

PARASOUND

NEW CLASSIC



Model D 200

Universal Disc Player

OWNER'S GUIDE



IMPORTANT SAFETY INSTRUCTIONS

The lightning flash with the arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of “dangerous voltage” inside the product that may constitute a risk of electric shock.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the product.

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

1. **Read Instructions** — Read all the safety and operating instructions before operating this product.
2. **Retain Instructions** — Retain safety and operating instructions for future reference.
3. **Heed Warnings** — Adhere to all warnings on the product and in the operating instructions.
4. **Follow Instructions** — Follow all operating and use instructions.
5. **Cleaning** — Unplug this product from the wall outlet before cleaning. Use a damp cloth for cleaning. Clean the outside of the product only.
6. **Attachments** — Do not use attachments that are not recommended by the product manufacturer; they may be hazardous.
7. **Water and Moisture** — Do not use this product near water.
8. **Accessories** — Do not place this product on an unstable cart or stand. The product may fall, causing bodily injury and damage to the product. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart to overturn.
9. **Ventilation** — Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided.
10. **Power Sources** — Operate this product only from the type of power source indicated on the label. If you are not sure of the type of power supply to your home, consult your dealer or local power company. This product is equipped with a three-prong grounding plug. This plug will only fit into a grounding power outlet. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding plug.
11. **Power Cord Protection** — Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them.
12. **Lightning** — Unplug the unit from the wall outlet for added protection during a lightning storm and when it is left unattended and unused for long periods of time. This will prevent damage to the product due to lightning and power line surges.
13. **Overloading** — Do not overload wall outlets or extension cords. This can result in a fire or electric shock.
14. **Inserting Objects into Unit** — Never push objects of any kind into this product through any openings; they may touch dangerous voltage points or short out parts that could result in fire or electric shock.
15. **Servicing** — Do not attempt to repair or service this product yourself. Opening or removing covers may expose you to dangerous voltage and other hazards. Refer all servicing to qualified service personnel.
16. **Damage Requiring Service** — Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions: **a)** If the power-supply cord or plug is damaged. **b)** If liquid has been spilled into the product. **c)** If the product has been exposed to rain or water. **d)** If the product does not operate normally by following the operating instructions. **e)** If the product has been dropped or damaged in any way. **f)** If the product exhibits a distinct change in performance.
17. **Replacement Parts** — When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer. Unauthorized substitutions may result in fire, electric shock, and other hazards.
18. **Safety Check** — Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
19. **Wall or Ceiling Mounting** — Mount the product to a wall or ceiling only as recommended.
20. **Heat** — The product should be situated away from heat sources such as radiators, heat registers, stoves, and other products (including amplifiers) that produce heat.

www.parasound.com

Thank You for Choosing Parasound

Your Parasound® D 200 is an advanced disc player with extraordinary performance capabilities. We designed the D 200 to be very easy to set up and to operate. This manual is divided into two sections. The first section describes connections and menu setup selections that will enable you to play movies and CDs right away, even if you've had little or no previous experience with audio-video components. The second section explains the advanced features that you may prefer to use later or even ignore altogether.

We appreciate you taking the time to read these instructions and thank you for selecting Parasound. For updates and corrections to this manual, we invite you to check our web site, **www.parasound.com**

Enjoy.

The Parasound Staff

Keeping Records for Future Reference

Record the serial number located on the back panel of your D 200 in the space below. Also note your Parasound Dealer's name and telephone number. We recommend that you make a copy of your original purchase receipt/bill of sale and store the original and the copy in a safe place. Your purchase receipt/bill of sale is required to determine if your D 200 is eligible for Parasound warranty service. We recommend you keep a copy with your original packaging.

OWNERSHIP REFERENCE INFORMATION	
Parasound D 200 Disc Player Serial #:	<input type="text"/>
Parasound Dealer:	<input type="text"/>
Dealer Phone Number: () -	Date of Purchase: / /

You Should Know

There is no Parasound warranty for this unit if it was not purchased from an Authorized Parasound Dealer. Investigate warranty coverage statements made by an unauthorized dealer very carefully, as you will need to depend entirely upon your dealer, and NOT upon Parasound.

Unauthorized dealers lack the capability to make repairs or arrange for repairs of Parasound equipment. Authorized Parasound Dealers are listed at **www.parasound.com** or you can call us at **415-397-7100** between 8:30 am and 4:30 pm Pacific time to verify the status of a dealer.

A missing or altered serial number could indicate that this unit was sold by an unauthorized dealer or is stolen merchandise. If this unit is missing its serial number, you should return it to your dealer immediately for a full refund.

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Unpacking Your D 200

Carefully unpack your D 200 from its shipping carton and locate all the enclosed accessories:

- Remote control, two AAA batteries
- AC power cord
- Combination cord for two channel audio and composite video

While you are unpacking your D 200, inspect it thoroughly for possible shipping damage and tell your Parasound dealer right away if you find any. If possible, save and store both the inner and outer cartons and—most especially—the foam packing inserts, so you can use them to protect the D 200 if you have to move it or ship it. You can flatten the cartons to save room in storage by cutting the taped seams on the bottom flaps.

Placement Guidelines

The D 200 will be easy to use and will last longer if you follow these simple guidelines:

- Place the D 200 on a shelf that will adequately support its weight.
- Unless you'll control the D 200 through a remote infrared sensor/repeater system, pick a shelf where you can aim the remote control handset directly at the D 200. (If you do use remote repeater sensors, be sure the remote's signals can't reach both the IR repeater's sensor and the unit's front-panel sensors at the same time.)

If you're installing the D 200 yourself, use cables that are long enough to leave at least two feet of slack; that will enable you to pull the D 200 out of the cabinet to check or change connections without inadvertently disconnecting cables. If you're putting the D 200 in a cabinet, make sure there's grab space on each side; with a space that's at least 22 inches wide, you'll be able to turn it around for access to its rear panel connections.

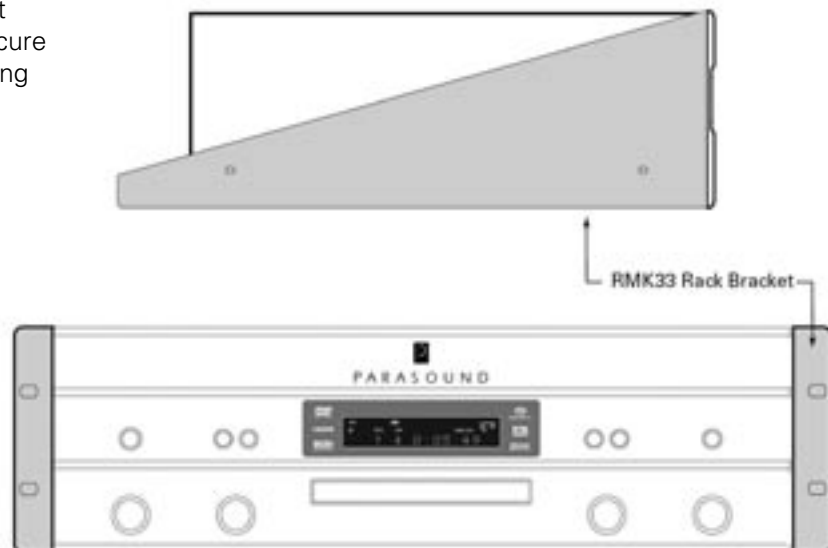
Rack Mounting Your Parasound D 200

With its four feet removed, the D 200's front panel height occupies three rack spaces (5¼" or 133 mm—a single standard rack space occupies 1¾" vertical space.) For mounting in a standard 19" equipment rack, you must use the Parasound RMK33 rack mount kit (purchased separately). The RMK33 includes four bolts and eight plastic washers with raised "shoulders."

Slide one washer onto each mounting bolt with its raised shoulder pointing toward the panel hole.

Carefully insert the bolt through the hole and slide the other washer on the bolt with its raised shoulder facing the rear side of the panel. The washers will sandwich the D 200 panel and the four mounting bolts to prevent metal-to-metal contact between the Model D 200 chassis, the equipment rack, and the other components mounted in the rack.

Note: Tighten each bolt just enough to keep the unit secure in the rack to avoid deforming the shoulder washers.





To get the most out of your NewClassic Model D 200, you'll need to know how to connect it to your other components, how to set it up for your listening space and how to operate it. This manual is organized in this order:

Connecting Your D 200: pages 8 – 12

This will show you how to make the video and audio connections that go between your NewClassic Model D 200 and your 5.1 channel or 7.1 channel surround controller (or AV receiver) and your TV. Which connections you make will depend on the capabilities of the other equipment in your audio system.

Setting Up Your D 200: pages 15 – 26

This section will show you how to make the selections in your D 200's Setup Menu to match your D 200 to your TV and your loudspeakers. You will also learn how to set up each channel to play at the correct volume level and so that the sound from each channel reaches your seating position at the correct time. You do not need to make all of these adjustments right away, so feel free to enjoy your movies now and come back to this section at a later time.

Remote Control Functions: pages 27 – 28

Here you will learn about some of the more advanced buttons on your remote control.

Frequently Asked Questions: pages 29 – 30

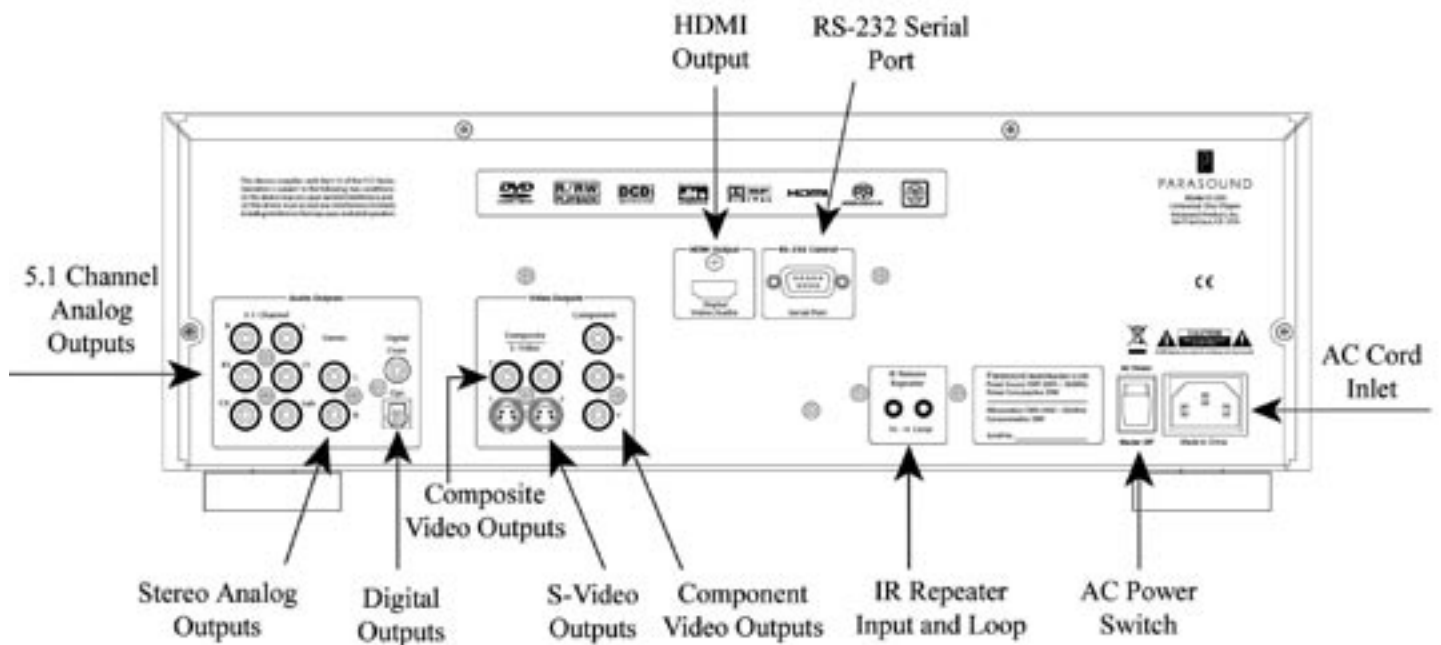
There may be answers here if you can't get something to work correctly. If you are still having problems, please contact your dealer or call the Parasound Tech Department for technical support. The telephone number and hours are shown on page 31.

Making Connections

The connector jacks on various components often have different names, so read the operating instructions of each component to make sure you are identifying the correct jacks by the names we use on the D 200 and in this manual.

Jacks on the units and the plugs on your video and audio cables are usually color coded to simplify hookup. Be sure to connect the same color plugs to their corresponding jacks.

Don't attach the D 200's AC cord yet. You will do this after all the other connections are made.

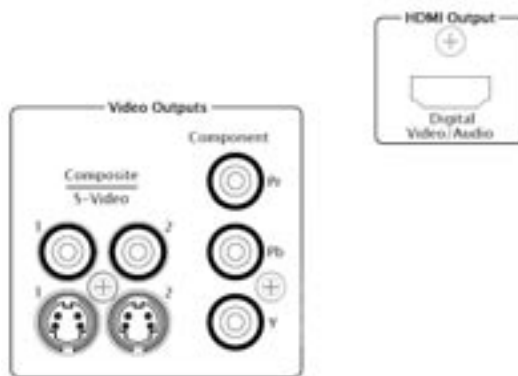


VIDEO CONNECTIONS

You should make the video connection between the D 200 and your TV first. It will be either direct or via the video inputs on your surround controller (or AV receiver). A video connection is required to view the D 200's setup menu on your TV. This section will help you make the video connection.

The D 200 includes four different types of video outputs. All of the video outputs can be active at the same time allowing you to use a combination of connections for a second TV or second Zone. You will connect only one of the D 200 video outputs for your primary viewing area, or "main zone." Choose the best quality video output for which your TV has a matching input.

- HDMI provides the best picture quality. Only High Definition digital TVs include an HDMI input.
- Component video is the next best and consists of three separate cables.
- S-video is next, but it's a big step down in picture quality from component video.
- Composite video is the lowest quality but is the most common type of connection.



HDMI Video Connections

Connect the HDMI Output connector of the D 200 to the HDMI INPUT connector on your TV using a high quality HDMI-certified cable. If your TV does not have an HDMI or DVI connector you should skip to "Component Video connections" on the next page.

HDMI connections are for the transmission of uncompressed wide bandwidth digital video and stereo or multi-channel digital audio signals. HDMI data transmission is usually superior because it avoids degradation from video digital-to-analog and analog-to-digital conversion, so what you see and hear is a perfect reproduction of the disc being played.

"HDMI" will flash on the D 200's front panel when an HDMI cable is not connected between the D 200 and a TV or if your TV is turned off. If you are not using the HDMI output you can turn it off in the Video setup menu and it will stop flashing.

Note: If you have more than one HDMI source component (such as a cable or satellite receiver, or a game console) you may need to use an external HDMI switcher.

We strongly recommend the HDMI-certified Parasound Zhd five input switcher. You can find details on the Zhd at www.parasound.com.

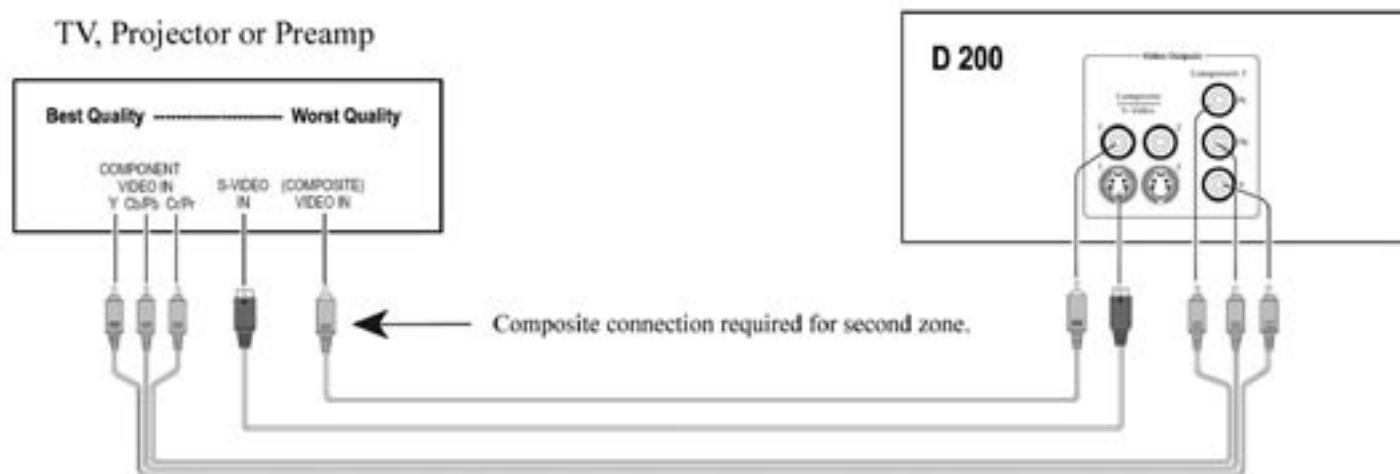
D 200 HDMI Output to a TV's DVI Input

If your TV is equipped with a DVI input connector instead of an HDMI input connector you might be able to use it with a commercially available HDMI-to-DVI adapter. Please make sure your TV's DVI Input supports HDCP (High-bandwidth Digital Content Protection), otherwise it will not be compatible with the D 200. If you plan to route the DVI signal through your surround controller's or AV receiver's DVI input, it must also support HDCP.

Note: Many earlier model TVs with DVI inputs are not HDCP-compliant (digital copyright protection) and will not operate with the D 200 HDMI output. Your TV's owner's manual or your TV dealer can tell you if the TV is HDCP-compliant.

No HDMI or DVI input on your TV?

If your TV does not have an HDMI input you will have to use one of the analog video connections. These connections are Component, S-Video and Composite. Choose the highest quality connection that your TV has.



If your TV does not have an HDMI input, choose one of these connections.

Component Video Connections**If your TV doesn't have an input for HDMI or DVI**

This is a three-cable connection that must use cables that are made for video. The three Component Video jacks are identified with red, green, and blue colors. The component video cable's plugs are usually color-coded to help you connect the same color jacks on the D 200 and your TV.

Connect either set of the **Component Video Out jacks** on your D 200 to the three corresponding Component Video Input jacks on your TV or your surround controller/receiver.

S-Video Connections**If your TV doesn't have an input for HDMI, DVI or Component Video**

Connect either the **S-Video 1 or 2 Out jack** on your D 200 to the S-VIDEO input jack of your surround controller/receiver or TV. The **S-Video 1 and 2 Out jacks** carry the same video signal, enabling connection of two TVs.

Note: Connect the S-Video jacks only if you do not use either the Component Video or Composite Video connections.

Composite Video Connections**If your TV doesn't have an input for HDMI, DVI, Component Video or S-Video**

Connect either the **Composite Video 1 or 2 Out jack** on your D 200 to the Composite VIDEO (or sometimes called simply VIDEO) input jack of your surround sound controller/receiver or TV. The **Composite Video 1 and 2 Out jacks** carry the same video signal, enabling connection of two TVs.

Note: Connect the Composite Video jacks only if you do not use either the Component Video or S-Video connections. An exception is if you are using the remote, Zone B, feature on a Parasound C 1, C 2 or Model 7100 7.1 Channel Surround Controller.

Note: All of the analog video connections are active simultaneously.

AUDIO CONNECTIONS

TO YOUR SURROUND CONTROLLER OR RECEIVER

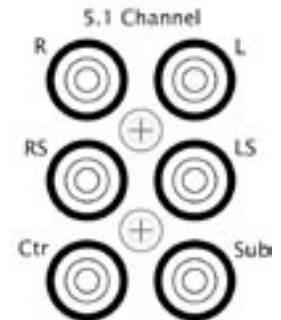
There are three types of audio output connections, unbalanced analog, digital and HDMI. The proper connection will depend on your audio system's capabilities.

Analog Audio Outputs

5.1 Channel Analog Audio Outputs

Connect these jacks to the corresponding channel input jacks of your surround controller or AV receiver. These connections are required to reproduce high resolution multi-channel DVD-A (DVD Audio) and SACD recordings because full resolution is not available via the HDMI or Digital Coaxial or Optical outputs. If you do not plan on listening to DVD-A or SACD discs you do not need to use these jacks.

Note: The D 200 supports HDMI 1.1 which does not include playback of SACD audio over HDMI.



Unbalanced Stereo Outputs

These jacks can connect to a second stereo preamp or receiver or to the remote Zone audio input jacks on a Parasound 7.1 Channel Surround Controller. They carry the same signals as the 5.1 Analog Audio Output L and R jacks.

Note: You will not hear any dialog from the stereo outputs when playing a DVD recorded with surround sound, unless you selected NONE for the center speaker in the Audio setup menu. For information on the Audio setup menu see page 19.



Digital Outputs

Connect either the **Digital Coaxial jack** or the **Optical connector** (Toslink) to one of the Coaxial or Optical inputs on your surround controller or receiver. This is your primary audio connection for use with DVD movies and CDs. When using the Coaxial output, make sure to use a digital cable that is made for this purpose; a standard audio cable will not pass digital signals correctly. Toslink cables are fragile; be very careful not to bend the fiber optic cable sharply.

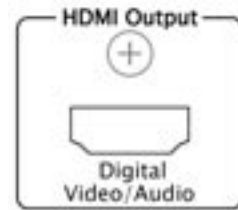
Note: The D 200 Coaxial or Optical digital outputs do not carry DVD Audio and SACD digital audio signals. To play multi-channel DVD Audios and SACDs, you should also connect the **5.1 Ch Audio Output jacks**.



HDMI Audio Connection

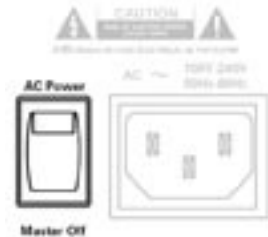
A small number of surround controllers and receivers can decode the audio in the HDMI signal and therefore no other audio connection is necessary for your main zone. If your surround controller or receiver does not have an HDMI input or does not decode HDMI audio you will need to use the Digital Coaxial or Optical connections and the 5.1 channel analog audio inputs.

Note: Some TVs with HDMI inputs do not accept HDMI audio signals. For these TV sets you'll need to make separate audio connections from the D 200's Digital or Analog Audio Output jacks. If you're using a TV's DVI input you will need to make an analog audio connection because DVI cables do not carry audio signals. High-Resolution SACD audio is not available through the HDMI connection.



AC Connection and Rear Panel Power Switch

The D 200 operates on 100 - 240 volts, so no AC voltage selector switch is necessary. Plug its AC power cord into an AC outlet that is always live (not switched). The D 200 will not operate properly if it's plugged into an AC outlet that might be switched off. When the rear panel AC Power switch is switched on you can turn the D 200 on and off with its front panel On-Off button or remote control On and Off buttons. The only time you will be likely to turn off the AC Power switch is when you will be away for an extended time.



IR Remote Repeater Input

The **IR input jack** is a 1/8" (3.5mm) mini jack that connects to an IR (infrared) repeater system. An IR repeater system includes an IR receiver that relays or "repeats" the IR commands from your remote control handset to extend its range. This enables you to control your D 200 from another room, or when it is located behind closed cabinet doors.

The **Loop Out jack** will relay the same IR information present at the input jack making it easy to connect a second IR-controlled component.

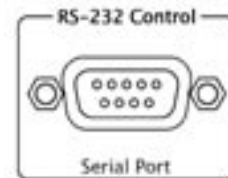
Note: Position the IR repeater receiver so that the IR beam from your remote control handset cannot also reach the D 200, otherwise, the D 200 may not respond correctly to the remote's commands. When positioning the IR repeater's receiver remember that infrared can be reflected like visible light.



RS-232 Serial Port

This 9-pin female DB9 connector is a full-duplex serial port. This permits the D 200 to communicate in two directions with software-based home automation and control systems such as Crestron, AMX, Control4, and Elan. The RS-232 write (command) and read (display feedback) codes may be found at: www.parasound.com.

When the D 200 is connected to such a controller, it can be controlled and its status monitored from keypads and hand-held remotes or touch-screen panels throughout your house. The capabilities of such connections, and the programming and interfacing needed will depend on the automation system you select; consult your Parasound dealer or custom installer for more information regarding interfacing an external control system to your D 200.



Video & Audio Connections for a Remote Zone

Parasound surround controllers and many AV receivers include input jacks so you can watch your movies in another room (usually called the remote zone, or Zone B).

- Connect one of the D 200's Composite Video Out jacks to the Zone Video Input jack on your surround controller.
- Connect the D 200's audio Stereo jacks to the Zone audio input jacks on your surround controller. These are independent from the video and audio connections you used for your home theater.

After your D 200 is connected to the rest of your home theater system you are ready for its shake-down cruise. Select the TV's Input for its Input jacks which you connected to the D 200's Video Out jacks.

- Press the D 200's rear panel **Master AC Power switch** to its **On** position. You should now notice a very faint red glow behind its Power button.
- Press the Power button on the front panel to turn the D 200 on.
- You can now press the **LOAD button** and insert a DVD into the exposed loading tray. A few seconds after you press the **PLAY button** you should see and hear the opening screens of the movie.
- Once you are confident that the D 200 is properly connected to the rest of your system you may want to adjust some of the settings in the setup menu. The next section of this manual is dedicated to the setup menu.

Note: If you don't see/hear anything now, please recheck your connections and make sure your TV is on. Check that the TV and surround controller (or AV receiver) selected inputs are the same as the input jacks which are connected to the D 200.

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Navigating the Setup Menu with the Remote Handset

You'll need to make some selections so that the D 200 performs correctly in your home theater system. These Menu settings are selected by using the D 200's remote control handset. If you have not already done so, open the battery compartment cover and install the batteries, making sure their directions match the markings on the remote.

Notes:

- You don't need to make all of these selections right away.
- Your D 200 must be connected to a TV to use the setup menu because its front panel does not display the setup menu. Don't forget to select the proper input on your TV.
- If you think your D 200 is set up for the wrong video type (NTSC or PAL) or if there is no output from the HDMI jack please see the FAQ section of this manual.
- If your D 200 is connected to your TV only by an HDMI cable and you cannot see the setup menu, you may need to temporarily connect a composite video cable in order to view the setup menu. Then you can turn on your D 200's HDMI output.

Start with your D 200 power turned on and at full stop (press the **STOP button** twice).

Press the **SETUP button** on your remote handset.

The main menu will appear.

This is the onscreen display (OSD)

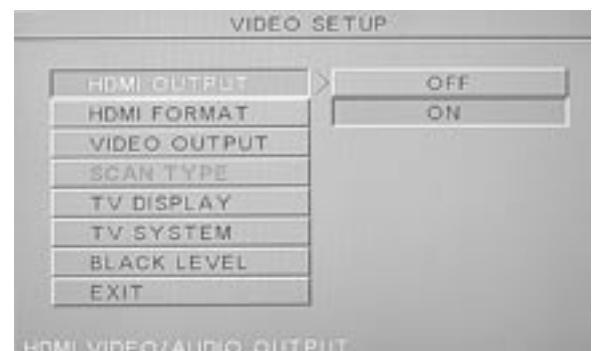


Setup Menu Structure

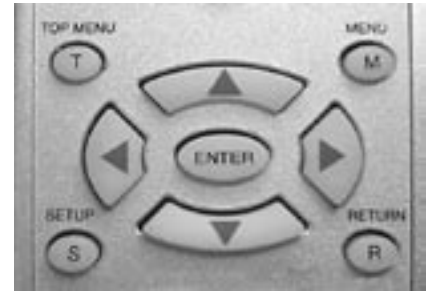
The **MAIN MENU** setup screen shows the titles of the five setup categories.

- **VIDEO SETUP**
- **AUDIO SETUP**
- **LANGUAGE SETUP**
- **OTHER SETUP**
- **ADVANCED VIDEO**

Each of these titles branches out into its own page, where you will make your actual selections or adjustments. For example, when you select VIDEO SETUP you will see the VIDEO SETUP page.

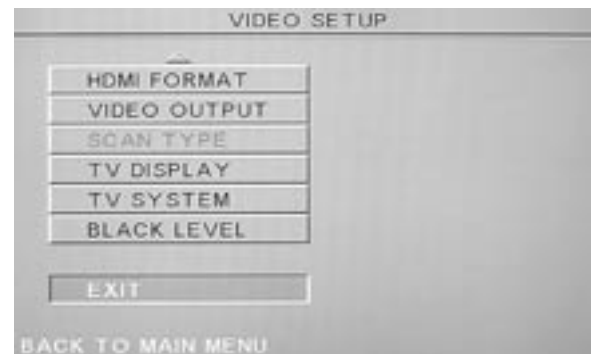


Once you see the setup menu on your TV screen you can make selections or adjustments with the D 200 remote handset's ◀, ▶, ▲, ▼ cursor buttons and central **ENTER** button. You only need to move your thumb a short distance to press any of these five buttons and you'll soon know which button you're pressing without having to look at the remote. The setup process will go much faster when you are focused on the Setup menu on your TV, without having to look at which remote button you're pressing.



Actual adjustments or selections on each menu page are made with the ◀, ▶, ▲ and ▼ cursor buttons. Press the ▲ and ▼ cursor buttons to select the item in the left column which you wish to adjust. When you select a menu item it will be highlighted. Then press the ▶ cursor button to highlight the right column. Use the ▲ and ▼ buttons to highlight your selection or adjustment in the right column and then press the ENTER button to select it. Press the ◀ cursor button to return to the left column.

After you have made all the selections for that menu page, press the ▼ button until EXIT is highlighted. When you press the ENTER button to select EXIT, the next higher level menu page will reappear.



Saving Your Setup Selections

Your settings are automatically saved when you press the SETUP button on the remote or by pressing the ENTER button when EXIT is highlighted on the MAIN MENU.

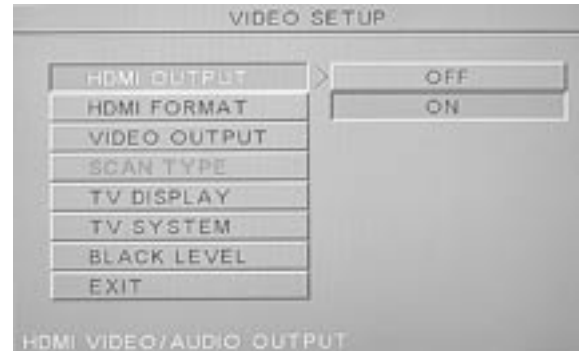
VIDEO SETUP MENU

This is the first menu page you should set up; it's used to adapt the D 200 to the type of TV you are using. The D 200 comes from the factory with the HDMI output turned on and a screen shape of 16:9 which is suitable for widescreen TVs.

HDMI OUTPUT

If your TV is equipped with an HDMI input you will want to set the D 200's HDMI output to ON. When the D 200's HDMI output is turned on, "HDMI" will illuminate continuously on the front panel display. If the HDMI output is turned on and the D 200 is not connected to a TV with an HDMI input, or if the HDMI TV is not turned on, then "HDMI" will flash on and off.

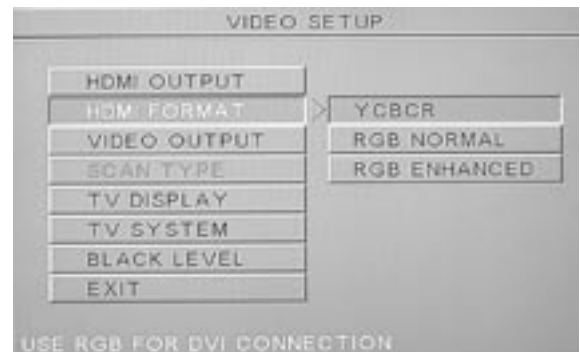
Note: Progressive scan (SCAN TYPE) is not available through the component video outputs when HDMI is set to ON.



HDMI FORMAT

This changes the HDMI colors in case you are using a DVI-equipped TV instead of a TV with an HDMI input. The three settings are YCbCr, RGB NORMAL and RGB ENHANCED.

- Select YCbCr if your TV has an HDMI input.
- Select RGB NORMAL if you are using a TV with a DVI input (with a DVI-to-HDMI adapter). RGB NORMAL outputs the video signals from the HDMI OUTPUT connector with a digital RGB video level (data range) of 16 (black) to 235 (white).
- Select RGB ENHANCED if the black levels do not look correct when using a DVI connection. RGB ENHANCED outputs the video signals with a digital RGB video level (data range) of 0 (black) to 246 (white). These settings are determined by your particular TV; for details, refer to the operating instructions of your TV.



VIDEO OUTPUT

This selects the resolution of the video signals output from the HDMI jack. VIDEO OUTPUT should be set to match your TV's native resolution. The native resolution of most HDMI-equipped TVs is either 720p or 1080i. Refer to the operating instructions of your TV for details on its native resolution. We invite you to experiment with these settings to see which looks best.

Note: If you don't see any picture after selecting a resolution, it may mean that you selected a resolution that is incompatible with your TV. The AUTO setting will allow your D 200 and TV to "talk" to each other and set the appropriate resolution automatically.



SCAN TYPE

This determines if the component video output is interlaced (480i) or progressive scan (480p). Refer to your TV's operating and connection instructions to find out if it is compatible with a progressive scan signal.

Note: If the **HDMI OUTPUT** is turned on the component video output will be forced to the interlaced setting and cannot be changed to progressive scan.

TV DISPLAY

This should be set to match your TV's aspect ratio (screen shape). If your TV has a 4:3 aspect ratio select either 4:3 LETTERBOX or 4:3 PAN-SCAN. If your TV is a "widescreen" TV, select 16:9 WIDE.

- PAN-SCAN is useful for viewing a 16:9 or widescreen DVD on a 4:3 TV. PAN-SCAN automatically trims off the far left and right of the image so that the remaining picture completely fills your 4:3 TV screen.
- 4:3 LETTERBOX preserves the full 16:9 or widescreen picture width, but it leaves black bars at the top and bottom of the screen.

TV SYSTEM

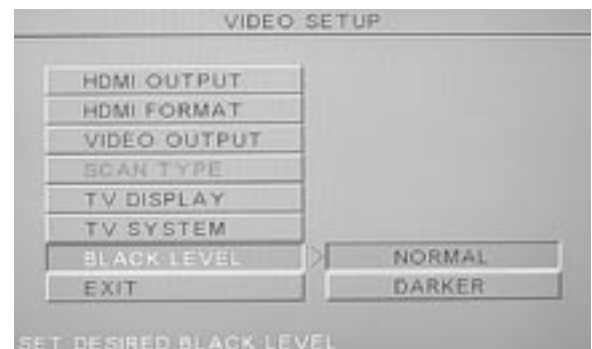
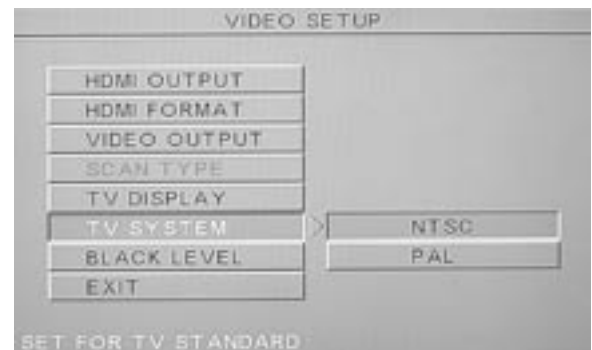
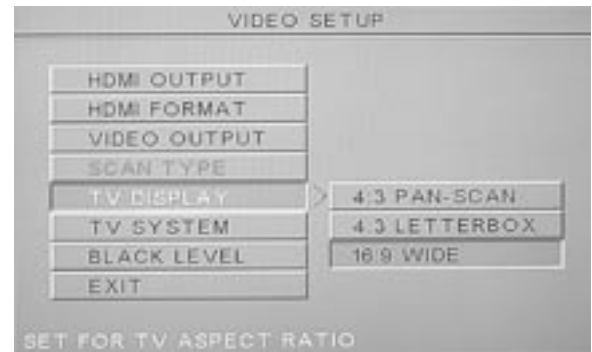
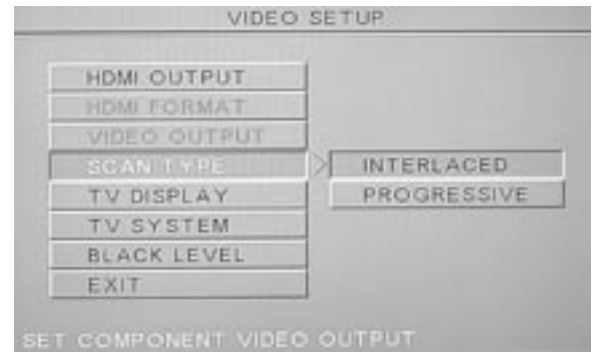
This determines if your D 200 will output an NTSC or a PAL signal. Set the TV SYSTEM according to your geographic location or refer to your TV's owner's manual for the proper setting.

- NTSC is the television broadcast system used in North America and some Asian countries.
- PAL is most commonly used in Europe.

Note: Many newer TVs adjust for NTSC or PAL formats automatically. If you think your D 200 is set to the wrong setting because you cannot see any picture, see the FAQ section on page 29.

BLACK LEVEL

This allows you to select the intensity of the black output by the D 200. Please note that not all TVs are capable of displaying the darker black levels.



AUDIO SETUP MENU

You can skip this Audio Setup (pages 19-21) if you are only using Digital Coax or Optical audio outputs because these settings only affect the analog outputs.

This section will help you set up the audio portion of the D 200. SPEAKER SIZE, DISTANCE SETUP and LEVEL SETUP only affect the Analog Audio 5.1 Channel Outputs. The setup for the Digital Coaxial and Optical outputs is made in the menu of your surround controller or AV receiver. Refer to the owner's manual of your surround sound processor or AV receiver for setting up your system speakers when using the digital outputs of the D 200.

SPEAKER SIZE

This is the first step in the Audio Setup of your D 200; it's used to adapt the D 200 to the number, locations, and types of speakers in your system. The D 200 comes from the factory with all speakers set to SMALL because this applies to the majority of home theater systems.

The SMALL setting is for speakers with limited bass capacity (bass drivers smaller than 6");

To reduce distortion and increase power handling for "small" speakers the D 200 filters out the bass signals and redirects them to the subwoofer channel. This bass diversion takes place at the frequency setting in the SIZE SETUP menu.

The LARGE setting is for larger speakers which can handle low bass without distortion and often when a subwoofer is not used in the system. There is no bass filtering. If you're not sure if you should classify your speakers as "Small" or "Large," watch a few movies scenes at SMALL and again at LARGE to determine which sounds better.

SUBWOOFER

Select YES if your system includes a subwoofer.
Select NO if you're not using a subwoofer.

FRONT L&R

These are the left and right front speakers and may be set to LARGE or SMALL.



CENTER SPEAKER

This may be set to LARGE, SMALL or NONE. Set to LARGE or SMALL, according to the guidelines in the previous paragraphs. Set to NONE if your home theater has no center channel speaker. The D 200 will blend the center channel signals into your front left and right front speakers. This creates a "Phantom" center channel sound image because the center channel sound will appear to come from the middle space between your left and right front speakers, even without an actual center channel speaker.



SURROUND L&R

These are the speakers that are placed at the sides of your room. This may be set to LARGE, SMALL or NONE. Set to LARGE or SMALL, according to the guidelines above. If you select NONE the surround channel signals are blended into the front channels.

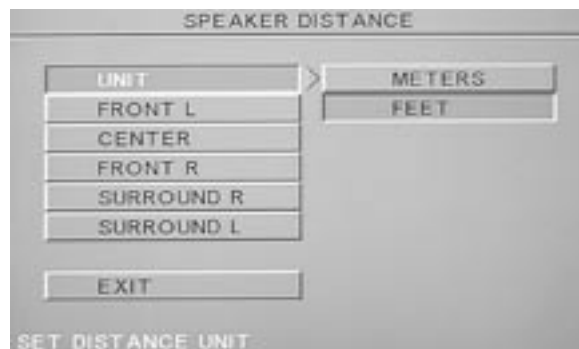
CROSSOVER

This sets the subwoofer bass filter's cutoff frequency from 70 Hz to 120 Hz, in 10 Hz increments and from 120 Hz to 160 Hz, in 20 Hz increments. The optimum setting will depend on your speakers, your sub, and your room's acoustics. The best starting point is 80 Hz. Don't use both the crossover filter in your sub and the Crossover filter in the D 200, or some bass frequencies you want may not be heard at all. If your subwoofer doesn't have a bypass switch for its crossover filter, adjust it to its highest frequency setting to minimize redundant filtering. If your sub has a fixed filter and no bypass, set the D 200 Sub filter to 160 Hz.



DISTANCE SETUP

Use the DISTANCE SETUP menu to calibrate the arrival time for the sound from each speaker. Convincing surround sound depends on the sound reaching your ears from each speaker at the same time as the recording engineer intended. For example, if your front speakers are three feet further from you than your surrounds are, the sound from the front speakers will reach you about 3 milliseconds (0.003 sec.) later than the surrounds and you might hear, say, an echo before the shot itself. To compensate for your speaker placement, your D 200 can delay the sound from the surround speakers by three milliseconds, restoring the correct timing. You can set delays by measuring the distance from each speaker to your head when you're seated in your favorite viewing/listening position and entering it in the DISTANCE SETUP.



Use a measuring tape and note the distance from your primary listening position to each speaker. The D 200 will translate each foot (.34 meters) of distance for a given channel into 1ms (millisecond) of delay. For each speaker, the distance can be set in 1-foot increments from 5 to 30 feet (or 1.5 to 9 meters, if you set the UNITS for METERS).

Note: You cannot set distance for any speakers set to NONE or NO in the SPEAKER SIZE setup page.

LEVEL SETUP

Use the LEVEL SETUP menu to calibrate the volume level for each speaker. Convincing surround sound depends on the sound reaching your ears from each speaker at the same volume level as the recording engineer intended. Because home theater systems and home theater environments vary, the simplest way to do that is to send a standard test signal to each speaker, one at a time, and measure each one's sound level at the primary listening position. You can then adjust each channel's level so that all the sound levels are calibrated to be equal.

Note: These adjustments do not effect the coaxial and optical digital outputs. Only the analog audio outputs are effected.



TEST TONE

Press this button to start the test noise which will cycle from speaker to speaker every few seconds. The current speaker reproducing the test tone is identified at the bottom left corner of the setup screen. As the test tone cycles through each speaker you can adjust each speaker setting so that all speakers will play at the same level.

Note: You cannot set the level for any speakers set to NONE or NO in the SPEAKER SIZE setup page.

You can match speaker levels to each other with reasonable accuracy just by listening to the D 200's test tone. However, you might wish to purchase an inexpensive SPL (sound-pressure-level) meter to make more accurate measurements. Radio Shack makes two popular and inexpensive SPL meters.

To use the SPL meter for level calibration will require both hands. Hold the SPL meter in one hand with its microphone end upright, near where your head would be when you sit in your primary viewing/listening seat. Hold the D 200's remote handset in your other hand; you'll be able to make level calibration adjustments using just your thumb to press its cursor buttons.



AUDIO OUTPUT

In this section you will be able to set up some of your D 200's more advanced audio features.

AUDIO OUT

This sets both the HDMI audio output and the analog audio output together. It does not affect the coaxial and optical digital outputs.

- HDMI AUTO, the D 200 HDMI jack automatically outputs only the number of HDMI audio channels your HDMI TV or surround controller/receiver can decode.
- MULTI CH allows surround sound audio signals to pass through the HDMI and Analog 5.1 Channel output jacks.
- STEREO restricts both HDMI and analog audio outputs to two channel stereo, disabling surround sound.

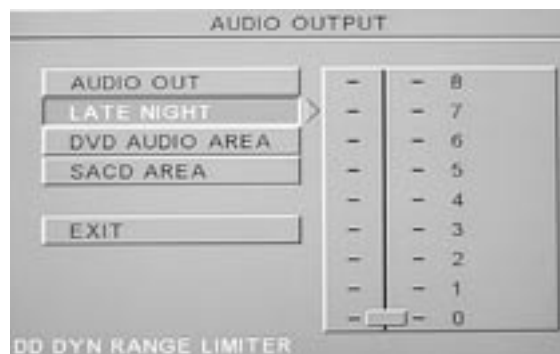
Note: The AUDIO OUT setting does not affect the digital coaxial and optical outputs. The format of the digital signal at the coaxial and optical output jacks is determined solely by the DVD being played and the settings in the DVD disc setup menu.



LATE NIGHT

This is a dynamic range limiter which you can set to restrict the very loud portions of Dolby Digital soundtracks. This operates by making low volume sounds a bit easier to hear while also reducing the volume level of the louder sounds. Selecting LATE NIGHT enables you to hear all of the dialog without awakening your family (or neighbors) when the sound effects get loud. LATE NIGHT can be set from 0 to 8, the higher numbers represent greater limit of dynamic range.

Note: This feature only works with DVD movies recorded in Dolby Digital and it only affects the 5.1 analog and stereo outputs. Your surround receiver or AV receiver will have its own late night adjustment for digital audio signals coming from the D 200's Digital Coaxial or Optical output jacks.



DVD AUDIO AREA

Some DVD Audio discs consist of separate DVD-Video and DVD-Audio content (areas) on a single disc. You can select the desired area to be played by selecting the DVD AUDIO or DVD VIDEO AREA. Please note that if the disc does not contain separate Video and Audio sections, the available section will be played regardless of the DVD AUDIO AREA setting.

SACD AREA

Some SACDs consist of two channel and multi-channel audio areas on a single disc. In addition, "hybrid SACDs" consist of both high-resolution SACD material and standard CD-resolution material on a single disc. You can select the desired area to be played by selecting the MULTICHANNEL, 2CHANNEL or CD AREA. You can also select the desired SACD disc area by pressing the SACD button on the remote handset.

Note: An SACD cannot play if you selected an SACD area which it does not contain. If the disc won't play, the D 200 front panel will show NO MULTI CH. In this case you must select the appropriate SACD AREA in the setup menu or by pressing the SACD button on the remote handset.



LANGUAGE SETUP

Your D 200 is set at the factory to play movies in English. If you prefer your DVD movies to default to a language other than English this section will help you make those settings.

Note: If a DVD was not recorded with your selected language a default language will be used.

AUDIO will set the default audio track language for your DVD movies.

SUBTITLE will set the default subtitle language for your DVD movies.

DISC MENUS will set the default DVD movie menu language.



Setting up Other languages not listed

If the language you desire is not listed you can select the OTHER menu option and enter the 4-digit language code. Please refer to the "DVD Language Code List" on page 32 to find the code for your preferred language. Enter the 4-digit code by using the numeric buttons on the remote handset, then press the ENTER button. When the code is input correctly the main Language Setup page will be displayed. If you input an invalid code, INVALID LANGUAGE CODE is displayed. In this case check your language code and re-enter it.

OTHER SETUP

The OTHER SETUP page contains a number of setup options to help you get the most from your D 3. These settings are not required for basic operation, and you may prefer to make these settings later, or not at all.



ANGLE MARKER

Some DVDs contain scenes which have been shot simultaneously from multiple camera angles. The ANGLE MARKER setting determines if the angle symbol "◻" is displayed when an alternate viewing angle is available. The same scene can be viewed from each of these different angles in DVDs that include these special features. The recorded angles differ depending on the disc used. During playback of the scene which was recorded from multiple camera angles, press the ANGLE button on the remote handset if you see the angle symbol "◻" on your TV. You will never see this symbol if the ANGLE MARKER option is set to NO.

SCREEN SAVER

Some TVs may have an image "burned" into its screen if a static picture is displayed continuously for a long time in the stop or pause mode. To prevent this, set the SCREEN SAVER to ON. With the screen saver on, the D 200 will automatically activate the screen saver function if a static picture is displayed for over 5 minutes. Please note that "burn in" is most common on CRT and Plasma TVs and therefore the screen saver should always be turned on with these TV types.

PARENTAL

This feature is used to restrict playback of DVD movies that contain scenes with language or violence that are inappropriate for young people. Set the PARENTAL level to the rating you wish to allow others to view on your D 200. Discs with ratings that exceed the PARENTAL setting will not be playable.

PASSWORD

This allows the default password to be changed to something you can more easily remember. The D 200 comes from the factory with the password set to "3308." If you forget your password enter the code 3308, then change the password to a new one. Make a note of the new password in a secure location.

MOMENTARY OSD

This determines if the OSD (On Screen Display) appears on your TV screen when changing DVD chapters, pausing, etc. Turn the MOMENTARY OSD to OFF if you do not want your D 200 to display any status information on your TV.

BACKGROUND

This allows you to select the background color on your TV screen when playing CDs and when the D 200 is stopped. The options are BLUE, BLACK and LOGO. LOGO is the Parasound logo screen.

RESTORE DEFAULT?

If you select this, it will cancel all of your menu settings and return your D 200 to the original factory default settings. You will lose all the settings you have made.

ADVANCED VIDEO

This section of the setup menu allows you to fine-tune the colors and picture characteristics of your D 200 to compensate for the characteristics of your particular TV, as well as the brightness and color of your room. There are two sub-menus on the ADVANCED VIDEO setup page, CUSTOM VIDEO SETUP and PRESET SELECT. We do not recommend experimenting with these advanced video adjustments unless you are unsatisfied with the picture quality.

Note: The easiest way to make these adjustments is to first start a movie playing. Now press the **STOP button** only once and then the **SETUP button**. Make your video adjustments, exit the SETUP MENU and then press the **PLAY button**. The movie will resume from the same location making it easy to see how the picture has changed.

CUSTOM VIDEO SETUP

On this menu page you will be able to make adjustments to many different picture parameters. After you have completed making these adjustments, go to the PRESET SELECT setup page and select the USER preset. If you don't do this your custom video setup adjustments will not take effect.



BRIGHTNESS

This sets the brightness of the image within the range of -6 to 6.

CONTRAST

This adjusts the difference between light and dark of the image within the range of -6 to +6. Dark colors will become darker and light colors will become lighter.

HUE

This adjusts the balance between green and red within the range of Green 6 to Red 6. The easiest way to adjust HUE is to adjust it for the most natural skin tones.



SHARPNESS M (middle)

This adjusts the sharpness of the image in the middle band of video frequencies, within the range of -6 to +6. Its effects are very subtle and might not be visible with many DVDs.

SHARPNESS H (high)

This adjusts the sharpness of the image in the high band of video frequencies within the range of -6 to +6. Its effects are very subtle and might not be visible with many DVDs.

CCS

This stands for Cross Color Suppression and allows you to remove the cross color artifacts in the video signal due to poor Y/C separation present in some DVD video recordings.

CHROMA LEVEL

This allows the adjustment of the overall color intensity. This is also known as color saturation. CHROMA LEVEL can be set from -6 to +6.

CHROMA DELAY

This adjusts the delay between the video brightness signal and the video color signal information of an image. If the luminance (Y) connecting cable is significantly longer than the chroma (C) cable the luma information will arrive later than the chroma information, causing poor picture quality. CHROMA DELAY can be adjusted from -2 to +2.

ENHANCE V (vertical)

The vertical enhancer will enhance the vertical transitions in the luma, sharpening the vertical detail to produce a more lifelike picture. This can be adjusted in a range of 0 to 11. Its effects are very subtle and might not be visible with many DVDs.

ENHANCE H (horizontal)

The horizontal enhancer will enhance the horizontal luma, and horizontal chroma, sharpening the horizontal details. This can be adjusted in a range of 0 to 11. Its effects are very subtle and might not be visible with many DVDs.

DIGITAL NR (Noise Reduction)

This feature can help remove noise from the picture, resulting in a cleaner image without "snow." The settings are OFF, AUTO, LOW, MID and HIGH. We encourage you to experiment with the settings. In many cases the image quality will be clear enough without Digital NR.

DEFAULT?

This will reset all of the settings under the CUSTOM VIDEO SETUP to the factory defaults.

Note: Don't forget to select the USER option on the PRESET SELECT setup page or your custom video adjustments will not take effect.

PRESET SELECT

On this setup page you can select 5 different video "presets." Each preset will have a slightly different effect on your image. Based on your TV and your personal preference you may wish to experiment with these different settings.

NONE

This maintains the factory default settings. This is equivalent to setting all of the adjustments on the CUSTOM VIDEO SETUP page to 0.

EASY VIEW

This makes the picture bright, but slightly more diffused, with softer edges.

FILM-LIKE

This gives a movie film character to the picture.

MOST VIVID

This makes shapes and colors stand out boldly with the most contrast; it is especially enjoyable for sporting events.

USER

This will activate the settings made on the CUSTOM VIDEO SETUP page.



This section will help familiarize you with some of the more advanced features on your D 200's remote control handset. All of the following features are operated by the remote handset.

DIMMER (DIM)

Pressing this button changes the brightness of the front panel display.

DISPLAY

Pressing this button changes what disc information is displayed on your TV.

SEARCH

Pressing this button allows you to quickly jump to a specific chapter or time on a disc. Press the SEARCH button once and then enter the desired chapter number. Press the SEARCH button twice and then enter the desired time.

MARKER

Pressing this button allows you to mark a desired scene/frame and then quickly jump back to it at any time. To mark a location on a disc, press the MARKER button then press the up or down cursor buttons to select a marker number, then press the ENTER button. That location has now been stored. To recall a "marked" location on a disc, press the MARKER button then the right cursor button, then press up or down to select the marker number you wish to recall, then press the ENTER button. The movie will now jump to the scene you previously marked. It is possible to store up to 14 markers.

REPEAT

Pressing this button allows you to play a current title, group, chapter, folder (MP3 or JPG) track or file (MP3 or JPG) repeatedly. Each press of the REPEAT button engages a different repeat mode.

- DVD repeat modes are: CHAPTER REPEAT, TITLE REPEAT and REPEAT OFF.
- CD and SACD repeat modes are:
TRACK REPEAT, ENTIRE DISC REPEAT and REPEAT OFF.
- DATA file (MP3, WMA and JPG) repeat modes are:
ONE FILE REPEAT, FOLDER REPEAT, NORMAL DISC PLAYBACK,
DISC REPEAT, NORMAL SINGLE FILE PLAYBACK and
NORMAL FOLDER PLAYBACK.

REPEAT A/B

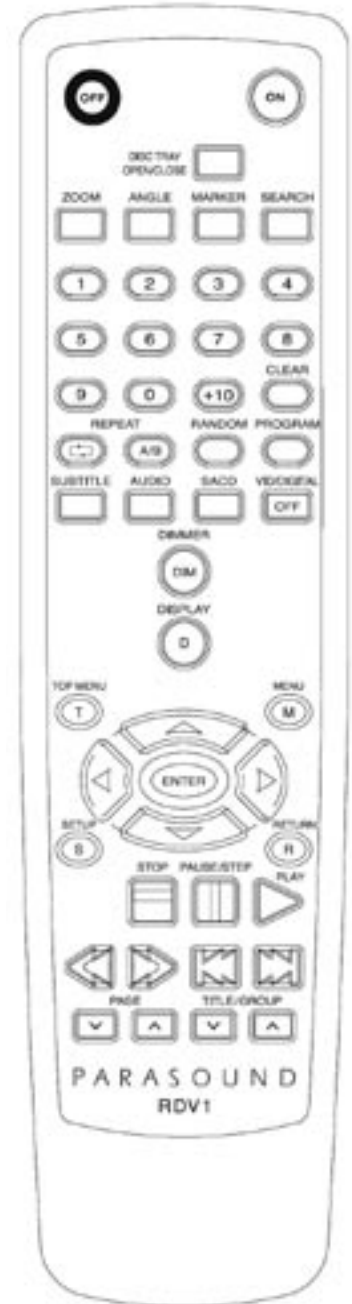
This button allows a specific section of a disc to be continuously repeated. During playback, at the beginning of the part you want to repeat, press the REPEAT A/B button. Then press the REPEAT A/B button at the end of the section you want to repeat. To return to normal playback, press the REPEAT A/B button repeatedly until A TO B CANCELLED is displayed.

PROGRAM

Pressing this button enables up to 25 audio tracks to be programmed in any desired order. Press the PROGRAM button then the track numbers in the order you wish to play them. When you have entered the last track number press the ENTER button. To cancel the program mode press the STOP button then the PROGRAM button.

RANDOM

Press this button to enable the D 200 to play tracks of audio discs in a random order.



AUDIO

Press this button to cycle through the available audio tracks of a DVD movie. These audio tracks might include different languages and different surround sound formats.

SUBTITLE

Press this button to cycle through the available subtitles of a DVD movie.

ZOOM

Press this button to zoom in to enlarge the picture of a DVD movie. When zoomed in you can use the right, left, up, down buttons to see different parts of the image.

ANGLE

Press this button to display alternate viewing angles of a movie scene on DVDs which contain scenes that have been shot simultaneously from multiple camera angles. For the few DVDs that include these special features the same scene can be viewed from each of these different angles. During playback of the scene recorded with multiple camera angles, press the ANGLE button on the remote handset if you see the angle symbol "⏏" on your TV. You will never see this symbol if the ANGLE MARKER option in the D 200 Setup menu is set to NO or if the DVD you are playing does not include this option. DVDs with the viewing angle feature are uncommon.

SACD

Press this button to select the different areas or "layers" of an SACD disc. Some SACDs consist of two channel and multi-channel audio on the same disc. Hybrid SACD discs also include a CD layer so it can be played on any CD player. The different SACD layers can only be selected when an SACD disc is in the tray and the D 200 is stopped. Pressing the SACD button will override the setting for SACD AREA in the AUDIO SETUP menu.

VID/DIGITAL OFF

Turning off all the video and digital audio related circuits helps to eliminate audible interference when playing audio-only discs. Pressing the VID/DIGITAL OFF button once will turn off the D 200's video circuits. PURE DIGITAL will be displayed on the front panel. Pressing the VID/DIGITAL OFF button a second time will turn off both the Video and Digital audio circuits. PURE ANALOG will be displayed on the front panel. Pressing this button a third time turns on the video and digital audio circuit.

MENU

Press this button to view the main menu of a DVD disc. Press this button at any time a DVD is playing to see the DVD's main menu.

TOP MENU

This button is for use only with special DVDs that contain more than one title (movie) on a single disc. These DVDs are uncommon.

SETUP

Press this button to view the D 200's on-screen SETUP MENU. The player must be at a full stop (press stop twice) to enter the SETUP MENU or some of the settings will be grayed-out and can not be changed.

RETURN

This feature is helpful when navigating the D 200's SETUP MENU. Pressing the RETURN button will take you back one level in the setup menu.

PAGE & TITLE/GROUP

Press these buttons to navigate special DVDs that have multiple titles and pages on a single disc. These DVDs are uncommon.

Why does the image look stretched or squished?

The setting for TV DISPLAY might not be set correctly in the VIDEO SETUP menu. Set TV DISPLAY in the VIDEO SETUP menu for the correct shape of your TV's screen. See page 18 for information on setting TV DISPLAY.

Why can't I turn on Progressive Scan?

Progressive scan is not possible while the HDMI output is turned on. Turn the HDMI output off in the VIDEO SETUP menu and then turn progressive scan on.

I am using the D 200 with an HDMI-to-DVI adapter and the image is scrambled or is not visible at all.

Many earlier model TVs with DVI inputs will not operate with the D 200's HDMI output because they are not HDCP-compliant (digital copyright protection). Review your TV's owner's manual or contact your dealer if you are not sure if your TV is HDCP-compliant.

I cannot hear the dialog in movies while using the stereo analog audio outputs. How do I get the dialog through the Left and Right output jacks?

In order to get the dialog through the stereo outputs you must select NONE for the center speaker in the SPEAKER SIZE setup menu.

SACD discs will not play and the TV shows "NO MULTI CH".

This will occur when you are trying to play a stereo SACD and the D 200 is setup for Multi-channel SACD playback. In this case you must select 2CHANNEL for the SACD area in the setup menu or by pressing the SACD button on the remote handset.

I cannot see any picture on the TV and the front panel of the D 200 shows "PURE DIGITAL" or "PURE ANALOG".

The video circuits of the D 200 have been turned off. Press the front panel or remote control button labeled Vid/Digital until PURE ANALOG and PURE DIGITAL are no longer displayed. The video circuits are now turned on.

Colors are not correct or skin tones do not look realistic.

Reset the PRESET SELECT under the CUSTOM VIDEO SETUP to NONE. If colors still do not look correct you should check the color adjustments of your TV. For more information see your TV's instructions.

I think the D 200 is set for PAL and I need NTSC because the picture is scrambled or distorted. How do I change this to NTSC without being able to see the setup menu?

- If there is a disc in the D 200, remove it.
- Press the OFF button to turn the D 200 OFF.
- Press the ON button to turn the D 200 on again.
- Press these remote control buttons:
SETUP – ENTER – ▲ – ▲ – ▲ – ► – ▲ – ENTER.

The D 200 will now be set for NTSC operation.

Note: The "►" symbol refers to the right cursor button, not the PLAY button.

There is no picture using the HDMI output.***How do I turn it on without being able to see the setup menu?***

- If there is a disc in the D 200, remove it.
- Turn the D 200 Off and then back On
- On the remote control press:

SETUP – ENTER – ► – ▼ – ENTER.

The HDMI output should now be turned on and HDMI should be displayed on the D 200's front panel.

Note: The "►" symbol refers to the right cursor button, not the PLAY button.

Why is "HDMI" flashing on the front panel?

HDMI flashes when an HDMI cable is not connected between the D 200 and an HDMI TV. If you are not using the HDMI output turn HDMI off in the VIDEO SETUP menu and it will stop flashing.

How long can the HDMI cable be from the D 200 to my TV?

The maximum HDMI cable distance will vary significantly between cable brands. Not all brands are HDMI-certified and some may use inferior materials, making long runs impossible. When an HDMI cable run is too long you may see pixels dropping out (snow over the picture) or the picture may be completely blank. We have tested the D 200 with cable runs of over 50 feet (16.5 Meters) with some cable brands. If you need to go a longer distance we strongly recommend the HDMI-certified Parasound Zhd five input switcher. You can find details on the Zhd at www.parasound.com.

What is HDCP?

HDCP (High-bandwidth Digital Content Protection) is a technology used with DVI and HDMI to prevent unauthorized duplication of digital video and audio content. HDCP compliance is required on all HDMI equipment and is an option with DVI equipment. Your TV must have HDCP or you will not be able to use the D 200's HDMI output.

Call your Parasound dealer first. If your dealer can't help you with your problem we encourage you to call Parasound's Technical Service Department, toll-free at **1-866-770-8324**, Monday - Friday, 8am - 4pm Pacific time. We can suggest other diagnostic tests you can easily perform. If we determine that your Model D 200 should be returned to Parasound or an Authorized Parasound Warranty Center for inspection and possible servicing, we will provide the location of a warranty center near you or shipping instructions and a Return Authorization number for its return to Parasound.

Before You Return Any Unit to Parasound for Service

Before you send your unit to Parasound, you will need to obtain a specific Return Authorization (RA) number and shipping instructions for the D 200 and all of its accessories from Parasound's Technical Department. The RA number must be clearly marked on the outer carton. Use the original factory packing materials and arrange adequate insurance to cover its value. You must include a copy of your purchase receipt, since this document establishes the validity of this unit's warranty. Warranty repairs are only performed by Parasound or Parasound Authorized warranty centers when your purchase receipt is from a Parasound Authorized Dealer or Parasound Authorized Reseller.

Units Will Be Refused by Parasound Under the Following Conditions

1. Unit was sent without the Parasound-assigned RA number marked on the carton.
2. Unit was sent in an unsuitable shipping carton, likely to have been damaged in transit.
3. Unit has inadequate packing, unit likely to have been damaged in transit.
4. Unit was shipped collect for shipping charges. We do not accept collect shipments.
5. Unit was shipped via the US Postal Service.
6. Unit was sent to an address other than the address instructed by our Technical Department.

Note: The shipping address is not the same as Parasound's office address.

Warranty Repair

Read your accompanying Parasound Limited Warranty carefully to understand the applicable rights and limitations. This section provides instructions for obtaining repairs, both for units covered under the Parasound Limited Warranty and for units or situations which are outside the Warranty.

Note: The D 200 warranty period is shorter than the Parasound Limited Warranty for other models.

Unit is not eligible for repair under the terms of the Parasound warranty if:

1. Unit was not purchased from a Parasound Authorized Dealer or Parasound Authorized Reseller.
2. You are not the original owner. The warranty is not transferable.
3. Unit's serial number was removed, modified, or defaced.
4. Unit shows evidence of abuse and/or misuse.
5. Unit was modified in any way.
6. A prior repair was attempted by an unauthorized repair station.

Licensing Patent Acknowledgements

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DVD Language Code List

Code	Language	Code	Language	Code	Language	Code	Language
1027	Afar	1186	Scots Gaelic	1350	Malayalam	1513	Siswati
1028	Abkhazian	1194	Galician	1352	Mongolian	1514	Sesotho
1032	Afrikaans	1196	Guarani	1353	Moldavian	1515	Sundanese
1039	Amharic	1203	Gujarati	1356	Marathi	1516	Swedish
1044	Arabic	1209	Hausa	1357	Malayalam	1517	Swahili
1045	Assamese	1217	Hindi	1358	Maltese	1521	Tamil
1051	Aymara	1226	Croatian	1363	Burmese	1525	Tegulu
1052	Azerbaijani	1229	Hungarian	1365	Nauru	1527	Tajik
1053	Bashkir	1233	Armenian	1369	Nepali	1528	Thai
1057	Byelorussian	1235	Interlingua	1376	Dutch	1529	Tigrinya
1059	Bulgarian	1239	Interlingue	1379	Norwegian	1531	Turkmen
1060	Bihari	1245	Inupiak	1393	Occitan	1532	Tagalog
1061	Bislama	1248	Indonesian	1403	(Afan) Oromo	1534	Setswana
1066	Bengali ; Bangla	1253	Icelandic	1408	Oriya	1535	Tonga
1067	Tibetan	1254	Italian	1417	Punjabi	1538	Turkish
1070	Breton	1257	Hebrew	1428	Polish	1539	Tsonga
1079	Catalan	1261	Japanese	1435	Pashto ; Pushto	1540	Tatar
1093	Corsican	1269	Yiddish	1436	Portuguese	1543	Twi
1097	Czech	1283	Javanese	1463	Quechua	1557	Ukrainian
1103	Welsh	1287	Georgian	1481	Rhaeto-Romance	1564	Urdu
1105	Danish	1297	Kazakh	1482	Kirundi	1572	Uzbek
1109	German	1298	Greenlandic	1483	Romanian	1581	Vietnamese
1130	Bhutani	1299	Cambodian	1489	Russian	1587	Volapük
1142	Greek	1300	Kannada	1491	Kinyarwanda	1613	Wolof
1144	English	1301	Korean	1495	Sanskrit	1632	Xhosa
1145	Esperanto	1305	Kashmiri	1498	Sindhi	1665	Yoruba
1149	Spanish	1307	Kurdish	1501	Sangro	1684	Chinese
1150	Estonian	1311	Kirghiz	1502	Serbo-Croatian	1697	Zulu
1151	Basque	1313	Latin	1503	Singhalese		
1157	Persian	1326	Lingala	1505	Slovak		
1165	Finnish	1327	Laothian	1506	Slovenian		
1166	Fiji	1332	Lithuanian	1507	Samoan		
1171	Faeroese	1334	Latvian ; Lettish	1508	Shona		
1174	French	1345	Malagasy	1509	Somali		
1181	Frisian	1347	Maori	1511	Albanian		
1183	Irish	1349	Macedonian	1512	Serbian		

Audio Specifications

Frequency Response

Sampling Frequency 192 kHz, DVD-A	4 Hz - 88 kHz
Sampling Frequency 96 kHz, DVD	4 Hz - 44 kHz
Sampling Frequency 48 kHz, DVD	4 Hz - 22 kHz
Sampling Frequency 44.1 kHz, CD	4 Hz - 20 kHz
SACD	2 Hz - 100 kHz

Dynamic Range

DVD (48 kHz, 24 bit)	104 dB
SACD	108 dB
Audio CD	100 dB

Distortion and S/N

Signal-to-Noise Ratio, IHF "A" weighted	100 dB
Total harmonic distortion, 1 kHz	0.003 %
Wow and flutter	< 0.002 %

Output Levels

Analog output level, 10 k Ω	2.0 V
Coaxial, 75 Ω	0.5 Vp-p
Optical, 660 nm	-21dBm – -15dBm

Audio Digital-to-Analog Converters

192 kHz / 24-Bit

Video Specifications

General Video

Video Compression	MPEG 2
Video Signal Format	NTSC / PAL
HDMI Spec	1.1 with HDCP

Output Levels, 75 Ω

Composite	1.0 Vp-p
S-Video:	Y/C 1.0 / 0.286 Vp-p
Component: Y / Pb / Pr	1.0 / 0.7 / 0.7 Vp-p

Video Digital-to-Analog Converters

216 MHz / 12-Bit

General Information

Dimensions

Front Panel Width: 17 1/4" (437 mm)
Front Panel Height: 5 1/4" (133 mm)
Height with feet: 5 7/8" (150 mm)
Depth: 15" (381 mm)

Power Requirements

100 V to 240 V AC, 50/60 Hz, 30 watts

Net Weight

15.75 lb. (7.1 kg)

Shipping Weight

23.75 lb. (10.7 kg)

Note: Features and specifications subject to change without notice.

We invite you to visit www.parasound.com for the most up-to-date information on your unit and to find out about other Parasound products. Learn why Parasound has been a quality and value favorite of magazine reviewers, sound professionals and listeners like you since we were founded in 1981.



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