2) i.LINK.   In order for DVD players to deliver next-generation digital signals such as DVD-Audio and SACD, new methods of transmission had to be developed. i.LINK connectivity, a.k.a. IEEE1394, is an advanced digital interface that's become the industry standard for transmitting these high-resolution multi-channel recordings. Plus, you can simplify your system: what used to take up to six different connections to achieve, i.LINK handles with a single digital connection. This enables two-way communication between components such as receivers and DVD players. (DV-59AVi and DV-47Ai)

DVD PLAYERS THAT PUT YOU IN CONTROL

Elite DVD players enable you to make adjustments to your taste, with select models (DV-59AVi, DV-47Ai, DV-45A) even offering three user memories to recall your settings.

• Progressive Motion: Maximizes the Progressive circuit for the type of video-based DVD you're watching: SLOW for mostly static pictures, FAST for fast-moving images.

• Component Frame Digital Noise Reduction (DNR):   Independently reduces noise in the luminance and color signals.

• Mosquito Noise Reduction: Reduces distortion concentrated near the edges of moving objects. (DV-47Ai)

• Block Noise Reduction: Reduces noise associated with the digitization process used in DVD production. (DV-47Ai)

• Black/White Levels: Lets you independently adjust the black and white levels for optimal contrast.

• PureCinema Progressive Scan (3-2 Pulldown)
• 108MHz/12bit Video DAC for High-quality DVD Pictures
• Twin-Wave Laser Pickup for CD/Video CD/CD-R/ CD-RW/DVD-R/RW (DVD Video Format) Playback
• Super-Fine Focus Filter with 4:4:4 Video Up-Sampling
• 16 Video Parameter Adjustments w/3 User Memories (Progressive Motion, PureCinema (On, Off, Auto),YNR, CNR, Mosquito NR, Block NR, Sharpness High, Sharpness Mid, Detail, White Level, Black Level, Gamma, Black Setup, Hue, Chroma Level, Chroma Delay)

• 3 Factory Video Settings (CRT/PDP/Professional)
• Pioneer Exclusive Viterbi Error Correction with Accurate Digital Servo for Superior Reading Accuracy
• Trick Play Processor for Smooth Scanning
• i.LINK (Advanced Resolution Digital Audio Interface) Audio Output
• Legato Pro/Hi-bit Processing (Front Channels)
• DVD Audio Playback
• Multi-channel SACD Playback (1 bit)
• MP3 Playback Capability

• Bass Management
• Triple 192kHz/24-bit (3x2 Channel) Audio DAC's for Superior Sound Quality
• Legato Pro Conversion
• Dolby® Digital and dts® Digital Outputs
• Dolby® Digital and dts® Decoders
• New Advanced GUI (Graphic User Interface) with Set-up Navigator
• Jog and Joystick Remote with Glow-in-the-Dark Keypad
• Triple-Layered Chassis for Chassis Stability

• PureCinema Progressive Scan (2-3 Pulldown)
• 54MHz/10bit Video DAC for High-Quality DVD Pictures (Analog Devices)
• Super-Fine Focus Filter with 4:4:4 Video Up-Sampling (Progressive Only)
• Video Parameter Adjustments w/ 3 User Memories, Fine Focus, Contrast, Sharpness, Brightness PureCinema (On, Off, Auto), Hue, Chroma Level
• Parallel S-Video / Composite Outputs

• Pioneer Exclusive Viterbi Error Correction with Accurate Digital Servo for Superior Reading Accuracy
• Still Step Play Forward and Reverse
• Slow Motion Playback
• DVD Audio Playback
• SACD Multi-Channel Playback (1 bit)
• MP3 Playback Capability

• Twin-Wave Laser Pickup for: CD / Video CD / CD-R / CD-RW / DVD-R / DVD-RW Playback (Recorded in Video Mode)
• Triple 192kHz/24-bit (3x2) Audio DAC's for Superb Sound Quality (Burr Brown)
• Dolby® Digital and dts Digital Outputs
• Dolby® Digital and dts Decoders
• Video Off
• Bass Management

• A/V Decoder - VQE4
• High Bit Legato Link D/A Conversion
• 96kHz 24-Bit D/A Converter
• Virtual Dolby Digital
• Gold Plated Jack Pack
• Trick Play Processor

• RS232 Interface for PC/ Escient
• Keyboard and Mouse Title Input with PS/2 Connection
• Up to 600 Disc Control with Second Unit
• GUI with Advanced Disc Management and Search System

• Search Function by Key Word - Disc #, Disc Type, Title Name, and Artist Name
• 10 Audio and 10 Video Custom Files
• Auto Update
• CD / DVD Text
• Jog & Joy Stick Remote Control with Fluorescent Keys and 2 Color LED

PURECINEMA PROGRESSIVE SCAN

Pioneer PureCinema's advanced circuitry achieves high conversion accuracy by re-creating the original frames of a film and displaying them in a 3-2 order (called 3-2 pulldown), matching the output to NTSC television standards. This creates natural, film-like images that are smooth and virtually free of bothersome artifacts on moving objects. (DV-59AVi, DV-47Ai, DV-45A, and DV-F07)

DVD-AUDIO AND SACD

DVD-Audio (DVD-A) and Super Audio CD (SACD) represent the future of audio on disc: high-density, high-resolution music that is miles ahead of CD. The music is bigger, more detailed, and more open, and you will definitely hear the difference. (DV-59AVi, DV-47Ai, DV-45A)

Here are the key advantages of DVD-Audio and SACD:

• More data.   They're encoded differently, but discs of both formats can hold a huge amount of data, far more than an Audio CD. DVD-As can hold 4.7GB of data, and SACDs about 4.0GB. Rather than use all this digital real estate just to add more CD-quality songs, it's being used for…..

• Better music.   This is the key. With all that data capacity, music can be formatted into two channels (stereo) at a 192kHz, 24-bit rate, which may be the highest level of quality you will hear in your lifetime. Or into six channels at a 96kHz, 24-bit rate, creating a full-octane, 5.1 surround field that swirls around you.

• Digital Progressive Scan Output
• Progressive Digital Noise Reduction
• Interlaced Video Noise Reduction
• Digital Gamma Control
• Digital Sharpness Adjustment
• Digital Chroma Delay
• CD Mode for Full CD Changer Functions and Video Off

• High Speed Loading and Playback Resume
• 10-bit Video Signal DAC 96KHz/24-bit Audio DAC
• Hi-Bit Legato Link Conversion
• Dual User Memories
• Twin-Wave Laser Pickup for CD / Video CD / CD-R Playback
• Viterbi Error Correction for Superior Reading Accuracy

• Double Layered Chassis
• Dolby® Digital and dts® Digital Outputs
• Component Video Output
• Remote Control with TV Presets and Glow-in-the-Dark Keys
• Setup Navigator for First Time Setup
• Advanced GUI with Non-Stop Operation, Basic/Expert Mode

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