

JVC[®]

The Perfect Experience / —

HI-FI
COMPONENTS
2004



We Bring the Music to You

Michael Brecker
at the 2003 JVC International Jazz Festival





Quintessence

Quintessence means "The pure, highly concentrated essence of a thing." A sophisticated A/V receiver is the core of a modern home theater system. With JVC, A/V receivers represent the pure, highly condensed state of the art. They are designed to bring the thrills and excitement of the theater to the home, but they are created with equal obsession for pure, emotional enjoyment of music. A case in point is the RX-DP20VBK, JVC's flagship A/V receiver. It's one of the exceptional components on the market that do justice to both music and movies.





K2
TECHNOLOGY

K2 Processing—an inspired technology behind JVC's original CC Converter. Delivering superb quality of pure audio from every source, stereo or multi-channel.

K2 Processing is the result of a close collaboration among JVC studio engineers, producers and hardware engineers, embodying the elaborate algorithms for a sound quality that is close to the master by professional standards. The CC Converter is an application it uses to improve the sound quality of not only pure audio sources but also compressed files, such as DTS, Dolby Digital and MP3. The CC Converter lets you experience a sound that is truer to the original master than ever.

K2 Processing and the CC Converter improve the sound quality of uncompressed hi-fi sources, compressed stereo or multi-channel sources, and compressed multi-channel soundtracks of today and the future.



CC
CONVERTER

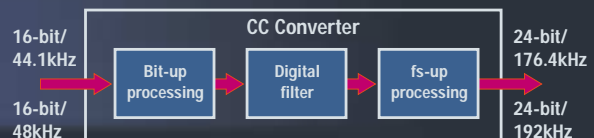
CC Converter (Compression Compensative Converter)

When an analog signal is converted into digital (A/D conversion), high frequencies—normally those higher than 20kHz with CDs—are removed as dictated by the CD's sampling frequency. Absence of this high-frequency data affects the quality of sound in the audible range.

The CC Converter features exclusive algorithms to restore lost signals based on the recorded digital signals of audible frequencies, those frequencies that should have been recorded in the first place. It also uses high-bit quantization to reproduce minute signals. Moreover, in order to precisely reproduce the signals that have undergone such processing, the CC Converter features a broader analog bandwidth (up to 4 times the sampling frequency) extending beyond 20kHz. This improves the quality of the music data in the audible range.

Through high-bit/high-sampling processing, the CC Converter generates expanded digital signals with a quality close to that of the original master.

The algorithms of the CC Converter have been verified for their musical legitimacy by studio engineers and musicians through repeated auditions. Because the number of digital sound sources has been growing fast, the CC Converter has proved to be a much-sought-after solution for the faithful recreation of original sound. It also works with compressed data, such as AC-3 and DTS formats.



R X - D P 2 0 V B K / D P 1 5

Audio/Video Control Receiver

Elaborate mechanical construction and designs—customized for next-generation digital sources

Zero interference construction concept ensures high sound quality

DVD-Audio is an extraordinary next-generation audio format, with frequency response topping 96kHz and dynamic range more than 140dB. The RX-DP20VBK and RX-DP15 feature basic specifications that are fully compatible with DVD-Audio's high specs, whether the source is stereo or multi-channel.

Functionally separate block construction

Circuit blocks—a power supply, power amp, low-level audio section, video section and so forth—are laid out separately according to function, with the

strategic addition of shields and sub-brackets. This elaborate construction not only minimizes the interference between blocks but also increases structural rigidity.

Triple transformers for analog, digital and video circuitry

Inside the RX-DP20VBK and RX-DP15 there are three blocks of circuitry—one each for analog signals, digital signals and video signals: Each block has its own separate power supply, complete with a transformer. They are anchored to a thick ($\frac{1}{16}$ inch), isolated base. This sophisticated design prevents digital and video noise from mixing with the delicate audio signals. Result: better sound quality.

Independent direct power supplies for output power transistors

The power supply for the analog circuitry features separate coil windings for the positive and negative voltages, while the power to output power transistors is supplied directly from channel-independent rectifier circuits. This advanced power supply design reduces interference between channels and also between the positive and negative voltages, to improve channel separation and sound purity.



Copper-plated chassis

The rear panel, brackets and bottom plate are copper-plated to prevent interference between mounted circuits, reduce chassis impedance, and stabilize the potentials of voltages of low to high frequencies. (RX-DP20VBK)

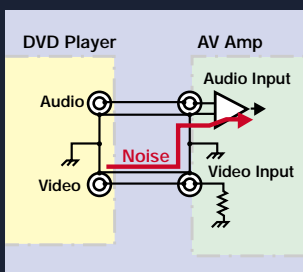


ZIST (Zero Interference Audio Signal Transmission) Circuit

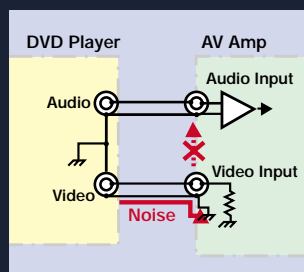
When video equipment is connected with an A/V receiver, the video noise generated in the former can pass to the latter

through the video input terminal and interfere with audio signals. This results in degradation of audio signals. The JVC-developed

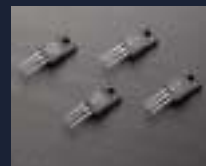
ZIST circuit electrically insulates the audio input terminals (EXT 7.1-channel Input) from video noise. Advantages include exceptionally pure and clean sound. (RX-DP20VBK)



Without ZIST Circuit



With ZIST Circuit



High-Speed Rectifier Diodes



Banana-Plug Speaker Terminals

Realistic home theater experience enhanced with natural DSP simulations

Texas Instruments Aureus™ chip

(TMS320DA610)

At the heart of the RX-DP20VBK/DP15's DSP is a new high-performance Texas Instruments Aureus™ chip. Currently, it's the world's fastest, highest-performing chip of its kind, replacing two conventional DSP chips. The JVC RX-DP20VBK and RX-DP15 are the world's first to feature this LSI.

Clocking at 1,800MIPS* or 1,200MFLOPS** (at 225MHz clock speed), this chip boasts one of the highest processing power ratings on the market. It features 32/64-bit double precision accurate operations, and the formats it decodes include THX Surround EX/Ultra2, Dolby Digital, Dolby Digital EX, Pro Logic II, DTS, DTS-ES, DTS 96/24 and NEO.6.

Plus, it handles DAP (Digital Acoustics Processing), 3D-PHONIC, 3D Headphone, DSP Digital Equalizer, Dynamic Range Control, and Bass Management.

Its floating-point operations allow for more accurate calculations with an expanded range of numbers. Finally, the chip's compact size is conducive to reduction in digital noise.



DAP Modes (RX-DP20VBK/RX-DP15)

Mode	Signal	DTS		Dolby Digital		Linear	Analog
		5.1ch	2ch	5.1ch	2ch	PCM	
Multi-Channel DAP	Large Theater	●*	-	●*	-	-	-
	Small Theater	●*	-	●*	-	-	-
	Large Hall 1	●*	-	●*	-	-	-
	Large Hall 2	●*	-	●*	-	-	-
	Recital Hall	●*	-	●*	-	-	-
	Opera House	●*	-	●*	-	-	-
	Church	●*	-	●*	-	-	-
	Live Club	●*	-	●*	-	-	-
	Dance Club	●*	-	●*	-	-	-
	Pavilion	●*	-	●*	-	-	-
Pro Logic + DAP	Large Theater	-	●*	-	●*	●	●
	Small Theater	-	●*	-	●*	●	●
	Stereo Film	-	●*	-	●*	●	●
	Mono Film	-	●*	-	●*	●	●
	Large Hall 1	-	●*	-	●*	●	●
	Large Hall 2	-	●*	-	●*	●	●
	Recital Hall	-	●*	-	●*	●	●
	Opera House	-	●*	-	●*	●	●
	Church	-	●*	-	●*	●	●
	Live Club	-	●*	-	●*	●	●
Headphone DAP	Large Theater	●	●	●	●	●	●
	Small Theater	●	●	●	●	●	●
	Stereo Film	●	●	●	●	●	●
	Mono Film	●	●	●	●	●	●
	Large Hall 1	●	●	●	●	●	●
	Large Hall 2	●	●	●	●	●	●
	Recital Hall	●	●	●	●	●	●
	Opera House	●	●	●	●	●	●
	Church	●	●	●	●	●	●
	Live Club	●	●	●	●	●	●
3D Headphone	●	●	●	●	●	●	
3D-PHONIC	●	●	●	●	●	●	
All Ch. Stereo	-	●	-	●	●	●	

*When the SURR. BACK SPK. setting is "On", the DAP performs 7-channel processing, outputting reverberation components to Surround Back channels.

Virtual Sound Source Distribution Patterns



DANCE CLUB



THEATER 2

Mode	For Recreation of Spatial Feel of:
Large Theater	Large movie theater
Small Theater	Small movie theater
Large Hall 1	Large shoebox-shaped hall designed primarily for classical concerts
Large Hall 2	Large vineyard-shaped hall designed primarily for classical concerts
Recital Hall	Small hall designed primarily for classical recitals
Opera House	Opera house with a high ceiling and multi-level seating layout
Church	Majestic church with a high ceiling
Dance Club	Rocking dance club
Live Club	Live music club with a low ceiling
Pavilion	Exhibition hall with a high ceiling
Stereo Film	For surround-rich reproduction of movies with stereo soundtracks
Mono Film	For 3D-like reproduction of classic movies with mono soundtracks

Convenient features for comfortable operation

High-performance video converter

A high-performance video converter is built-in: it's capable of converting any video format—including composite and S-video—into the component format and feeding the signal to the component video output. Therefore, high-quality video signals are supplied to the monitor using a component terminal, whether the source is a videotape or DVD. The RX-DP20VBK and RX-DP15 are equipped with three component inputs and one component output.

Audiophile features for better appreciation of music

Precision Downmix Converter

With the DVD MULTI or EXT. 7.1-channel, you can mix down multi-channel signals to stereo signals. The signals going to nonexisting channels—center, surround and subwoofer—are mixed with those going to the front channels. Downmix is performed in the analog domain, bypassing the DSP. Unlike digital downmix, this process does not use "scaling", therefore it does not involve reduction of bit rates; the frequency response remains as wide as the original.

* MIPS (Million Instructions per Second): A 1MIPS computer processes 1 million instructions per second. An "instruction" is a command sent out to a DSP to directly control and operate it.

** FLOPS (Floating Point Operations per Second): the number of floating-point calculations per second performed with real numbers.



The expanding world of multi-channel surround for movies and music—THX, Dolby and DTS.

Home THX

THX is a set of specifications and standards set forth by Lucasfilm Ltd., to guarantee that a piece of equipment is capable of allowing the audience to hear movie soundtracks just as the movie makers intended the soundtracks to be heard. Home THX is the version optimized for playback at home: it takes into consideration the spatial and acoustic differences between homes and theaters to compensate for them by digital processing. Moreover, to be Home THX certified, the equipment's amplifier must also perform in compliance with specified requirements. The RX-DP20VBK and RX-DP15 are THX Ultra2 certified, meaning it is up to the task of making you feel like sitting in a THX-equipped movie theater.

THX Ultra2

THX Ultra2 provides a specification for equipment using the latest Dolby Digital Surround-EX and DTS-ES 6.1 channel soundtracks, presenting a movie closely to the director's original cut when it's played at home. The RX-DP20VBK and RX-DP15 bear the THX Ultra2 logo, certifying that it satisfies the newest certification standards of Lucasfilm Ltd., governing performance, features, sound quality, power, stability for driving low-impedance speaker loads, and ease of operation.

THX Ultra2 offers THX Cinema and THX MusicModes that use seven channels of amplification for playback of multi-channel-encoded sources over a 7.1-channel layout.

In **Cinema mode**, THX Ultra2 converts Dolby

Surround Pro Logic matrix-encoded stereo and 5.1-channel soundtracks into 7.1-channel soundtracks.

In **MusicMode**, 2-channel audio programs are converted into 7.1-channel surround sound for a compelling multi-channel audio experience.

THX Surround EX

THX Surround EX is a format that has additional left and right Surround Back channels on the basis of Dolby Digital 5.1 channels. It enhances the sense of depth, provides the sense of smooth movement, and improves the definition of movement of sounds in rear channels—all to make you feel you are there. The RX-DP20VBK and RX-DP15 come complete with a 7-channel amplifier, making it unnecessary to add on more amps.



Dolby Digital EX

Dolby Digital EX is an extended specification for the Dolby Digital Multi-Channel Audio System. It adds an extra channel—a matrixed surround back channel—to the 5.1 discrete channels of Dolby Digital. The added channel is matrix-encoded into the left surround (LS) and right surround (RS) channels; on playback, the encoded signals are decoded into a separate surround back (SB) channel. Surround is now reproduced by three different signals to provide higher definition and a smoother sense of motion.



Dolby Pro Logic II

Dolby Pro Logic II gives you full-range multi-channel surround sound—front left, front center, front right, left surround and right surround, plus a subwoofer—from any stereo source. Using a greatly improved steering logic, it allows high channel separation and an exceptionally stable sound field. Two modes are available: **Movie mode**, optimized for movies and programs with Dolby Surround soundtracks, and **Music mode** for creating a rich and enveloping surround ambience from stereo sources such as CDs.



Dolby Pro Logic IIx

The RX-8040 is one of the first receivers in the world to come with Dolby Pro Logic IIx. This latest technology from Dolby Laboratories, Inc. offers the choice of processing any stereo or 5.1-channel source into 6.1-channel or 7.1-channel surround sound—5.1-channel surround plus one or two surround back channels—to provide a seamless, enveloping sound experience. Using advanced steering logic, it allows high channel separation and an exceptionally stable sound field. Two modes are available: **Movie mode**, optimized for movies and programs with Dolby Surround soundtracks, and **Music mode** for creating a rich and enveloping surround ambience from stereo sources such as CDs.



DTS-ES

DTS-ES was developed by Digital Theater Systems, Inc. in 1999 for movie theaters. Upward compatible with the conventional DTS Digital Surround format, it significantly improves 360-degree localization and spatial expression utilizing surround signals that have been further extended.

• DTS-ES Discrete 6.1

All 6.1 channels, including the newly added SB (Surround Back) channel, are digital, discrete and separate. Because each channel is completely independent, the sense of direction and definition in surround sound is accurately expressed.

• DTS-ES Matrix 6.1

In the Matrix 6.1 format, the added surround back (SB) channel is matrix-encoded into the left surround (LS) and right surround (RS) channels. On playback, the encoded signals are decoded into

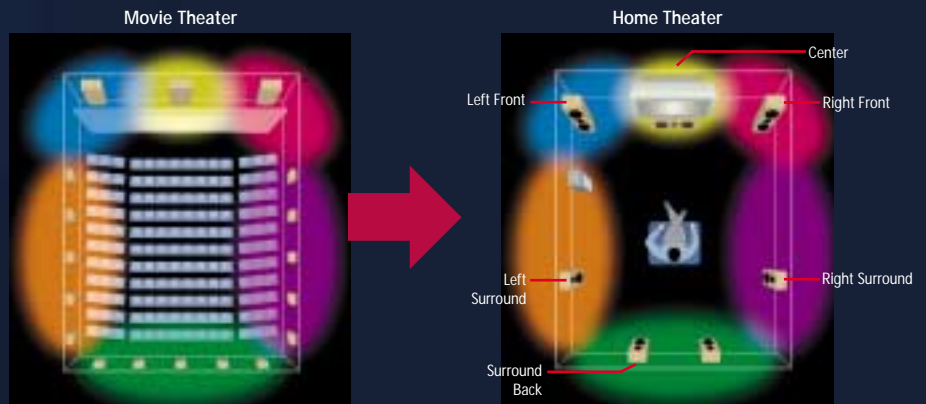
separate LS, RS and SB channels. This allows a surround sound that is close to what the sound producers intended.

DTS Neo:6

DTS Neo:6 Surround provides 6.1-channel surround from conventional stereo sources. All channels are full-range, with 20-20kHz frequency response, and separation is almost discrete. You can choose DTS Neo:6 Cinema or DTS Neo:6 Music according to the program you are playing.

DTS 96/24

DTS 96/24 allows encoding 5.1 channel soundtracks at a rate of 96 kHz/24 bits on DVD-Video. So it can deliver 5.1 channels in 96/24 along with full-motion video for feature film soundtracks and music programs on DVD-Video (and DVD-Audio for sound only).



Rear Panel

R X - D P 2 0 V B K

Audio/Video Control Receiver



THX SURROUND EX



AV COMPU LINK



TEXT COMPU LINK



- **Stereo:** 120 watts per channel, 8 ohms, 20Hz to 20kHz, with 0.02% THD; 120 watts per channel, 4 ohms, 20Hz to 20kHz, with 0.07% THD;
- **Surround: (Front)** 120 watts per channel, 8 or 4 ohms, 20Hz to 20kHz, 0.02% (8 ohms) or 0.07% (4 ohms) THD; **(Center)** 120 watts, 8 ohms, 20Hz to 20kHz, 0.02% THD; **(Surround)** 120 watts per channel, 8 ohms, 20Hz to 20kHz, 0.02% THD; **(Surround Back)** 120 watts per channel, 8 ohms, 20Hz to 20kHz, 0.02% THD • CC Converter (7.1 Channels)
- THX Ultra2 (Cinema/Music)/THX Surround EX • Texas Instruments 32/64-bit Floating-Point DSP • Dolby Digital EX/Dolby Digital/DTS/DTS-ES (Discrete6.1/Matrix6.1/NEO:6) Decoders Built-in • DTS 96/24 • Dolby Pro Logic II • Multi-Room/Multi-Source Capability • External 7.1-Channel Inputs • Low-Noise ZIST (Zero Interference Audio Signal Transmission) Circuit • DVD Multi-Channel Audio Compatible (5.1-Channel Inputs) • DAP for Multi-Channel Digital Sources • Video Converter • Precision Downmix Converter • P.E.M. D.D. Converter (192kHz/24-bit, 7.1 Channels)

Audio

- DAP for 2-Channel Sources • 3D-PHONIC • 3D Headphone • Ultra-High Current Dynamic Super-A Power Amps • MM/MC Phono Equalizer
- Front-Channel Bi-Amplification • High-Rigidity Z-Chassis • Copper-Plated Chassis • DSP Digital Parametric Equalizer • Analog Direct

- Midnight Mode • 4-ohm Speaker Drive Capability (Front Channels)

General

- RF Multi-Brand A/V-DBS-CATV LCD Learning Remote Control with Backlight Illumination • On-Screen Display (Component Video Compatible)
- Dot-Matrix Fluorescent Display with Dimmer • One-Touch Operation
- TEXT COMPU LINK • Enhanced COMPU LINK Control System
- AV COMPU LINK

Inputs/Outputs

- Audio Analog: 10 Inputs* and 4 outputs* • Audio Digital: 4 Optical Inputs, 1 Optical Output and 3 Coaxial Inputs (Assignable) • Video (Component): 3 Inputs* and 1 Output* • Video (S-Video): 5 Inputs* and 3 Outputs* • Video (Composite): 5 Inputs* and 3 Outputs* • Front, Center, Surround, Surround Back, Subwoofer and Zone2 (Front Ch) Preouts
- Large Banana-Plug Speaker Terminals: Front L/R 1, Front L/R 2 (Zone2), Center, Surround L/R, Surround Back L/R

Tuner

- 15 AM and 30 FM Preset Stations

* Gold-Plated



With the motor-driven sliding door on the front panel fully opened

"Dolby", "Pro Logic", "Surround EX" and the double-D symbol are trademarks of Dolby Laboratories. "DTS", "DTS-ES", "Neo:6" and "DTS 96/24" are trademarks of Digital Theater Systems, Inc. is a trademark of Victor Company of Japan, Ltd. (JVC)

R X - D P 1 5

Audio/Video Control Receiver



THX SURROUND EX



AV COMPU LINK



- Stereo: 120 watts per channel, 8 ohms, 20Hz to 20kHz, with 0.02% THD; 120 watts per channel, 4 ohms, 20Hz to 20kHz, with 0.07% THD;
- Surround: (Front) 120 watts per channel, 8 or 4 ohms, 20Hz to 20kHz, 0.02% (8 ohms) or 0.07% (4 ohms) THD; (Center) 120 watts, 8 ohms, 20Hz to 20kHz, 0.02% THD; (Surround) 120 watts per channel, 8 ohms, 20Hz to 20kHz, 0.02% THD; (Surround Back) 120 watts per channel, 8 ohms, 20Hz to 20kHz, 0.02% THD • CC Converter (7.1 Channels)
- THX Ultra2 (Cinema/Music)/THX Surround EX • Texas Instruments 32/64-bit Floating-Point DSP • Dolby Digital EX/Dolby Digital/DTS/DTS-ES (Discrete6.1/Matrix6.1)/DTS NEO:6/DTS 96/24/Dolby Pro Logic II Decoders Built-in • Multi-Room/Multi-Source Capability • External 7.1-Channel Inputs • DVD Multi-Channel Audio Compatible (5.1-Channel Inputs)
- DAP for Multi-Channel Digital Sources • Video Converter • Precision Downmix Converter • P.E.M. D.D. Converter (192kHz/24-bit, 7.1 Channels)

Audio

- DAP for 2-Channel Sources • 3D-PHONIC • 3D Headphone • Ultra-High Current Dynamic Super-A Power Amps • MM Phono Equalizer • Front-Channel Bi-Amplification • High-Rigidity Z-Chassis • DSP Digital Parametric Equalizer • Analog Direct • Midnight Mode • 4-ohm Speaker Drive Capability (Front Channels)

General

- RF Multi-Brand A/V-DBS-CATV LCD Learning Remote Control with Backlight Illumination • On-Screen Display (Component Video Compatible)
- Dot-Matrix Fluorescent Display with Dimmer • One-Touch Operation
- TEXT COMPU LINK • Enhanced COMPU LINK Control System
- AV COMPU LINK

Inputs/Outputs

- Audio Analog: 10 Inputs* and 4 Outputs* • Audio Digital: 4 Optical Inputs, 1 Optical Output and 3 Coaxial Inputs (Assignable) • Video (Component): 3 Inputs* and 1 Output* • Video (S-Video): 5 Inputs* and 3 Outputs* • Video (Composite): 5 Inputs* and 3 Outputs* • Front, Center, Surround, Surround Back, Subwoofer and Zone2 (Front ch) Preouts
- Large Banana-Plug Speaker Terminals: Front L/R 1, Front L/R 2 (Zone2), Center, Surround L/R, Surround Back L/R

Tuner

- 15 AM and 30 FM Preset Stations

* Gold-Plated



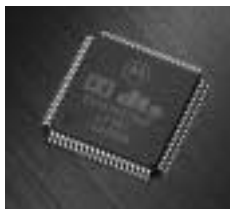
With the motor-driven sliding door on the front panel fully opened

*THX and "THX Ultra2" are registered trademarks of THX Ltd.

Sophisticated digital circuitry for high performance

New High-performance DSP

A high-performance DSP, the advanced Motorola DSP56370, is used for a wide range



of JVC receivers. The new DSP is compatible with many of today's home cinema sound formats, including Dolby Digital EX, DTS 96/24, and DTS NEO:6. It also features upgraded sound field processing power, which enables control of JVC-exclusive DAP, digital EQ, Midnight mode, and other functions. (RX-7042/RX-7040/RX-6042/RX-6040)

Built-in Dolby Digital/DTS decoders

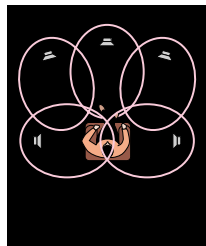
JVC receivers are capable of Dolby Digital and DTS 5.1-channel sound. With five full-range channels and a subwoofer channel, these theater sound systems let you enjoy the most spectacular theater sound at home when you view movies on DVD.

Advanced Digital Acoustics Processor (DAP)

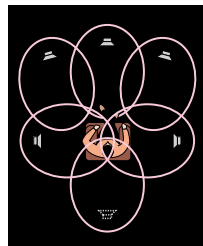
The JVC DAP allows digital recreation of acoustic environments—halls, pavilions, etc.—in your media room. JVC developed a new sound field simulation technology jointly with one of leading concert-hall designers and contractors. Capable of handling multi-channel sources, it makes use of a vast amount of data for the creation of sound field patterns that are difficult with conventional processing systems based on field-measured impulse responses. Each sound field pattern is verified and modified repeatedly by critical auditions. The result is sound fields reproduced most naturally, with early reflections simulated realistically. Moreover, the processor is compatible with multi-channel sources such as Dolby Digital and DTS.

Virtual Surround Back

In case your home theater is a 5.1-channel setup, Virtual Surround Back lets you upgrade to 6.1-channel surround without adding any more speakers. When the source you play comes with 6.1-channel surround (Dolby Digital EX or DTS ES), information in the Surround Back channel is distributed to Surround Left and Surround Right channels. Sound effects can be placed right behind you to put you in the middle of the action. (RX-8040/RX-7042/RX-7040/RX-6042/RX-6040)

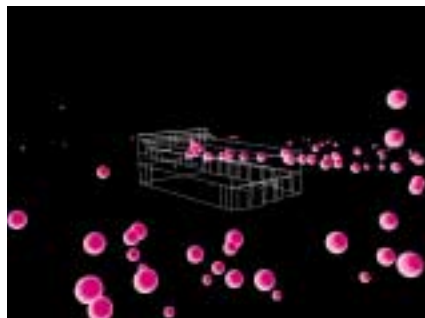


5.1-Channel Surround



Virtual Surround Back

Virtual Sound Source Distribution Patterns



DANCE CLUB



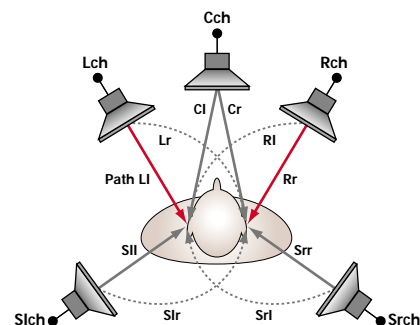
THEATER 2

Mode	For Recreation of Spatial Feel of:
Large Theater	Large movie theater
Small Theater	Small movie theater
Large Hall 1	Large shoebox-shaped hall designed primarily for classical concerts
Large Hall 2	Large vineyard-shaped hall designed primarily for classical concerts
Recital Hall	Small hall designed primarily for classical recitals
Opera House	Opera house with a high ceiling and multi-level seating layout
Church	Majestic church with a high ceiling
Dance Club	Rocking dance club
Live Club	Live music club with a low ceiling
Pavilion	Exhibition hall with a high ceiling
Stereo Film	For surround-rich reproduction of movies with stereo soundtracks
Mono Film	For 3D-like reproduction of classic movies with mono soundtracks

(The RX-DP20VBK and RX-DP15 provide all these modes.)

"3D Headphone"

JVC's "3D Headphone" feature is compatible with multi-channel sources like Dolby Digital and DTS. Thanks to the new signal processing algorithms used by the high-performance DSP, you enjoy natural, unfatiguing surround sound over the headphones for hours.



JVC P.E.M. D.D. Audio D/A Converter



The JVC-exclusive P.E.M. D.D. Converter is a high-performance 1-bit DAC, for two reasons. First, the VANS (JVC Advanced Noise Shaper) features the highest order of noise shaping (4th order), allowing the use of a simple low-pass filter to combine superior frequency and phase response. Second, a pair of P.E.M. DACs improve resolution four-fold, ensuring a high signal-to-noise ratio. The JVC P.E.M. D.D. Converter lets you enjoy music thoroughly, even at the quietest levels.

The RX-DP20VBK and RX-DP15 feature a P.E.M. D.D. Audio D/A Converter for multi channels, while the RX-8040, RX-7042 and RX-7040 come with the same one for front channels. With all these receivers, moreover, the P.E.M. DAC handles the bit-expanded and bandwidth-extended format of the CC Converter.

Circuit designs, devices and parts for the best sound

Advanced engineering and high quality parts

- **Discrete configuration:** All power amps of each receiver are built from discrete components for high sound quality from stereo and multi-channel sources.

- **High-rigidity Z-Chassis:** Zero vibration, zero resonance and zero interference for the highest fidelity. (RX-DP20VBK/RX-DP15)

- **Separate power supply for digital circuitry:** The digital circuitry and power supply are separate from the analog circuitry, from input to output, so that digital noise does not interfere with the analog circuitry. (RX-DP20VBK/RX-DP15)

- **Oversized EI-core power transformer:** (RX-DP20VBK/RX-DP15/RX-8040/RX-7042/RX-7040)

- **High-power bipolar output transistors:** Low-impedance driving is combined with high power. Arranged in a single push-pull configuration, select bipolar transistors feature clarity, low distortion and wide dynamics.

- **High-speed rectifier diodes:** Noise radiation is dramatically reduced that might seriously affect sound quality.

- **Banana-plug speaker terminals:** Low-distortion signal transmission is possible even during high-level reproduction. (RX-DP20VBK/RX-DP15/RX-8040/RX-7042/RX-7040)



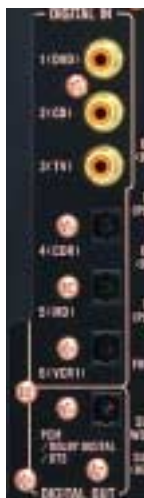
High-Speed Rectifier Diodes



Banana-Plug Speaker Terminals

Digital inputs with assignable function

JVC receivers are designed to accept and control a number of digital inputs—three coaxial and four optical sources with the RX-DP20VBK and RX-DP15, for instance. Conveniently, you can assign these inputs to any digital source, including TV/DBS, CD, CDR, MD and DVD. JVC receivers also feature an optical digital output for direct digital-to-digital dubbing.



Easy-to-use features and conveniences

Quick Speaker Setup

This is an “unpack and play” convenience. To set up your home theater properly, just input the number of speakers you use and the size of your listening/viewing room—that’s all. You can skip the elaborate steps you normally have to follow before the show starts for the first time. Anytime later, you can adjust settings to your personal taste. (RX-8040/RX-7042/RX-7040/RX-6042/RX-6040)

Multi-brand AV/DBS/cable remote control

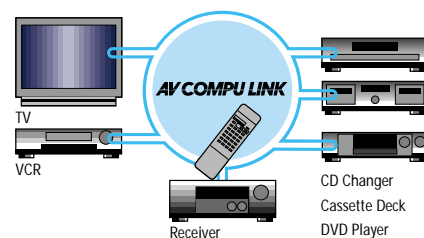
The remote control for our receivers operates not only the unit itself, but also JVC CD players, DVD players, CD-R recorders, cassette decks and JVC video. Moreover, the JVC remotes are multi-brand types, giving access to functions of other makers’ audio and video equipment, including TVs, VCRs, cable/DBS set-top boxes and DVD players. All it takes is the touch of a button to recall preprogrammed codes for controlling video equipment from other makers. An LCD display (RX-DP20VBK/RX-DP15/RX-8040) simplifies your audio and video operation. The RX-DP20VBK/DP15’s remote is the most convenient of all: it is programmable to learn functions and features backlight illumination.



Midnight mode

When you watch movies late at night, you are forced to turn down the soundtrack volume level not to disturb your family and neighbors. This reduces impact and the sense of reality and makes dialog hard to hear. In Midnight mode, dynamic compression makes dialog clearly audible over sound effects, making it more exciting and enjoyable to watch movies.

One Touch Operation and AV COMPU LINK



One Touch Operation (RX-DP20VBK/RX-DP15/RX-8040/RX-7042/RX-7040) means you can make precise sound adjustments—volume level, equalizer response, etc.—source by source, and automatically

recall the customized settings each time you choose an input or tune a preset station. A convenience common to all JVC receivers, the AV COMPU LINK Control System gets your entire audio/video system—TV, VCR and receiver—up and playing, simply by loading a prerecorded tape into your VCR. It works for DVD playback too: just load a disc into a JVC DVD player and press the PLAY button to make your system ready.

Enhanced COMPU LINK Control System

The Enhanced COMPU LINK Control System lets JVC receivers and other JVC audio components work together even more seamlessly. For instance, when you touch the PLAY button on a JVC CD player or cassette deck (or on the remote control), the source and the receiver are automatically turned on, the input is set for the chosen source on the receiver, and play begins.

* Interactive operation between receivers and sources is available only with models featuring the Enhanced COMPU LINK Control System.

3-band parametric equalization (Front/Center/Surround/Surround Back)

Digital 3-band parametric equalization lets you customize the sound response of audio and video sources to your taste, channel by individual channel. Versatility is high because you can choose the center frequency of each band, as well as the boost or cut level. For even higher versatility, you can create, store and apply a customized EQ, source by source—one for TV, one for CD, one for DVD, and so on. (RX-DP20VBK/RX-DP15)

5-band digital equalization (Front 2ch)

Five-band digital equalization lets you customize the sound response of audio and video sources to your taste. For even higher versatility, you can create, store and apply a customized EQ, source by source—one for TV, one for CD, one for DVD and so forth. (RX-8040/RX-7042/RX-7040/RX-6042/RX-6040)

DVD multi-channel audio ready with 6-channel analog input

The 6-channel analog input accepts the analog output from a DVD-Audio source; or from a Dolby Digital or DTS decoder. JVC receivers are capable of amplifying all channels—front left, front center, front right, left surround and right surround—except for the subwoofer channel.

Equal high power from all channels

JVC receivers feature equal high power for all channels to let you enjoy discrete 5.1-channel sound to the full. Indeed, equal high power allows high definition and dynamic sound quality whether you play music sources in stereo or movies with multi-channel soundtracks.



RX - 8040 Audio/Video Control Receiver



- **Stereo:** 130 watts per channel, 8 ohms, from 20Hz to 20kHz, with 0.08% THD; **Surround: (Front)** 130 watts per channel, 8 ohms at 1kHz, with 0.8% THD; **(Center)** 130 watts, 8 ohms at 1kHz, with 0.8% THD; **(Surround)** 130 watts per channel, 8 ohms at 1kHz, with 0.8% THD; **(Surround Back)** 130 watts, 8 ohms at 1kHz, with 0.8% THD • Texas Instruments 32/64-bit Floating-Point DSP • CC Converter (Front Channels)
- Multi-Room/Multi-Source with RF Remote • Dolby Digital EX/Dolby Digital/DTS/DTS-ES (Discrete6.1/ Matrix6.1)/DTS NEO:6/DTS 96/24/Dolby Pro Logic IIx Decoders Built-in • DVD Multi-Channel Audio Compatible (5.1-Channel Inputs) • Virtual Surround Back • 3D-PHONIC • 3D Headphone • New Quick Speaker Setup • DAP (Multi-Channel Digital Sources): THEATER 1/THEATER 2/HALL 1/HALL 2/DANCE CLUB/LIVE CLUB/PAVILION • DAP (2-Channel Sources): MONO FILM/THEATER 1/THEATER 2/HALL 1/HALL 2/DANCE CLUB/LIVE CLUB/PAVILION/ALL CH STEREO • DSP Digital Equalizer • P.E.M. D.D. Converter (Front Channels)

Audio

- Analog Direct • Midnight Mode • Bass Boost

General

- RF Multi-Brand A/V-DBS-CATV LCD Glow Remote Control • Dot-Matrix Fluorescent Display with Dimmer • One-Touch Operation • Enhanced COMPU LINK Control System • AV COMPU LINK

Inputs/Outputs

- Audio Analog: 9 Inputs and 4 Outputs • Audio Digital: 4 Optical Inputs, 1 Optical Output and 1 Coaxial Input (Assignable) • Video (Component): 2 Inputs and 1 Output • Video (S-Video): 5 Inputs and 3 Outputs • Video (Composite): 5 Inputs and 3 Outputs Front, Center, Surround, Surround Back and Subwoofer Preouts • Banana-Plug Speaker Terminals: Front L/R 1, Front L/R 2 (Zone 2), Center, Surround L/R, Surround Back x 2

Tuner

- 15 AM and 30 FM Preset Stations



DVD Recorder



DR-M10SUS

DVD-RAM/-RW/-R Video Recorder

- Playable Formats: DVD-Video, DVD-RAM, DVD-RW, DVD-R, CD, SVCD, VCD, CD-R/RW, MP3/JPEG Digital Still (CD-R/RW) • Recordable Formats: DVD-RAM, DVD-RW (VR and Video Formats), DVD-R • Motion Active Progressive Scan Output (for Video Source) • Digital Direct Progressive Scan Output (for Film Source) • Super MPEG Encode Pre-Processor: Time Base Corrector, Frame Synchronizer and Motion Active Noise Reduction • Super MPEG Post-Processor: Block Noise Reduction Circuit, Color DigiPure and Hadamard Noise Reduction System • 8-Hour DVD Recording
- Library Database DVD Navigation • DVD Navigation with Animated Thumbnail

- (DVD-RAM/DVD-RW VR Format) • On-Disc Timer Programming (DVD-RAM/ DVD-RW VR Format) • Live Memory (Simultaneous Recording & Playback) (DVD-RAM) • Instant Replay, Quick Skip, Live Check • i.LINK Connection (DV Input) • "Undo Finalization" Capability (DVD-RW) • MTS Decoder • Linear PCM Audio Recording (XP Mode Only) • 192kHz/24-bit Audio D/A Converter • 10-bit/54MHz Video D/A Converter • VCR+C3 • Auto Tuner Preset • High-Resolution GUI





RX-7040

R X - 7 0 4 0 / 7 0 4 2

Audio/Video Control Receiver



- **Stereo:** 130 watts per channel, 8 ohms, from 20Hz to 20kHz, with 0.08% THD; **Surround: (Front)** 130 watts per channel, 8 ohms at 1kHz, with 0.8% THD; **(Center)** 130 watts, 8 ohms at 1kHz, with 0.8% THD; **(Surround)** 130 watts per channel, 8 ohms at 1kHz, with 0.8% THD; **(Surround Back)** 130 watts, 8 ohms at 1kHz, with 0.8% THD • High-Performance Motorola 160-MIPS 24/48-bit DSP • CC Converter (Front Channels) • Dolby Digital EX/Dolby Digital/DTS/DTS-ES (Discrete6.1/Matrix6.1)/DTS NEO:6/DTS 96/24/Dolby Pro Logic II Decoders Built-in • DVD Multi-Channel Audio Compatible (5.1-Channel Inputs) • Virtual Surround Back • 3D-PHONIC • 3D Headphone • New Quick Speaker Setup • DAP (Multi-Channel Digital Sources): THEATER 1/THEATER 2/HALL 1/HALL 2/DANCE CLUB/LIVE CLUB/PAVILION • DAP (2-Channel Sources): MONO FILM/THEATER 1/THEATER 2/HALL 1/HALL 2/DANCE CLUB/LIVE CLUB/PAVILION/ALL CH STEREO • DSP Digital Equalizer • P.E.M. D.D. Converter (Front Channels)

Audio

- Analog Direct • Midnight Mode • Bass Boost

General

- Dot-Matrix Fluorescent Display with Dimmer • One-Touch Operation • Enhanced COMPU LINK Control System • AV COMPU LINK • Multi-Brand A/V-DBS-CATV Glow Remote Control

Inputs/Outputs

- Audio Analog: 5 Inputs and 2 Outputs • Audio Digital: 3 Optical Inputs, 1 Optical Output and 1 Coaxial Input (Assignable) • Video (Component): 2 Inputs and 1 Output • Video (Composite): 3 Inputs and 2 Outputs • Video (S-Video): 3 Inputs and 2 Outputs • Subwoofer Preout • Banana-Plug Speaker Terminals: Front L/R 1, Front L/R 2 (Screw-Type), Center, Surround L/R, Surround Back x 2

Tuner

- 15 AM and 30 FM Preset Stations



RX-7042



DVD Players



XV-NP10

DVD Video Player

- Playable Formats: DVD-Video, DVD-RW (Video Format), DVD-R, CD, SVCD, VCD, CD-R/RW, WMA/MP3/JPEG Digital Still (CD-R/RW, Memory Cards), MPEG-4 (Advanced Simple Profile), DivX®, Memory Cards (SD, MMC, Memory Stick, Smart Media, Compact Flash, xD-Picture Card™ <XD>) • Digital Direct Progressive Scan Output • Direct Mounting/Readout of Data Stored on Memory Cards • High-Speed Display of Thumbnail Images • New 1-Chip AV Decoder and High-Speed DSP

- 192kHz/24-bit Audio D/A Converter • 10-bit/54MHz Video D/A Converter • Rolling Pickup • Express Play Start • VFP (Video Fine Processor): 7 Parameters with 2 Presets and 2 Manual Settings • High-Resolution GUI (Graphical User Interface) • Zoom Play (3 Steps) • Stylish, Slim Design





RX-6040

R X - 6 0 4 0 / 6 0 4 2 Audio/Video Control Receiver



- **Stereo:** 100 watts per channel, 8 ohms, from 40Hz to 20kHz, with 0.8% THD; **Surround: (Front)** 100 watts per channel, 8 ohms at 1kHz, with 0.8% THD; **(Center)** 100 watts, 8 ohms at 1kHz, with 0.8% THD; **(Surround)** 100 watts per channel, 8 ohms at 1kHz, with 0.8% THD
- High-Performance Motorola 160-MIPS 24/48-bit DSP • Dolby Digital/DTS/DTS 96/24/Dolby Pro Logic II Decoders Built-in • DVD Multi-Channel Audio Compatible (5.1-Channel Inputs) • Virtual Surround Back • 3D-PHONIC • 3D Headphone • New Quick Speaker Setup • DAP (Multi-Channel Digital Sources): THEATER 1/THEATER 2/HALL 1/HALL 2/DANCE CLUB/LIVE CLUB/PAVILION • DAP (2-Channel Sources): MONO FILM/THEATER 1/THEATER 2/HALL 1/HALL 2/DANCE CLUB/LIVE CLUB/PAVILION/ALL CH STEREO • DSP Digital Equalizer

Audio

- Midnight Mode • Bass Boost

General

- Fluorescent Display with Dimmer • Enhanced COMPU LINK Control

System • AV COMPU LINK • Multi-Brand A/V-DBS-CATV Remote Control Inputs/Outputs

- Audio Analog: 5 Inputs and 2 Outputs • Audio Digital: 2 Optical Inputs and 1 Coaxial Input (Assignable) • Video (Component): 2 Inputs and 1 Output • Video (S-Video): 2 Inputs and 2 Outputs • Video (Composite): 2 Inputs and 2 Outputs • Subwoofer Preout • Screw-type Speaker Terminals: Front L/R, Center, Surround L/R

Tuner

- 15 AM and 30 FM Preset Stations



RX-6042



XV-N512

XV-N512/510

DVD Audio/Video Player

- Playable Formats: DVD-Audio, DVD-Video, DVD-RAM, DVD-RW, DVD-R, CD, SVCD, VCD, CD-R/RW, WMA/MP3/JPEG Digital Still (CD-R/RW) • Digital Direct Progressive Scan Output • Adaptive Geometrical Chroma Mapping • Dolby Digital/DTS Digital Decoders Built-in • 192kHz/24-bit Audio D/A Converter • 12-bit/108MHz Video D/A Converter • DigiPure • Rolling Pickup • Express Play Start

- VFP (Video Fine Processor): 7 Parameters with 2 Presets and 2 Manual Settings
- High-Resolution GUI (Graphical User Interface) • Zoom Play (6 Steps)
- Stylish, Ultra-Slim Design—Only 1-3/4" (44mm) High



XV-N510





R X - F 1 0

Audio/Video Control Receiver



- **Stereo:** 100 watts per channel, 6 ohms, from 40Hz to 20kHz, with 0.8% THD; **Surround: (Front)** 100 watts per channel, 6 ohms at 1kHz, with 0.8% THD; **(Center)** 100 watts, 6 ohms at 1kHz, with 0.8% THD; **(Surround)** 100 watts per channel, 6 ohms at 1kHz, with 0.8% THD; **(Surround Back)** 100 watts per channel, 6 ohms at 1kHz, with 0.8% THD • Hybrid Feedback Digital Amp • High-Performance Motorola 160-MIPS DSP • Smart Surround Setup Version 2.0 • Dolby Digital EX/ Dolby Digital/DTS/DTS ES (Discrete6.1/Matrix6.1)/DTS NEO:6/DTS 96/24/ Dolby Pro Logic II Decoders Built-in • DVD Multi-Channel Audio Compatible (5.1-Channel Inputs) • Virtual Surround Back • 3D-PHONIC
- Audio Position • DAP (Multi-Channel Digital Sources): THEATER 1/ THEATER 2/HALL 1/HALL 2/DANCE CLUB/LIVE CLUB/PAVILION • DAP (2-Channel Sources): MONO FILM/THEATER 1/THEATER 2/HALL 1/HALL 2/ DANCE CLUB/LIVE CLUB/PAVILION/ALL CH STEREO • DSP Digital Equalizer
- 3D Headphone • Multi-Brand A/V-DBS Glow Remote Control with JVC DVD Control

Audio

- Headphone Output • Bass Boost

General

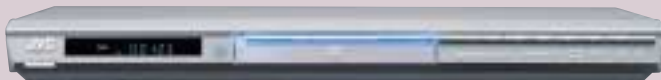
- Fluorescent Dot-Matrix Display with Dimmer • AV COMPU LINK

Inputs/Outputs

- Audio Analog: 4 Inputs and 3 Outputs • Audio Digital: 2 Optical Inputs and 1 Coaxial Input (Assignable) • Video (Component): 2 Inputs and 1 Output • Video (S-Video): 3 Inputs and 3 Outputs • Video (Composite): 3 Inputs and 3 Outputs • Screw-type Speaker Terminals: Front L/R, Surround L/R, Surround Back

Tuner

- 15 AM and 30 FM Preset Stations



XV-N412

XV-N412/410

DVD Video Player

- Playable Formats: DVD-Video, DVD-RW (Video Format), DVD-R, CD, SVCD, VCD, CD-R/RW, WMA/MP3/JPEG Digital Still (CD-R/RW) • Digital Direct Progressive Scan Output • Adaptive Geometrical Chroma Mapping • 192kHz/24-bit Audio D/A Converter • 12-bit/108MHz Video D/A Converter • DigiPure • Rolling Pickup • Express Play Start • VFP (Video Fine Processor): 7 Parameters with 2 Presets and 2 Manual Settings • High-Resolution GUI (Graphical User Interface) • Zoom Play (6 Steps) • Stylish, Ultra-Slim Design—Only 1-3/4" (44mm) High



XV-N410



XV-N312

XV-N312/310

DVD Video Player

- Playable Formats: DVD-Video, DVD-RW (Video Format), DVD-R, CD, SVCD, VCD, CD-R/RW, MP3/JPEG Digital Still (CD-R/RW), MPEG-4 (Simple Profile) • Digital Direct Progressive Scan Output • 192kHz/24-bit Audio D/A Converter • 10-bit/54MHz Video D/A Converter • Rolling Pickup • Express Play Start • VFP (Video Fine Processor): 7 Parameters with 2 Presets and 2 Manual Settings • High-Resolution GUI (Graphical User Interface) • Zoom Play (3 Steps) • Stylish, Ultra-Slim Design—Only 1-3/4" (44mm) High



XV-N310



CD Recorders



X L - R 5 0 2 0 B K
CD/CDR Multiple Compact Disc Recorder



MP3
PLAYBACK

- Playable formats: CD, CD-R/RW, MP3 (CD-R/RW) on 3-CD Changer
- 4x (CD-R)/2x (CD-RW) high-speed CD to CD-R/RW synchro-dubbing
- Synchro-Rec (Digital all tracks/Digital 1 track/Analog all tracks) • High-speed Finalize (CD-R: 4x, CD-RW: 2x) • Mix and record: CD with Line, Line with Mic, Mic with CD • Sampling rate converter (32kHz/48kHz)
- Programmable timer (Daily Play/Rec, Once Play/Rec)

3-CD Triple-Tray Changer • Play & Exchange System • 3-disc program/random play (Not available for MP3) • 3-disc continuous play • Pitch control ($\pm 12\%$) (Not available for MP3) • Tray lock
CD-R/RW Recorder • CD to CD-R/RW synchro-rec: One-touch rec (1 Disc/1 Track) and Edit rec (Listening/Program) • 2x Unfinalize • Rec level control (Analog In) • Fade in/out (rec) • 2x Erase (Last Single Track/Last Multiple Tracks/All Tracks)

General • Optical/coaxial digital input/output • Mic input • Enhanced COMPU LINK Control System



X L - R 2 0 1 0 B K
CD/CDR Multiple Compact Disc Recorder



• Playable formats: CD, CD-R/RW • 4x (CD-R)/2x (CD-RW) high-speed CD-to-CD-R/RW synchro dubbing

CD Player • Program/random play • Pitch control ($\pm 12\%$) • Tray lock
CD-R/RW Recorder • CD to CD-R/RW synchro-rec: One-touch rec (1 Disc/1 Track) and Edit Rec (Listening/Program) • Mix and record: CD with Line, Line with Mic, Mic with CD • Rec level control (analog input) • Fade in/out (rec) • 2x erase (Last Single Track/Last Multiple Tracks/All Tracks) • High-speed auto/manual finalize (CD-R: 4x, CD-RW: 2x) • Sampling rate converter (32kHz/48kHz) • Tray lock

General • Optical and coaxial digital input/output • Mic input • Enhanced COMPU LINK Control System



CD Changers



X L - M C 2 0 0 0 B K
200-Disc CD Changer



• All-in-one design—a rotary-type 200-CD changer in one chassis • Electric CD door with Disc Eject: you can eject the disc up front at a touch. • 1-bit D/A converter • 8x oversampling digital filter • Optical digital output • Play & Exchange System: You can manually change up to 25 of 200 discs without stopping play • Continuous and random play from 200 discs • Jog dial for disc and track selection • Program play of up to 32 "steps" (tracks and discs) from 200 discs • "CD Booklet File" included • Enhanced COMPU LINK Control System

CD-R/RW
PLAYBACK



XL - FZ 7 0 0 B K
7-Disc Carousel CD Changer

- Newly-developed 7-disc carousel changer with Play & Exchange System
- Playable formats: CD, CD-R/RW
- 1-bit dual D/A converter (P.E.M. D.D. Converter)
- 8x oversampling digital filter
- Optical digital output
- Program (32 tracks)/smart random play
- 18-track program chart
- 7 DISC keys and 10-key pad (on remote)
- Enhanced COMPU LINK Control System
- Remote control



XL - FZ 2 5 8 B K / 1 5 8 B K
5-Disc Carousel CD Changer

- Play & Exchange System: Change any of 4 discs while one more is being played
- 1-bit P.E.M. D.D. Converter
- Optical digital output
- 10-key pad for direct track access (XL-FZ258BK)
- 8x oversampling digital filter
- Remote control (XL-FZ258BK)
- Headphone output with volume control
- 5 DISC keys on the front panel
- Continuous play and smart random play
- 20-track program chart
- Program play of up to 32 "steps" (tracks and discs) from 5 discs
- 4-way repeat
- Auto/manual search
- Enhanced COMPU LINK Control System

Cassette Decks



T D - W 3 5 4 B K
Double-Mechanism Cassette Deck

- Twin auto-reverse transports
- COMPU CALIBRATION
- Full-logic control
- Pitch control (Deck A)
- Mic input with level control
- Multi Music Scan
- Continuous play of two tapes
- High-speed editing with synchro dubbing
- Dolby HX Pro (Deck B)
- Dolby B/C noise reduction
- Enhanced COMPU LINK Control System



T D - W 2 5 4 B K
Double-Mechanism Cassette Deck

- Twin auto-reverse transports
- Full-logic control
- Continuous play of two tapes
- High-speed editing with synchro dubbing
- Dolby HX Pro (Deck B)
- Dolby B/C noise reduction
- Enhanced COMPU LINK Control System

Audio Accessories



HA-W1000RF
900MHz Cordless Headphone System
with Built-in Paging/Call Function



HA-W300RF
900MHz Cordless Headphone System
with Built-in Paging/Call Function



HA-DX3
Digital Reference
Stereo Headphones



HA-DX1
Digital Reference
Stereo Headphones



HA-G770
Digital-Ready
Stereo Headphones



HA-G33
Digital-Ready
Stereo Headphones



HA-G11
Digital-Ready
Stereo Headphones



HA-G101
Stereo Headphones



HA-D350
Digital-Ready
Stereo Headphones



HA-CD60
Digital-Ready Lightweight
Stereo Headphones



HA-35
Lightweight
Stereo Headphones



MV-89
Dynamic Microphone



MV-79
Dynamic Microphone



MV-J3-BK
Dynamic Microphone

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

Notice: It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable program and in any literary, dramatic, musical, or artistic work embodied therein.

Specifications & Features

A/V Receivers: SPECIFICATIONS

		RX-DP20VBK	RX-DP15	RX-8040	RX-7040/7042	RX-6040/6042	RX-F10	
SPECIFICATIONS								
AMPLIFIER SECTION								
Output Power	Stereo	120 watts per channel, min. RMS, driven into 8 ohms/ 4 ohms from 20Hz to 20kHz, with no more than 0.02%/0.07% total harmonic distortion		120 watts per channel, min. RMS, driven into 8 ohms/ 4 ohms from 20Hz to 20kHz, with no more than 0.02%/0.07% total harmonic distortion		130 watts per channel, min. RMS, driven into 8 ohms from 20Hz to 20kHz, with no more than 0.08% total harmonic distortion		
		120 watts per channel, min. RMS, driven into 8 ohms/ 4 ohms from 20Hz to 20kHz, with no more than 0.02%/0.07% total harmonic distortion		120 watts per channel, min. RMS, driven into 8 ohms/ 4 ohms from 20Hz to 20kHz, with no more than 0.02%/0.07% total harmonic distortion		130 watts per channel, min. RMS, driven into 8 ohms at 1kHz, with no more than 0.8% total harmonic distortion		
	Surround	Front Channels	120 watts per channel, min. RMS, driven into 8 ohms/ 4 ohms from 20Hz to 20kHz, with no more than 0.02%/0.07% total harmonic distortion		120 watts per channel, min. RMS, driven into 8 ohms/ 4 ohms from 20Hz to 20kHz, with no more than 0.02%/0.07% total harmonic distortion		130 watts per channel, min. RMS, driven into 8 ohms at 1kHz, with no more than 0.8% total harmonic distortion	
		Center Channel	120 watts, min. RMS, driven into 8 ohms from 20Hz to 20kHz, with no more than 0.02% total harmonic distortion		130 watts, min. RMS, driven into 8 ohms at 1kHz, with no more than 0.8% total harmonic distortion		100 watts, min. RMS, driven into 8 ohms at 1kHz, with no more than 0.8% total harmonic distortion	
		Surround Channels	120 watts per channel, min. RMS, driven into 8 ohms from 20Hz to 20kHz, with no more than 0.02% total harmonic distortion		130 watts per channel, min. RMS, driven into 8 ohms at 1kHz, with no more than 0.8% total harmonic distortion		100 watts per channel, min. RMS, driven into 8 ohms at 1kHz, with no more than 0.8% total harmonic distortion	
Surround Back Channels	120 watts per channel, min. RMS, driven into 8 ohms from 20Hz to 20kHz, with no more than 0.02% total harmonic distortion		120 watts per channel, min. RMS, driven into 8 ohms from 20Hz to 20kHz, with no more than 0.02% total harmonic distortion		130 watts, min. RMS, driven into 8 ohms at 1kHz, with no more than 0.8% total harmonic distortion			
Input Sensitivity/Impedance	PHONO	MC	0.25mV/100 ohms		2.5mV/47k ohms		2.5mV/47k ohms	
		MM	2.5mV/47k ohms		200mV/47k ohms		200mV/47k ohms	
OTHER INPUTS		200mV/47k ohms		200mV/47k ohms		200mV/47k ohms		
Signal-to-Noise Ratio	PHONO	MC	60dB/72dB (REC OUT)		72dB/80dB (REC OUT)		70dB/78dB (REC OUT)	
		MM	72dB/80dB (REC OUT)		92dB/80dB		87dB/80dB	
	OTHER INPUTS		92dB/80dB		92dB/80dB		87dB/80dB	
Frequency Response	PHONO	MC	20Hz - 20kHz (±1dB)		20Hz - 20kHz (±1dB)		20Hz - 20kHz (±1dB)	
		MM	20Hz - 20kHz (±1dB)		20Hz - 20kHz (±1dB)		20Hz - 20kHz (±1dB)	
	DVD MULTI		10Hz - 100kHz (+1dB, -3dB)		10Hz - 100kHz (+1dB, -3dB)		20Hz - 100kHz (+1dB, -3dB)	
	OTHER INPUTS		10Hz - 100kHz (+1dB, -3dB)		10Hz - 100kHz (+1dB, -3dB)		20Hz - 100kHz (+1dB, -3dB)	
RIAA Phono Equalization		±1dB (20Hz - 20kHz)		±1dB (20Hz - 20kHz)		±1dB (20Hz - 20kHz)		
FM TUNER SECTION (IHF)								
Usable Sensitivity		12.8dBf (1.2µV/75 ohms)		12.8dBf (1.2µV/75 ohms)		12.8dBf (1.2µV/75 ohms)		
Quieting Sensitivity	MONO	16.0dBf (1.7µV/75 ohms)		16.0dBf (1.7µV/75 ohms)		16.0dBf (1.7µV/75 ohms)		
	STEREO	37.5dBf (20.5µV/75 ohms)		37.5dBf (20.5µV/75 ohms)		37.5dBf (20.5µV/75 ohms)		
Stereo Separation at REC OUT (1kHz)		40dB		40dB		35dB		
VIDEO INPUTS/OUTPUTS								
Output Signal Level	Component	Y	1Vp-p		1Vp-p		1Vp-p	
		Pu/Pv	0.7Vp-p		0.7Vp-p		0.7Vp-p	
	S-Video	Y	1Vp-p		1Vp-p		1Vp-p	
		C	0.286Vp-p		0.286Vp-p		0.286Vp-p	
Composite		1Vp-p		1Vp-p		1Vp-p		
Impedance		75 ohms (Unbalanced)		75 ohms (Unbalanced)		75 ohms (Unbalanced)		
Synchronization		Negative		Negative		Negative		
GENERAL								
Dimensions (W x H x D)	inches	17 ³ / ₁₆ x 7 x 18 ³ / ₄		17 ³ / ₁₆ x 7 x 18 ³ / ₄		17 ³ / ₁₆ x 6 ³ / ₁₆ x 16 ³ / ₄		
	mm	445 x 177 x 475		445 x 177 x 475		435 x 156.5 x 425		
Mass	lbs.	52		26.5		19.5		
	kg	23.5		12.0		8.8		

Double Cassette Decks

		TD-W354BK	TD-W254BK
SPECIFICATIONS			
Frequency Response at -20dB	Metal Tape	20 - 17,000Hz (30 - 16,000Hz, ±3dB)	
	SA/Chrome Tape	20 - 16,000Hz (30 - 15,000Hz, ±3dB)	
	Normal Tape	20 - 16,000Hz (30 - 15,000Hz, ±3dB)	
Signal-to-Noise Ratio		58dB* (Metal)	
Wow and Flutter		0.08% (WRMS)	
Crosstalk (1kHz)		60dB	
Harmonic Distortion: K3 (OVU, 315Hz)		0.8% (Metal)	
Input Sensitivity/Impedance	Microphone (OVU)	0.4mV/600 - 10k ohms (Matching impedance)	
	Line Input (OVU)	80mV/50k ohms	
Output Level/Impedance	Line Output (OVU)	300mV/5k ohms	
	Headphones (OVU)	0.3mV/8 ohms (Matching impedance 8 - 1k ohms)	
Dimensions (W x H x D)	inches	17 ³ / ₁₆ x 5 ¹ / ₂ x 13 ¹ / ₁₆	
	mm	435 x 139 x 331	
Mass	lbs.	10.9	
	kg	4.9	

* Metal tape, S-315Hz, K3-3%, N-A-weighted, without NR. The S/N ratio is improved about 15dB at 500Hz and 20dB maximum at 1kHz - 10kHz with Dolby-C NR on, and 5dB at 1kHz and 10dB above 5kHz with Dolby-B NR on.

(Continued)	TD-W354BK	TD-W254BK
FEATURES		
MECHANISM		
Deck A	Auto Reverse	●
Deck B	Record/Play	●
	Auto Reverse	●
Full-Logic Silent Mechanism		●
Cassette Shell Stabilizer		●
CIRCUITRY		
Dolby HX Pro		●
Dolby B/C Noise Reduction		●
Pitch Control	● (Deck A)	
Mic Input with Mixing Level Control		●
DISPLAY		
Fluorescent Display Panel		●
Dual Digital Counters		●
Direction Indicator		●
FUNCTIONS		
COMPU CALIBRATION		●
High-Speed Editing		●
Multi Music Scan (Deck A/B)		●
DDRP		●
Auto Tape Selector (Deck A/B)		●
Full Auto Stop		●
MISCELLANEOUS		
Headphone Output		●
Enhanced COMPU LINK Control System		●

A/V Receivers: FEATURES

		RX-DP20VBK	RX-DP15	RX-8040	RX-7040/7042	RX-6040/6042	RX-F10																	
FEATURES																								
CIRCUITRY																								
Surround Sound	THX Processing	Ultra2	Ultra2																					
	THX Surround EX	●	●																					
	Dolby Digital EX Decoder Built-in	●	●	●	●		●																	
	Dolby Digital Decoder Built-in	●	●	●	●	●	●																	
	DTS Decoder Built-in	●	●	●	●	●	●																	
	DTS-ES Decoder Built-in	Discrete6.1	●	●	●	●	●																	
		Matrix6.1	●	●	●	●	●																	
	DTS NEO:6	●	●	●	●	●	●																	
	DTS 96/24	●	●	●	●	●	●																	
	DVD Multi-Channel Audio Compatible (5.1-ch Inputs)	●	●	●	●	●	●																	
	EXT 7.1-ch Inputs	●	●	●	●	●	●																	
	Dolby Pro Logic II	●	●	● (Dolby Pro Logic IIx)	●	●	●																	
	Virtual Surround Back	●	●	●	●	●	●																	
	3D-PHONIC	●	●	●	●	●	●																	
DAP for Multi-Channel Digital Sources	LARGE THEATER/SMALL THEATER/ LARGE HALL 1/LARGE HALL 2/ RECITAL HALL/OPERA HOUSE/CHURCH/ LIVE CLUB/DANCE CLUB/PAVILION	●	●																					
	THEATER 1/THEATER 2/HALL 1/HALL 2/ DANCE CLUB/LIVE CLUB/PAVILION			●	●	●	●																	
DAP for 2-Channel Sources	STEREO FILM/MONO FILM/ LARGE THEATER/SMALL THEATER/ LARGE HALL 1/LARGE HALL 2/ RECITAL HALL/OPERA HOUSE/CHURCH/ LIVE CLUB/DANCE CLUB/PAVILION/ ALL CH. STEREO	●	●																					
	MONO FILM/THEATER 1/THEATER 2/ HALL 1/HALL 2/DANCE CLUB/ LIVE CLUB/PAVILION/ALL CH. STEREO			●	●	●	●																	
3D Headphone		●	●	●	●	●	●																	
P.E.M. D.D. Converter		● 7.1-ch	● 7.1-ch	● Front-ch	● Front-ch																			
CC Converter		● 7.1-ch	● 7.1-ch	● Front-ch	● Front-ch																			
INPUT/OUTPUT																								
◐: Gold-Plated ◆: Assignable / □: Initial Settings (Default)																								
		Audio		Video		Audio		Video		Audio		Video		Audio		Video								
		Analog	Digital	Optical	Coaxial	Compo- site	S-Video	Compo- nent	Analog	Digital	Optical	Coaxial	Compo- site	S-Video	Compo- nent	Analog	Digital	Optical	Coaxial	Compo- site	S-Video	Compo- nent		
PHONO	IN	◐MMK							●MM															
TV SOUND/DBS (TV SOUND)	IN	◐	◆	□	◐	◐	◐	◐	◐	◆	□	◐	◐	◐	◐	◐	◐	◐	◐	◐	◐	◐	◐	
DBS																								
CD	IN	◐	◆	□	◐	◐	◐	◐	◐	◆	□	◐	◐	◐	◐	◐	◐	◐	◐	◐	◐	◐	◐	
CDR	IN/OUT	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	
TAPE/MD (TAPE/CDR)	IN/OUT	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	
VCR (1)	IN/OUT	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	
VCR 2	IN/OUT	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	◐/◐	
DVD	IN	◐Multi	◆	□	◐	◐	◐	◐	◐Multi	◆	□	◐	◐	◐	◐	◐Multi	◆	□	◐	◐	◐	◐	◐	
EXT 7.1CH	IN	◐Multi							◐Multi						◐Multi									
DVR/DVD																								
VIDEO (Front)	IN	◐	□		◐	◐	◐	◐	◐	□														
MONITOR	OUT	◐	◐		◐	◐	◐	◐	◐	◐														
Total Number of Inputs		10	4	3	5	5	3	10	4	3	5	5	3	9	4	1	5	5	2	5	3	1	3	3
Total Number of Outputs		4	1		3	3	1	4	1		3	3	1	4	1		3	3	1	2	1		2	2
Pre-Out	Front	◐							●															
	Center	◐							●															
	Surround	◐							●															
	Surround Back	◐							●															
	Subwoofer	◐							●															
	Zone2/Sub Room (Front ch)	◐							●															
Speaker Terminals	Front L/R 1		* (Large Size)							* (Large Size)														
*: Banana-Plug Type	Front L/R 2		* (Large Size)/Zone 2							* (Large Size)/Zone 2														
	Center		* (Large Size)							* (Large Size)														
	Surround L/R		* (Large Size)							* (Large Size)														
	Surround Back x 2		* (Large Size, L/R)							* (Large Size, L/R)														
																							Surround Back x 1	
FUNCTIONS																								
On-Screen Display		●							●															
Fluorescent Display		●							●															
	Dot-Matrix Display	●							●															
	Dimmer	●							●															
Smart Surround Setup Version 2.0																								
New Quick Speaker Setup		●							●															
One-Touch Operation		●							●															
Equalizer	Type	DSP Digital Parametric		DSP Digital Parametric		DSP Digital		DSP Digital		DSP Digital		DSP Digital		DSP Digital		DSP Digital								
	Control Level	Front/Center/Surround/ Surround Back Ch.		Front/Center/Surround/ Surround Back Ch.		Front/Center Ch.		Front/Center Ch.		Front/Center Ch.		Front/Center Ch.		Front/Center Ch.		Front/Center Ch.								
		Bass: 63Hz-1kHz, 1/3 Oct. Step		Bass: 63Hz-1kHz, 1/3 Oct. Step		Mid: 250Hz-4kHz, 1/3 Oct. Step		Mid: 250Hz-4kHz, 1/3 Oct. Step		Center Ch.: 2.5kHz ±8dB, 2dB Step		Center Ch.: 2.5kHz ±8dB, 2dB Step		Center Ch.: 2.5kHz ±6dB, 3dB Step		Center Ch.: 2.5kHz ±6dB, 3dB Step								
		Mid: 250Hz-4kHz, 1/3 Oct. Step		Treble: 1-16kHz, 1/3 Oct. Step		±6dB, 1dB Step		±6dB, 1dB Step		±6dB, 1dB Step		±6dB, 1dB Step		±6dB, 1dB Step		±6dB, 1dB Step								
	Memory (Manual)	● (For Each Source)		● (For Each Source)		● (For Each Source)		● (For Each Source)		● (For Each Source)		● (For Each Source)		● (For Each Source)		● (For Each Source)								
Multi-Room, Multi-Source		●							●															
Audio Position		●							●															
Analog Direct		●							●															
Midnight Mode		●							●															
Headphone Output		●							●															
Bass Boost		●							●															
TUNER																								
Number of Presets		15 AM and 30 FM	15 AM and 30 FM	15 AM and 30 FM	15 AM and 30 FM	15 AM and 30 FM	15 AM and 30 FM																	
MISCELLANEOUS																								
4-Ohm Capability		● (Front Channels)	● (Front Channels)																					
High-Rigidity Z-Chassis		●	●																					
AV COMPU LINK		●	●																					
TEXT COMPU LINK		●	●																					
Enhanced COMPU LINK Control System		●	●																					
Remote Control Unit		RF Multi-Brand A/V-DBS-CATV, Illuminated LCD (Back Light), Learning	RF Multi-Brand A/V-DBS-CATV, Illuminated LCD (Back Light), Learning	RF Multi-Brand A/V-DBS-CATV, LCD, Glow	Multi-Brand A/V-DBS-CATV, Glow	Multi-Brand A/V-DBS-CATV	Multi-Brand A/V-DBS, Glow																	

DVD-RAM/-RW/-R Video Recorder

		DR-M10SUS
SPECIFICATIONS		
AUDIO SECTION		
Output Level		2.0V RMS
VIDEO SECTION		
Horizontal Resolution (Recording and Playback: XP/SP)		Approx. 500 Lines
GENERAL		
Dimensions (W x H x D)	inches	17 ³ / ₁₆ x 2 ¹³ / ₁₆ x 13 ¹³ / ₁₆
	mm	435 x 70 x 350
Mass	lbs.	9.5
	kg	4.3
FEATURES		
MECHANISM/SERVO		
Playable Formats	DVD VIDEO	●
	DVD-RAM/-RW(VR & VIDEO Format)/-R	●●●●
	SVCD/VCD	●●
	CD-DA	●
	CD-R/RW	●
	MP3 on CD-R/RW	●
	JPEG on CD-R/RW	●
Recordable Formats	DVD-RAM/-RW(VR & VIDEO Format)/-R	●●●●
PAL Playback on NTSC TV		●
AUDIO		
Recording Audio Format		Dolby Digital / Linear PCM (XP Mode Only)
Audio D/A Converter		192kHz/24-bit
Dolby Digital/DTS Digital Out		●●
Virtual Surround		●
VIDEO		
Recording Video Format		NTSC MPEG-2
Recording Time (Approx.)	XP	1 hour (10 Mbps)
	SP	2 hours (5 Mbps)
	LP	4 hours (2.5 Mbps)
	EP	6 hours (1.6 Mbps)
	FR	1-8 hours (10-1.2Mbps/63-Step)
Video D/A Converter		10-bit/54MHz
Digital Direct Progressive Scan Output		●
Motion Active Progressive Scan Output		●
Super MPEG Encode Pre-Processor	Time Base Corrector	●
	Frame Synchronizer	●
	Motion Active Noise Reduction	●
Super MPEG Post-Processor	Block Noise Reduction Circuit	●
	Color DigiPure	●
	Hadamard Noise Reduction System	●
Live Memory		● (DVD-RAM)
Library Database DVD Navigation		● (Max. 1,300 Titles)
Animated Thumbnail on DVD Navigation		● (DVD-RAM/DVD-RW VR)
Variable Search (Forward/Reverse)		±4x Steps
Variable Slow (Forward/Reverse)		±1/2, ±1/4, ±1/16
Quick Skip (30-sec. FWD Skip)		●
Instant (One-Touch) Replay		● (7 sec.)
Natural Reverse Playback (-1x)		●
Resume Function		● (DVD-Video/30-Disc)
Number of Titles		99
Auto 16:9 Record & Playback		●
TUNER		
MTS Decoder		●
Plug & Play		●
Auto Tuner Preset		●
PLL Frequency-Synthesized 181-Channel Tuner		●
TIMER		
Programmable Timer		1-Month/8-Program
VCR Plus +		VCR+C3
Rec Link		●
On-Disc Timer Programming		● (DVD-RAM/DVD-RW VR)
Permanent Program Memory		●
TERMINALS		
Front	S-Video In	●
	Composite In	●
	Audio L/R In	●
Rear	Component Out	●
	S-Video Out	●
	Composite Out	●
	Audio L/R Out	●
	Optical Digital Out	●
	Coaxial Digital Out	●
DV In		●
Cable Box Control	Φ3.5 Mini	●
AV COMPU LINK		●
GENERAL		
On-Screen Display	GUI (Graphical User Interface)	●
	On-Screen Language	English
Multi-Brand Remote		●
Power Backup Time		60 min.

CD Recorders

		XL-R5020BK	XL-R2010BK
SPECIFICATIONS			
CD PLAYER SECTION			
Total Harmonic Distortion (1kHz)		0.0063%	0.0063%
Signal-to-Noise Ratio		97dB	97dB
Dynamic Range (1kHz)		93dB	93dB
Frequency Response		20Hz - 20kHz	20Hz - 20kHz
Wow and Flutter		Unmeasurable	Unmeasurable
Output Level (LINE)		2.0V RMS (Full Scale)	2.0V RMS (Full Scale)
CD RECORDER SECTION			
Sampling Frequency		32kHz/44.1kHz/48kHz	32kHz/48kHz
Frequency Response		20Hz - 20kHz	20Hz - 20kHz
Minimum Input Level	Analog (LINE IN)	300mV (Full Scale -12dB)	300mV (Full Scale -12dB)
	Microphone	1mV (Full Scale -12dB)	1mV (Full Scale -12dB)
Signal-to-Noise Ratio		94dB (Playback)	94dB (Playback)
Dynamic Range (1kHz)		91dB (Playback)	91dB (Playback)
GENERAL			
Dimensions (W x H x D)	inches	17 ³ / ₁₆ x 5 x 13 ³ / ₁₆	17 ³ / ₁₆ x 2 ⁷ / ₁₆ x 13
	mm	435 x 127 x 334	435 x 73 x 329
Mass	lbs.	13.9	8.6
	kg	6.3	3.9
FEATURES			
Type		3-CD + 1-CD-R/RW	1-CD + 1-CD-R/RW
CD PLAYER SECTION			
Play & Exchange System		●	●
Playable Media	CD	●	●
	CD-R for Music (Finalized/Unfinalized)	●	●
	CD-RW for Music (Unfinalized)	●	●
	CD-RW for Music (Finalized)	●	●
	MP3 (CD-R/RW Finalized)	●	●
Continuous Play		●	●
Smart Random Play (Not Available for MP3)		●	●
Program Play (Not Available for MP3)		●	●
Number of Programs		32	32
Repeat Play		●	●
Search (Track/Manual/Direct)		●	●
Pitch Control (±12%) (Not Available for MP3)		●	●
Tray Lock		●	●
CD-R/RW SECTION			
Sampling Rate Converter (32kHz/48kHz)		●	●
REC Source	CD (Digital/Analog)	●	●
	Line (Digital/Analog)	●	●
	Mic (Analog)	●	●
Mix and Record (CD with Line/Line with Mic/Mic with CD)		●	●
Rec Level Control (Analog In)		●	●
Fade In/Out		Manual (Rec/Analog In)	Manual (Rec/Analog In)
Auto Rec Mute		●	●
Synchro Rec	Digital All Tracks	●	●
	Digital 1 Track	●	●
	Analog All Tracks	●	●
CD to CD-R/RW	High-Speed Dubbing	CD-R: 4x	CD-R: 4x
Synchro Rec		CD-RW: 2x	CD-RW: 2x
	One-Touch Rec	1-Disc Rec	●
		1-Track Rec	●
	Edit Rec	Listening	●
		Program	●
Finalize (CD-R: 4x/CD-RW: 2x)		Manual/Auto	Manual/Auto
Unfinalize (CD-RW Only)		Manual (2x)	Manual (2x)
Erase (Last Single Track/Last Multiple Tracks/All Tracks)		2x	2x
Track Skip Write (CD-R/RW Unfinalized Only)		●	●
OPC/Running OPC		●	●
Auto/Manual Track Marking		●	●
Tray Lock		●	●
GENERAL			
Programmable Timer (Daily Play/Rec. Once Play/Rec)		●	●
Mic Input		●	●
Line Input/Output		●	●
Headphone Output		●	●
Optical Digital Input/Output		●	●
Coaxial Digital Input/Output		●	●
Mixing Balance		●	●
Remote Control Unit		●	●
Enhanced COMPU LINK Control System		●	●

DVD Audio/Video Players

SPECIFICATIONS			XV-NP10	XV-N512/510	XV-N412/410	XV-N312/310
AUDIO SECTION						
Total Harmonic Distortion	16-bit		0.006%	0.006%	0.008%	0.009%
	20/24-bit					
Dynamic Range	16-bit		98dB	98dB	98dB	98dB
	20/24-bit		100dB	106dB	100dB	100dB
Frequency Response	CD (fs=44.1kHz)		2Hz - 20kHz	2Hz - 20kHz	2Hz - 20kHz	2Hz - 20kHz
	DVD (fs=48kHz)		2Hz - 22kHz	2Hz - 22kHz	2Hz - 22kHz	2Hz - 22kHz
	DVD (fs=96kHz)		2Hz - 44kHz	2Hz - 44kHz	2Hz - 44kHz	2Hz - 44kHz
	DVD (fs=192kHz)			2Hz - 88kHz		
Output Level			2.0V RMS	2.0V RMS	2.0V RMS	2.0V RMS
VIDEO SECTION						
Horizontal Resolution			500 Lines	500 Lines	500 Lines	500 Lines
Output Level	Component	Y	1.0Vp-p/75 ohms	1.0Vp-p/75 ohms	1.0Vp-p/75 ohms	1.0Vp-p/75 ohms
		P _u /P _e	0.7Vp-p/75 ohms	0.7Vp-p/75 ohms	0.7Vp-p/75 ohms	0.7Vp-p/75 ohms
	S-Video	Y	1.0Vp-p/75 ohms	1.0Vp-p/75 ohms	1.0Vp-p/75 ohms	1.0Vp-p/75 ohms
		C	0.286Vp-p/75 ohms	0.286Vp-p/75 ohms	0.286Vp-p/75 ohms	0.286Vp-p/75 ohms
	Composite		1.0Vp-p/75 ohms	1.0Vp-p/75 ohms	1.0Vp-p/75 ohms	1.0Vp-p/75 ohms
GENERAL						
Dimensions (W x H x D)	inches		17 ³ / ₁₆ x 1 ⁷ / ₈ <TBD> x <TBD>	17 ³ / ₁₆ x 1 ³ / ₄ x 10 ¹ / ₄	17 ³ / ₁₆ x 1 ³ / ₄ x 10 ¹ / ₄	17 ³ / ₁₆ x 1 ³ / ₄ x 7 ¹⁵ / ₁₆
	mm		435 x 47<TBD> x <TBD>	435 x 44 x 258.6	435 x 44 x 258.6	435 x 44 x 201
Mass	lbs		<TBD>	<TBD>	4.2	3.5
	kg		<TBD>	<TBD>	1.9	1.6
FEATURES						
MECHANISM/SERVO						
Type			Single	Single	Single	Single
Playable Formats	DVD-Audio			●		
	DVD-Video		●	●	●	●
	DVD-RAM		●	●		
	DVD-RW		● (Video Format)	●	● (Video Format)	● (Video Format)
	DVD-R		●	●	●	●
	CD		●	●	●	●
	SVCD/VCD		●	●	●	●
	CD-R/RW		●	●	●	●
	WMA		●	●	●	
	MP3		●	●	●	●
	JPEG		●	●	●	●
	MPEG-4		● (ASP)			● (Simple Profile)
	DivX™*		●			
	Memory Card		● (6)			
Rolling Pickup			●	●	●	●
Express Play Start			●	●	●	●
AUDIO						
Audio D/A Converter			192kHz/24-bit	192kHz/24-bit	192kHz/24-bit	192kHz/24-bit
Dolby Digital/DTS Decoder Built-in				●		
Dolby Digital/DTS Digital Out			●	●	●	●
DTS Analog 2ch Downmix Out			●	●	●	●
Sound Effect			●	● (3D PHONIC)	● (3D PHONIC)	●
VIDEO						
Digital Direct Progressive Scan Output			●	●	●	●
Adaptive Geometrical Chroma Mapping				●	●	
Video D/A Converter			10-bit/54MHz	12-bit/108MHz	12-bit/108MHz	10-bit/54MHz
DigiPure				●	●	
VFP (Video Fine Processor)	Number of Parameters		7	7	7	7
	Number of Presets (Presets 2/Manual 2)		●	●	●	●
1.5x Quick Playback with Sound			●	●	●	●
Variable Search (Forward/Reverse)			●	●	●	●
Variable Slow (Forward/Reverse)			●	●	●	●
Disc Memory Resume Function (30 Discs)			●	●	●	●
Resume (Bookmark) Function			●	●	●	●
Zoom Play			● (3 Steps)	● (6 Steps)	● (6 Steps)	● (3 Steps)
One Touch (Instant) Replay			●	●	●	●
TERMINALS						
Video Out	Component		●	●	●	●
	S-Video		●	●	●	●
	Composite		●	●	●	●
Audio Out	Front L/R		●	●	●	●
	Center, Surround L/R, Subwoofer		●	●	●	●
	Optical Digital Out		●	●	●	●
	Coaxial Digital Out		●	●	●	●
AV COMPU LINK			●	●	●	●
GENERAL						
On-Screen Display	GUI (Graphical User Interface)		●	●	●	●
	On-Screen Language		English/French/Spanish	English/French/Spanish	English/French/Spanish	English/French/Spanish
	Numerical Bit-Rate Indicator		●	●	●	●
	Language Indicator		●	●	●	●
	Screen Saver		●	●	●	●
Remote			●	●	●	●
	Multi-Brand		●	●	●	●

* Plays DivX™ 5, DivX™ 4, DivX™ 3, and DivX™ VOD video content.

Mega CD Changer

		XL-MC2000BK
SPECIFICATIONS		
Total Harmonic Distortion (1kHz)		0.006%
Signal-to-Noise Ratio		103dB
Dynamic Range (1kHz)		96dB
Frequency Response		4Hz - 20kHz
Wow and Flutter		Unmeasurable
Output Level (LINE)		2.0V RMS
Dimensions (W x H x D)	inches	17 ⁷ / ₁₆ x 7 ⁷ / ₁₆ x 19
	mm	435 x 199.5 x 482.5
Mass	lbs	17.2
	kg	7.8
FEATURES		
MECHANISM/SERVO		
Type		200-Disc, 1-Chassis
Play & Exchange System (Up to 25 Discs)		●
Electric CD Door		●
DIGITAL FEATURES		
1-Bit Dual D/A Converter		●
8-Times Oversampling Digital Filter		●
FUNCTIONS		
Play Mode	Continue	●
	Program	●
	Random from 200 Discs	●
	Intro	●
Number of Programs (From 200 Discs)		32
Number of Program Chart Tracks		20
Multi Jog Dial		●
MISCELLANEOUS		
Optical Digital Output		●
CD Booklet File		●
Enhanced COMPU LINK Control System		●
REMOTE CONTROL		
Included		●
Numeric Keys		●

CD Changers

		XL-FZ700BK	XL-FZ258BK	XL-FZ158BK
SPECIFICATIONS				
Total Harmonic Distortion (1kHz)		0.002%	0.0022%	0.0022%
Signal-to-Noise Ratio		108dB	107dB	107dB
Dynamic Range (1kHz)		98dB	98dB	98dB
Frequency Response		2Hz - 20kHz	2Hz - 20kHz	2Hz - 20kHz
Wow and Flutter		Unmeasurable	Unmeasurable	Unmeasurable
Channel Separation (1kHz)		94dB	94dB	94dB
Output Level (LINE)		2.0V RMS	2.0V RMS	2.0V RMS
Dimensions (W x H x D)	inches	17 ⁷ / ₁₆ x 4 ¹ / ₁₆ x 17 ¹ / ₁₆	17 ⁷ / ₁₆ x 5 ¹ / ₁₆ x 15 ¹ / ₁₆	17 ⁷ / ₁₆ x 5 ¹ / ₁₆ x 15 ¹ / ₁₆
	mm	435 x 102 x 448	435 x 128 x 388	435 x 128 x 388
Mass	lbs.	12.2	11.3	11.3
	kg	5.5	5.1	5.1
FEATURES				
MECHANISM/SERVO				
Type		7-Disc, Carousel	5-Disc, Carousel	5-Disc, Carousel
Play & Exchange System		●	●	●
DIGITAL FEATURES				
1-Bit Dual D/A Converter		●	●	●
P.E.M. D.D. Converter		●	●	●
8-Times Oversampling Digital Filter		●	●	●
FUNCTIONS				
Playable Format		CD/CD-R/CD-RW	CD	CD
Play Mode	Continue	●	●	●
	Program	●	●	●
	Smart Random	●	●	●
Number of Programs		32	32	32
Number of Program Chart Tracks		18	20	20
Disc Keys		7-Disc Key	5-Disc Key	5-Disc Key
NUMERIC KEYS				
Repeat		●	●	●
Program Repeat		●	●	●
Search (Auto/Manual)		●	●	●
MISCELLANEOUS				
Optical Digital Output		●	●	●
Headphone Output with Volume		●	●	●
Enhanced COMPU LINK Control System		●	●	●
REMOTE CONTROL				
Included		●	●	●
Disc Keys		●	●	●
Numeric Keys		●	●	●

Cordless Headphone Systems

		HA-W1000RF	HA-W300RF
General			
Usable Area		328 ft. (100m)	328 ft. (100m)
Headset			
Diaphragm		40mm dia.	40mm dia.
Frequency Response		30 - 16,000Hz	28 - 17,000Hz
Battery Life		35 Hours (Charged for 24 Hours)	15 Hours (Charged for 19 Hours)
Mass (with batteries)		9.5 oz. (270g)	11.3 oz. (320g)
Transmitter			
Input Terminals		0.13" (3.5mm) dia. Stereo Minijack RCA Pin Jack x 2	0.13" (3.5mm) dia. Stereo Minijack RCA Pin Jack x 2
Mass		11.3 oz. (320g)	10.2 oz. (290g)
Accessories			
		AC Adapter Plug Adapter Connection Cord	AC Adapter Plug Adapter Connection Cord

Microphones

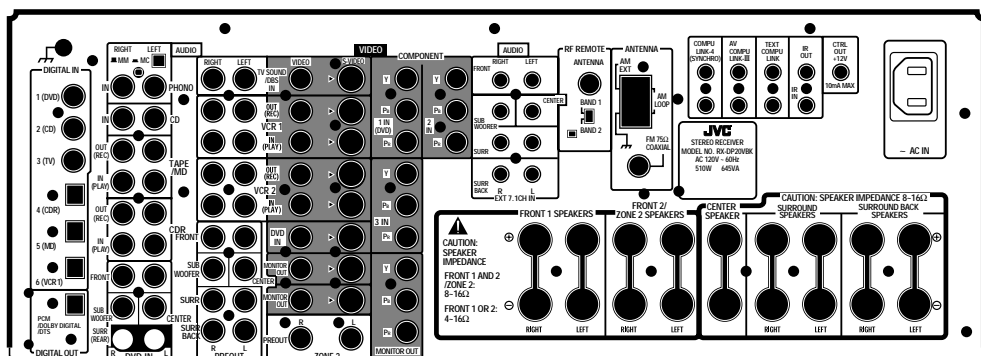
	MV-89	MV-79	MV-J3-BK
Type	Dynamic	Dynamic	Dynamic
Directivity	Uni-directional	Uni-directional	Uni-directional
Frequency Response	100 - 15,000Hz	100 - 13,000Hz	100 - 13,000Hz
Output Impedance	600 ohms	600 ohms	600 ohms
Sensitivity	-55dB	-55dB	-56dB
Mass (without cord)	9.5 oz. (270g)	5.1 oz. (145g)	8.8 oz. (250g)
Cord Length	16.4 ft. (5m)	16.4 ft. (5m)	9.8 ft. (3m)

Headphones

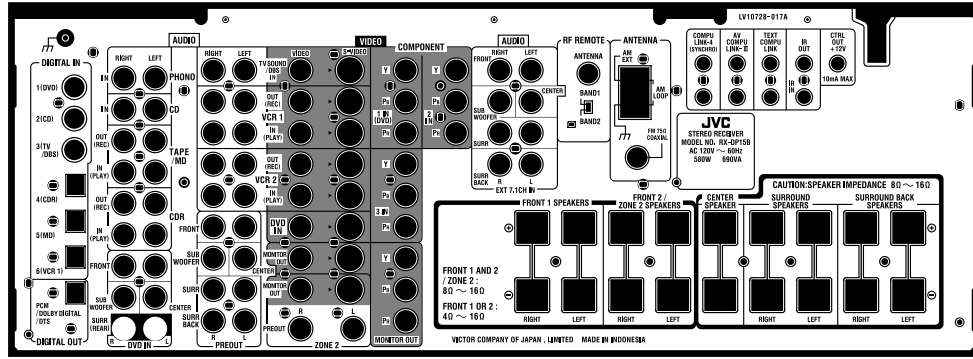
	HA-DX3	HA-DX1	HA-G770	HA-G33	HA-G11	HA-G101	HA-D350	HA-CD60	HA-35
Type	Moving coil, closed	Moving coil, closed	Moving coil, closed	Moving coil, closed	Moving coil, closed	Moving coil, closed	Moving coil, closed	Moving coil, open air	Moving coil, open air
Frequency Response	4 - 30,000Hz	5 - 30,000Hz	10 - 25,000Hz	16 - 22,000Hz	18 - 22,000Hz	16 - 22,000Hz	16 - 22,000Hz	18 - 23,000Hz	17 - 25,000Hz
Nominal Impedance	90 ohms	45 ohms	52 ohms	32 ohms	32 ohms	32 ohms	32 ohms	32 ohms	32 ohms
Sensitivity (1kHz)	98dB/1mW	98dB/1mW	107dB/1mW	100dB/1mW	98dB/1mW	98dB/1mW	100dB/1mW	94dB/1mW	100dB/1mW
Max. Input Capability	100mW	100mW	100mW	50mW	50mW	50mW	50mW	50mW	50mW
Mass (without cord)	11.9 oz. (340g)	10.5 oz. (300g)	9.0 oz. (255g)	6.7 oz. (190g)	5.3 oz. (150g)	6.0 oz. (170g)	7.05 oz. (200g)	1.9 oz. (55g)	1.5 oz. (43g)
Cord Length	13 ft. (4m)	13 ft. (4m)	11.5 ft. (3.5m)	11.5 ft. (3.5m)	9.8 ft. (3m)	9.8 ft. (3m)	11.5 ft. (3.5m)	6.6 ft. (2m)	4.9 ft. (1.5m)

Receiver Rear Panels

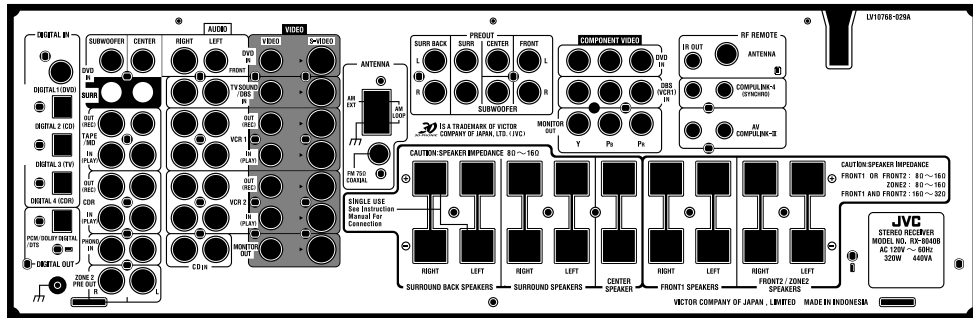
RX-DP20VBK



RX-DP15

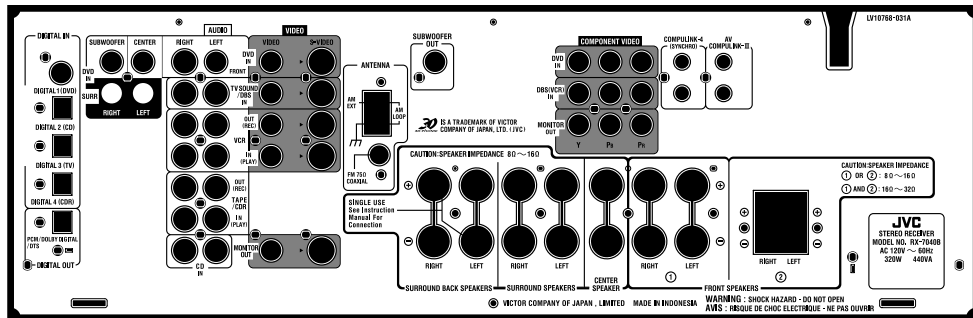


RX-8040



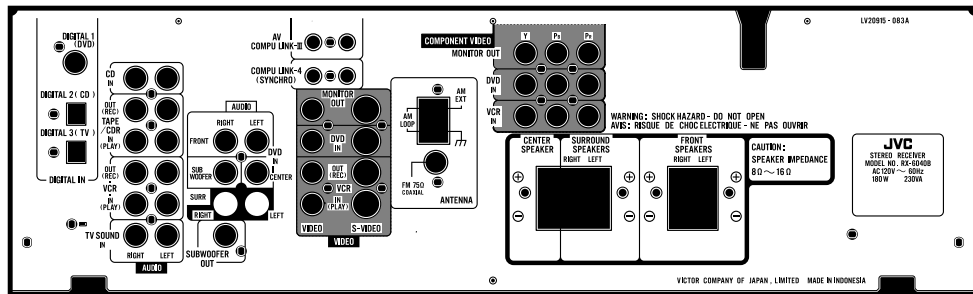
RX-7042

RX-7040

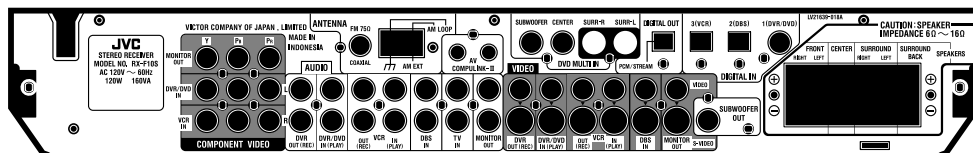


RX-6042

RX-6040



RX-F10





JVC celebrates the 50th anniversary of the Newport Jazz Festival, and the 20th anniversary of the JVC Jazz Festival.



Newport Jazz Festival is a registered service mark of George Wein and Festival Productions, Inc.



The Newport Jazz Festival ticket from 1954



The 1954 festival site — The Casino tennis courts



Standing-room only at Fort Adams State Park, the current festival site



Carnegie Hall — The main site for the JVC Jazz Festival, New York

JVC's Time-Honored Tradition of Sponsoring World-Class Cultural and Sporting Events

The best of live jazz — brought to you by JVC. This year, the JVC Jazz Festival celebrates its 20th anniversary, and the Newport Jazz Festival, its 50th as the world's first outdoor jazz event.

JVC has sponsored jazz festivals, including the Newport Jazz Festival, every year since 1984 as a means of showcasing live jazz throughout the globe, and helping to nurture a universal musical culture and common bond among the many peoples of the world.

Enthusiastically supported by audiences worldwide, JVC's Jazz Festivals are now an established global tradition. In the past 20 years, more than 160 major jazz festivals have taken place under JVC sponsorship, with nearly four million people participating, and no less than 47 thousand musicians performing. To witness some of the most exciting moments for yourself, visit JVC's jazz website at <http://www.jvc-victor.co.jp/english/jazz/>

JVC contributes to the world through other global events as well. JVC sponsored FIFA World Cup™ and has been an official partner of the UEFA EURO Cup — for more than 20 years, respectively. JVC is also a key sponsor of major non-sporting events like the annual International Tokyo Video Festival.

JVC — we bring excitement and emotion to the world.



Official Partner of UEFA EURO 2004™



Design and specifications subject to change without notice. The photos of the products featured in this brochure may not be of actual products that are available in your country. All brand or product names may be trademarks and/or registered trademarks of their respective owners. Any rights not expressly granted herein are reserved.

Copyright © 2004, Victor Company of Japan, Limited (JVC). All Rights Reserved.



DISTRIBUTED BY

JVC COMPANY OF AMERICA
 DIVISION OF JVC AMERICAS CORP.
 1700 Valley Road, Wayne, N.J. 07470
 CONSUMER INFORMATION CENTER
 1-800-252-5722

<http://www.jvc.com>

Printed in Japan
 SCP-04044

JVC is the trademark or registered trademark of Victor Company of Japan, Limited.