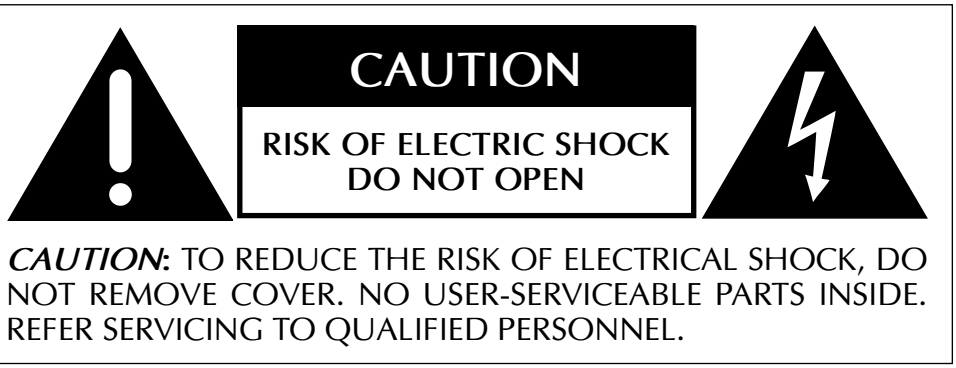
CLASSE

Owner's Manual
CDP-502
Reference Disc Player

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



NOTICE

All of us at Classé take extreme care to ensure that your purchase will remain a prized investment. We are proud to inform you that all Classé components have been officially approved for the European Community (CE) mark.

This means that your Classé product was subjected to the most rigorous manufacturing and safety tests in the world. The CE mark certifies that your purchase meets or exceeds all European Community requirements for unit-to-unit consistency and consumer safety.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna;
- Increase the separation between the equipment and the receiver;
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected;
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate the equipment.

This product incorporates copyright protection technology that is protected by U.S. patents ad other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

The information contained in the manual is subject to change without notice. The most current version of this manual will be posted on our web site at http://www.classeaudio.com.

Marking by the "CE" symbol (shown left) indicates compliance of this device with the EMC (Electromagnetic Compatibility) and LVD (Low Voltage Directive) standards of the European Community.

Classe products are designed to comply with international directives on the Restriction of Hazardous Substances (RoHS) in electrical and electronic equipment and the disposal of Waste Electrical and Electronic Equipment (WEEE). The crossed wheelie bin symbol indicates compliance and that the products must be appropriately recycled or processed in accordance with these directives.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Please record the serial number for your new Classé component here for future reference.

Serial #: _____

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12.  Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Do not expose this apparatus to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the apparatus.
16. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from the AC receptacle.
17. The mains plug of the power supply cord shall remain readily operable.
18. Do not expose batteries to excessive heat such as sunshine, fire or the like.

 The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage " within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

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

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

Contents

Welcome to the Classé family

Congratulations on your purchase of a Classé product. It is the result of many years of continuous refinement, and we are sure that you will enjoy it for many years to come.

We value our relationship with our customers. Please allow us to stay in touch with you by returning your warranty card now, before you pack up the shipping carton of your new product and forget all about it. Doing so will enable us to let you know about any possible future upgrades or updates that might become available for your Classé component.

Sending in your warranty card also registers your product with us so that warranty service can be obtained easily and quickly, even if you have mislaid your original sales slip. You will find the warranty registration card at the end of the separate warranty policy booklet, enclosed. Alternatively, you may register your purchase online at www.classeaudio.com

Please take a few minutes to register online or fill out the warranty registration card and drop it in the mail.

a word about installation

Every effort has been made to make the Classé CDP-502 simple and straightforward to install and use.

Still, we have no way to evaluate other variables such as the size and shape of your room, its acoustics, and the associated equipment you have chosen to use with your disc player. All of these factors influence the ultimate performance of your system.

For this reason, we strongly encourage you to have your system installed and calibrated by your dealer, whose experience, training, and specialized equipment can make a profound difference in the final performance of the system.

Unpacking and Placement

unpacking your player

Carefully unpack your disc player according to the supplied instructions, and remove all accessories from the carton.

Important!

Keep all packing materials for future transport of your Classé product. Shipping your new component in anything other than its purpose-designed packing material may result in damage that is not covered by the warranty.

placement

The CDP-502 has been designed to operate optimally on any stable and level surface. Incorporating vibration damping within the CDP-502's feet and CD/DVD Drive Assembly, a high level of isolation from external disturbances is incorporated.

As with any digital component, it is best to place the CDP-502 somewhat apart from your most sensitive analog electronics, particularly turntables and preamplifiers. Generally, placing it on its own shelf should suffice.

Note that adequate clearance for the AC cord and connecting cables must be left behind the CDP-502. We suggest leaving eight inches (20 cm) of free space behind your disc player to allow all cables sufficient room to bend without crimping or undue strain.

Classé recommends that the unit not be placed directly on the top surface of a power amplifier (or any other heat source).

ventilation

Your Classé disc player generates a certain amount of heat in the course of normal operation. Be sure to allow three inches of clearance above it and three inches to each side to allow heat dissipation through air circulation. Avoid placement on soft surfaces that would restrict airflow (such as plush carpeting).

custom installations

Drawings are included in this manual to facilitate special installations and custom cabinetry (see the section Dimensions). An optional, purpose-designed rack mount kit is available for this product. Contact your Classé dealer for more information.

serial number

The serial number for your disc player is found on the rear of the unit. Please note and record this number on the page entitled Important Safety Instructions for your future reference.

register your purchase!

Having found the serial number, now would be a good time to fill out the registration card. Please register your purchase so we can advise you of updates and other items of interest.

It will take only a minute or so. Please complete the card or register online now, before you forget.

operating voltage

The CDP-502 disc player is set at the factory (internally) for 100V, 120V, 220V, 230V, or 240V AC mains operation, as appropriate for the country in which it is to be sold. (230V only in European Union countries, in compliance with CE regulations.) The voltage setting may not be changed by the user.

Make sure that the label on the rear panel of your disc player indicates the correct AC operating voltage for your location. Attempting to operate your DVD player at an incorrect voltage may damage the unit.

Warning:

The voltage setting of your disc player may not be changed by the user. There are no user-serviceable parts within the unit. Please refer any problems to an authorized Classé service center.

If the AC mains voltage indicated on your disc player is incorrect, please contact your local authorized Classé dealer or distributor.

The CDP-502 includes protection circuitry that will prevent the player from operating at dangerously high or low voltages.

- **At startup:** the AC mains voltage must be within a range of approximately -15% to +10% of its nominal value at startup, or the player will not turn on. For example, a 120V unit requires the AC mains to be between approximately 95V–135V in order to turn on.
- **Overvoltage during operation:** if the AC mains voltage surges by roughly 10% or more during operation, the player will enter protection mode and shut down. The standby LED (Light-Emitting Diode) will flash to indicate the protection mode has been engaged. An error message will be displayed on the LCD touchscreen.
- **Under-voltage during operation:** if the AC mains voltage sags by 15% or more, the player will continue to play (since this does not present a particular danger to the player), but note that it may not be able to achieve its usual standard of performance under these compromised conditions. The **Standby LED** will flash to indicate the condition.

warm up/break-in period

Your new Classé disc player will deliver outstanding performance immediately. However, you should expect to hear it improve somewhat as it reaches its normal operating temperatures and its various components "break-in." It has been our experience that the greatest changes occur within the first 300 hours, as the player reaches thermal equilibrium and the capacitors fully form. After this initial break-in period, the performance of your new product should remain quite consistent for years to come.

The only exception to this rule is if the unit is placed in standby or unplugged for an extended period of time, allowing it to cool down. Depending on the degree of cooling involved, you should expect a brief warm-up period before the sound quality is at its best. Unless your player was allowed to become quite chilled, subsequent thermal re-stabilization should not take long. Fortunately, you should never have to repeat the initial 300 hour break-in period.

please read this manual…

Please take a few minutes to review this manual, and to familiarize yourself with your new player. We understand that you are anxious to plug everything in and get started. However, reading this manual and following the advice it gives will ensure that you get all the benefits you deserve from having purchased such a fine piece of equipment.

Special Design Features

flexible GUI

The LCD touchscreen on the front panel of your new component supports an extremely flexible and versatile graphical user interface (GUI) while maintaining a clean, uncluttered appearance. The CDP-502 provides a range of controls that might otherwise require dozens of buttons and knobs on the front panel. Despite this power and flexibility, it remains simple to operate in day-to-day use.

highly refined circuit design

Classé products are designed to deliver consistent, state-of-the-art performance over many years of use. With this in mind, our engineers have developed electronic circuitry that offers both exceptional performance and stability in equal measure.

Starting with innovative circuit designs, we engineer them to optimum levels by applying meticulous attention to detail at all phases of the design and component selection process. By measuring, listening and viewing in an interactive manner we conclude whether our design goals have been met.

Finally, our designs are subjected to extensive testing to ensure longevity, reliability, and stability.

extensive listening tests

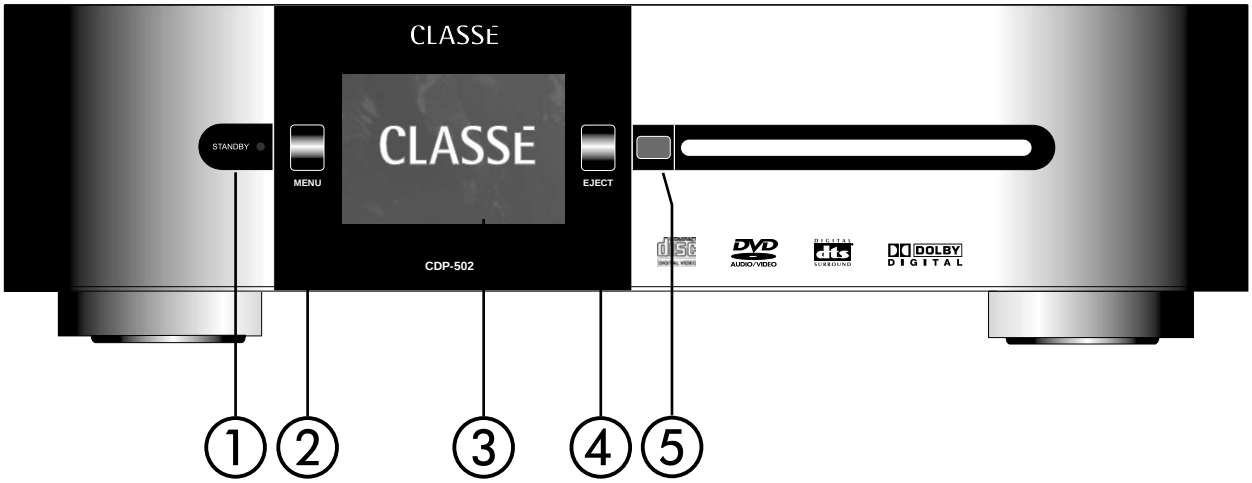
Throughout the development phase, perhaps the most important testing of all is listening and viewing our work. Subjective listening is highly valued at Classé, as striking a balance between products that both measure exceptionally and sound fabulous is our aim. We take the same approach with video, wherein sophisticated video measuring equipment is used in conjunction with subjective viewing.

extraordinary longevity

Another benefit of having worked with highly refined circuit designs so extensively over many years is that we have vast experience in what works well over the long term.

By using only the highest quality parts to begin with, and then using them in an informed way as a result of both accelerated aging experiments and actual long-term experience, we are able to design and manufacture products which we are confident will stand the test of time.

We are confident that your new Classé disc player will give you many years of trouble-free reliability and musical enjoyment, just as previous Classé products have given their owners.



Front Panel

1 Standby button & LED indicator

The front panel **Standby** button will toggle the player between its fully operational status and a *standby* mode that leaves the player off, yet ready to respond to system commands via any of the supported control options (e.g. IR input, DC trigger, CAN-Bus, or RS-232).

The current state of the player is indicated by the LED on the **Standby** button on the front panel. When the unit is powered and switched on, this LED indicates the following:

- On = *standby*
- Flashing *(on power-up)* = *initialization*
- Off = *operate*
- Flashing *(after power-up)* = *AC mains voltage out of range*

If you are not going to use the player for an extended period of time, e.g. vacation or other travel, we suggest you disconnect it from the AC mains. Please be certain that the player is in standby prior to disconnecting it from the AC mains.

Also, it is a good practice to physically disconnect any and all valuable electronics from the AC mains during electrical storms, as a lightning strike anywhere near your home can put a tremendous surge on the AC mains that will easily jump across a simple power switch. The resulting surge (which may be many thousands of volts) can damage any piece of electronics, no matter how well designed and protected. The best protection in the case of severe electrical storms is simply to remove the electronics from any connection with the power grid.

2 Menu button

Pressing the front panel **Menu** button will call up the menu system, replacing the normal status display in the LCD touchscreen of the CDP-502.

3 LCD touchscreen

Most of your interaction with the CDP-502 will be with the front panel **LCD touchscreen** (and with the CDP-502's supplied remote control). It will usually display the information you are accustomed to seeing on the front of most CD and DVD players (track number, time, etc.), as well as the basic transport controls. In addition, the touchscreen can be used to preview videos you may be "cueing up" for friends or family, and to navigate DVD-Audio discs' menu systems without the distraction of having to turn on your main video display.

By pressing the **Menu** button, you can also call up the menu system of the CDP-502, which gives you control over many of the operational details of the disc player, including system setup options, various *display* options (including the *language* in which the menu system itself displays), and several custom-installation capabilities that allow superior integration of the CDP-502 into complex systems.

For more information, see the section *The Menu System* later in this manual.

4 Eject button

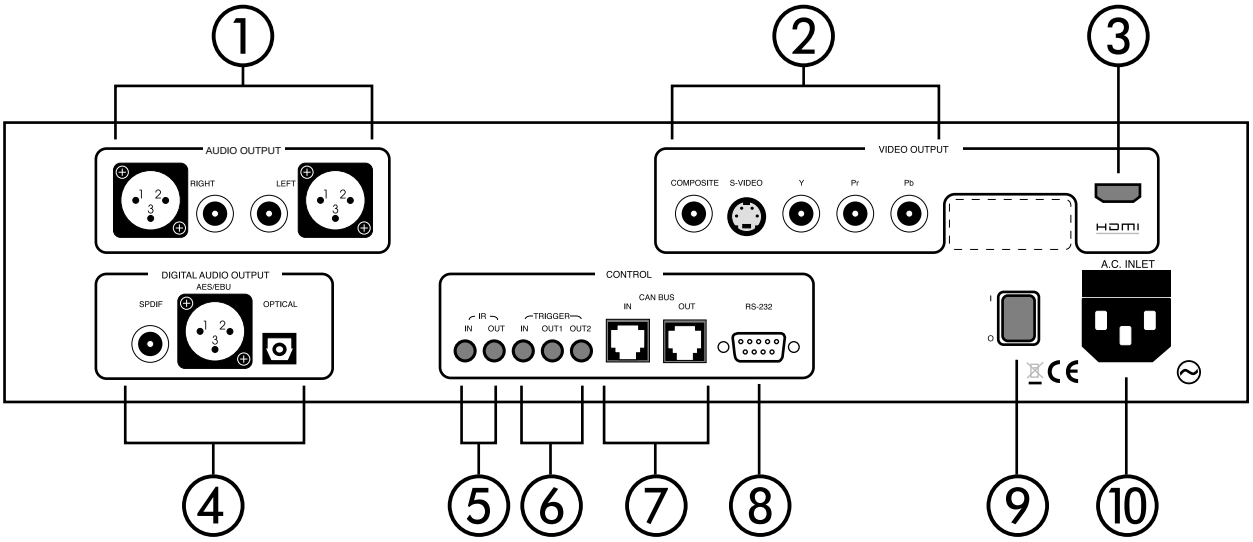
The front panel **Eject** button operates the slot-loading mechanism of the CDP-502. It will eject a loaded disc. There may be a short delay prior to ejection whilst a disc is playing, in order to give the disc time to come to a stop.

A blue light illuminates the slot when there is no disc loaded.

5 IR window

The **infrared** (IR) **receiver** and **transmitter** are located behind this window. Ordinarily, your Classé CDP-502 must be able to "see" the remote control from this window in order to respond to remote control commands.

If your disc player will be located behind closed doors, or for any other reason will not be able to "see" the remote control during normal operation, you may use the rear panel **IR input** and **output** mini-jacks and an *IR repeater system* to solve the problem. For more information about using an infrared repeater system to route signals to and from the CDP-502, refer to the section *Rear Panel* later in this manual, or contact your local Classé dealer.



Rear Panel

1 Analog Outputs

In most installations, you will want to use both the analog and the digital outputs of the CDP-502.

The front left and right channels are supported with both balanced analog outputs on XLR connectors and single-ended analog outputs on RCA connectors.

using the balanced outputs

If your processor has balanced inputs for the front left and right channels, connect these XLR outputs to them using high quality balanced interconnects. Your Classé dealer can provide assistance in selecting appropriate balanced cables for your system.

Balanced audio interconnections were originally developed in the professional audio world, for preserving the delicate nuances of extremely small microphone-level signals. For many years now, they have also been used by performance-oriented consumer companies like Classé to preserve every nuance of the finest audio performances in your collection.

Technically, balanced audio interconnections provide two distinct benefits: they double the signal's strength as it travels from one component to the next, increasing the potential signal to noise ratio by 6 dB; they also do an excellent job of rejecting noise and interference that might otherwise be picked up between the components, due to either EMI (electromagnetic interference) or RFI (radio frequency interference). In our modern world of wireless telecommunications, there is more potential interference floating around us than ever before—it makes sense to keep it all out of our music and movie soundtracks.

For this reason, we strongly recommend using the balanced analog interconnections between your Classé components wherever possible.

The pin assignments of these XLR-type female output connectors are:

Pin 1: Signal ground
Pin 2: Signal + (non-inverting)
Pin 3: Signal – (inverting)
Connector ground lug: chassis ground

These pin assignments are consistent with the standards adopted by the Audio Engineering Society.

using the single-ended (RCA) analog outputs

The two output channels of the CDP-502 are provided in a high quality single-ended form on RCA plugs. Single-ended cables using RCA connectors are the most common form of analog connection used in consumer electronics. When implemented carefully and used with high quality interconnect cables, this standard can provide excellent performance.

Classé has gone to extraordinary effort to ensure that the single-ended (RCA) outputs of your disc player offer superlative performance. Connect these outputs to your preamplifier/processor using high quality RCA terminated cables. Your Classé dealer can advise you on the selection of cables suitable for your system.

2 Analog Video Outputs

The CDP-502 is equipped with a complete set of analog video outputs: Component (Y, Pb, Pr), S-Video, and Composite. The S-Video output employs the standard S-Video (mini-DIN) connector, while the Component and Composite outputs employ high quality RCA connectors.

Note that the three analog video standards offer varying degrees of performance:

- Component video renders the best analog video quality, and provides compatibility with progressive and high definition video signals. As a result, the component outputs are the analog outputs you will want to use in order to take full advantage of the video scaling and processing capabilities of the CDP-502. (The HDMI output also supports video scaling and processing.)
- S-Video is capable of rendering a high quality video image, but is limited to standard definition, interlaced signals.
- Composite video is the most common analog video interface, available on almost all display devices. Like S-video, it is also limited to standard definition, interlaced signals.

For this reason, if your display does not support digital video inputs (HDMI), you are advised to use component video connections whenever possible.

This advice holds especially true for the CDP-502, since it incorporates sophisticated video processing circuitry that can convert the standard definition DVDs you play to high definition rates that are most compatible with today's best video displays.

NOTE: due to Macrovision copy protection software, all HD resolutions may not be available depending on the disc.

The Component video output of the CDP-502 can be set to 480i, 480p, 576i, 576p, 720p, or 1080i (based on the best match to your display).

All three analog video outputs are active simultaneously. Connect the appropriate video output(s) of the CDP-502 to the corresponding inputs of your A/V preamplifier/processor using high quality video cables. Your Classé dealer can assist you in making an appropriate cable selection.

3 HDMI Digital Video Output

The HDMI output of the CDP-502 provides for a direct, digital video connection to your display. Digital display devices such as plasma, LCD and DLP™ are used increasingly in modern home theater settings; HDMI allows you to keep the video signal in its digital form all the way to the display, offering stunning clarity and realism.

In addition, HDMI carries the multichannel audio signal and some additional data about the signal being played. When fully implemented, it can become the only connection between the disc player and the A/V preamplifier/processor. (The A/V preamp retains the audio signal and passes the video along to the display device.) More often, people prefer to run separate audio and video cables since doing so offers some additional flexibility as well as the potential for higher audio performance via AES/EBU connection.

If your display has a DVI input rather than an HDMI input, contact your Classé dealer about a suitable adapter cable. The DVI standard lacks the audio capabilities of HDMI, and is growing less popular in the consumer electronics world. A simple and inexpensive adapter can convert from the HDMI connector to the DVI connector, and the electrical characteristics of the digital video signals are the same.

4 Digital Outputs

The CDP-502 has three digital outputs, all of which carry the same information. You may use whichever connection you prefer, consistent with the available connections on your A/V preamplifier/processor. Only *one* of the three connections is needed.

coaxial digital output

The coaxial digital output provides a digital audio signal via a 75Ω coaxial cable equipped with RCA-type connectors. Connect this output to a corresponding coaxial digital input on your preamplifier/processor.

AES/EBU digital output

The AES/EBU output provides a digital audio signal via a 110Ω balanced cable equipped with XLR-type connectors. Connect this output to a corresponding AES/EBU digital input on your preamplifier/processor.

optical digital output

The optical digital output provides a digital audio signal via a standard EIAJ ("*Toslink*™") optical cable. Connect this output to a corresponding optical digital input on your preamplifier/processor.

Making any one of these connections allows you to feed the signal in its digital form directly to your A/V preamplifier for further digital processing.

5 IR Input and Output

Your Classé player includes two ⅛th-inch mono mini-jacks in order to support the infrared (IR) remote controls that are ubiquitous today. Infrared commands exist (for example) for toggling the player between *operate* and *standby*, in addition to discrete command codes for either *operate* or *standby*. These codes may be used in "macros" for sophisticated remote control systems, facilitating the control of the player in the larger context of a complete system.

The list of commands available is quite extensive, enabling even complex *macros* (chains of commands strung together) to operate flawlessly. If this capability is of interest to you, we strongly recommend discussing it with your authorized Classé dealer.

Note that *IR Input and Output* is a bit of a misnomer: the input and output of these plugs is *electrical* in nature, not infrared. They are used with standard IR receivers, distribution amplifiers, and emitters (available from your dealer) to translate the remote's IR signal to an electrical signal and *vice versa*. The big advantages here include being able to easily route the signals anywhere they might need to go and the reliability of a solid electrical connection.

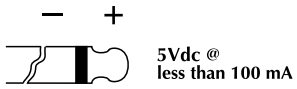
Since an IR distribution system such as your dealer may design for you usually must control many products, your player includes both an IR input (for the control of this product) and an IR output (so as to pass along the same signal to the next product). This allows you to "daisy chain" your control wires from one product to the next.

Note:

Many IR repeater systems do not yet support the stripped-carrier signal format required by your disc player. If yours does not, a Delta IR Interface may be required to ensure compatibility between your IR repeater system and your Delta-series Classé equipment.

Your dealer can assist you in designing an effective IR repeater system.

The player is designed to respond to IR commands of 5VDC, with the tip of the mono mini-jacks defined to be "positive" relative to the shank of the plug.



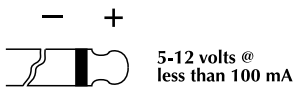
6 DC Trigger Input and Output

Many audio/video components can supply a DC control voltage to associated equipment in order to induce desired behavior. Your Classé player can take advantage of these capabilities in order to be switched between *operate* and *standby* automatically, usually in concert with the A/V preamp itself.

The ⅛th-inch mono mini-jack Trigger In provides for remote-controlled turn-on (that is, toggling between *operate* and *standby*) of the player.

Two ⅛th-inch mono mini-jacks provide individually controllable DC trigger outputs which can be used for any of a number of purposes, as described in *The Menu System*. For example, your dealer can program Trigger Out to toggle your Classé power amplifier between operate and standby with your CDP-502.

The remote Trigger In will respond to the presence of 5–12VDC, with tip polarity as shown below:



Similarly, the Trigger Outs will create a 12VDC signal that can support up to 100mA of current.

7 Classé CAN-Bus Control Ports

These RJ-45 connectors are provided for control and communication applications using Classé Audio's implementation of the Controller Area Network (CAN) Bus specification.

8 RS-232 Control Port

This port has two purposes:

- downloading new operating software into your player (should new features ever be added, for example)
- external control of your preamplifier by systems such as i-Command™, AMX® and Crestron™

For more information, please contact your dealer and ask about home automation systems.

9 AC Mains Power Switch

The main power switch for the CDP-502 is located at the right side of the rear panel. The player should be in *standby* mode before being switched off. Switching the unit on puts it in *standby* mode.

Danger!

Potentially dangerous voltages and current capabilities exist within your disc player, even when disconnected from AC mains. Do not attempt to open any portion of the player's cabinet. There are no user-serviceable parts inside your disc player. All service of this product must be referred to a qualified authorized Classé dealer or distributor.

10 AC Mains Input

An IEC standard power cord (supplied) is used with the CDP-502. Plug the cord into the IEC outlet provided, and the other end into a suitable wall outlet.

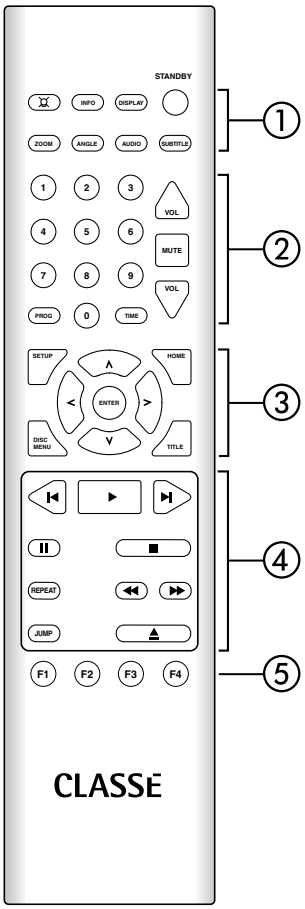
The AC inlet assembly includes a built-in fuse for the protection of the unit in case of major AC mains problems and/or component failure.

If your CDP-502 ever behaves as though it were not connected to the AC mains (meaning, it seems completely "dead"), remove the AC cord from the unit, and open the fuse holder immediately above the AC cord inlet. If the fuse is blown, take your CDP-502 to your qualified Classé dealer immediately.

Caution:

There are no user-serviceable parts inside the CDP-502. Do not attempt to diagnose the problem yourself.

The Remote Control



Your new disc player comes with a versatile remote control which can control both the CDP-502 itself and several aspects of the rest of a Classé-based system. The keys are arranged in logical groups according to their functions.

1 Basic Functions

This section along the top of the remote control includes two groups of four functions that control your basic interactions with the CDP-502. The general group is located in the topmost row, and includes:

- **Light** switches the backlighting of the remote control on, for better visibility under low-light conditions. After a few moments of inactivity, the backlight switches off automatically.
- **Info** takes you directly to the *status* screen in the LCD menu system, displaying several items of information about the CDP-502 and its current operational status.
- **Disp** (for *Display*) cycles through the three brightness settings of the screen display.
- **Standby** toggles the CDP-502 between *standby* and *operate*.

The DVD-specific group addresses secondary features of the DVD standard which you may have seen on other DVD players, namely:

- **Zoom** cycles through the available "zoomed in" or magnified views of the DVD.
- **Angle** cycles through the available camera angles of the DVD being watched. *(Relatively few discs take advantage of this optional feature of the DVD standard.)*
- **Audio** cycles through the various available soundtracks on the disc being played. *(You can set your preference in the menu system, and it will become the default; this button cycles you through the other options, should you want to explore them.)*
- **Subtitle** cycles through the available subtitles in various languages.

2 Numeric Keypad, Programming & Volume

The next section down on the remote control provides the numeric keypad for use in directly accessing particular tracks on the CD/DVD you are playing, as well as two keys that are frequently used in conjunction with the numeric keys. The Volume and Mute controls are also in this section.

- The **Numeric Keypad** can be used to access specific tracks/chapters directly from your remote control. Simply press the appropriate number key (or keys) followed by the **Play** key. The CDP-502 will go directly to your selection and begin to play. For example, to play track 12, press the **1**, **2**, and **Play** keys in sequence.

- **Time** cycles through the four time display modes:
  time elapsed on track
  time elapsed on disc
  time remaining on track
  time remaining on disc
- **Prog** (for Program) allows you to quickly and easily create a programmed sequence of tracks (or chapters) to be played on the current disc. Pressing **Prog** will take you directly to the program page of the menu system, regardless of where you might be. Once on the program page, you can change the highlighted track using the **Up** and **Down** buttons, and can use the **Enter** button to toggle whether it is included in the current program. Pressing **Prog** a second time returns you to wherever you had been. (Note that the **program** function is not available during **play** or **pause**, only when the CDP-502 is in **stop**.)
- **Vol** (for Volume) buttons raise and lower the output level of the CDP-502, assuming you are using the analog outputs in their variable output mode. If you set the analog outputs to their fixed, line-level setting, or if you are using the digital output to your preamplifier/processor, these buttons will have no effect.
- **Mute** will engage the mute function of the CDP-502 as you have defined it (either Classic, Specific, or Dampening; see The Menu System for more details).

3 Navigation Keys

The central section of the remote control contains the navigation keys. This array of keys is similar to what you may have seen on remote controls for DVD players, and is used for navigation of the menu system of the CDP-502.

- **Setup** serves two functions: it calls up the menu system when you need it in order to adjust something to your preference; once within the menu system, pressing **Setup** returns you to the previous level of the menu system. If you press **Setup** when at the top level of the menu system, it will take you back out of the menu system to the normal display.
- **Home** returns you to the normal display of chapter/track, time, and transport controls shown on the LCD screen on the front panel of the CDP-502. This provides a quick way to get back to normal operation, regardless of how deep you might be in the menu system.

a note about DVD menus:

The DVD standard supports two levels of menus:
1) a menu of available "titles" on the disc (e.g., the main movie, plus extra "bonus" materials like documentaries, etc.);
2) each "title" then has a subordinate menu of chapters within the title.

- **Disc Menu** presents the menu of available chapters, within whatever title you are watching at the moment. *(See explanation of DVD menus in this section.)*
- **Title** gives you a list of available "titles" on the disc you are watching. *(See explanation of DVD menus in this section.)*
- **Up/Down/Left/Right** keys allow you to move within a particular menu screen, changing the highlighted item up/down/left/right as you like, from the comfort of your chair.
- The **Enter** key allows you to select the highlighted item, having the same effect as if you had pressed the button on the LCD touchscreen.

4 Transport Controls

You will find the transport controls used to control the day-to-day playback of discs just below the navigation keys.

- ⏮ (previous) will move backward through the chapters or tracks (or the playlist, if you have created one), one step at a time. As with most players, the single exception to this is the first time you press the ⏮ key, which will take you to the beginning of the track currently playing. Pressing the ⏮ key again within approximately one second will then take you to the previous track.
- ► **(play)** will start the disc spinning (if necessary) and start playing the music, as expected.
- ⏭ **(next)** will move forward through the tracks (or the playlist, if you have created one), one track at a time.
- ⏸ **(pause)** will stop the music but allow the disc to continue spinning; when you press Play, the music will start almost immediately, and it will pick up from where you left off.
- ■ **(stop)** applies to both the music and the spinning of the disc. When you press **Play**, the disc will need to take a few moments to get up to speed prior to playing, and it will play from the beginning of the disc or the playlist (if one has been created for the disc).
- **Repeat** will cycle the CDP-502 through its repeat modes.
- ◄◄ **(scan reverse)** provides a "rewind" function, the nature of which is dictated by your **navigation preference** selection in the menu system. (See *The Menu System* for more information.)
- ►► **(scan forward)** provides a "fast forward" function, the nature of which is dictated by your **navigation preference** selection in the menu system. (See *The Menu System* for more information.)
- ⏏ **(eject)** will cause the inserted disc to spin down and then eject.

5 System Controls

The CDP-502 remote control also can control user-defined functions as well as the volume and mute functions on a Classé system.

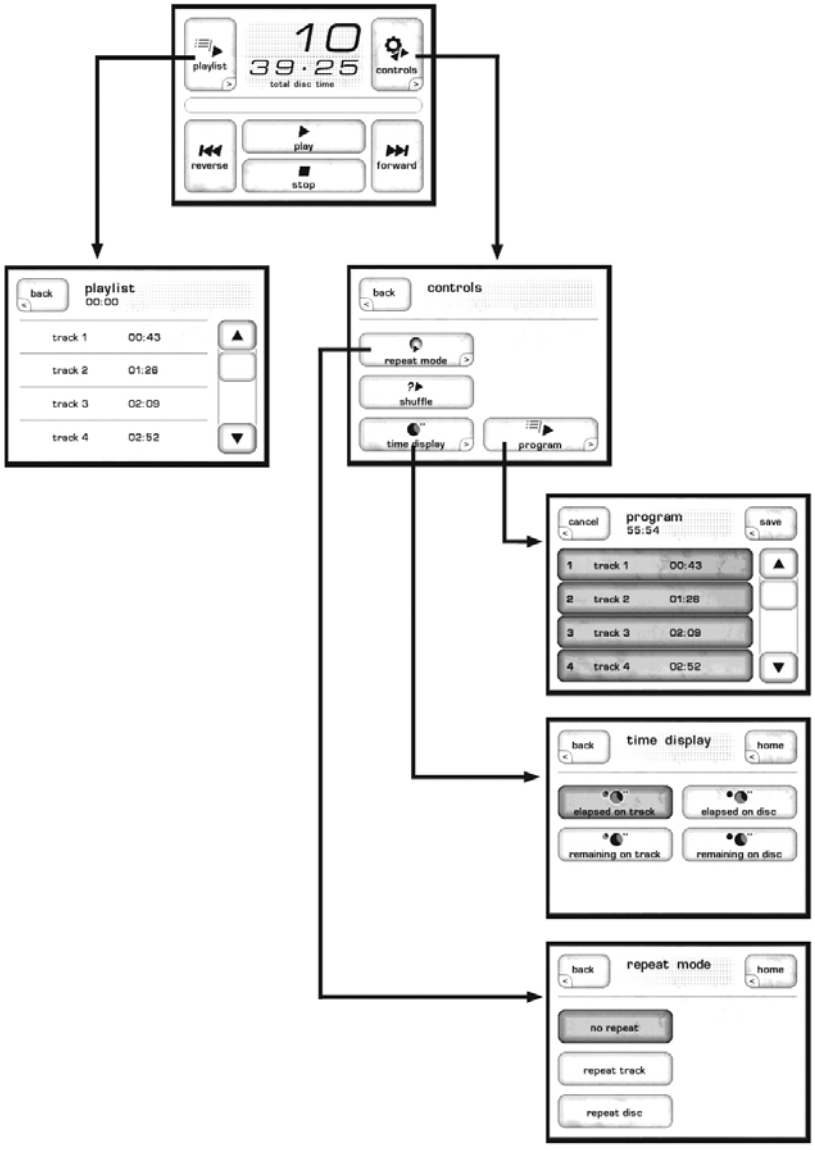
- **F1/F2/F3/F4** keys are available for controlling aspects of the CDP-502 not covered by the other buttons on the remote control. You are able to choose what the CDP-502 should do in response to receiving the infrared signal that a particular "Fkey" has been pressed. The list of possible functions is quite extensive, and is found in the menu system (see *The Menu System* section, of this manual). For example, if you are using one of the DC triggers on your CDP-502, you can toggle its state manually using one of the Fkeys.

Note: **The Fkeys on all Classé remote controls issue the same infrared commands. This saves you from having to be sure you have grabbed the proper remote, since all your Classé remotes will perform the same function for each Fkey.**

Using the CDP-502

Your CDP-502 includes a versatile touchscreen LCD display which supports both an attractive information display and a flexible menu system. Because of this flexibility, the CDP-502 can present different controls and capabilities when playing a CD, and when playing a DVD. We will present these separately.

CD operational menu



The operational menu consists of several screens that can be accessed directly from the normal display one sees when playing a CD. They are as follows:

playlist

Pressing the **playlist** button on the display brings up the playlist for the current disc. If you have not created a custom program for the disc, the playlist will simply be a list of all the available tracks on the CD, in order. If you have created a custom program (see below), it will be presented to you here. Note that this display is mainly informational; you cannot edit the playlist from this screen. You may, however, jump to any track by touching it on the screen.

controls menu

The **controls** button on the operational display brings up a menu of controls, including *repeat mode, shuffle, time display,* and *program*.

repeat mode

Pressing the **repeat mode** button on the **controls** menu displays a screen on which you may select any of the three repeat modes available: *no repeat, repeat track,* and *repeat disc*. (If you have created a program, *repeat disc* will repeat the program.)

shuffle

Pressing **shuffle** on the controls menu will engage the *shuffle mode*, which shuffles the playback order of the tracks on the current CD.

time display

Pressing the **time display** button on the **controls** menu presents a screen with four possible selections for how the current time of the disc playing is displayed: *elapsed on track, elapsed on disc, remaining on track, remaining on disc.*

program

Pressing the **program** button on the **controls** menu takes you to the programming screen.

When you first load a CD, the default program for the disc is to play all the tracks in their normal order (as you might expect). This is shown on the programming screen as a list consisting of track 1 followed by track 2, track 3, and so on. A sequence number appears to the left of each track, indicating its place in the playlist.

The CDP-502 is capable of storing thousands of playlists.

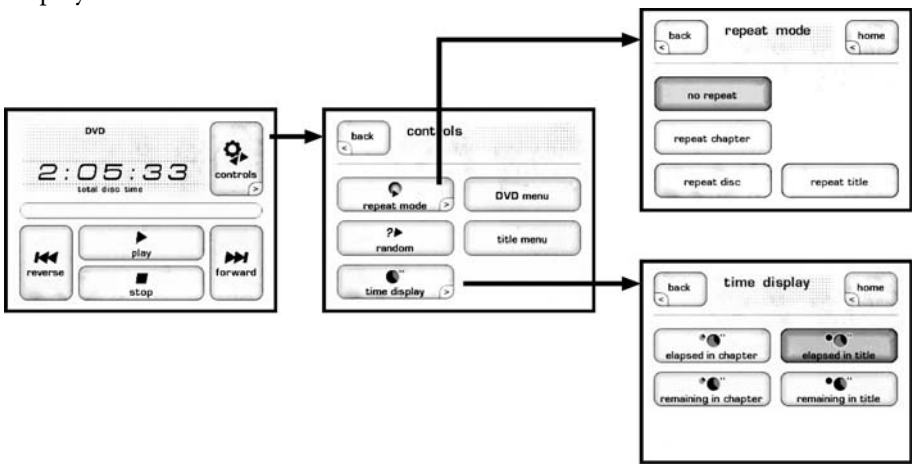
If there is a song on the disc that you prefer to skip over, simply scroll to the track in question by pressing the **up** or **down** arrows along the right side, and then press the large button with the track number you do not want to hear. It will no longer be highlighted, indicating that it has been removed from the playlist for that CD. You can repeat this process for as many tracks as you would like to delete.

If you want to create a completely different order in which the songs are played, turn off the highlighting for all the tracks by touching each of their buttons in turn. Then highlight the tracks one at a time, in your desired order. The CDP-502 will build a new playlist based on your preferred sequence.

To remove a playlist, simply deselect all tracks and press the **save** button.

DVD operational menu

When a DVD is inserted in the CDP-502, a different set of controls is displayed.



the home screen

The **home** screen for DVDs is presented at left in the graphic above, and contains basic information about where you are within the disc, as well as basic navigation buttons similar to those on your remote control.

controls

Pressing the **controls** button in the top right corner of the **home** screen takes you to the controls screen. It contains six buttons:

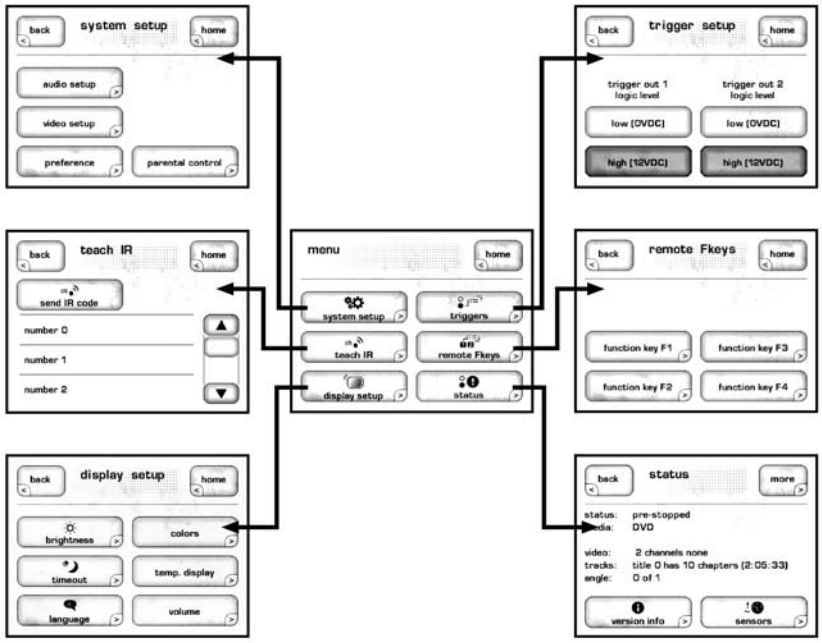
- **back** will return you to the **home** screen
- **repeat mode** takes you to another screen in which you can select any of the available repeat modes *(no repeat, repeat chapter, repeat disc, and repeat title)*.
- **random** will play chapters within the current title in random order. This can be used to good advantage when watching a concert DVD, or when listening to a DVD-Audio disc, in order to shuffle the order in which songs are played.
- **time display** changes the way in which the CDP-502 will display the time information of the disc being played. Your choices are: *elapsed in chapter, remaining in chapter, elapsed in title, remaining in title.*
- **DVD menu** button will return you to the *DVD menu* of the disc
- **title menu** button will return you to the *title menu* of the disc.

The Menu System

The CDP-502 uses its versatile touchscreen display to make a wide variety of setup choices and system defaults readily available. Using these menus, you can easily customize the behavior of your DVD player to suit your particular system's configuration, as well as your personal preferences.

main menu system

Pressing the **Menu** button to the left of the LCD touchscreen brings up a comprehensive menu system, the top two levels of which are shown below.



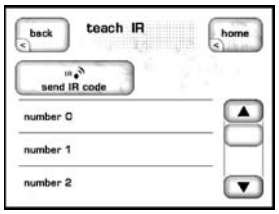
This menu system provides access to many installation-specific features that let you customize how the CDP-502 works within the context of your particular system.

system setup

The most extensive part of the menu system is under the **system setup** button. This section is both comprehensive and essential to taking full advantage of the remarkable capabilities of the CDP-502. As such, it is described more fully in its own, dedicated section of this manual. See *System Setup* for all the details.

teach IR

The CDP-502 provides discrete infrared (IR) command codes for all its functions, a list that extends far beyond what is required by normal remote controls. However, many of these functions are critical if you plan to create a customized remote control with macros that take command of your entire system. Without these discrete codes, many of the macros you might want to create will simply not work reliably.



The **teach IR** screen provides a scrolling list of all the available IR codes in the CDP-502. By scrolling to the command your macro-capable remote needs to learn, and then pressing the **send IR code** button, the CDP-502 will send the appropriate command code out its front panel—where it can be learned by your third-party remote control.

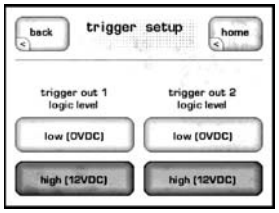
For more information on such control systems, we recommend you speak with your authorized Classé dealer.

display setup

This button brings up the **display setup menu**, which itself has subordinate menus. For more detailed information, please see the **display setup menu**, found later in this manual. *(It allows you to configure the CDP-502's LCD screen brightness, the display timeout, the language used in the touchscreen and menu system, the temporary display, and how volume settings are displayed if you use the variable volume capability of the CDP-502.)*

triggers

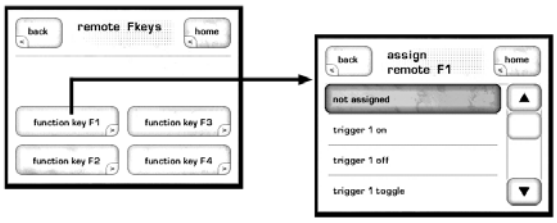
Each of the CDP-502 DC Triggers may be programmed as to its "logic level," which is to say, whether its voltage is *low* (essentially 0V), or *high* (approximately 12VDC) when the trigger is activated. The ability to change the level of a trigger's **on** state can solve installation-specific problems that otherwise require external devices that add to both the cost and complexity of your system.



If this seems an obscure point, that's okay. It is a feature designed to solve problems you may not even have, but your installation professional appreciates being able to solve such problems when they occur.

remote Fkeys

This button brings up the **remote Fkeys** menu.



The remote control supplied with your Classé product includes four user-programmable **function keys**, or "**Fkeys**." They are labeled **F1**, **F2**, **F3**, and **F4**, and are located near the bottom of the remote control. The "remote Fkeys" menu allows you to define how your CDP-502 will respond to seeing one of these Fkey signals. You can use the Fkeys to give you instant access to specific system functions that might otherwise be buried in a menu somewhere.

For example, if you use the *shuffle mode* frequently, you may want to consider programming one of the **Fkeys** to toggle that function on and off. Doing so will save you having to access the control menu, followed by pressing the **shuffle** button *(which might be hard to see from across the room, even though you could do so from the remote control with an Fkey assignment)*.

The **remote Fkey** menu has four buttons, one each for the four **Fkeys** on your remote control. Pressing any of these buttons on the LCD touchscreen takes you to a subordinate, scrolling list of possible functions for that particular Fkey.

Selecting the one you want is as simple as scrolling through the list (by touching either the up or down arrows on the right), and then touching the specific function in the list that you want that Fkey to perform.

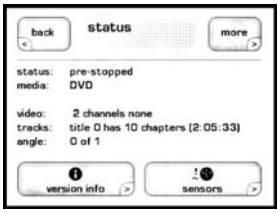
cautionary note on Fkey use

Note that all Classé remote controls provide these same four **Fkeys**, so that you need not worry about which remote you happen to pick up. Thus **F1** on the preamplifier's remote control sends the same infrared signal as **F1** on the CDP-502 remote control.

While this is intended to minimize confusion amongst different remotes (since this aspect of them will all perform identically), you should take care when assigning different functions on different components to the same **Fkey**. Doing so would result in two components doing two different things at once, in response to a single press of a button on the remote control. This can sometimes be useful. As an example, **F1** could set the preamplifier to the **CD** input, and also set the disc player to **Play**, both from the press of a single **Fkey**.

status

The **status** screen provides several items of information on the currently playing disc, as well as access to information on the software used in and the internal sensors of the CDP-502. While on this page, pressing the 'more' key will access the CAN-Bus features.



version info

The **version info** button on the status screen takes you to the **version information** screen, which displays information on various pieces of software used by your CDP-502. If you ever have occasion to call our technical support people to ask a question not covered in this manual, they may want to know precisely what version of software your unit is running. Having this information available will help enable them to give you the best possible service.

sensors

The **sensors** button on the status screen takes you to the **sensors** screen, which displays information about several internal sensors within the CDP-502. It is unlikely you might ever need the sensor information, unless directed to do so by a customer service representative at Classé in order to help troubleshoot some unexpected problem.

CAN-Bus

Classé's Controller Area Network, or CAN-Bus, opens the way to a new level of interaction between our Delta range of amplifiers, preamps, processors and source components. When the CDP-502 is connected with CAN-Bus, the different elements of a Delta series system are in constant communication, creating a "global" network that delivers system wide status information and shared operational features, all through the touchscreen display.

features

CAN-Bus will allow a single Delta series touchscreen to:

- Display status information for every connected unit, including amplifiers which do not have a touchscreen display.
- Create a "PlayLink" that allows an SSP or Preamp to automatically switch to the correct input when a Delta series source component starts playback.
- Adjust the global system brightness.
- Configure the entire system to go in and out of standby at the touch of a button and also bring individual components in and out of standby.
- Mute any connected unit.

1 Classé Delta Series Products

Two or more Classé Delta series products are required, at least one of which must have a touchscreen display.

2 Category 5 Network Cables

These are ordinary network cables, commonly used for broadband Internet connections. They should be typical "straight through" cables not the "crossed over" type, and the total required will be one less than the total number of Delta series components in your system.

3 CAN-Bus Terminator

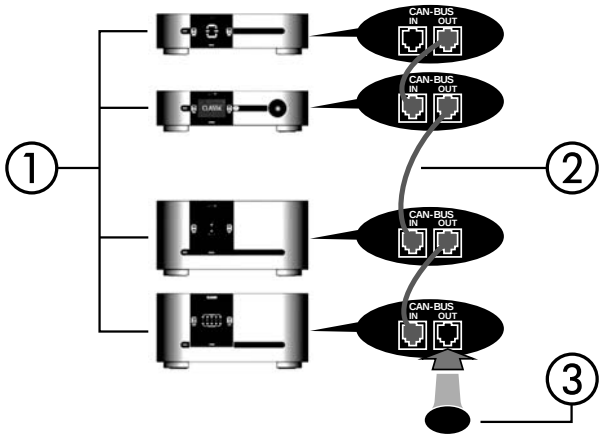
A single CAN-Bus Terminator may be required. It is inserted into the CAN-Bus OUT connector of the last component in the CAN-Bus daisy chain. One is included in the box with your CDP-502. They are also available free of charge from your nearest Classé Customer Support Centre http://www.Classeaudio.com/support/service.htm

4 SSP-300 & 600 CAN-Bus Interface Box

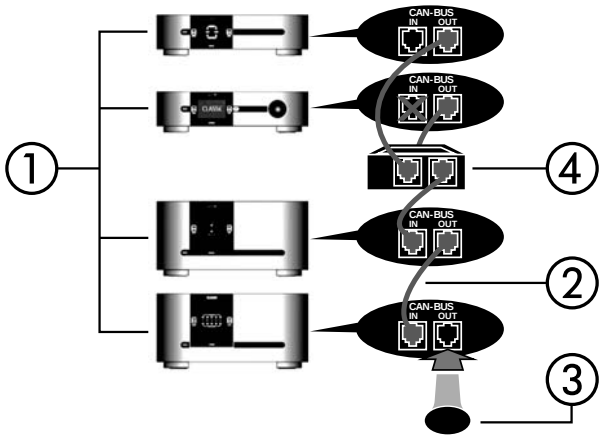
Systems that include an SSP-600 or SSP-300 will also require an SSP-300/600 CAN-Bus Interface Box. These are included with the products or available free of charge from your nearest Classé Customer Support Centre http://www.Classeaudio.com/support/service.htm

The diagrams below illustrate how to connect the CAN-Bus hardware.

Any combination of models in any order **without** SSP-300 or SSP-600.



Any combination of models in any order **with** SSP-300 or SSP-600.

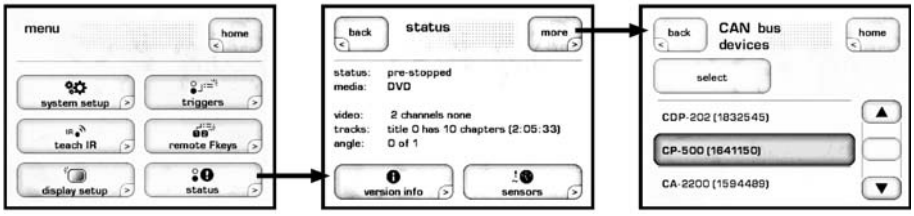


NOTE: Daisy chain may need to be terminated with CAN-Bus Terminator.

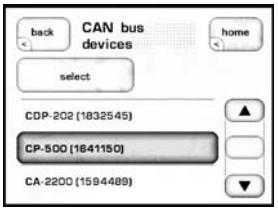
using CAN-Bus

CAN-Bus is controlled via the touchscreen of any Delta series component. There is no master component, so Delta series systems where two or more units have a touchscreen can be controlled through any of the touchscreens. However, it is probably easiest to start using CAN-Bus through just one.

CAN-Bus is accessed by pressing the **menu** button on the face of the unit or remote, then the **status** button, followed by the **more** button.



The touchscreen will then display the **CAN-Bus devices** screen, which lists connected Delta series components by model & serial number.

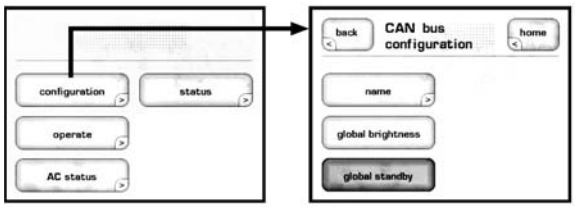


Highlighting a unit on the CAN-Bus devices screen identifies it as the **target unit**. The front panel LEDs of the target unit will start flashing (unless you highlight the unit that you are using to access CAN-Bus).

Once you have chosen the target unit press **select**. The target unit's LEDs will stop flashing and the touch screen will list the CAN-Bus features available to it. Some CAN-Bus features are shared by all models, some are specific to individual models.

CAN-Bus shared features

The following CAN-Bus features are shared by all models.



configuration

Selecting **configuration** will present the **CAN-Bus configuration** screen allowing access to name, global brightness, and global standby features.

operate

The **operate** settings allow you to bring the target unit in and out of standby, or mute. This key will be disabled for the unit whose touchscreen you are using to access CAN-Bus.

AC status

The **AC status** screen displays information from the target unit's electrical supply sensors. Two screens are available, with the second accessed by selecting **more**.

status

The **status** screen is the simplest way to access essential information about the target unit. It displays the target unit's model number, software version, operational status and serial number.

name

Allows you to set the **name** that this component will be listed under in the CAN-Bus devices screen. The name will appear next to the unit model and serial number, and facilitate the identification of units in large systems.

global brightness

By setting all your components to **global brightness** you can adjust the touchscreen and LED brightness for your entire system by changing the brightness of a single touchscreen. All CAN-Bus software updates automatically set the updated unit to Global Brightness. If you want a particular unit to be excluded from Global Brightness, deselect Global Brightness for that unit.

global standby

By setting all your components to **global standby** you can bring your entire system in and out of standby by pressing the **standby** button of any unit or remote. All CAN-Bus software updates automatically set the updated unit to global standby. If you want a particular unit to be excluded from global standby, deselect global standby for that unit.

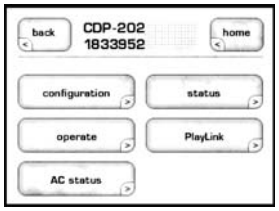
CAN-Bus model specific features

The following CAN-Bus features are model specific.

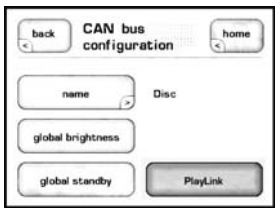
PlayLink

This feature is exclusive to Delta series disc players and will only function if the disc player is connected to a CAN-Bus enabled preamp or surround sound processor.

When **PlayLink** is active, pressing **play** on the disc player will also automatically switch the preamp/processor to a specified input. This means that you can listen to a CD or watch a DVD literally at the touch of a button.



The first step in using PlayLink is to choose the **input** you wish to be selected when play is pressed on the disc player. Press the **PlayLink** icon, then select the correct input from the list.



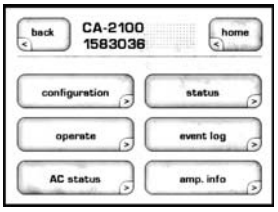
Once you have selected the input press **back**, then select **configuration**. PlayLink is activated and disabled through the PlayLink icon on the CAN-Bus configuration screen.

PlayLink is automatically active after a software update, and the PlayLink icon will only appear on the CAN-Bus configuration screen of a Delta series disc player.

> *PlayLink can only select a single input per disc player. It is therefore not designed for users who regularly play both CDs and DVDs through different inputs from a single disc player. When PlayLink is active the disc player will default to the same input every time play is pressed, regardless of whether it is playing CD or DVD.*

amp info

Available for amplifiers only, this screen displays the data provided by the heatsink and AC Module temperature sensors.



NOTE: This feature is only accessible when the target amplifier is on.

event log

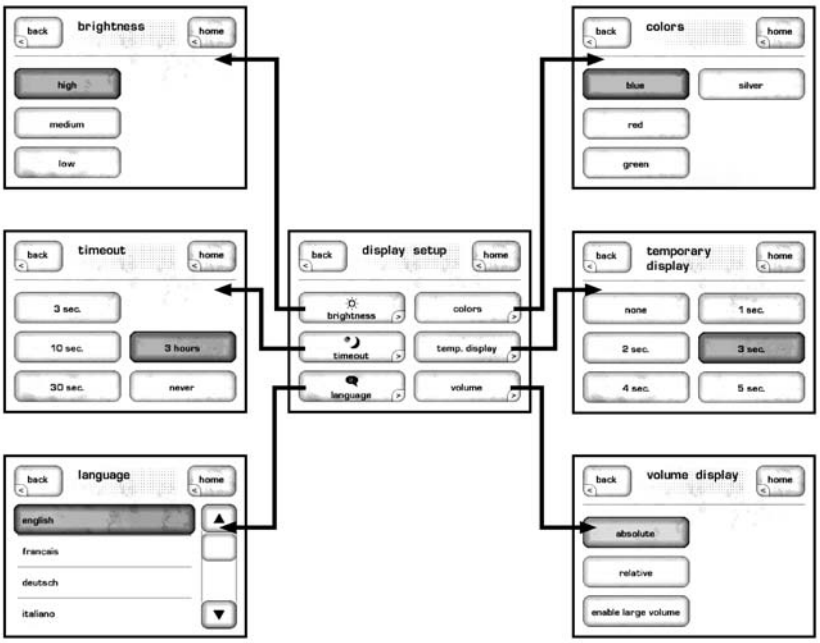
Reserved for amplifiers, this feature is a protection circuitry **event log** which can only be accessed when the target amplifier is in **standby**. The protection circuit shuts down the amplifier or channel if it overheats or if its output could damage your speakers. The event log details the circumstances surrounding the amp going into protection and should be referred to in situations that require the intervention of your dealer or Classé customer support.

The log can report the following events interpreted as follows:

- **+ve slow blo trip & -ve slow blo trip** — The average current has reached the safe operating limit.
- **+ve fast blo trip & -ve fast blo trip** — The peak current has reached the safe operating limit.
- **over temperature trip** — The unit temperature has reached the safe operating limit.
- **DC protection trip** — The DC output level has reached the safe operating limit.
- **Communication failure** — There has been a loss of communication between the amp's system monitoring sensors.
- **AC line trip** — The power supply has reached the limits of the amp's safe operating range.

These events are rare and generally occur due to issues that are external to the amp. They should be interpreted positively. The amp is doing what it's designed to do.

display setup menu



The **display setup** menu allows you to define your preferences for three aspects of the CDP-502's LCD display: the **brightness** of the backlighting, the **timeout** of the backlighting, and the **language** used.

brightness

The **brightness** setting of the CDP-502 has three possible values: *low, medium,* and *high*. Select the appropriate setting based on the level of ambient light typically found in your listening room while using the system. A *high* brightness setting usually works best in brightly-lit rooms; you may find that a lower setting is less visually intrusive under more subdued lighting conditions.

timeout

If you prefer listening to music in a dimly-lit or darkened room, you may find even the *low* brightness setting of the display somewhat distracting. If so, you can vary the **timeout** of the backlighting so as to turn it off entirely after a period of inactivity you select.

In this context, activity refers to any use of the user interface. This includes hard buttons, the LCD touchscreen, and the remote control.

For example, if you reduce the timeout to its minimum setting, the backlighting will illuminate the display as soon as you interact with any of the CDP-502 controls, and stay on for only three seconds—just long enough for you to check on something. If you continue to use any of the controls (at least once every three seconds), the display will remain lit. It will then extinguish itself after three seconds of inactivity on your part.

If you prefer the display of the CDP-502 to remain on whenever not in *standby*, choose the *never* timeout setting. The lamp in the LCD display was designed for harsh automotive environments and will give you many years of reliable operation. If you plan to leave the unit on continuously, however, we recommend that you keep the timeout delay set to less than one minute. *(Note that setting the brightness to a lower setting does not increase the life of the lamp.)*

language

The **language** menu offers you any of five different languages supported by the CDP-502. Classé have provided our international distributors with a software tool that makes it possible for them to customize the translations to suit their local customs and terminology, in an effort to ensure that the CDP-502's operation is as intuitive to use in every country as it is in our home country of Canada.

colors

The CDP-502 has the ability to change the **color** of the GUI menu system to either blue, red, green or silver.

temporary display

When playing a DVD, the CDP-502 displays the picture information on its LCD touchscreen in a "preview" mode. This can be helpful in cueing up material before sending the picture to the main display (saving your guests from the otherwise inevitable FBI warnings). It is also a wonderful way of navigating through DVD-Audio disc menu systems without having to turn on your main video display simply to enjoy some music.

When you make use of any of the control functions of the CDP-502, the display will change from its normal preview mode to display the user interface screens. The temporary display setting determines how long this user interface remains displayed before the touchscreen reverts to its usual preview mode.

volume display

If you elect to use the variable volume capability of the CDP-502, you have two choices as to how the volume setting is displayed.

- **Absolute** is how most volume controls work, namely that a setting of "0" indicates no sound, while larger numbers represent higher volumes.
- In the **relative** system, there is a calibrated, reference volume at which movies are played in theaters, which is duplicated in your environment and referred to as "0 dB." Regardless of how large or how small the theater, a setting of "0 dB" is always the same, known volume. Changes from that volume level are shown as either positive (louder) or negative (quieter). People who have spent any time making recordings will recognize that this is similar to the notion of "0 dB" on a record level meter.

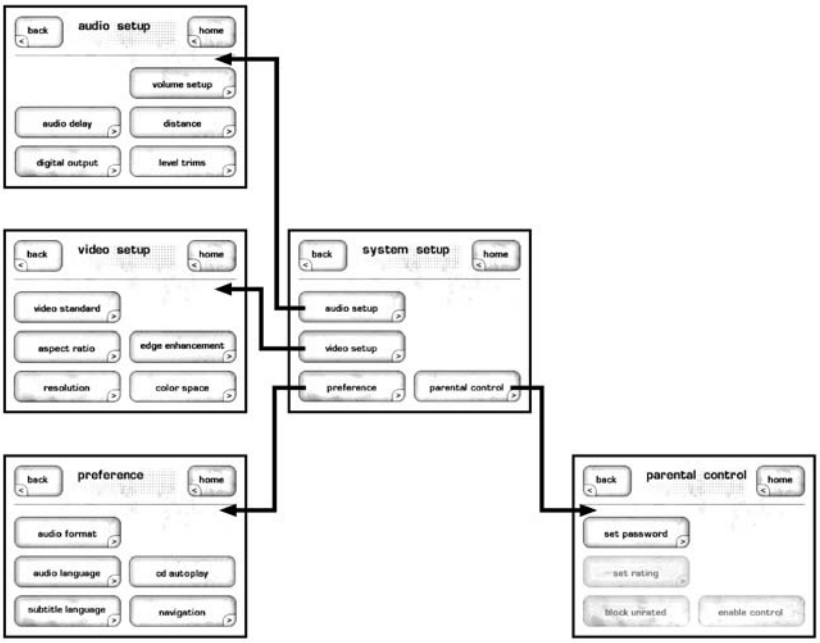
large number volume display

This function displays the volume level in **large numbers** on the touchscreen during volume adjustments, so it is visible from further away.

System Setup

Pressing the **menu** button to the left of the LCD touchscreen, followed by pressing the on screen **system setup** button, will bring you to a menu system that gives you a wide range of control over how the CDP-502 works both on its own and as a part of your overall system.

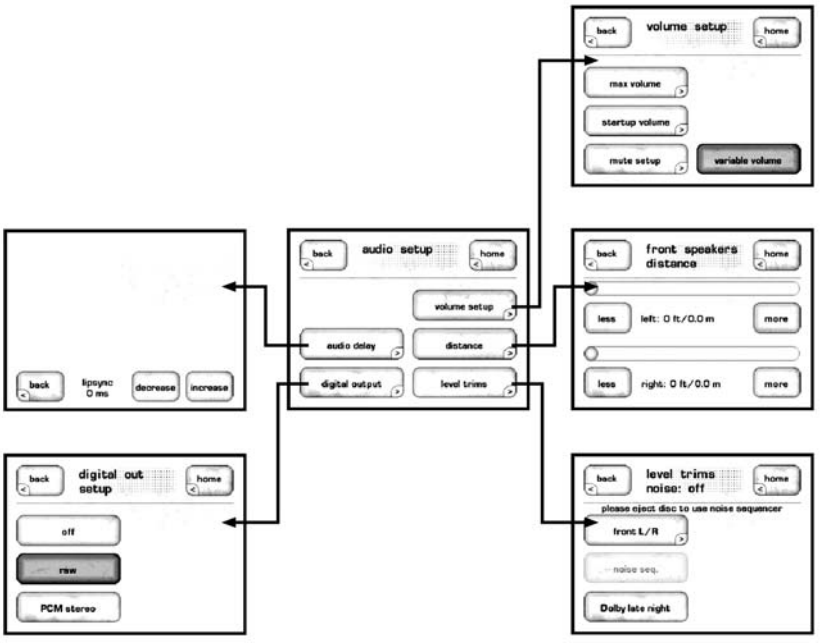
the system setup menu system



There are four submenus that can be accessed from the system setup menu. Each will be covered in turn.

audio setup

The **audio setup** button gives you access to six controls pertaining to how your disc player handles various audio details.



audio delay

When a disc has been incorrectly authored, the audio can be out of sync from the video. Audio Delay allows you to compensate for this by inserting a delay that repositions the audio in relation to the video and brings them into sync. The delay is adjustable in 10ms steps and operates within a range of +/- 200 ms.

digital output

The digital outputs can be configured in any of three ways, based on how you plan to use the player:

- **off** — for example, if you plan to use only the stereo analog outputs, and not send a digital signal along to a separate processor.
- **raw** — which passes along the native signal of whatever disc is playing, whether that is PCM, Dolby Digital, DTS, or anything else. This setting assumes that your external processor can handle anything you might send its way.
- **PCM stereo** — if the soundtrack you are playing contains multichannel information, it will be "downmixed" to a two-channel PCM signal that would be compatible with stereo playback, or further processing with Dolby Pro Logic II or DTS Neo:6 (as examples).

volume setup

The volume setup menu allows you to set up several volume-related parameters to suit your needs. If you elect not to use the variable volume capability, these settings will not be available.

- **max volume** — The maximum volume screen allows you to establish a maximum volume setting for your system. This scale runs from 0 to 100, with 100 indicating that you do not want any artificial limit placed on the maximum gain your surround processor can provide. This setting is interactive. You can set the value to something less than 100, and then adjust the volume to see whether it is appropriate.
- **startup volume** — Here you may select the level you prefer after the units wakes out of standby. This can be configured two different ways: **last volume** is the last level selected before the unit was powered down. Furthermore, the status of the mute will be remembered. The **specific** setting allows you to select a favorite level with the mute on or off.
- **mute setup** — Gives you three different types of muting function.
  - **Classic** muting literally mutes the output when you engage the **mute** button; no sound will be heard.
  - **Specific** muting allows you to select a specific volume setting that you want used when you engage **mute**, regardless of what setting you might have been using the moment before.
  - **Dampening** works as most **mute** buttons work, attenuating the current volume by the amount you specify.

distance

The **distance** setting adjusts the speaker distance settings manually as you might have done with a surround processor.

Simply measure the distance with a tape measure or equivalent, and enter the distance into the menu. The CDP-502 will automatically convert this distance to the appropriate delay, to ensure that you hear the sound from each speaker when you are supposed to hear it, despite the varying distances usually involved. (These delays are applied to the multichannel analog output only. Your surround processor will handle the signals sent out the digital output.)

Note that the distance delay is applied to all audio outputs of the CDP-502, including those contained on the HDMI digital interface.

level trims

The **level trims** adjustments adjust the speakers' levels manually as you might have done with other surround processors. A noise sequencer is available to provide a reference signal for adjustment purposes. Holding a dB SPL meter at the listening position, at arm's length, and pointing straight up at the ceiling, adjust the level of each speaker in turn until it reads 75 dB SPL when the meter is set to "C" weighting and Slow response.

Note that the level trims are applicable only to the analog outputs of the CDP-502. As with your other source components, the CDP-502's digital outputs are forwarded to the associated preamplifier/processor unchanged. This allows your preamplifier/processor to be accurately calibrated once for all incoming source signals.

The **Dolby Late Night** button engages and disengages the Late Night mode for Dolby Digital soundtracks, allowing you to enjoy movies with less chance of disturbing others.

video setup

Taking full advantage of the CDP-502's extensive video capabilities is simple. Three menus will take care of everything.

video standard

These settings are usually preset for the geographic market in which you purchase the CDP-502. However, should you need to change the output of the CDP-502 to conform with a different standard, your choices are:

- **NTSC/PAL/native** — either choose the broadcast standard for your area, or set the CDP-502 to play the disc in its native format. This last option requires that you have a suitable multistandard display that can handle both NTSC and PAL.
- **IRE 7.5 or 0** — the "video setup" in North America assumes that black is reproduced at a video level of 7.5 IRE units, while most of the rest of the world assumes that video black is represented by a video level of 0 IRE units. The CDP-502 can operate either way; you should pick the standard common to your area for compatibility with the rest of your video sources.
- **Extended Black** — the CDP-502 offers a choice between PC (extended black) and CE black levels. Use Extended Black to pass "blacker than black" video when connected to a Consumer Electronic display (not a PC monitor.)

  NOTE: Extended Black is available by selecting RGB 4:4:4 in the color space page. This feature is only applicable via HDMI output.

aspect ratio

You have three choices for the way widescreen movies will be displayed on your television. The choice should be determined by the capabilities of your television as well as your personal preference.

- **4:3** — If you have a 4:3 display and prefer to have it filled at all times, the CDP-502 will look for an available 4:3 version of the movie on any disc you insert, and play that version.
- **16:9** — If you have a modern, widescreen display that support different aspect ratios (including an anamorphic mode), select the 16:9 option. Doing so passes the contents of the disc to your television without addressing the aspect ratio. In effect, you are telling the CDP-502 that the television will be responsible for handling the aspect ratio duties.
- **letterbox** — If you have a 4:3 display, but prefer to see widescreen movies in their original form, the CDP-502 can create a "letterbox" version of the movie for you within the 4:3 frame of your television. This will result in black bars above and below the picture, but will show you all of the picture as the director and cinematographer originally framed it.

resolution

The CDP-502 has the ability to "upconvert" standard definition DVDs to higher display rates that are more suitable for HDTV displays. Note that this capability exists only through its component and HDMI outputs.

You can select from among the following video display rates:

- **auto selection** — If you use the HDMI digital interface between the CDP-502 and your display, the two components will automatically negotiate the optimal resolution for your display device. The auto selection capabilities of the CDP-502 apply only to the HDMI output.
- **sdtv 480/576 interlaced** — 480i (60 Hz) is the standard in NTSC countries; 576i (50 Hz) is standard in PAL countries.
- **sdtv 480/576 progressive**— 480p (60 Hz) is the deinterlaced version of the standard for NTSC countries; 576p (50 Hz) is the deinterlaced version of the standard in PAL countries.
- **hdtv 720 progressive** — at 720 by 1280 pixels, this is the most common rate for plasma displays and many LCD displays, and the second-most common HD broadcast standard. It is shown at 50 Hz in PAL countries, and at 60 Hz in NTSC countries.
- **hdtv 1080 interlaced** — the 1080i standard is the most commonly-broadcast HDTV format in use today, at 1080 by 1920 pixels (interlaced).
- **hdtv 1080 progressive** — available only through the HDMI output, 1080p is the highest-quality HDTV standard. It displays 1080 by 1920 pixels per frame.

edge enhancement

Select this feature when an increase in picture sharpness is required.

color space

- **auto** — Automatically optimizes color space for your display.
- **RGB 4:4:4** — Select this feature when you require the disc player to output PLUGE. This feature will allow you to utilize the Extended Black feature via HDMI.
- **Ycrcb 4:2:2** — Chroma upsampling by 1/2.
- **Ycrcb 4:4:4** — Chroma upsampling by 1/1.

preference

The DVD standard supports multiple soundtracks and languages, all on the same disc. This versatility can make playing a DVD more complicated than you might like. By establishing your preferences, the CDP-502 will be able to select the right soundtrack and language without you having to search through menus.

audio format

Many DVDs have multiple soundtracks, in different formats. You can state your preference (assuming it is available) by pressing the **audio format button**.

- **automatic** — selects the "best" available soundtrack automatically. Preference is given to soundtracks with a greater number of discrete channels (e.g., 5.1 rather than 2.0).
- **PCM** — if you prefer uncompressed digital audio, even if it means fewer channels, select the PCM option.
- **Dolby 5.1** — states a preference for 5.1 channel Dolby Digital soundtracks if they are available.
- **Dolby stereo** — indicates a preference for soundtracks intended to be reproduced via Dolby Pro Logic or Dolby Pro Logic II decoding matrix.
- **DTS** — when selected, the CDP-502 will automatically play the DTS (Digital Theater Systems) soundtrack, if one is available.

audio language

You can also set a preference for the spoken language used in the soundtrack being played. **Automatic** defers to the default soundtrack on the disc itself. If you prefer, you can insist that the CDP-502 play an **English, French, German, Spanish**, or **Italian** soundtrack (assuming one is available).

subtitle language

Similarly, you can establish a preference for the language used in the subtitles. Your choices are **English, French, German, Spanish**, or **Italian**.

CD autoplay

When this button is highlighted, the player will automatically start playback when a CD is inserted.

navigation

Historically, navigating within a CD and a DVD has worked differently. Specifically, the "fast forward" and "rewind" functions on a CD required you to *press and hold* the button during the scanning process. By contrast, the same action on a DVD required only a button click — in fact, additional button clicks would accelerate the rate at which the scanning would occur.

If you want to have all discs operate as per the DVD way of doing things, select **latching** as your navigation preference.

If you prefer the CD way of doing things, choose **non-latching** instead.

If you want the CDP-502 to behave like a CD player when playing a CD, and like a DVD player when playing a DVD, choose **adaptive**.

parental control

The CDP-502 includes a set of parental controls, similar to what you may have on your cable or satellite TV service.

- The **set password** button allows you to set a four-digit numeric password, which will be required to play any disc that exceeds the rating you select.
- The **set rating** button gives you a list of eight ratings, with the corresponding movie ratings listed (e.g., level 6 is the same as an R-rated movie). The level you select here determines the maximum rating that can be played without the password being entered. (Note that this button is only enabled after you have set a password.)
- The **block unrated** button prevents unrated movies from playing without the password.
- The **enable control** button enables the parental control feature of the CDP-502.

Troubleshooting

In general, refer any service problems to your Classé dealer. Before contacting your dealer, however, check to see if the problem is listed here. If it is, try the suggested solutions. If none of these solves the problem, contact your Classé dealer.

1 My disc is skipping.

- ✓ Gently clean the disc itself using a damp, soft cloth, wiping along the radius of the disc rather than around the circumference. (Cleaning discs in the manner minimizes the chance of damaging the disc.)
- ✓ The disc itself may already be damaged. Try several other discs, to see whether the problem is widespread or limited to a particular disc.

2 There is no sound and the Standby LED is not lit.

- ✓ Ensure the player is plugged into the AC mains, and that the AC mains are operating normally.
- ✓ Check that the main power switch on the rear of the unit is on.
- ✓ Your display may be set to timeout, and the CDP-502 may simply be in pause or stop. Touch the screen to reactivate it so you can see the state of the unit, or simply press the **Play** key on the remote control.
- ✓ Unplug the unit for at least thirty seconds and then plug it in again; try powering it up. (Sometimes a brownout or short-term loss of power might require a restart.)
- ✓ Verify that the AC mains is not out of range. The unit will automatically attempt to protect itself from improper AC mains voltages by not powering up.
- ✓ If none of these solutions work, please consult your Classé dealer for assistance. There are no user-serviceable parts inside your unit.

3. A disc was inserted, but the machine rejected it and asked for another disc to be inserted.

- ✓ Check that the disc is compatible with your unit. The CDP-502 will play CD Audio, DVD-Video, DVD-Audio, MP3, WMA, Video-CD, and S-VCD discs.
- ✓ Ensure that the disc surface is clean, and try reinserting it.
- ✓ Check that the label side of the CD is facing up.

4. The disc is spinning but there is no sound in one or both channels.

- ✓ Check that both interconnect cables are properly connected between the outputs of the CDP-502 and the inputs of your preamplifier.
- ✓ Ensure that the preamplifier/amplifier units being used are properly configured. (You may need to consult those units' owner's manuals for more information.)

5. The screen shows an error message and the Eject button does not eject the disc (or the player shows some other anomalous behavior).

- ✓ Press the **Standby** button so the screen dims and the blue light goes on.
- ✓ Using the rear panel power switch, turn off the unit for at least thirty seconds. Then turn the power back on and press **Standby** to restart the unit.

6. The IR remote control seems not to function.

- ✓ Ensure that there are no obstacles between the IR remote and the IR sensor (located to the right of the **mute** button).
- ✓ If the batteries are weak, replace them with fresh ones.unit.

7 If any units do not appear on the CAN-Bus Devices screen.

- ✓ Select **back**, then re-select **more**.

8 If the unit remains absent on the CAN-Bus Devices screen or if the select button is disabled when you target the unit.

- ✓ Check that the unit is running the latest software. The target unit may not be CAN-Bus ready and should be updated with the current software from the Classé website http://www.Classeaudio.com/support/service.htm
- ✓ Check the connections. Check that the Category 5 Network Cables are securely connected.
- ✓ If the system involves an SSP-300 or 600, check that you have correctly connected the SSP-300/600 CAN-Bus interface box. The CAN-Bus Interface Box has 3 connections, a pair at one end of the box, a single connector at the other. The single connector should be connected to the SSP CAN OUT. The pair of connectors should be treated as if they are the SSP CAN IN and CAN OUT. It doesn't matter which you use as CAN IN or CAN OUT. The CAN IN connector on the SSP must be left empty.
- ✓ Check the Can-Bus terminator. If the system involves extended lengths of CAN-Bus cabling then ensure that the CAN-Bus Terminator is correctly inserted at the end of the daisy chain. If the system involves multiple touchscreen units, try removing the CAN-Bus terminator. It is sometimes not required in these circumstances.
- ✓ Check the cables. Ensure that you are using straight through Category 5 Network Cables.

Care & Maintenance

To remove dust from the cabinet of your disc player, use a feather duster or a lint-free soft cloth. To remove dirt and fingerprints, we recommend isopropyl alcohol and a soft cloth. Dampen the cloth with alcohol first and then lightly clean the surface of the player with the cloth. Do not use excessive amounts of alcohol that might drip off the cloth and into the player.

Caution!

At no time should liquid cleaners be applied directly to the player, as direct application of liquids may result in damage to electronic components within the unit.

Specifications

All specifications are accurate at the time of printing. Classé reserves the right to adjust specifications without notice.

Frequency response *(balanced and single-ended)*	8 Hz – 20 kHz +0/-0.4dB
Distortion *(THD+noise)*	0.001%
Output voltage *(single-ended)*	2Vrms
Output voltage *(balanced)*	4Vrms
Signal-to-noise ratio	>110dBfs 22Hz - 22kHz A Weighted
Channel separation	better than 115dB
D/A Converter	3x Burr Brown PCM 1792
Audio sample rate	192kHz
Formats supported	CD, CD-R, CD-RW, DVD Audio, DVD Video, VCD, SVCD, MP3, WMA, DVD-R, DVD+R, DVD-RW, DVD+RW
Audio outputs	2 x RCA, 2 x XLR, Coax S/PDIF 1 x RCA, AES/EBU 1 x XLR, Optical 1 x Toslink
Video outputs	HDMI, Component (progressive scan), S-Video, Composite
Internal Scaling	480i (via all video outputs), 480p (via component and HDMI) 720p/1080i/1080p (via HDMI)
Power consumption	72W
Mains voltage	determined by the needs of country for which the unit was manufactured; cannot be reset by dealer or user
Overall dimensions	Width: 17.5” (445mm) Depth: 16.5” (419mm) Height: 4.75” (121mm)
Net weight	27 lb (12.3 kg)
Shipping weight	35 lb (15.9 kg)

For more information, see your Classé dealer, or contact:

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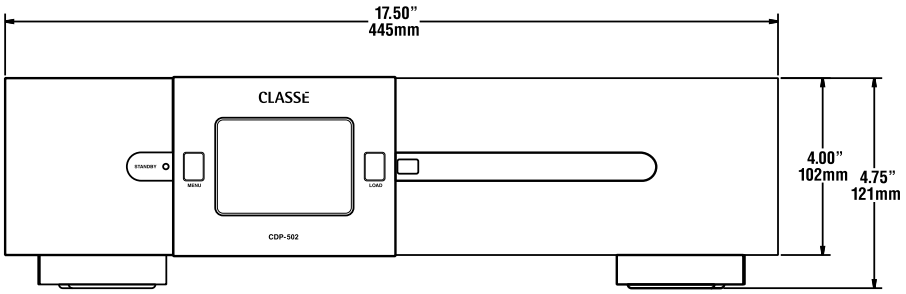
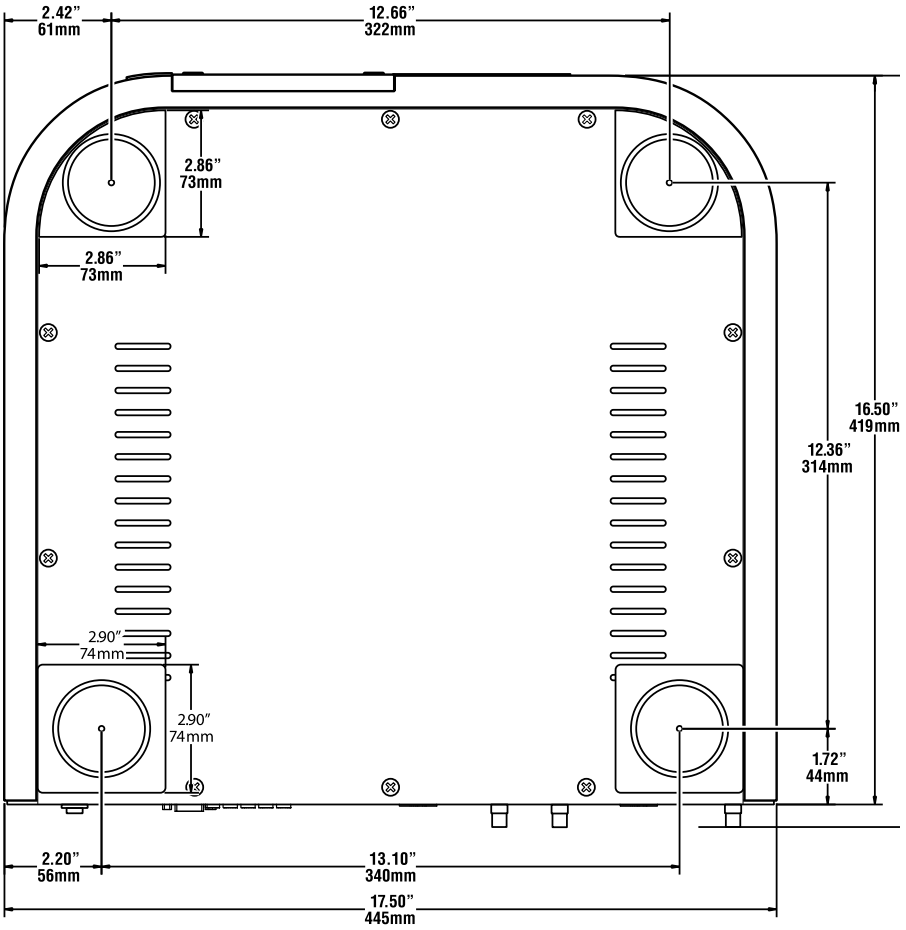
Dimensions


17.50”
445mm
CLASSÉ
STANDBY
MENU
LOAD
CDP-502
4.00”
102mm
4.75”
121mm


2.42”
61mm
12.66”
322mm
2.86”
73mm
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73mm
16.50”
419mm
12.36”
314mm
2.90”
74mm
2.90”
74mm
1.72”
44mm
2.20”
56mm
13.10”
340mm
17.50”
445mm

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