chapter Mark	—	Yes (Auto Chapter: fixed at 5 min.)
Picture Quality:		
Progressive Scan		Yes (DCDi [™])
Digital Noise Reduction		Yes (Progressive only)
Video Signal D/A Converter		9-bit/27MHz (10-bit/108MHz; Progressive only)
HDD Function:		
High-Speed Copy	Yes (HDD to DVD)	—
Resume (by Title)		Yes
"Live TV" Control	Yes	—
Conveniences:		
TiVo Basic [♦]		Yes (Program Information: up to 3 days)
TiVo Plus ^{♦♦}		Program Information (up to 14 days), Search By Title, Season Pass [™] , WishList [™] , Smart Recording Options, TiVo Suggestions, and Online Scheduling. Home Media Features ^{♦♦♦} Includes Digital Music, Digital Photos, and Multi-Room Viewing.
Auto Clock Setup		Yes
Tuner:		
Terrestrial Tuner		NTSC, M
VHF / UHF / CATV		2 -13 ch. / 14 - 69 ch. / C14 - C125 ch.
Terminals:		
Phone Line		Yes
IR Control		Yes
Serial Control		Yes
USB		Yes

DVR-810H-S	
Inputs:	
Video Input Terminals	Composite x 2, S-Video x 1
Audio Input Terminals	Composite x 2
Outputs:	
Video Output Terminals	Composite x 2, S-Video x 2, Component x 1
Audio Output Terminals	Composite x 2, Optical Digital x 1
Other Terminals:	
Pioneer SR (System Remote) Terminal	—
Miscellaneous:	
Power Requirements	AC 120V/60Hz
Power Consumption	49W
Dimensions (W x H x D) (without Package)	16-9/16 x 3-11/16 x 15-3/8 inches/420 x 94 x 391mm
Weight (without Package)	13 lbs. 7 oz./ 6.2kg

*1 CD-R/RW Playback: Disc may not be played back because of the following reasons: recording characteristics of recorder/characteristics of disc/scratch and dust on disc/dust and condensation on pickup lens. Unfinalized discs except CD audio formatting cannot be played back. Only CD audio is not compatible with multi-session discs. Only the first session of a multi-session disc will be recognized.

*2 Compatible with MPEG1 Audio Layer3 (MP3) 44.1 kHz and 48 kHz formats. MP3 file name requires MP3 or mp3 as an extension. Compatible with VBR (Variable Bit Rate) (however time display may not be shown correctly). Up to 99 folders and 999 files (MP3 and WMA) in total can be played.

*3 Recording format should be in accordance with ISO9660 level 1 or 2 CD-ROM file system. Both Romeo and Joliet file systems are playable. CD physical format: Mode1, Mode2 XA Form 1. Chinese characters cannot be displayed, although files featuring such names can be played.

*4 Actual recording capacity varies depending upon the type of programming being recorded.

♦ TiVo service is accessed through a standard telephone line or broadband connection and is available as a local call in most areas. In some areas, local and long-distance toll charges may apply.

♦♦ TiVo Plus[™] service requires subscription fee. Pricing, terms and conditions of TiVo Services are subject to change without notice. Receipt of TiVo Plus[™] service is subject to the terms of conditions of the TiVo service agreement.

♦♦♦ Requires Upgrade to TiVo Plus and Additional Equipment. For Details Visit www.tivo.com/media

DVD RECORDERS: Feature Comparison & Specifications

HDD/DVD	DVR-520H-S			DVR-320-S	
	HDD	DVD	DVD	VR mode	Video mode
Recording mode (Format)		VR mode	Video mode	VR mode	Video mode
Playback:					
Media	—	DVD-Video/DVD-R/DVD-RW/ CD/VCD/CD-R/CD-RW ¹		DVD-Video/DVD-R/DVD-RW/ CD/VCD/CD-R/CD-RW ¹	
WMA ² /MP3 ³ /JPEG PhotoViewer ⁴ CD-R/RW ⁵	—	Yes		Yes	
Advanced Disc Navigator	Yes	Yes	Yes (before finalization)	Yes	Yes (before finalization)
Seamless Playback	Yes	Yes	—	Yes	—
CM Skip/Back (Commercial Skip/Back)	—	Yes		Yes	
Chase Play, Playback with Recording	Yes	Yes ⁶	—	Yes ⁹	—
1.5x view (scan 1) ⁷	—	Yes		Yes	
Recording:					
Media	DVD-R	—	Yes	—	Yes
	DVD-RW	—	Yes	Yes	Yes
Hard Disk Drive (HDD)	80GB	—		—	
Recording Mode: Max. Recording Time	FINE: +/- 17 H SP: +/- 34 H LP: +/- 68 H EP: +/- 102 H MN: +/- 17 - 102 H (32 steps) AUTO: Automatically adjust within 4.7GB Max. recording time per title: 6 H	FINE: +/- 1 H SP: +/- 2 H LP: +/- 4 H EP: +/- 6 H MN: +/- 1 - 6 H (32 steps) AUTO: Automatically with disc residual quantity	FINE : +/- 1 H SP: +/- 2 H LP: +/- 4 H EP: +/- 6 H MN: +/- 1 - 6 H (32 steps) AUTO: Automatically with disc residual quantity		
Maximum number of titles	250	99		99	
Precision Recording Technology	—	Yes		Yes	
Liquid Crystal Tilt Mechanism	—	Yes		Yes	
Ultra DRA	—	Yes		—	
Variable Bit Rate Recording	—	Yes		Yes	
Easy Timer Recording	—	Yes		Yes	
VCR Plus+	—	Yes		Yes	
Closed caption	—	Yes		Yes	
One-Touch Recording	—	Yes		Yes	
Number of Timer Events	—	32/month		32/month	
Linear PCM Recording (Audio)	—	Yes (FINE, MN32)		Yes (FINE, MN32)	
Editing:					
Input Disc Name/Title Name	—/Yes	Yes/Yes		Yes/Yes	
Easy Title Input (like Mobile Phone)	—	Yes		Yes	
Wall paper samples (Title Menu: 9-style)	—	—	Yes (Finalization)	—	Yes (Finalization)
Erase Title	Yes	Yes	Yes ⁸	Yes	Yes ⁸
Chapter Edit	Yes	Yes	—	Yes	—
Play List	—	Yes		Yes	
Accuracy	Frame ⁹	Frame	Title	Frame	Title
Chapter Mark	Yes (user-defined)	Yes (user-defined)	10min./15min./ No Separation	Yes (user-defined)	10min./15min./ No Separation
Erase Section	Yes	Yes	—	Yes	—
Undo	—	Yes		Yes	
Copy List (Dubbing List)	Yes	Yes		—	
Picture Quality:					
Progressive Scan	—	Yes		Yes	
Digital Noise Reduction	—	Component Frame DNR		Component Frame DNR	
Video DAC	—	10-bit/54MHz		10-bit/54MHz	
3D Y/C Separate	—	Yes		Yes	
Digital TBC	—	Yes		Yes	
Picture Creation	—	Yes		Yes	

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• Certain playback devices may not play DVD-R discs recorded in the DVD Video format or DVD-RW discs.

HDD/DVD	DVR-520H-S			DVR-320-S	
	HDD	DVD	DVD	VR mode	Video mode
Recording mode (Format)		VR mode	Video mode	VR mode	Video mode
HDD Function:					
Group	Yes	—		—	
One-Touch Copy	Yes (HDD to DVD, DVD to HDD)	—		—	
High Speed Copy	Yes (HDD to DVD, DVD to HDD) ¹⁰	—		—	
Rate Conversion Copy	Yes (HDD to DVD, DVD to HDD)	—		—	
Optimized Copy	Yes (HDD to DVD)	—		—	
Disc Backup ¹¹	Yes	—		—	
Auto Replace Recording	Yes	—		—	
Resume (by Title)	Yes	—		—	
Recovery Recording	Yes	—		—	
Convenience:					
Disc History	—	Yes		Yes	
Auto Clock setup	—	Yes		Yes	
Set up Navigator	—	Yes		Yes	
Auto scan channel preset	—	Yes		Yes	
Tuner:					
VHF	—	2 — 13ch		2 — 13ch	
UHF	—	14 — 69ch		14 — 69ch	
CATV	—	C1 — C125ch		C1 — C125ch	
Terminal:					
Input	AV (Audio/Video)	3 (front: 1)		3 (front: 1)	
	S-Video	3 (front: 1)		3 (front: 1)	
Output	AV (Audio/Video)	2		2	
	S-Video	2		2	
	Component Video	1		1	
	Digital Audio	Optical		Optical	
DV Terminal (IEEE1394) ¹²	—	IN/OUT		IN/OUT	
SR Control Input	—	Yes		Yes	
Dimensions (W x H x D)	16.9/16 x 2.5/16 x 13.6/16 inches/420 x 59 x 339mm	16.9/16 x 2.5/16 x 13.6/16 inches/420 x 59 x 339mm		16.9/16 x 2.5/16 x 13.6/16 inches/420 x 59 x 339mm	
Weight	10 lbs. 6 oz./4.7kg	8 lbs. 13 oz./4.0kg		8 lbs. 13 oz./4.0kg	
Power Requirements	—	AC120V/60Hz		AC120V/60Hz	
Power Consumption	—	48W		26W	
Power Consumption in Standby Mode	—	0.48W (Display off)		0.42W (Display off)	
Remote Control	—	Yes		Yes	

*1 CD-R/RW Playback: Disc may not be played back because of following reasons: recording characteristics of recorder/characteristics of disc/scratch and dust on disc/dust and condensation on pickup lens. CD-R/RW Playback: CD-R/RW discs for Audio, recorded in CD Audio, Video CD or MP3/WMA audio formatting can be played back. Unfinalized discs except OD audio formatting cannot be played back. Only CD audio is not compatible with multi-session discs. Only the first session of a multi-session disc will be recognized.

2 WMA data can be encoded by using Windows Media Player version 9 (or less), or Windows Media Player for Windows XP Compatible with sampling rate of 44.1 or 48 kHz. Not compatible with loss-less-encoding or variable bit-rate (VBR) WMA files. WMA files encoded with DRM (Digital Rights Management) copy protection will not play. Up to 99 folders and 999 files (MP3 and WMA) in total can be played. [* DRM copy protection: DRM (Digital Rights Management) copy protection is a technology designed to prevent unauthorized copying by restricting playback, etc. of material on devices other than the PC (or other WMA recording equipment) used to record it. For detailed information, please see the instruction manuals or help files that came with your PC (or other WMA recording equipment) and/or software.]

*3 Compatible with MPEG1 Audio Layer3 44.1kHz and 48kHz formats. MP3 file name requires MP3 or mp3 as an extension. Compatible with VBR (Variable Bit Rate) (however time display may not be shown correctly). Up to 99 folders and 999 tracks (MP3 and WMA) in total can be played.

*4 JPEG file compatibility: This recorder is compatible with FUJICOLOR CD and Kodak Picture CD formats, as well as CD-R/RW/ROMs containing JPEG files. Baseline JPEG and EXIF files up to 19 megapixels are supported (maximum vertical is 3,840 pixels and horizontal resolution is 5,120 pixels).

*5 Recording format should be in accordance with ISO9660 level 2 CD-ROM file system. Both Romeo and Joliet file systems are playable. CD physical format: Mode1, Mode2 XA Form 1. Chinese characters cannot be displayed, although files featuring such names can be played.

*6 Only when using DVD-RW Ver. 1.1/2X (1 — 2X recording speed) and Ver. 1.2/4X (2 — 4X recording speed).

*7 Sound is output with Dolby Digital and Linear PCM audio only. Dialog may not be clearly reproduced depending on the recording conditions. No sound during DVD chase play.

*8 For DVD-R discs, remaining volume is not increased after erasing titles. For DVD-RW discs, remaining volume is increased when erasing the last title.

*9 With high-speed copy in Video Mode, editing point might be moved.

*10 High-speed copy from DVD to HDD is only available for original title in "VR Mode (Video Recording Mode)" (except One-Touch Copy). High-speed copy from the titles recorded with computers or other DVD recorders may not be available.

*11 Only for finalized DVD-R/DVD-RW discs recorded in Video mode.

*12 "i.LINK" and "i.LINK" logo are trademarks. Can be connected to video DV decks and DV camcorders (some models are not compatible). Cannot be connected to DVD players and AV amplifiers.

Note: Specifications and design subject to modification without notice.

PRODUCT SPECIFICATIONS

DVD PLAYERS: Feature Comparison

	DV-578A-S	DV-275-S	DV-F727	DVL-919
Technical Features:				
Playback Discs	DVD-Video/Audio/ DVD-R/RW (Video Mode) ^{1,2} / DVD-RW (Video Recording Mode)/ SACD/CD/CD-R/CD-RW ² / Video CD	DVD-Video/ DVD-R/RW (Video Mode) ^{1,2} / DVD-RW (Video Recording Mode)/ CD/CD-R ² /CD-RW ² / Video CD	DVD-Video/ CD/CD-R ² / Video CD	DVD-Video/ LD/CD/CD-R ² / Video CD
Disc Capacity	1	1	301	1
Twin-Wave Laser Pickup	Yes	Yes	Yes	Yes
JPEG PhotoViewer	Yes	Yes	—	—
MP3/WMA Playback	Yes/Yes	Yes/Yes	—	—
Both-Side Play	—	—	—	Yes (LD)
Video Features:				
Video Signal D/A Converter (DVD/Video CD)	12-bit/108MHz	12-bit/54MHz	10-bit/27MHz	10-bit/27MHz
Video Adjust	Yes (Sharpness, Contrast, Brightness, Gamma, Hue, Chroma Level, BNR)	Yes (Sharpness, Contrast, Brightness, Gamma, Hue, Chroma Level)	Yes (DNR, Sharpness, Detail, Gamma, Chroma Delay)	—
Picture Zoom	Yes (DVD, VCD)	Yes (DVD, VCD)	—	—
PureCinema Progressive Scan	Yes	Yes	—	—
Audio Features:				
24-bit/192kHz D/A Converter	Yes	Yes	—	—
24-bit/96kHz D/A Converter	—	—	Yes	Yes
Hi-bit Conversion	—	—	—	Yes
Virtual Surround	Yes	Yes	Yes (Virtual Dolby Digital)	Yes (Virtual Dolby Surround)
Audio Dynamic Range Compression (DVD)	Yes (Off, Low, Mid, High)	Yes (Off, Low, Mid, High)	Yes (On/Off)	Yes (Variable)
Dolby Digital Decoder (5.1-channel)	Yes	—	—	—
DTS Decoder	Yes	—	—	—
DVD-Audio Decoder	Yes	—	—	—
Super Audio CD Multi Decoder	Yes	—	—	—
Digital Out On/Off	Yes	Yes	—	Yes
Dialog Enhancer	Yes	Yes	—	—
Equalizer (Rock, Pops, Live, Dance, Techno, Classic, Soft)	—	Yes	—	—
Advanced GUI (English/French/Spanish):	Yes	Yes	Yes	—
On-Screen Information	Yes	Yes	Yes	—
GUI (English/French/Spanish):	—	—	—	Yes

Some discs may not be playable due to different recording formats or physical condition of the disc at the time of recording or playback.

DVD players and DVD discs have Regional Code classifications that determine their market area and compatibility. Discs and players must have matching codes in order to be played. All DVD players featured in this catalog are classed as Regional Code 1.

	DV-578A-S	DV-275-S	DV-F727	DVL-919
Conveniences:				
Special Play Functions				
Disc Navigator with Moving Picture	Yes	Yes	—	—
Resume Function (STOP Key)	Yes	—	Yes	—
Continue Play Memory (Last Memory) (up to 5 DVDs/1 LD ² /1 Video CD ²)	Yes (DVD)	Yes (DVD)	Yes (DVD, Video CD)	Yes (DVD, LD, Video CD)
Repeat Mode (All, Title/Chapter, AB) ⁵	Yes	Yes	Yes	Yes
Program Play (CD/SACD: Track, DVD-Video: Chapter & Title, DVD-A: Group/Track) ⁶	Yes	Yes	—	Yes
Still Play (Field/Frame)	Yes (w/Auto)	Yes (w/Auto)	Yes (w/Auto)	Yes (w/Auto)
Still/Step Play (Forward/Reverse, except VCD reverse)	Yes	Yes	Yes	Yes
Slow Play (except VCD reverse)	Yes	Yes	Yes	Yes
Random Play	Yes	Yes	Yes	Yes
Scan/Search Functions				
10-Key Direct Search and Play (Chapter/Track) (R=Remote)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
Title Search	Yes	Yes	Yes	Yes
Track/Time Search	Yes	Yes	Yes	Yes
Other Special Functions				
On-Screen Display On/Off	—	—	Yes	Yes
FL Dimmer/Off	Yes (3 steps)	—	—	Yes
Screen Saver	Yes	Yes	Yes	—
Auto Power Off	Yes	Yes	—	—
Terminals:				
Component Video Output	Yes	Yes	Yes	Yes
S-Video Output	1	1	1	2 (Gold-plated)
Video Output	1	1	1	2 (Gold-plated)
Audio Output	1	1	1	2 (Gold-plated)
Coaxial Digital Output (for DTS/Dolby Digital/L. PCM)	Yes	Yes	Yes	Yes (Gold-plated)
Coaxial Digital Output (for L. PCM)	—	—	—	Yes (Gold-plated)
Optical Digital Output (for DTS/Dolby Digital/L. PCM)	Yes	—	Yes	Yes
One More 301 DVDs Connect	—	—	Yes	—
Pioneer SR (System Remote) Terminal	—	—	Yes (IN/OUT)	Yes (IN/OUT)
AC-3 RF Output (for LD)	—	—	—	1 (Gold-plated)
5.1-ch. Audio Output	1	—	—	—

*1 Unfinalized discs cannot be played.

*2 Can play CD-R and CD-RW music discs in music CD and Video CD format, even if the discs are not finalized (with some non-finalized discs, time indication is not shown since they contain no TOC information). However, the pickup may not be able to play some CD-R or CD-RW discs, depending on the condition of discs and pickup.

*3 Can play CD-R music discs in music CD and Video CD format. When the discs are not finalized, only normal play can be executed; other play modes including fast forward, rewind and track search cannot be executed. However, the pickup may not be able to play some CD-R or CD-RW discs, depending on the condition of discs and pickup.

*4 For occasions when a disc remains in the player.

*5 "A-B Repeat" is available for DVD, CD Audio, Video CD, SVCD. Not available for WMA/MP3.

*6 "Program Play" is unavailable for VR format DVD-RW discs, Video CD/SVCD in PBC mode, WMA/MP3 discs, or while a DVD disc menu is being displayed.

Note: Specifications and design subject to modification without notice.

DVD PLAYERS: Specifications

	DV-578A-S	DV-275-S	DV-F727	DVL-919
DVD Disc:				
5-inch (12cm)		133 min. play time/single-layer single-sided, 242 min. play time/dual-layer single-sided, 266 min. play time/single-layer double-sided, 484 min. play time/dual-layer double-sided		
3-inch (8cm)		41 min. play time/single-layer single-sided, 75 min. play time/dual-layer single-sided, 82 min. play time/single-layer double-sided, 150 min. play time/dual-layer double-sided		
Laser Disc:				
12-inch (30cm)	—	—	—	CAV standard-play disc: 60 min. play time/both sides, CLV extended-play disc: 120 min. play time/both sides
8-inch (20cm)	—	—	—	CAV standard-play disc: 28 min. play time/both sides, CLV extended-play disc: 40 min. play time/both sides
Video CD:				
5-inch (12cm)			74 min. play time	
3-inch (8cm)			20 min. play time	
CD, CD-R/CD-RW:				
5-inch (12cm)			Over 60 min. play time	
3-inch (8cm)			Over 20 min. play time	
DVD Video Characteristics:				
Horizontal Resolution	More than 500 lines	More than 500 lines	More than 540 lines	More than 500 lines
DVD Digital Audio Characteristics:				
Total Harmonic Distortion	0.002%	0.002%	0.002%	0.002%
Frequency Response	48kHz 96kHz 192kHz	4 — 22,000Hz 4 — 44,000Hz 4 — 88,000Hz	4 — 22,000Hz 4 — 44,000Hz	4 — 22,000Hz 4 — 44,000Hz
Signal-to-Noise Ratio	115dB	115dB	118dB	115dB
Dynamic Range	101dB	101dB	102dB	103dB
LD Video Characteristics:				
Horizontal Resolution	—	—	—	425 lines
Video Signal-to-Noise Ratio	—	—	—	51dB
LD Digital Audio Characteristics:				
Total Harmonic Distortion	—	—	—	0.002%
Frequency Response	—	—	—	4 — 20,000Hz
Signal-to-Noise Ratio (EIAJ)	—	—	—	115dB
Dynamic Range	—	—	—	99dB
Outputs:				
Video Output Terminals	RCA Jack (75 ohms, unbalanced) x 1, S-Video Terminal (75 ohms) x 1, Component Output (RCA Jack) x 1	RCA Jack (75 ohms, unbalanced) x 1, S-Video Terminal (75 ohms) x 1, Component Output (RCA Jack) x 1	RCA Jack (75 ohms, unbalanced) x 1, S-Video Terminal (75 ohms) x 1, Component Output (RCA Jack) x 1	RCA Jack (75 ohms, unbalanced) x 2, S-Video Terminal (75 ohms) x 2, Component Output (RCA Jack) x 1
Audio Output Terminals	RCA Jack x 1, RCA Jack (5.1ch) x 1 Digital Output (Optical x 1 and Coaxial x 1)	RCA Jack x 1, Digital Output (Coaxial x 1)	RCA Jack x 1, Digital Output (Optical x 1 and Coaxial x 1)	RCA Jack x 2, Digital Output (Optical x 1 and Coaxial x 1)
Other Terminals:				
Pioneer SR (System Remote) Terminal	—	—	Mini-Jack (for SR Remote Control)	Mini-Jack (for SR Remote Control)
Miscellaneous:				
Power Requirements	AC 120V/60Hz	AC 120V/60Hz	AC 120V/60Hz	AC 120V/60Hz
Power Consumption	10W	9W	21W	48W
Dimensions (W x H x D) (without Package)	16-9/16 x 2-1/8 x 9-9/16 inches 420 x 55 x 243mm	16-9/16 x 2-1/16 x 9-3/4 inches 420 x 53 x 247mm	16-9/16 x 7-5/8 x 17-1/16 inches 420 x 193 x 434mm	16-9/16 x 5-3/4 x 18-3/16 inches 420 x 146 x 462mm
Weight (without Package)	4 lbs. 10 oz./2.1kg	5 lbs. 10 oz./2.1kg	17 lbs./7.7kg	18 lbs. 8 oz./8.4kg

Note: Specifications and design subject to modification without notice.

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