

1999 HOME AUDIO



components

KENWOOD

components series

Receivers



VR-3100

- 100 Watts per Channel (Left/Center/Right/LSurround/RSurround)
- DTS, Dolby Digital and Dolby Pro Logic
- 5 Audio DSP Listening Modes
- PowerTouch Learning and Pre-Programmed Touch Screen Remote
- Dual-Room/Dual-Source Audio/Video Operation
- Digital, Dual-Mode Bass Management
- K-STAT Discrete Audio Amplifier
- Preouts for All Channels
- 12V Relay Outputs; TV Power Sensor Input
- RDS (Radio Data System)



Two rooms of entertainment with one receiver

In addition to the main sound channels, the VR-3100 can send the sound and picture of a second audio/video source to another room. You can relax to stereo music in the den while the kids watch the latest action movie in the family room — all in Kenwood's unsurpassed fidelity. And PowerTouch allows you to control the sound in either room independently right from the remote.

The receiver of choice for professional installations

The VR-3100 offers flexibility that makes it perfect for the most ambitious of home theaters. Its 12-volt relay outputs can trigger compatible home automation equipment, while its IR connections allow IR repeaters and transceivers to be added easily to control the VR-3100 from another room, or if it's installed in a cabinet. PowerTouch is pre-programmed to control home automation equipment by X-10, Lutron and Makita, and it can be easily hardwired both to the receiver and to a power source for permanent table-top installation.

be in control

In 1996, Kenwood surprised the audio industry with the Stage 3 home theater controller and its remarkable hand-held LCD TouchPanel remote, winning critical praise and a gold IDEA award from the Industrial Design Engineers Association. Since then, Kenwood has been in the forefront of building sophisticated receivers that are easy to use – because we believe simplicity is a higher order of engineering. Our new VR-3100 extends this philosophy with PowerTouch, our most elegant LCD remote yet. With point-and-click ease, you simply touch the screen to activate your choices. PowerTouch lets you control every component in your system in a way that's natural and fun – and much more powerful: you can, for example, play any song in your Kenwood 200-Disc CD player by simply selecting it on PowerTouch's screen. Because PowerTouch sends and receives information to the receiver, you see the results of your commands instantly on the remote itself.



PowerTouch learns your favorite commands from any remote

PowerTouch comes programmed with control codes for hundreds of popular components. In addition, it can learn virtually any command from another IR remote by "seeing" and recording its command. So even special commands, like your TV's picture-in-picture command, can appear on PowerTouch's screen as a menu item – one you can label whatever you like.



Enjoy any surround-sound format: Dolby Digital, DTS, or Dolby Pro Logic

The two most advanced surround-sound formats on the market today, Dolby Digital and DTS, will immerse you in wall-to-wall, 5.1-channel surround-sound. Available on DVD, laser discs, digital satellite television, and HDTV, these formats are flawlessly decoded by Kenwood's advanced digital processing.

Dolby Pro Logic, used on hundreds of TV shows and virtually all recent videos, produces four-channels of surround-sound, and is decoded with superior accuracy by Kenwood's all-digital decoding process.



Macros perform multiple steps with a single touch to the screen

Turn on the TV, turn on your DVD player, and start the movie – even dim the lights and close the curtains (with optional home automation equipment) – all with one touch to a "macro" that you can program yourself. PowerTouch gives you six macros for each source component, and each macro can be programmed to carry out more than two dozen commands.

Receivers

PowerTouch



VR-3090

- 100 Watts per Channel (Left/Center/Right/LSurround/RSurround)
- DTS, Dolby Digital and Dolby Pro Logic
- 5 Audio DSP Listening Modes
- PowerTouch Learning and Pre-Programmed Touch Screen Remote
- Full Digital, Dual-Mode Bass Management
- K-STAT Discrete Audio Amplifier
- Preouts for All Channels
- S-Video Inputs and Outputs



No need to worry about formats

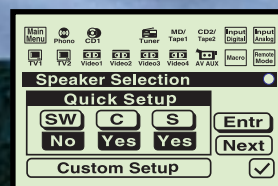
With the Auto-Select feature, a Kenwood receiver knows whether it's receiving a DTS, Dolby Digital, or standard CD digital signal from a digital component, and selects the right decoding automatically. With non-digital sources, it switches to the last listening mode you used for that source.

Kenwood's exclusive K-STAT transistor

Our patented K-STAT transistor virtually eliminates temperature-induced distortion—distortion that can make the three-dimensional quality of stereo or surround-sound disappear. K-STAT is the only transistor in the world with a built-in temperature sensor that allows for instant correction of this distortion.

If you've heard that receivers need to "warm-up," to sound good, you may be surprised to learn that Kenwood receivers sound their best as soon as they're turned on. Kenwood receivers are built differently – with our exclusive K-STAT transistors that instantly correct for temperature-induced distortion. Unlike others, Kenwood receivers with K-STAT sound clear any time the receiver's temperature rises or falls, as happens when music or a movie gets loud or quiet.

It's one of the many reasons your Kenwood receiver will deliver care-free listening, year after year, no matter what kind of movies or music you enjoy.



Perfect surround-sound fast – and custom setup, too

You can enjoy outstanding surround-sound within moments of unpacking your Kenwood receiver, thanks to the easy-to-follow Quick Setup screen prompts. Or you can use Custom Setup, which lets you perfectly tune your system for exactly the size and frequency response of your speakers.

be in control

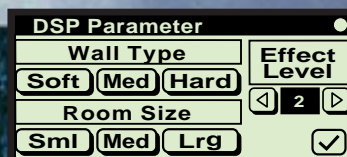
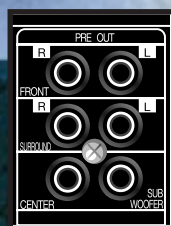
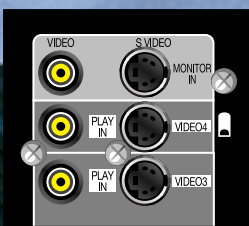
PowerPad lets you control your entire system using menus shown on its palm-sized screen – you can even play a song from a CD loaded into your Kenwood 200-disc CD changer by selecting the song title right on PowerPad's display. Because PowerPad sends and receives information to the receiver, you see the results of your commands instantly on the remote itself. And PowerPad will never become obsolete, because you can download control codes for new components over an ordinary telephone.



VR-3080



- 100 Watts per Channel (Left/Center/Right/LSurround/RSurround)
- DTS, Dolby Digital and Dolby Pro Logic
- 5 Audio DSP Listening Modes
- PowerPad IR Remote
- Full Digital, Dual-Mode Bass Management
- K-STAT Discrete Audio Amplifier
- Preouts for All Channels
- S-Video Inputs and Outputs



All the connections you need, for now and the future

A host of inputs and outputs keep your Kenwood compatible: S-Video, for the improved picture of DVD; coaxial and optical digital inputs, for the pure sound of DVD, mini discs, and CDs; audio preouts that allow you to add amplification if you like.

Step into an intimate jazz club or a grand theater with custom listening modes

Kenwood's five DSP (Digital Signal Processing) modes give you extraordinary control over the room-sound of your listening experience. Choose from Jazz Club, Church, Theater, Arena, or Stadium. In each mode you can control not only the amount of the effect, but actually specify the size of your virtual listening room and even whether its walls are hard or soft.

Dim the lights, close the curtains – all with PowerPad

PowerPad's pre-programmed ability to control optional home automation equipment by X-10, as well as Lutron light-dimmers and Makita curtain controllers, lets you set the mood from the comfort of your sofa.

CD Changers



CD-3280M

- 200-Disc Capacity
- Dual Disc Transports
- Simultaneous Dual-Zone Playback
- Continuous Single-Zone Playback
- Disc and Track Naming
- CD Text
- 26 Music Type Files and 8 User Files
- Coaxial Digital Audio Output and SL16 Text Output
- Full-Function 10-Key Remote

To us, the idea seemed obvious: build a 200-disc CD changer that could play more than one disc at once. With its two transports, the CD-3280M lets you connect to our VR-3100 Dual-Room/Dual-Source receiver and provide different music to two rooms at the same time. Our idea has another nice feature: when you play music in a single room, the two transports can work together so there are no long gaps between songs, even when the songs are on discs that are far from each other inside the changer.

CD
TEXT

When receivers and CD changers think together

Combine a Kenwood CD changer with a Kenwood receiver, and the receiver will automatically switch to the appropriate input and listening mode when you press play on your Kenwood CD changer.

Organize your CD collection easily with CD Text and disc naming

The disc, track title, and artist information encoded on many new CDs can be read and displayed by Kenwood changers. For CDs without this information, you can add it yourself – and your Kenwood changer will remember the names even if you remove the CD from the changer and replace it later.



The DTS difference

All Kenwood CD changers are DTS compatible, so you can enjoy the stunning experience of multi-channel music in DTS Surround (with compatible receivers).

be in control

CD-3260M



- 200-Disc Capacity
- Disc and Track Naming
- CD Text
- 26 Music Type Files 8 User Files
- Coaxial Digital Audio Output and SL16 Text Output
- Full-Function 10-Key Remote



CD naming is easy with our optional keyboard

The optional Kenwood Wireless Mini Keyboard lets you enter disc and track names into your changer's memory with ease. Plus, you can also operate all your changer's functions with the dedicated keys. The high-powered, wide-angle IR emitter lets you type from a comfortable position.



Pick any song in your collection from the palm of your hand

Combine a Kenwood 200-disc CD changer and a Kenwood receiver, and you can see your CD information on the receiver's PowerTouch or PowerPad remote. Scroll through your entire collection right on the screen, and simply pick the disc you want to hear.



Digital outputs keep your changer compatible

As all components move into the digital world, your Kenwood CD changer will be ahead of the curve with its digital output.

Musical categories for all of your 26 moods

Our changers offer twenty-six musical categories to sort your CDs into groups. In the mood just for jazz? You can easily play from just that category — even a random selection of tracks. We've even included 8 additional categories that you can customize.

DVD/Mini Disc



DV-2070

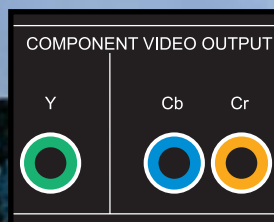
- 24-Bit Resolution, 96kHz Sampling Rate Audio D/A Converter
- 10-Bit Video D/A Converter
- Twin Focus Laser Pickup
- Output Capacitorless Video Buffer Amplifier
- Coring Video Noise Reduction
- Component, Composite and S-Video Outputs
- Coaxial and Optical Digital Audio Outputs
- Motorized Front-Panel Door
- Full-Function 10-Key Remote

When we decided to build a DVD player, we were committed to push beyond what had been accomplished in the first generation of players. The result is a DVD player that delivers extraordinary, high-definition images to go with its stunning high-fidelity sound. Our capacitor-less video circuitry and coring video noise reduction give you rich solid colors, deep blacks, and a crispness of detail that brings everything into sharp, realistic focus. Compatible with even the newest digital formats, the DV-2070 will play Dolby Digital and DTS movies, and DTS Multi-Channel Music CDs.



Protective motorized door helps keep discs clean

Eject a DVD from your Kenwood player, and you'll see that a brushed aluminum door automatically opens before the DVD drawer slides out, a double-closing system that helps keep airborne particles from entering the player or settling on the DVD disc itself.



Component video outputs for highest-quality video

In addition to coaxial and S-Video connections, the DV-2070 includes the latest refinement: component video outputs. Because the signal is separated into blue, red, and black-and-white, component video connections (when used with a compatible TV) deliver the most extraordinarily vivid color yet.

DVD: more than amazing sound and image

Compared to videotape, movies on DVD discs offer far sharper images, smooth slow motion, crystal-clear freeze-frame, and astounding surround-sound in Dolby Digital—but that's just the beginning. Many discs include extra scenes, alternative camera angles, filmmakers' interviews, and multiple-language subtitles.

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A higher standard for mini disc recording. Capable of recording 74 minutes of music at CD-like quality, mini discs are a great choice for home recording. And our recorder has pushed the standard beyond the typical digital bit rate all the way to 24-bit recording. The results are recordings that capture the subtlest details of any CD, right down to the ambiance of the room in which the recording was made.

MD-2070



- DRIVE II Digital Distortion Reduction Circuitry
- ATRAC ver. 4.5 Encoding
- 10 Second Digital Anti-Skip
- 24-Bit Resolution A/D and D/A Converters
- Sampling Rate Converter for Direct Digital Source Recording
- Disc and Track Naming
- CD Text Transfer via Direct Digital Connection
- Full-Function 10-Key Remote



Virtually no digital distortion: Kenwood's exclusive DRIVE II circuitry

Kenwood's proprietary DRIVE II technology is the only circuitry available that essentially removes the digital distortion recorded into all CDs. The proof is in the listening: you'll hear an openness that sounds as if musicians are performing live, right there in the room.

Take your mini discs when you travel or work out

With Kenwood's full line of mini disc products for home, car, and personal listening, you can take your mix anywhere – since our mini discs don't skip, you can even enjoy music while you jog.



CD Text information is recorded, too

Our mini disc recorder not only records the audio of your selection, but also transfers information about artist or track title if it is present in CD Text format. If the CD doesn't contain CD Text information, you can name the disc and tracks on the recording yourself.

Fade your songs in or out – digitally

With your Kenwood recorder, you can get all the sonic benefits of direct digital transfer from a CD to a mini disc – and yet you can still use our digital fade feature to gradually reduce the volume of a track as you record it, creating professional-sounding music mixes.

Components Features

RECEIVER FEATURES

Audio Features	VR-3100	VR-3090	VR-3080
DTS Digital Surround	•	•	•
Dolby Digital	•	•	•
Dolby Pro Logic and Dolby 3 Stereo	Full Digital	Full Digital	Full Digital
Audio DSP Listening Modes	5 (Arena, Jazz Club, Stadium, Church, Theater)	5 (Arena, Jazz Club, Stadium, Church, Theater)	5 (Arena, Jazz Club, Stadium, Church, Theater)
Digital Signal Format Auto Detection/Auto Switching	DTS/Dolby Digital/PCM	DTS/Dolby Digital/PCM	DTS/Dolby Digital/PCM
Bass Management	Full Digital, Dual-Mode (Quick Setup, Customizable)	Full Digital, Dual-Mode (Quick Setup, Customizable)	Full Digital, Dual-Mode (Quick Setup, Customizable)
Last Sound Mode Memory	•	•	•
Digital Audio Input	4 (2 Coaxial, 2 TOS-link Optical)	4 (2 Coaxial, 2 TOS-link Optical)	4 (2 Coaxial, 2 TOS-link Optical)
Audio Inputs/Outputs	8/4	8/4	8/4
Preouts	L/C/R/LS/RS/Sub	L/C/R/LS/RS/Sub	L/C/R/LS/RS/Sub
K-STAT Discrete Audio Amplifier	•	•	•
Video Features			
Video Inputs/Outputs/Monitor Outputs	4/1/1	4/1/1	4/1/1
S-Video Connections for All Video Inputs and Outputs	•	•	•
Tuner Features			
RDS (Radio Data System)	•		
All Other Features	See Tuner Features Table	See Tuner Features Table	See Tuner Features Table
General Features			
PowerTouch Pre-Programmed Touch Panel Remote	•	•	
PowerPad Graphic Pre-Programmed LCD Remote			•
133-Key Learning Capability on Remote	•	•	
FutureSet Upgrade Capability on Remote			•
Macro Play	6 Per Source Component, w/Perfect Macro	6 Per Source Component	4 Preset/3 Programmable
Dual-Room/Dual-Source Audio/Video Operation	•		
12V Relay Outputs & TV Power Sensor Input	•		•
IR Receiver Inputs/Outputs	•	•	•
IR Repeater Outputs	•	•	

RECEIVER SPECIFICATIONS

Power Ratings	VR-3100	VR-3090	VR-3080
Stereo Power (Left/Right, FTC)	100 Watts per Channel (20Hz - 20kHz, 0.03% THD, 6 ohms)	100 Watts per Channel (20Hz - 20kHz, 0.03% THD, 6 ohms)	100 Watts per Channel (20Hz - 20kHz, 0.05% THD, 6 ohms)
Surround Power (Left/Center/Right/LSurround/RSurround, FTC)	100 Watts per Channel (1kHz, 0.06% THD, 6 ohms)	100 Watts per Channel (1kHz, 0.06% THD, 6 ohms)	100 Watts per Channel (1kHz, 0.09% THD, 6 ohms)
Audio Specifications			
Signal-to-Noise Ratio	77dB (Phono) 90dB (CD, Tape)	77dB (Phono) 90dB (CD, Tape)	75dB (Phono) 93dB (CD, Tape)
Input Sensitivity	2.5mV (Phono) 200mV (CD, Tape)	2.5mV (Phono) 200mV (CD, Tape)	2.5mV (Phono) 200mV (CD, Tape)
Input Impedance	47kOhm (Phono) 47kOhm (CD, Tape)	47kOhm (Phono) 47kOhm (CD, Tape)	47kOhm (Phono) 47kOhm (CD, Tape)
Output Level	200mV (Tape Rec) 1V (Preouts)	200mV (Tape Rec) 1V (Preouts)	200mV (Tape Rec) 1V (Preouts)
Output Impedance	1kOhm	1kOhm	1kOhm
Tone Control Characteristics	+/- 7dB @ 100Hz (Bass) +/- 7dB @ 10kHz (Treble)	+/- 7dB @ 100Hz (Bass) +/- 7dB @ 10kHz (Treble)	+/- 7dB @ 100Hz (Bass) +/- 7dB @ 10kHz (Treble)
Tuner Specifications			
FM Useable Sensitivity (Mono, 75ohms)	1.6µV/15.2dBf	1.6µV/15.2dBf	1.6µV/15.2dBf
FM 50dB Quieting Sensitivity (75ohms)	31.6µV/41.2dBf (Stereo)	31.6µV/41.2dBf (Stereo)	31.6µV/41.2dBf (Stereo)
FM THD (1kHz, 65dBf Input)	0.3% (Mono) 0.6% (Stereo)	0.3% (Mono) 0.6% (Stereo)	0.3% (Mono) 0.7% (Stereo)
FM Selectivity (+/- 400kHz)	70dB	70dB	70dB
FM Signal-to-Noise Ratio (1kHz, 65dBf Input)	75dB (Mono) 68dB (Stereo)	75dB (Mono) 68dB (Stereo)	75dB (Mono) 68dB (Stereo)
FM Stereo Separation (1kHz)	38dB	38dB	38dB
AM Useable Sensitivity (Mono, 75ohms)	16µV	16µV	16µV
Dimensions (W x H x D)			
	17-5/16 x 6-3/8 x 15-3/8	17-5/16 x 6-3/8 x 15-3/8	17-5/16 x 6-3/8 x 15-3/8

Tuner Features	
Quartz PLL Synthesized Digital Tuning	•
Direct Access Tuning	•
Station Presets	40 (FM/AM)
Preset Call	•
Automatic and Manual Tuning	•

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CD PLAYER FEATURES

Compact Disc Features	CD-3280M	CD-3260M
Disc Capacity	200 Discs	200 Discs
Play Exchange	199 Discs	199 Discs
Dual Disc Transport Mechanisms	•	
Simultaneous Dual-Zone Playback	•	
Continuous Single-Zone Playback	•	
CD Text	•	•
Disc Naming	210 Discs	210 Discs
Track Naming	20 Tracks/Disc	20 Tracks/Disc
Music Type File	26 Pre-programmed, 8 User-Programmed	26 Pre-programmed, 8 User-Programmed
Best Selection File	32-Track	32-Track
One-Touch CD Recording (CCRS)	Compatible	Compatible
Digital Audio Output (DTS Multi-Channel Music-Compatible)	1 (Coaxial)	1 (Coaxial)
Text Output Connection to Receiver	•	•
Full-Function 10-Key Remote	•	•
Performance Specifications		
Frequency Response	4Hz - 20kHz (+/- 0.5dB)	4Hz - 20kHz (+/- 0.5dB)
Total Harmonic Distortion	0.005% (1kHz)	0.005% (1kHz)
Signal-to-Noise Ratio	97dB	97dB
Dynamic Range	94dB	94dB
Channel Separation	92dB (1kHz)	92dB (1kHz)
Output Level	2.0V	2.0V
Output Impedance	0.9kohm	0.9kohm
Dimensions (W x H x D)	17-5/16 x 6-15/16 x 18-7/8	17-5/16 x 6-15/16 x 18-7/8

DVD PLAYER FEATURES

DVD Features	DV-2070
Audio D/A Converter	24-Bit, up to 96kHz Sampling Rate
Video D/A Converter	10-Bit
Output Capacitorless Video Buffer Amp	•
Coring Video Noise Reduction	•
Dialog Language Function	•
Subtitle Function	•
Parental Control	•
Frame Advance	•
Viewing Angle Function	•
Slow Motion	•
CD Text	•
Video Outputs	2 S-Video/2 Composite/ 1 Component
Digital Audio Outputs	2 (1 Coaxial, 1-TOS-link Optical)
Motorized Front-Panel Door	•
Full-Function 10-Key Remote w/ Joystick Control	•
Performance Specifications	
Frequency Response	2Hz - 20kHz (44.1kHz Sampling) 2Hz - 22kHz (48kHz Sampling) 2Hz - 44kHz (96kHz Sampling)
Total Harmonic Distortion (CD)	0.003% (1kHz)
Signal-to-Noise Ratio (CD)	113dB
Channel Separation (CD)	90dB (1kHz)
Dynamic Range (CD)	97dB
Analog Output Level/Impedance	2.0V/510ohms
Dimensions (W x H x D)	17-5/16 x 5-1/16 x 15-1/8

MD RECORDER FEATURES

Mini Disc Features	MD-2070
ATRAC Encoding	version 4.5
A/D and D/A Converter	24-Bit Resolution
DRIVE II Distortion Reduction Circuitry	•
Digital Pass-Through Function	•
Sampling Rate Converter for Direct Digital Source Recording	•
Analog Source Recording	•
Mono Extended Time Recording	•
Auto and Manual Recording Modes	•
Disc and Track Naming	•
CD Text Transfer via Digital Connection	•
Track Combining, Dividing, Moving, Erasing	•

Mini Disc Features	MD-2070
Record Monitor Function	•
Digital Audio Input	3 (2 Coaxial, 1 TOS-link Optical)
Digital Audio Output	2 (1 Coaxial, 1 TOS-link Optical)
Full-Function 10-Key Remote	•
Performance Specifications	
Frequency Response (Play Mode)	8Hz - 20kHz (+/- 1dB)
Total Harmonic Distortion (Play Mode)	0.004% (1kHz)
Signal-to-Noise Ratio (Play Mode)	112dB
Dynamic Range (Play Mode)	96dB
Analog Input Sensitivity/Impedance	500mV/22kohm
Analog Output Level/Impedance	2.0V/300ohm
Dimensions (W x H x D)	17-5/16 x 4-15/16 x 14-11/16



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