


EGOTERIC

P-03 Universal


Universal Transport

Owner's Manual



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



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




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 appliance.

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.

- Do not expose this apparatus to drips or splashes.
- Do not place any objects filled with liquids, such as vases, on the apparatus.
- Do not install this apparatus in a confined space such as a book case or similar unit.
- The apparatus draws nominal non-operating power from the AC outlet with its POWER switch in the standby position.
- The apparatus should be located close enough to the AC outlet so that you can easily grasp the power cord plug at any time.
- An apparatus with Class I construction shall be connected to an AC outlet with a protective grounding connection.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION

- DO NOT REMOVE THE EXTERNAL CASES OR CABINETS TO EXPOSE THE ELECTRONICS. NO USER SERVICEABLE PARTS ARE WITHIN!
- IF YOU ARE EXPERIENCING PROBLEMS WITH THIS PRODUCT, CONTACT TEAC FOR A SERVICE REFERRAL. DO NOT USE THE PRODUCT UNTIL IT HAS BEEN REPAIRED.
- USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

For U.S.A.

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 harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the equipment and/or the receiving antenna.
- Increase the separation between the equipment and 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 equipments not expressly approved by TEAC CORPORATION for compliance will void the user's warranty.

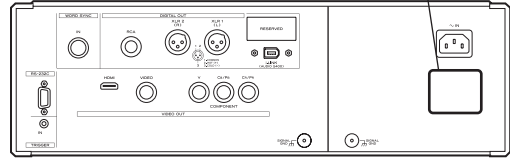
This product has been designed and manufactured according to FDA regulations "title 21, CFR, chapter 1, subchapter J, based on the Radiation Control for Health and Safety Act of 1968", and is classified as class 1 laser product. There is not hazardous invisible laser radiation during operation because invisible laser radiation emitted inside of this product is completely confined in the protective housings.

The label required in this regulation is shown ①.

Optical laser pickup :
 Type : SLD6163RL-G
 Manufacturer : SONY CORPORATION
 Laser output : Less than 1mW on the objective lens
 Wavelength : 785±15 nm (CD), 655±10 nm (DVD)

① For U.S.A.

CERTIFICATION
 THIS PRODUCT COMPLIES WITH DHHS
 RULES 21 CFR SUBCHAPTER J APPLI-
 CABLE AT DATE OF MANUFACTURE.
 TEAC CORPORATION
 3-7-3, NAKA-CHO, MUSASHINO-SHI, TOKYO, JAPAN
 TA
 MANUFACTURED



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The latest VRDS mechanism for Super Audio CD, CD and DVD playback (Specially developed ball bearings optimize the VRDS mechanism.)

The VRDS mechanism securely clamps the disc to the turntable. The turntable diameter is exactly the same as that of the disc. This system completely eliminates vibration inherent to removable media and unwanted vibrations generated by the mechanical systems. Also, this mechanism clamps the disc at a slight inclination so as to compensate for warping or deformation, improving the accuracy of the optical axes of both the laser pickup and the pit surface of the disc. This is effective in reducing errors in reading the disc data as well as in preventing timing errors from erratic data acquisition timing.

To achieve high-speed rotation with superior stability that is required of a universal player, the P-03 Universal is equipped with a duralumin turntable. A specially developed processing technology was used to enable the highly precise forming of this lightweight material, normally used in high-tech aircraft design.

In a joint development project with NSK Ltd., Esoteric developed proprietary, highly precise ball bearings for the VRDS mechanism. Rolling elements made from precisely machined ceramic balls provide ultra smooth rotation. The application of a pre-load to the ball bearing pair ensures a high rigidity and precise rotation not present in conventional bearings, but necessary for handling the wide rotational range from normal CD to Super Audio CD playback.

A massive 20mm-thick, SS400 steel bridge supports the mechanism to control vibrations produced by turntable and media rotation.

Coreless motor employing neodymium magnets

Esoteric has developed a new, life-long three-phase brushless spindle motor for high-speed rotation of the large diameter turntable. Combined with the high-precision ball bearings that firmly hold the turntable in place, this motor helps to further minimize rotation irregularities and vibrations. The magnetic field of the neodymium magnet has been optimized through magnetic field analysis to minimize fluctuations in motor drive current, and reduce any adverse impact on audio circuits.

A pickup designed to prevent tilting of the laser optical axis and speed feedback-controlled sled transport

The pickup of the P-03 Universal has a highly rigid sliding-shaft structure that prevents the lens from tilting. The laser optical axis is kept precisely aligned with the media's bit track. The sled moving mechanism uses a proprietary Hall element sensing-type, three-phase brushless motor while powerful electronic speed feedback circuits control this sled mechanism for quick access, thereby ensuring smooth, continuous movement with superior response.

Shutter isolates the mechanism from external influences

The tray opening and closing mechanism is equipped with a shutter to eliminate adverse effects from external sound pressure and vibrations on the tracking systems. When closed, the shutter mechanism is mechanically secured to the front panel to prevent it from moving. The shutter also seals out environmental contaminants from getting into the player.

Power supply housed in separate chassis

The P-03 Universal shares the dual block structure concept introduced in the P-01 where the power supply and the VRDS mechanisms are housed in independent blocks.

The enclosure provides a high degree of isolation and high capacity in a compact design.

The power supply consists of two transformers, one for the mechanism and the servo drive, and the other for processing digital signals. The WB transformer for the mechanism and the servo drive ensures low current loss and quick response.

Highly rigid chassis completely eliminates internal and external vibrations preventing sound quality deterioration

The bottom plate of the chassis that supports the mechanism is 5 mm thick and weighs 6 kg (16 lbs). Thick aluminum is used in the top, side, bottom and front panels. Esoteric proprietary pinpoint feet (patent pending), made of quenched steel, help to support the chassis in a vibration free environment. Every possible effort has been accorded to precision in the mounting of mechanical parts, the rigidity of the housing and the elimination of sympathetic vibration. The thick, brushed-aluminum front, top, bottom and side panels, contribute to a sense of quality and elegance found only in high-end Super Audio CD/CD/DVD transport devices.

Upward conversion on CD and DVD playback

The upward conversion feature can output maximum fs to 176.4 kHz or 192 kHz when playing back CDs or DVDs. A high-precision crystal oscillator precise to ± 3 ppm (temperature characteristics included) minimizes jitter. During Super Audio CD playback, the DSD signal (1-bit, 64 fs) is output directly without further processing. A mode for converting a PCM signal to DSD has also been added. This gives the P-03 Universal accurate control over signal differences for optimal expression of tonal texture required by each signal type. It is also possible to select the audio format (PCM or DSD) that best suits the music genre being played or the amplifier and speaker combinations used.

Digital audio output

The output terminals include two XLR jacks (in ES-LINK and Dual AES output modes, both jacks are used), one RCA jack, one i.LINK jack and one HDMI jack. See page 12 for details.

ES-LINK, an Esoteric-exclusive format for Super Audio CD digital output

Super Audio CD output is routed through the Esoteric-exclusive ES-LINK format from the XLR jacks, or through the i.LINK (AUDIO) jacks. When a Super Audio CD is played back and XLR DUAL is selected, the output is automatically sent in the ES-LINK format. Currently, only the D-03 and D-01 Esoteric D/A converters support ES-LINK.

WORD SYNC

The P-03 Universal can accept and synchronize to the following word clock frequencies received from external devices: 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz, 100kHz

This unit is designed so that the phase shift between the word clock and output sampling frequency is kept within 10 degrees when there is no discrepancy between the two.

High-quality wires for maximum performance

High purity 6N copper wires are used for most internal wiring that affects sound quality to improve purity and sound texture resolution. Polyolefin, a non-PVC material was used for the insulating sheath out of consideration for the environment as well as for sound quality. PVC is not used for wire insulation. The high purity 6N copper cable is developed with the help of Acro Japan Ltd. who also developed the highly acclaimed Esoteric MEXCEL interconnection cable and high-purity 8N copper cable.

Super high-precision video output

The P-03 Universal uses the latest 14-bit 216MHz video DAC from Analog Devices; the ADV7324. This provides 16X over sampling on interlace playback and 8X over sampling on progressive scan playback. As a result, video noise is shifted to un-used bandwidth, providing an exceptionally clear picture.

In the progressive scan section, smoothing is achieved using DCDi chips from Faroudja.

In the video scaling section, a high performance video scaling chip from Anchor Bay Technologies Inc., the ABT1018 is used. This chip upconverts video signals such as 480p, 576p, and 720p, into high-definition formats including 1080p.

NTSC/PAL playback and progressive-scan

Both PAL and NTSC discs can be played back. Conversion between the standards is possible, allowing the same monitor and player to be used for discs produced to either standard.

Progressive-scan playback (with the appropriate television or monitor) allows the best possible picture quality, even with very large screens.

"DTS" and "DTS 96/24" are trademarks of Digital Theater Systems, Inc.

Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

"Super Audio CD" is a registered trademark.

"DSD" is a registered trademark.

The i.LINK logo is a trademark of Sony Corporation, registered in the U.S. and other countries.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing use only, unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

The P-03 Universal uses six video DACs with high-quality 14-bit 216MHz processing for analog output. This type of DAC, the ADV7324, employs new Noise shaping Video (NSV) technology from Analog Devices, Inc.

NSV technology uses multi-bit delta-sigma conversion, removing video noise and providing low noise and high linearity, without the loss of information that is often associated with analog filtering systems.

Noise Shaped Video and NSV are registered trademarks of Analog Devices, Inc.

To eliminate "jaggies" and produce clear and natural imaging, the P-03 Universal uses DCDi (Directional Correlational Deinterlacing) technology. The circuits employed are from the Faroudja business division of Genesis Microchip, and enable hardware based diagonal line detection and smoothing from a pixel based image. As a result, smoother progressive-scan images can be produced, with "jaggies" or video noise reduced by interpolation techniques.

What's in the box

Please confirm that the following accessories are in the box when you open it.

- Remote control unit x 1
- Batteries (AA, R6, SUM-3) x 2
- Felt sheet x 3
- Power cord x 1
- Owner's manual x 1
- Warranty card x 1

Conventions about this manual

- Instructions in this manual describe the controls on the remote control. You can also use the buttons on the front panel of the main unit if they have the same or similar names as those on the remote.
- The types of functions and operations that can be used for a particular disc vary depending on the features of that disc. In some cases, these functions and operations may differ from the descriptions given in this owner's manual. In this event, follow the instructions given on the screen. This manual only covers basic disc operations.
- For some operations, the PROHIBIT icon "⊘" may appear on the screen. This indicates that the function described in this manual is not permitted for the type of disc being played.
- The drawings about the TV screen and front panel display used in this manual are purely for the purpose of visual explanation. The actual displays may differ slightly from what is shown here.

Read this before operation

- **Caution:** This unit weighs about 32.5 kg (71 5/8 lb). Be careful to avoid injury when moving the unit. Get someone to help you if necessary. It is highly recommended that 2 people move the unit at all times.
- As the unit may become warm during operation, always leave sufficient space around the unit for ventilation.
- The voltage supplied to the unit should match the voltage as printed on the rear panel. If you are in any doubt regarding this matter, consult an electrician.
- Choose the installation location of your unit carefully. Avoid placing it in direct sunlight or close to a source of heat. Avoid locations subject to vibrations and excessive dust, heat, cold or moisture.
- Do not place the unit on any other electronic components.
- Do not open the cabinet as this might result in damage to the circuitry or electrical shock. If a foreign object should fall into the unit, contact your dealer or service company as soon as possible.
- When removing the power plug from a wall outlet, always pull directly on the plug. Do not pull on the line cord.
- To keep the laser pickup clean, do not touch it and always close the disc tray after each use.
- Do not attempt to clean the unit with chemical solvents as this might damage the finish. Use a clean, dry, lint-free cloth.
- Keep this manual in a safe place for future reference.

CAUTION: DO NOT MOVE THE UNIT DURING PLAYBACK

During playback, the disc rotates at high speeds. Do NOT lift or move the unit during playback. Doing so may damage the disc or the unit.

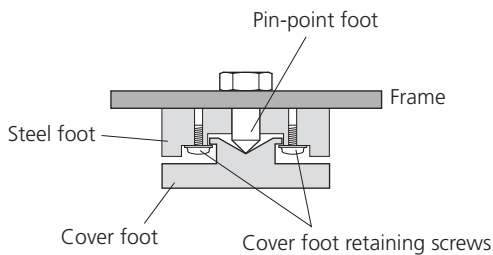
WHEN MOVING THIS UNIT

When changing places of installation or packing the unit for moving, be sure to remove the disc and return the disc tray to its fully closed position. Then, press the power switch to turn the power off, and disconnect the power cord. Moving this unit with the disc loaded may result in malfunction or other damage.

Placement of the unit

High-quality hardened tool steel is used for the pin-point feet attached to the bottom of the unit. Although the outer feet may appear loose when the unit is lifted, the weight of the unit causes them to become firm, level and secure when placed on an appropriate surface. This design effectively damps and reduces vibration between the cabinet and the surface where the unit is placed.

- **WARNING:** Be careful to avoid injury when moving the unit. This unit weighs about 32.5 kg (71 5/8 lb). Seek assistance when moving or placing this product.
- To protect the supporting furniture surface, you may stick the felt pads supplied with the unit to the bottom of the metal feet.



Changing the Color System (NTSC/PAL)

If you experience picture distortion or are unable to view the video image, you may need to change the color setting to match your TV.

1. Turn the unit off.
2. While holding down the PLAY/PAUSE button on the main unit, press the POWER switch.
3. While "V Set NTSC" (or "V Set PAL") is displayed on the front panel display, press the ►► button. The display changes to "V Set PAL" (or "V Set NTSC"). Select "V Set PAL" when a PAL TV (European standard) is connected. Select "V Set NTSC" when a NTSC TV (American standard) is connected.
4. Press the POWER switch to turn the unit off.

Note that you have to turn the unit off before each change.

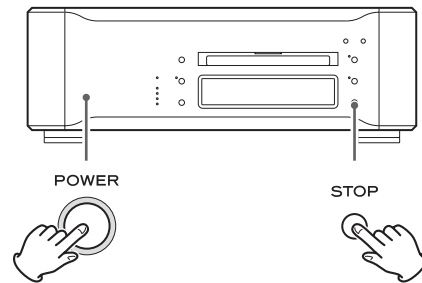
About MOD.(Modulation) PAL:

Most models of the newly developed countdown PAL TV system detect 50 Hz (PAL)/60 Hz (NTSC) and automatically switch vertical amplitude, resulting in a display without vertical shrinkage.

If your PAL TV does not have a V-Hold control, you may not be able to view NTSC discs because the picture may roll. If the TV has a V-Hold control, adjust it until the picture stops rolling. On some TVs, the picture may shrink vertically, leaving black bands at the top and bottom of the screen. This is not a malfunction; it is caused by the NTSC-PAL conversion.

Restoring factory settings

If you have made a lot of changes to the setup, and want to restart from a known set of options, restore the unit to the factory default settings as follows:



1. Turn the unit off and wait 30 seconds or longer.

2. Press the POWER switch while holding down the STOP button.

Hold down the STOP button until the unit has powered up and the display lights.

All memories are now erased and the unit returns to the factory default settings.

For European customers




Disposal of your old appliance

1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.



Type of discs that can be played on this system

This player can playback discs bearing any of the following logos:

	<p>DVD Video:</p> <ul style="list-style-type: none"> • Single-sided or double-sided discs • Single layer or dual layer discs • Dolby Digital, DTS, MPEG or Linear PCM digital audio • MPEG-2 digital video • This unit can play DVD-R discs recorded in the DVD video format. • This unit can play DVD-RW discs recorded in the DVD video format or the DVD video recording format. <p>Discs are generally divided into one or more titles. Titles may be further subdivided into chapters.</p>
	<p>DVD Audio:</p> <ul style="list-style-type: none"> • Single sided discs • Single layer or dual layer discs • Linear or packed PCM digital audio • Some discs may contain MPEG-2 video, and Dolby Digital, DTS or MPEG digital audio. <p>Discs are generally divided into one or more groups. Groups may be further subdivided into tracks.</p>
	<p>Audio CD:</p> <ul style="list-style-type: none"> • 12cm (4.7") or 8cm (3.15") discs • Linear PCM digital audio <p>Audio CDs are divided into tracks.</p>
	<p>Video CD:</p> <ul style="list-style-type: none"> • 12cm (4.7") or 8cm (3.15") discs • MPEG-1 digital audio • MPEG-1 digital video <p>Video CDs are divided into tracks.</p>
	<p>Super Audio CD:</p> <ul style="list-style-type: none"> • Single layer, dual layer or Hybrid layer • 12cm (4.7") or 8cm (3.15") discs • Digital audio (DSD) <p>Super Audio CDs are divided into tracks.</p>

Region Number of DVD Video discs:

DVD players and discs are designed with region numbers that determine the regions in which a disc can be played. If the region number on the disc you want to play does not match the region number of your DVD player, you will not be able to play the disc. In that case, an error message will appear on the screen.

The region number is printed on the rear panel of this unit.



U.S.A./Canada model



Europe model



Korea model

About DVD-RW

- DVD-RW discs that were recorded with copy-once only permission cannot be played.
- When playing a DVD-RW disc that was edited on a DVD recorder, the screen may momentarily black out at the edited point.
- When playing a DVD-RW disc that was edited on a DVD recorder, you may see scenes from just before the edited point.

About CD-R/CD-RW

CD-R/RW discs recorded in an Audio CD format and finalized correctly are playable. But depending on the quality of the disc and/or the condition of the recording, some CD-R & CD-RW discs may not be playable.

Caution:

- If you record a disc using a personal computer, even if it is recorded in a compatible format, there are cases in which it may not play because of the settings of the application software used to create the disc. (Check with the software publisher for more detailed information.)
- Unfinalized CD-R/CD-RW/DVD-R/RW discs cannot be played.

Following discs cannot be played with this unit:

- CD-G, Data part of CD-EXTRA, PHOTO CD, CD-ROM and DVD-ROM discs
- discs recorded in a color system other than PAL or NTSC
- illegally produced discs
- scratched or damaged discs
- discs that are dusty, soiled or marked with fingerprints

Warning:

If you attempt to play back such discs, there is a risk that a sudden and loud noise may be heard over the speakers at full volume and cause damage to the speakers and to your hearing.

Copy-protected discs, DualDiscs and other discs that do not conform to the CD standard may not play back correctly in this player. If you use such discs in this unit, TEAC ESOTERIC COMPANY cannot be responsible for any consequences or guarantee the quality of reproduction. If you experience problems with such non-standard discs, you should contact the producer of the disc.

Example of Icons used on DVD discs:

	number of audio tracks recorded on the disc
	number of subtitles recorded on the disc
	screen aspect ratio
	disc recorded with multiple camera angles
	region code

- Always place the disc on the disc tray with the label side up. (Compact discs can be played or recorded only on one side.)
- To remove a disc from its storage case, press down on the center of the case and lift the disc out, holding it carefully by the edges.



How to remove the disc

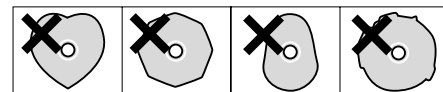


How to hold the disc

- Should the disc become dirty, wipe the surface from the center hole outward towards the outer edge with a soft, dry, lint-free cloth:



- Never use chemicals such as record (LP) sprays, antistatic sprays or fluids, benzene or thinner to clean the discs. Such chemicals will do irreparable damage to the disc's plastic surface.
- Discs should be returned to their cases after each use to avoid dust and scratches that may eventually cause your disc to skip.
- Do not expose discs to direct sunlight, high humidity, or high temperatures for extended periods. Long exposure to high temperatures will warp the disc.
- Do not play any disc that is warped, scratched, deformed or damaged. Playing such discs may cause irreparable harm to the playback mechanism.
- CD-R and CD-RW discs are more sensitive to the effects of heat and ultraviolet rays than ordinary CDs. It is important that they are not stored in a location with direct sunlight and keep your discs away from sources of heat such as radiators or heat-generating electrical devices.
- Printable discs aren't recommended because the label side might be sticky (or contain glue), which will damage the unit.
- Do not stick papers or protective sheets on the discs and do not use any protective coating spray.
- Use a soft oil-based felt-tipped pen to write information on the label side of a disc. Never use a ball-point or hard-tipped pen, as this may cause damage to the recorded side of the disc.
- Never use a stabilizer. Using commercially available CD stabilizers with this unit will damage the mechanisms and cause them to malfunction.
- Do not use irregular shape CDs (octagonal, heart shaped, business card size, etc.). CDs of this sort can damage the unit:

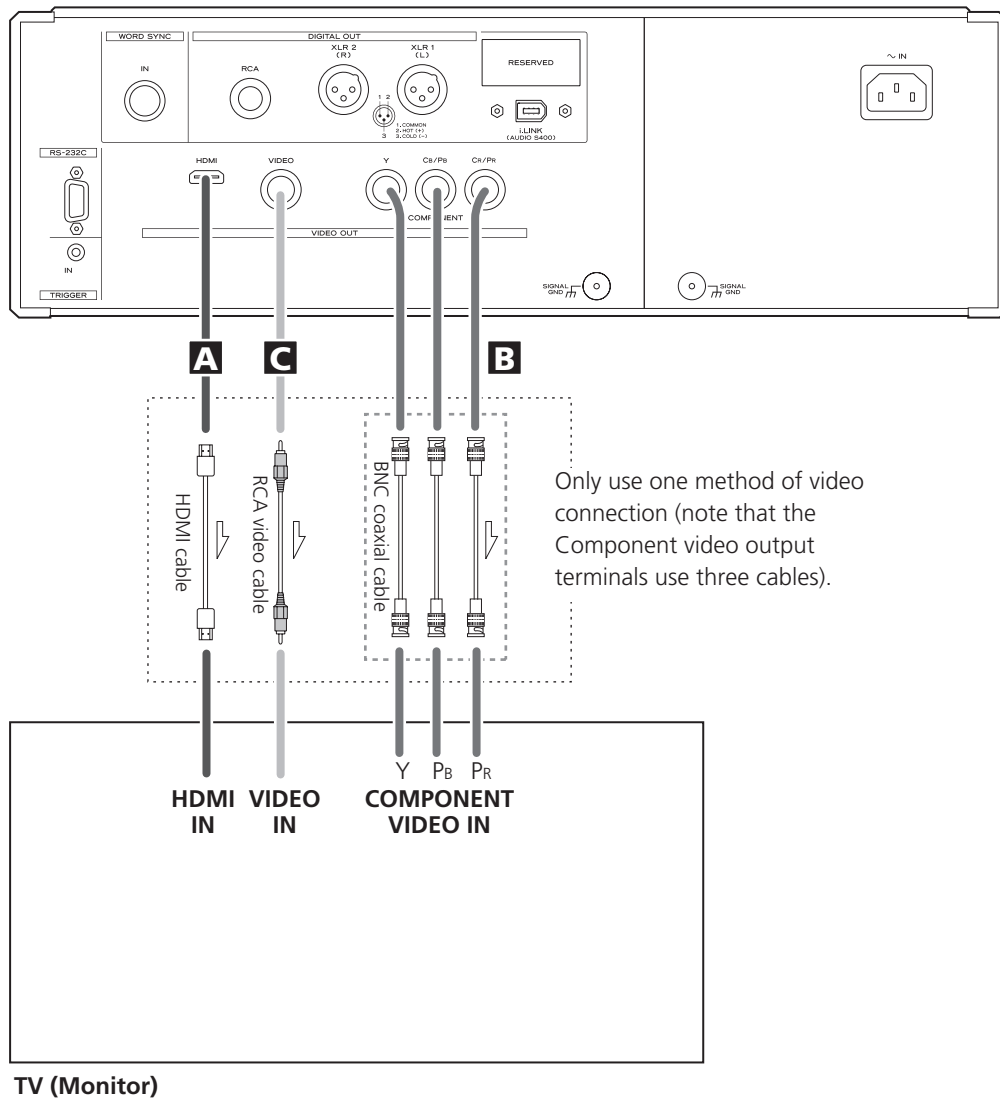


- If you are in any doubt as to the care and handling of any disc, read the precautions supplied with the disc, or contact the disc manufacturer directly.

Connection to a TV

CAUTION:

- Switch off the power to all equipment before making connections.
- Read the instructions of each component you intend to use with this unit.
- Be sure to insert each plug securely. To prevent hum and noise, avoid bundling the signal interconnection cables together with the AC power cord or speaker cables.



- Adjust the video aspect ratio to match that of the television (see page 46).
- If the component video terminals are used to connect the unit to a television with progressive scan capabilities, the output of the player can be set to match the setting on the television or monitor (see page 47).
- This unit includes analog copy protection features. If the unit is connected to a TV through a VCR (video cassette recorder), the resulting playback may be distorted. **Connect the unit directly to the television.**
- In all cases, use the highest quality cables for the best possible picture.

A HDMI video/audio output terminal

Use a commercially available HDMI cable to connect the unit to a HDMI compatible television or monitor.

HDMI video output formats

480i (NTSC) or 576i (PAL)
 480p (NTSC) or 576p (PAL)
 720p
 1080i
 1080p

- See pages 34 and 35 for further details on HDMI video output formats.
- If the television or monitor is equipped only with a DVI terminal, a suitable HDMI-DVI adaptor or adaptor cable should be used. Note that a television or monitor connected in this way must be HDCP compatible.
 Also note that this connection outputs no sound.
- Make sure that you read and understand the documentation provided with the HDMI or DVI display component, as well as this unit's documentation.

To output audio from the HDMI terminal

If the connected HDMI component is capable of receiving HDMI audio, digital audio from a DVD-Video, DVD-Audio, CD and video CD can be output from the HDMI terminal.

- Set the Digital Output setting to "ON" (see page 37).
- This terminal cannot output sound from a Super Audio CD.
- To enjoy digital surround audio from DVD-Audio and DVD-Video discs, connect the HDMI terminal to a surround amplifier and set the Analog Output setting to "Multi ch" (see page 37).
- Select proper digital output formats (Audio Digital Out) for your HDMI component (see page 45).

B Component video output terminals

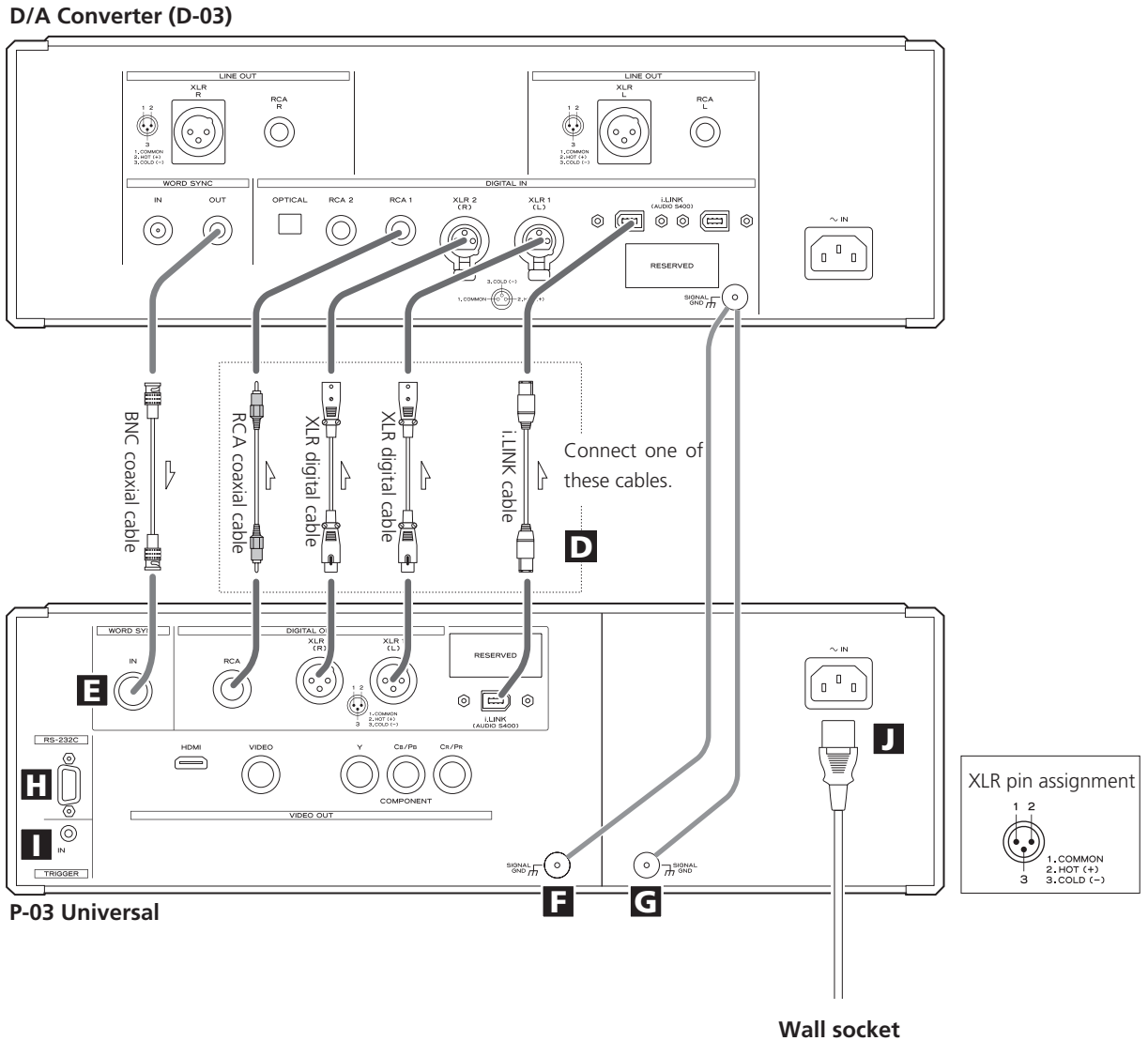
Use commercially available BNC coaxial cables to connect the unit to the component video inputs of a suitably equipped television or monitor to enjoy high resolution video. If possible, use these terminals in preference to composite video connections.

- Note that these terminals cannot be connected to high definition component (Y/P_B/P_R) terminals.
- If the television or monitor is equipped only with RCA (pin) jacks for component video, a suitable adaptor cable or adaptors should be used.

C Composite video output terminal

Use a commercially available RCA (pin) video cable to connect the unit to the composite video connector of a television or monitor. Use this connection only if no other video connection method is available.

Connections to a D/A converter, amplifier, etc.



Digital signal output by each terminal

	Single XLR connection	Both XLR terminals connected to an ES-LINK device	i.LINK connection	RCA connection	HDMI connection
Super Audio CD playback	No	Yes	Yes	No	No
DVD-Video playback	Yes	Yes	Yes	Yes	Yes
DVD-Audio playback	Yes	Yes	Yes	Yes	Yes
Up conversion to CONV 44.1, 88.2, 176.4 during CD/DVD playback	Yes	Yes	(44.1 or 48 kHz*)	Yes	(44.1 or 48 kHz*)
Up conversion to CONV DSD during CD/DVD playback	No	Yes	(44.1 or 48 kHz*)	No	(44.1 or 48 kHz*)

*: Audio signals output by the i.LINK and the HDMI terminals do not go through the up converter circuit and are not up converted.

CAUTION:

- Switch off the power to all equipment before making connections.
- Read the instructions of each component you intend to use with this unit.
- Be sure to insert each plug securely. To prevent hum and noise, avoid bundling the signal interconnection cables together with the AC power cord or speaker cables.

D Digital audio output terminals

These terminals output digital audio. Connect these terminals to the corresponding terminals on the D/A converter (D-03, etc.) or a compatible amplifier.

Use commercially available cables for the following connections.

- XLR: Use a balanced XLR digital audio cable
- RCA: Use an RCA coaxial digital cable
- i.LINK (Audio S400): Use S400 compatible 6-pin i.LINK cable (IEEE 1394 cable)

Select digital output depending on what terminals are connected (see pages 20-21).

Output of digital audio from a Super Audio CD requires a D/A converter compliant with Esoteric ES-LINK (D-03/D-01) or a D/A converter with an i.LINK (AUDIO) terminal.

- If your D/A converter supports ES-LINK or Dual AES, connect the XLR1 (L) terminal on this unit to the left XLR terminal of the D/A converter and the XLR2 (R) terminal on this unit to the right XLR terminal of the D/A converter.
- The i.LINK (AUDIO) terminal is a combined input and output cable interface.
- When using an i.LINK terminal, select a proper Digital Output setting (see page 37).
- The RCA terminal cannot output the digital audio from a Super Audio CD or the digital surround audio from a DVD-Audio disc.
There may be some DVD-Audio discs that do not output digital audio.
- RESERVED indicates area allocated for future expansion of P-03 Universal terminals.

E Word sync input terminal (WORD SYNC IN)

This terminal allows the use of an externally generated word clock connection using a commercially available BNC coaxial cable (75 ohm).

Connect the WORD SYNC OUT terminal on a D/A converter or word clock generator to this unit.

F Signal GND terminal**G Power supply GND terminal**

Connecting the ground terminals on the D/A converter and amplifiers to ground may improve sound quality.

- Note that this is not an electrical safety ground (earth).

H RS-232C terminal

Control terminal for use by custom installers.

I TRIGGER IN jack

Use this jack to turn on or off the P-03 Universal using an external control device.

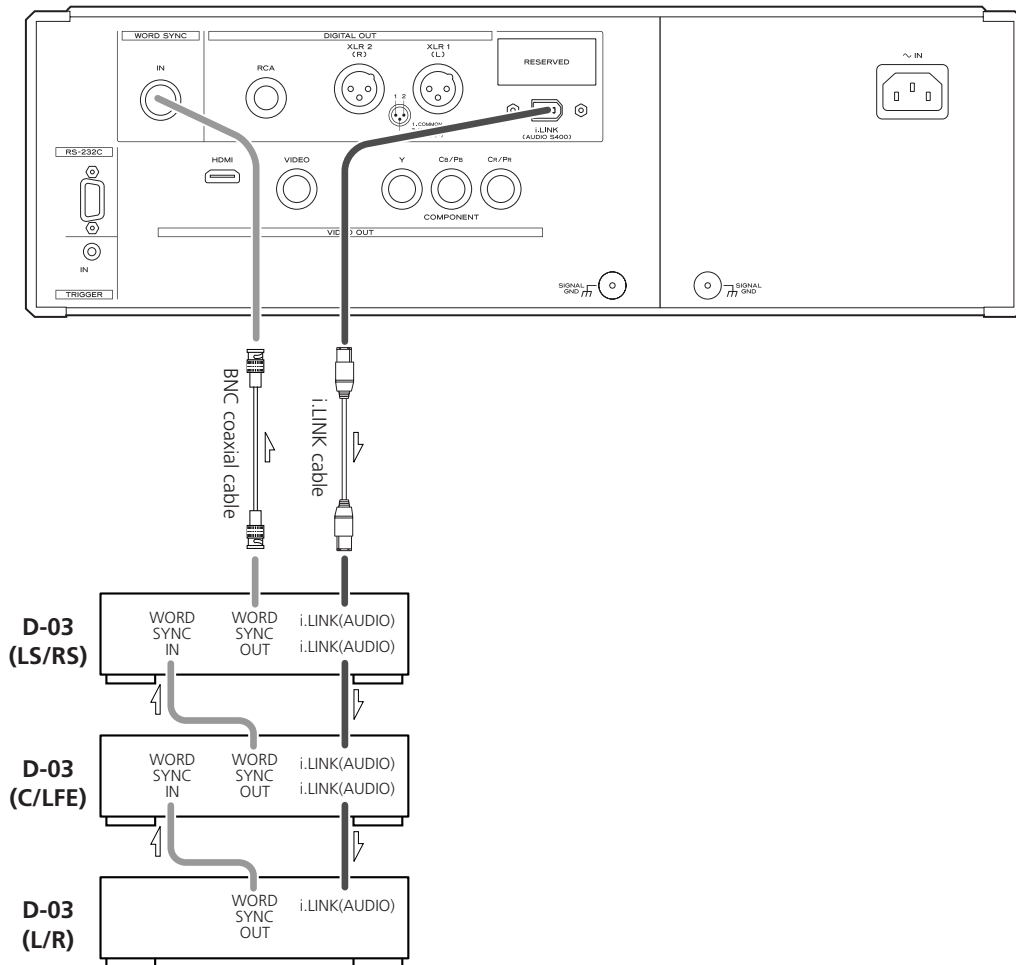
Do not connect a cable when not in use.

J Power cord receptacle

Connect the power cord to the power cord receptacle and connect the power plug to an AC wall outlet after all other connections have been made.

- Use only the supplied Esoteric power cord. Use of other power cords may result in fire or electric shock. Unplug the power cord when you are not going to use the unit for an extended period of time.

Connection examples (connecting three D-03 units)



Three D-03 units are required to play multi-channel sound from Super Audio CD and DVD discs without mixing the output down to stereo.

First, connect the i.LINK (AUDIO) terminal on the P-03 Universal to the D-03 i.LINK (AUDIO) terminal. Then connect the other i.LINK (AUDIO) terminal on the D-03 to the next D-03 unit. Daisy chain the three units similarly (in random order). Connect the word sync terminals as shown in the figure (in random order).

When connecting an optional clock generator G-0s to the P-03 Universal, connect the WORD CLOCK OUT terminals to the WORD SYNC IN on the P-03 Universal and the D-03.

Setting of the P-03 Universal

Output Terminal setting	i.LINK (see pages 20-21)
WORD button	ON

Setting of the D-03

INPUT button	i.LINK
WORD button	One of the D-03s that outputs word synchronization signals: "OUT" The others: "IN" When the G-0s is connected, set all of the D-03s to "IN".
W_OUT setting	88.2 to 192 kHz
CH_SEL setting	respective channels

The i.LINK is also known as IEEE 1394, an international specification.

This unit is i.LINK (AUDIO) ready.

By connecting an i.LINK (AUDIO)-capable device to the IEEE 1394 (or i.LINK (AUDIO) terminal on this unit using an i.LINK cable, you can transmit Super Audio CD multi-channel signals that could not be transmitted but in analog format in the past can be transmitted in its original digital format, in addition to the capability of transmitting 2-ch linear PCM data and multi-channel compressed audio signals.

If you have multiple i.LINK-capable devices, you can connect them through other devices to transmit data between them, so you don't need to be concerned with the order of connection.

Copyright protection system DTCP

To play back audio sounds recorded on Super Audio CD or DVD discs using i.LINK, both the player and the D/A converter need to be compliant to the copyright protection system DTCP (Digital Transmission Content Protection).

This unit is DTCP compliant.

Data transfer rate

There are three transfer rates: 100 Mbps (S100), 200 Mbps (S200), and 400 Mbps (S400). This unit is capable of transferring data at a maximum 400Mbps.

For connection to an i.LINK-capable device, use a commercially available S400-compliant 6-pin i.LINK cable.

When connecting multiple i.LINK-capable devices, avoid connecting a device having a slow transfer rate between devices having high transfer rates since this reduces the transfer rate of the whole system. Connect devices having high transfer rates towards the source as far "up-stream" as possible.

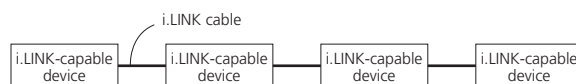
NOTES

- Among the i.LINK formats there are "MPEG-2 TS" for BS digital sources and "DV" for digital video for DVD recorders, as well as the "i.LINK (AUDIO)" (A&M Protocol). Never connect devices that are not compatible with i.LINK (AUDIO) to this unit. If you do, this unit and other components may not operate normally and may also become damaged.
- In the process of data transfer, avoid plugging/unplugging the i.LINK cables in use or switch on/off the power.
- Among i.LINK-capable devices, there are some that, if not turned on, are not capable of relaying data.
- Some i.LINK-capable devices will not respond to this unit's command. This is normal and is due to incompatibility among i.LINK devices.
- The receiving device may not support the output modes of this unit. Read through the instruction manual of devices you want to connect before making any connections.

How to connect multiple i.LINK-capable devices

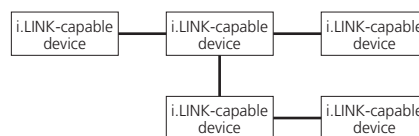
Daisy chain connection

You can daisy chain up to 17 devices including this unit.

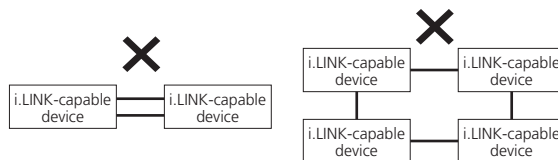


Connection in tree structure

If you are using a device having three or more i.LINK connectors, you may want to branch out the connections. This way of connection allows you to connect up to 17 devices including this unit.



Your system does not work if data is fed back to the output device. Be careful not to create a loop.

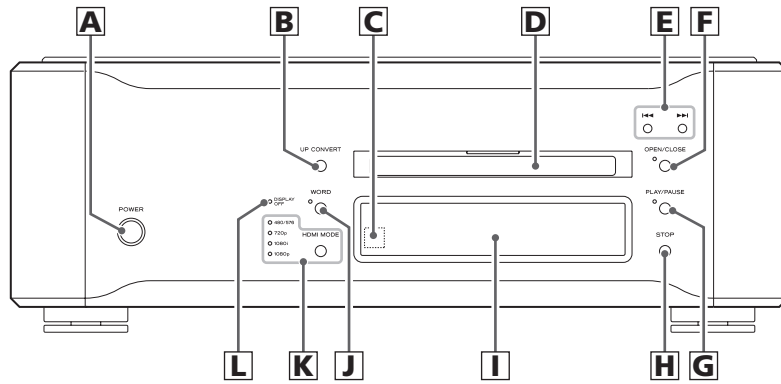


The i.LINK interface of this unit is designed in accordance with the following specifications:

- 1) IEEE Std 1394a-2000, Standard for a High Performance Serial Bus
- 2) Audio and Music Data Transmission Protocol 2.0

This unit is compliant with IEC 60958 bitstream, DVD-Audio, Super Audio CD in the AM824 sequence adaptation layers of this protocol.

Front panel features



A POWER

Turns power on and off. The ring surrounding the button lights when the unit is powered on.

The equipment draws nominal non-operating power from the AC outlet with its POWER switch in the off position.

B UP CONVERT

Use this button to convert the sampling frequency. Hold down this button for 2 seconds or more to engage "output terminal and priority playback area" setup mode.

C Remote control sensor

Receives signals from the remote control unit. Point the remote control at this sensor when using the remote control.

D Disc tray and shutter

A blue LED lights up when the tray is open.

E SKIP (◀◀ / ▶▶)

Use these buttons to skip forward or backward. Hold down the buttons for 1 second or more to change scanning speed.

F OPEN/CLOSE

Press to open or close the disc tray. The indicator flashes when the disc tray is being opened or closed, and also when a disc is being read. The indicator lights when there is a disc in the tray.

G PLAY/PAUSE

Press to play and press again to pause playback. The indicator lights during playback and blinks when paused.

G STOP

Press to stop playback.

E Display

K WORD

Turns the word sync function on and off. When on, the unit will synchronize with an external word sync generator.

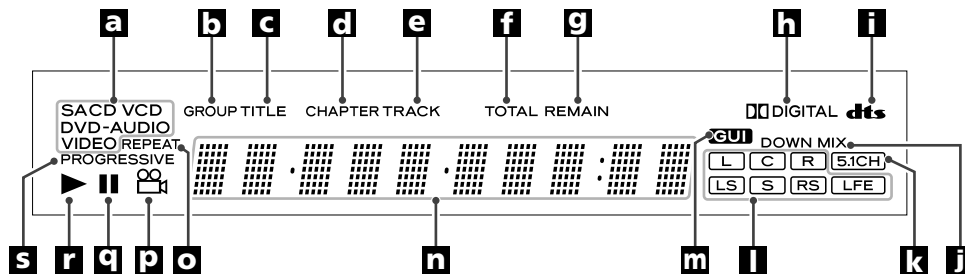
K HDMI MODE

Press to change the HDMI output mode.

K DISPLAY OFF indicator

The indicator lights when the FL dimmer function is set to "OFF".

Front panel display



a Disc type indicator

Shows the type of disc currently loaded.

b GROUP indicator

Indicates that the group number of a DVD audio disc is being shown.

c TITLE indicator

Indicates that the title of a DVD disc is being shown.

d CHAPTER indicator

Indicates that the chapter of a DVD disc is being shown.

e TRACK indicator

Indicates that the track number of a CD, Super Audio CD or video CD is being shown.

f TOTAL indicator

Indicates that the total time is being shown.

g REMAIN indicator

Indicates that the remaining time is being shown.

h DOLBY DIGITAL indicator

Lights to show that Dolby Digital audio is being played back.

i DTS indicator

Lights to show that DTS audio is being played back.

j DOWN MIX indicator

Lights to show that a multi-channel source has been down mixed to 2 channels.

k 5.1CH indicator

Lights to show that 5.1-channel analog output has been selected

l Channel indicators

Light to show which surround channels are currently in use.

m GUI indicator

Lights to show that the GUI (graphical user interface) is being displayed through the video outputs.

n Message area

Alphanumeric display to show times, titles, status messages, etc.

o REPEAT indicator

Lights when repeat playback is selected

p Angle indicator

Lights when an alternative angle is available on the section of the disc being played back.

q Pause indicator

Lights when playback is paused.

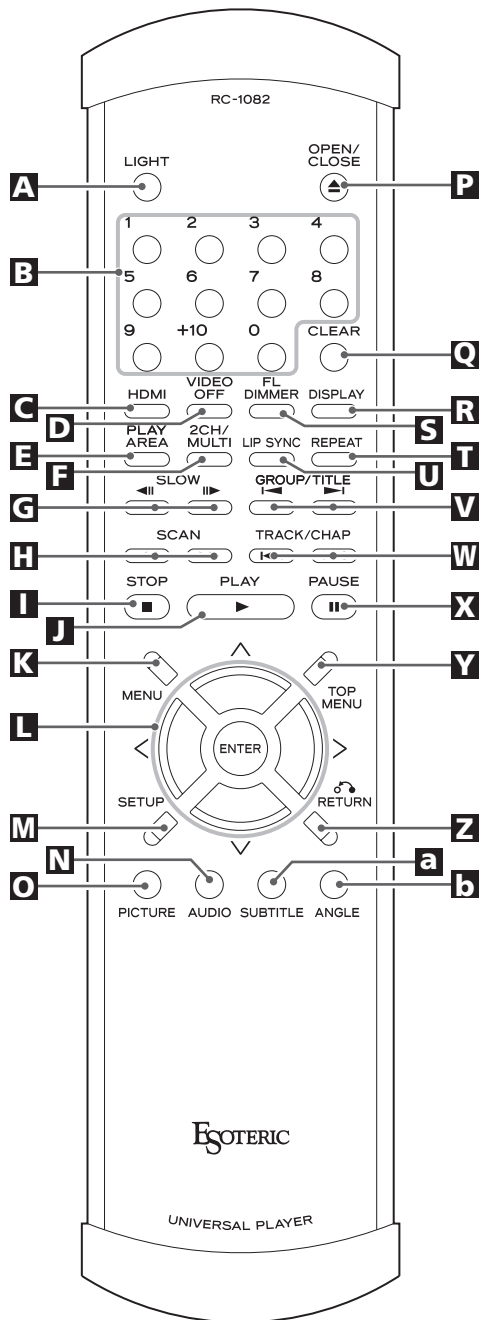
r Playback indicator

Lights when playing a disc.

s PROGRESSIVE indicator

Lights when progressive-scan video output is enabled

Understanding the remote control unit



A LIGHT

Use this to illuminate the white buttons on the remote control unit for several seconds.

B Number buttons

Use these for selecting tracks by number, etc.

C HDMI

Use this to turn HDMI output on and off.

D VIDEO OFF

Use this to turn all video on and off.

When video is tuned off, audio playback quality may improve.

E PLAY AREA

Use this with DVD audio discs and Super Audio CDs to select the playback area.

F 2CH/MULTI

Use this to select 2-channel stereo or multi-channel surround audio output.

G SLOW (◀◀/▶▶)

Use these for slow motion video playback.

H SCAN (◀◀/▶▶)

Use these for fast scanning during playback.

I STOP

Use this to stop playback.

J PLAY

Use this to start playback.

K MENU

Use this button with menu-enabled DVD discs to display the DVD menu.

L Cursor buttons and ENTER

Use these cursor buttons for navigation of on-screen menus and the ENTER button to confirm selections.

M SETUP

Use this button to enter the main menu where you can set up the parameters of the unit.

N AUDIO

Use this to select the audio for playback.

O PICTURE

Use this to select one of the video adjust settings; Reference, Memory 1, Memory 2 and Memory 3. (see page 39)

P OPEN/CLOSE

Use this button to open and close the disc tray.

Q CLEAR

Use this button to clear entry errors, etc.

R DISPLAY

Use this button to change the display mode.

S FL DIMMER

Use this button to change the brightness of the front panel display.

T REPEAT

Use this button to set a repeat playback mode.

U LIP SYNC

Use this to synchronize video and audio when playing back DVDs.

V GROUP/TITLE

Use these buttons to skip back or forward by one group or title.

W SKIP (◀◀ / ▶▶)

Use these for skip operations.

X PAUSE

Use this to pause playback.

Y TOP MENU

Use this button to return control to the top menu of a DVD.

Z RETURN

Use this button to go up a level in the menu systems. When playing back video CDs, use it to return to the top menu.

a SUBTITLE

Use this button to select the subtitle options during DVD playback.

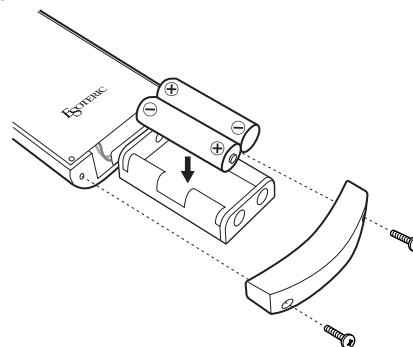
b ANGLE

Use this button to select camera angles during DVD playback. Note that only certain discs allow this feature.

How to insert the batteries

Remove the end cover of the remote control unit with a screwdriver. After checking the polarity (⊕/⊖) of two AA batteries, insert the batteries observing polarity, replace the end cover and replace the screws.

- Take care not to pinch the battery connection cables with the battery case.

**Battery Replacement**

If the distance required between the remote control unit and main unit decreases, the batteries are exhausted. In this case replace the batteries with new ones.

Precautions concerning batteries

- Be sure to insert the batteries with correct positive “⊕” and negative “⊖” polarities.
- Use batteries of the same type. Never use different types of batteries together.
- Rechargeable or non-rechargeable batteries can be used but not mixed together. Refer to the precautions on their labels.
- When the remote control unit is not to be used for a long time (more than a month), remove the batteries from the remote control unit to prevent them from leaking. If they leak, wipe away the liquid inside the battery compartment and replace the batteries with new ones.
- Do not heat or disassemble batteries and never dispose of old batteries by throwing them in a fire.

Notes on use

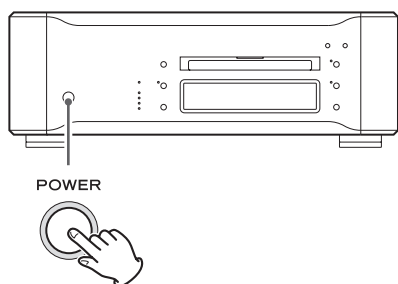
- Point the remote control unit at the player’s remote sensor within seven meters (23 feet) of the player. There should not be any obstacles between the player and the remote control unit.
- Do not allow direct sun or other light to shine on the remote sensor on the player. This may cause the remote control unit to malfunction.
- Note that other units with remote controls may operate incorrectly because of infrared light “overspill” when you operate this remote control unit.

Using the P-03 Universal for the first time

When using the P-03 Universal for the first time or after the P-03 Universal has been reset to factory defaults, it is necessary to select the digital output terminal.

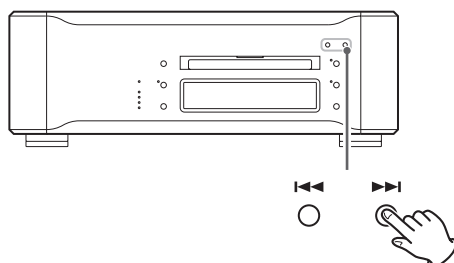
When all connections are completed, perform the following operations. Note that no sound may be output unless you select the proper output terminal.

1 Turn the unit on.



"OUT>Select" blinks on the display.

2 Use the SKIP button (◀◀ / ▶▶) to select digital output.

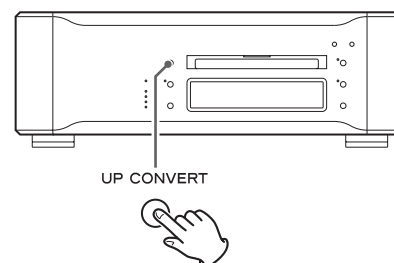


DUAL, i.LINK, RCA, XLR

The output changes with each press of the button. Select the terminal to which the D/A converter is connected.

- Select DUAL when a dual AES device is connected to the unit using XLR digital cables.
- ES-LINK is a proprietary Esoteric format enabling Super Audio CD digital output. To output signals in the ES-LINK format, connect an Esoteric ES-LINK compliant D/A converter (D-03 or D-01) to the two XLR terminals on the unit using XLR digital cables, select the DUAL digital output, and play a Super Audio CD.

3 Press the UP CONVERT button twice to exit setup.



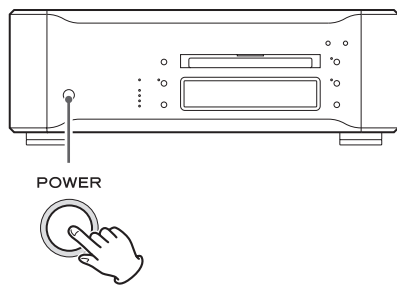
If you want to change the setting, refer to the following page.

Selecting output terminal and priority playback area

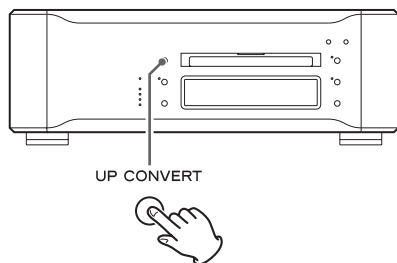
Select a digital output terminal according to connected terminals. Note that incorrect selection will result in no audio output.

Perform the operations described in the section "Using the P-03 Universal for the first time" on the previous page before using the P-03 Universal for the first time or after the P-03 Universal has been reset to factory defaults.

1 Turn the unit on.



2 Hold down the UP CONVERT button for 2 seconds or more.

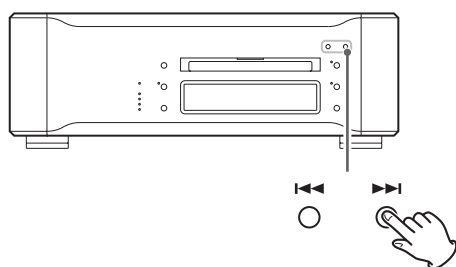


Release the button when "OUT> ***" appears on the display.

("***" depends on the setting.)

The GUI indicator lights when the setup mode is engaged.

3 Use the SKIP button (◀◀/▶▶) to select digital output.



The output changes with each press of the button. Select the terminal to which the D/A converter is connected.

- Select DUAL when a dual AES device is connected to the unit using XLR digital cables.
- ES-LINK is a proprietary Esoteric format enabling Super Audio CD digital output. In order to output signals in ES-LINK format, connect an Esoteric ES-LINK compliant D/A converter (D-03 or D-01) to the two XLR terminals on the unit using XLR digital cables, select the DUAL digital output, and play a Super Audio CD.

To select a digital output, perform operations up to Step 3. Then wait for 10 seconds until the display returns to normal.

To select a Super Audio CD area, go to Step 4.

4 Gently press the UP CONVERT button.

UP CONVERT

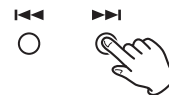


"LAYER>SACD" or "LAYER>CD" appears on the display.

There are two types of Super Audio CDs, regular ones that contain 2-channel stereo and multi-channel stereo and hybrid discs (two-layer discs) that contain Super Audio CD and regular CD data.

The setting described here allows you to determine which layer will be first selected for playback (the priority playback layer) with a hybrid Super Audio CD.

5 Press SKIP (◀◀/▶▶) to change setting.



SACD (default setting):

This mode gives priority to the Super Audio CD layer. The "2ch" setting of the "2ch/Multi ch" selection plays back the 2-channel layer while the "Multi ch" setting plays back the multi-channel layer.

CD:

This mode gives priority to the CD layer.

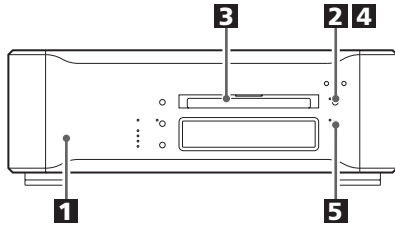
- Selecting a layer that is not on the disc results in playback of the alternative layer that is found on the disc.

6 Gently press the UP CONVERT button (or leave the unit idle for 10 seconds) to exit setup.

UP CONVERT



Playback



1 Turn the unit on.



Each press of the POWER button turns the unit on and off. The ring around the button and the display light up when the unit is turned on.

- Also turn on the D/A converters, amplifiers and other devices connected to the unit.
- When the WORD button is set to on, "WRD UNLOCK!" or "NO WORD" will appear on the display when the unit is turned on (as a word signal won't be detected as soon as the unit is powered up). These messages vanish when the word signal is locked.

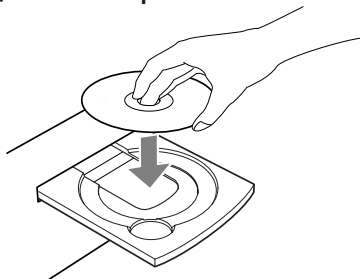
2 Press the OPEN/CLOSE button (▲) to open the tray.



The shutter opens and the disk tray slides out.

- The tray opens after a few seconds (this delay is normal and is due to movement of the VRDS and other mechanisms within the unit).

3 Insert the disc, label side up.



- In the case of double-sided discs, the side to be played should be face down.
- Make sure the disc is centered in the tray in order to avoid any malfunction or jamming of the tray or damage to the disc itself.

4 Press the OPEN/CLOSE button (▲) again to close the tray.



The disc tray and shutter close. Take care to avoid pinching your fingers in the moving tray.

- The unit reads the disc, which takes some time due to the reading and storing of the disc's table of contents. "LOADING" appears on the display during reading. Some discs may automatically start playback.
- The OPEN/CLOSE button indicator flashes when the tray opens or closes and when a disc is being read.

5 Press the PLAY button to start playback if playback has not started automatically.



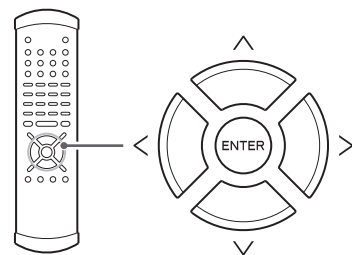
If a menu is shown on screen (some DVD or video discs may show such a menu), see the next section.

On-screen menu

An on-screen menu is shown when a DVD or video CD with playback control (PBC) content is loaded. The way in which the menu works may differ from disc to disc.

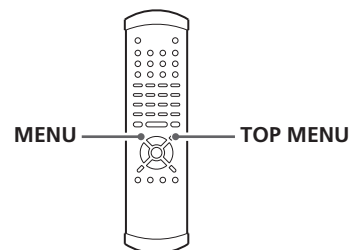
DVD menus

Use the cursor buttons to select the menu item from a DVD, and confirm the selection using the ENTER button.



Returning to the menu screen

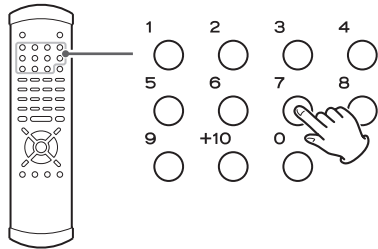
Press either the MENU button or (to return to the top menu) the TOP MENU button.



- Depending on the disc, pressing MENU or TOP MENU during playback may restart playback from the first chapter.
- This function is not available with a DVD-RW disc with VR content.

Playback control (with PBC enabled) video CDs

With these discs, the number buttons can sometimes be used to select menu items.



Jump between pages of multi-page menus (on some video CDs) with the SKIP buttons (I◀◀/▶▶I).

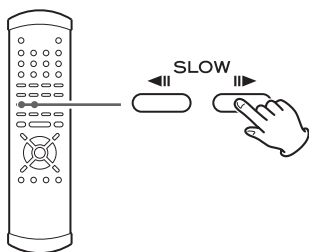
- Pressing RETURN during playback returns to the menu of a PBC video CD.
- Note that the DISPLAY and REPEAT buttons do not work during PBC playback.

Playback without PBC

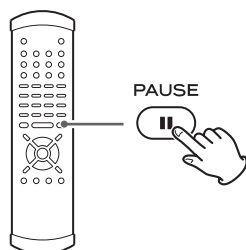
In the stop mode press the number buttons or SKIP buttons (I◀◀/▶▶I) and PLAY button to playback video CDs without using the PBC facility.

DVD audio discs with picture stills

Use the SLOW buttons (◀◀II/II▶▶) to change between still images that are shown when some DVD audio discs are played back.



Pausing playback (freezing the picture)

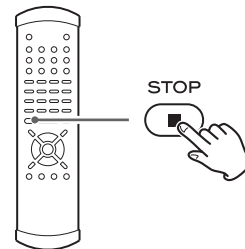


Press the PAUSE button to pause audio playback. Any DVD or video CD image is frozen.

Press PLAY or PAUSE to restart playback.

- If the still picture appears blurred or noisy, reconfigure the still mode to "field" (see page 47).
- Caution - do not leave player in the "pause" mode for extended periods of time. Damage to your television (monitor) or the player may occur.

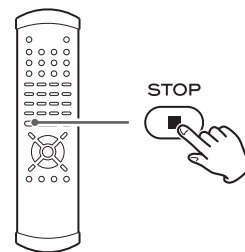
Stopping playback



During playback, press the STOP button to stop playback.

With a video DVD or video CD, the unit enters resume mode (see the next section). Pressing the STOP button again stops playback completely.

Resume mode

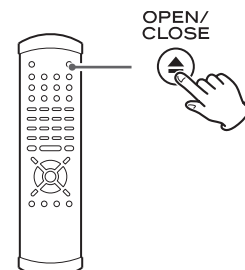


When the STOP button is pressed with a video DVD or video CD, playback is stopped and the display shows "RESUME". Pressing PLAY continues playback from the location where you stopped playing.

Pressing any of the following buttons cancels the resume mode:

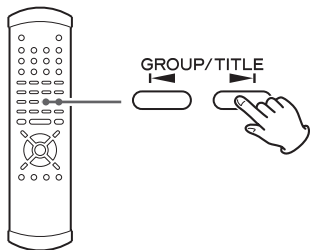
STOP in the stop mode, OPEN/CLOSE

Opening and closing the tray



Pressing the OPEN/CLOSE button opens and closes the disc tray. When you press this button during playback, it may take a few seconds to "unload" the disc and open the tray.

Selecting groups and titles

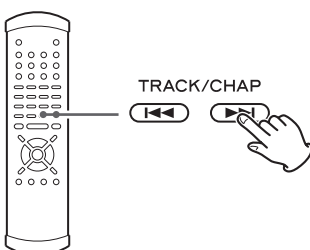


Use the remote control unit's GROUP/TITLE buttons (◀/▶) to change titles and groups on DVD media.

If pressed during playback, these buttons start playback at the selected group/title. If pressed during pause or stop mode, playback is paused at the start of the selected group/title.

Note that some discs may start playback when a group or title is selected, regardless of the pause or stop status.

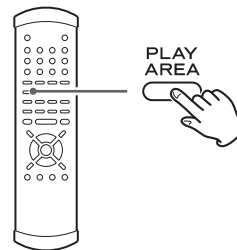
Skipping playback



Press the SKIP button (◀◀ or ▶▶) repeatedly until the desired chapter or track is found. The selected chapter or track will play from the beginning.

- If the ◀◀ button is pressed once during playback, playback returns to the start of the current track or chapter. If it is pressed within one second from the start of the track, playback returns to the start of the previous track or chapter (pressing the button twice in quick succession will skip back two tracks, etc.).
- If tracks or chapters are skipped while playback is paused or stopped, playback will pause at the start of the selected track or chapter.
- When playing back video CDs with PBC, note the following: the ◀◀ button is disabled. The ▶▶ button is disabled in resume mode, but is enabled in play mode. In pause mode, the ▶▶ restarts playback at the start of the selected track.

Selecting the playback area



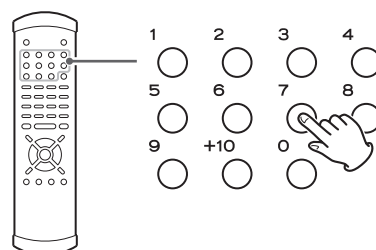
There are two types of Super Audio CDs, regular ones that contain 2-channel stereo and multi-channel stereo and hybrid discs (two-layer discs) that contain Super Audio CD and regular CD data.

Additionally, some DVD audio discs have DVD video areas.

When a hybrid Super Audio CD or a DVD audio disc is loaded and when the playback is stopped, press the PLAY AREA button to select a playback area.

- The setting described on page 21 allows you to determine which layer will be first selected for playback (the priority playback layer).
- The contents accessible as DVD audio and DVD video from the same DVD disc may differ.

Selecting a chapter or track



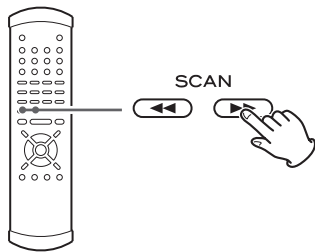
Use the number button to select tracks or chapters for playback. Use the +10 button to enter the first digit of numbers greater than 9 (repeated presses show 1-, 2-, 3- etc.) and the single digit buttons (0 through 9) for the second digit, or single-digit track numbers.

Playback of CD (including video CD and Super Audio CD) starts from the selected track.

Playback of DVD starts from the selected chapter or track if a selection is made during playback or in the stop mode. Playback pauses at the start of the selected track if the selection was made from pause mode. In the stop mode, only chapters from the first title can be selected.

Use the CLEAR button to clear entry mistakes.

Fast scanning



When playing back, use the SCAN button (◀▶ or ▶▶) to move backwards and forwards (sound is muted for DVD video and video CD discs). Press PLAY to restart playback at normal speed at the desired location.

Repeated presses of the SCAN buttons changes the scanning speed. There are three speeds:

Fast (1) → Fast (2) → Fast (3) → Play (normal speed)

The scanning speed is briefly shown on the display.

- You can also use the SKIP buttons of the main unit. To start scanning (or to change the scanning speed), press and hold the SKIP button for more than one second.

Notes on DVD video

Scanning does not work within menus.

If forward scanning reaches the end of the last chapter of a title, playback starts from the start of the next title.

If there is no following title, playback stops.

If backward scanning reaches the start of the first chapter, normal playback starts from there.

Notes on DVD audio and video CD (PBC playback)

Scanning does not work within menus.

If forward scanning reaches the end of a track, the scan stops and playback starts from the beginning of the next track.

If it reaches the last track on the disc, playback stops.

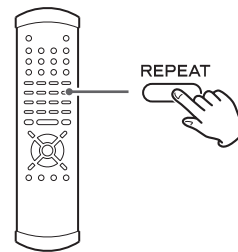
If backward scanning reaches the start of a track, normal playback starts from the start of that track.

Notes on video CD (non-PBC playback), audio CD and Super Audio CD

Scanning can be carried out across track boundaries.

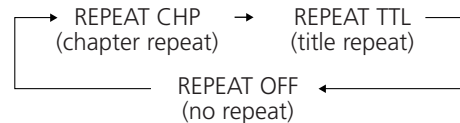
If backward scanning reaches the start of the disc, playback starts from the beginning. If forward scanning reaches the end of the disc, scanning and playback stop.

Repeat mode

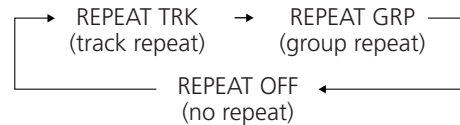


Use the REPEAT button to select the repeat mode for playback. Repeated presses of the REPEAT button cycle between the following options:

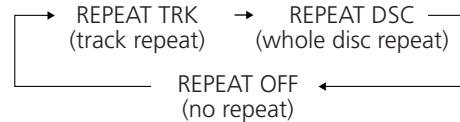
DVD video



DVD audio



CD/VCD with PBC off/Super Audio CD



- Halting playback stops the repeat mode.
- This feature is not available for all discs. The “prohibit” mark is shown on screen in such cases when an attempt is made to repeat playback.
- Repeat playback is not possible for video CDs with PBC enabled.


Chapter and track repeat

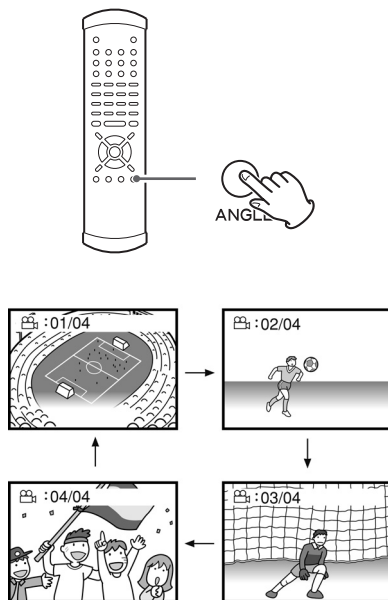
When this is selected, the currently selected track repeats. If another track is selected during repeat playback, the newly-selected track repeats.

Title, group, disc repeat

The current title/group or disc repeats. In the case of a DVD, the current title/group repeats, and for other discs, the entire disc repeats.

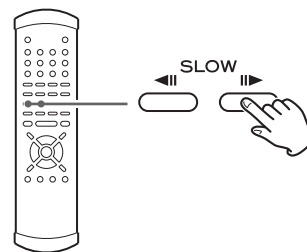
Changing camera angle

When a scene recorded with multiple angles is played, the angle icon  appears on the screen. Each time you press the ANGLE button while the angle icon is displayed, the camera angle changes.





- When no other angle is available on the disc, the prohibit icon "⊘" will be momentarily displayed.
- You can change the setting so that the angle icon isn't displayed, even when a scene recorded with multiple angles is played. See page 48 for details.
- The ANGLE button doesn't work during pause.

Slow motion/frame advance





Slow motion

During playback, press either of the SLOW buttons (/) to slow playback in either direction.

Pressing PLAY resumes normal speed playback.

Repeated presses of the SLOW buttons change the slow playback speed:

 : 1/8 → 1/4 → 1/2 → normal speed

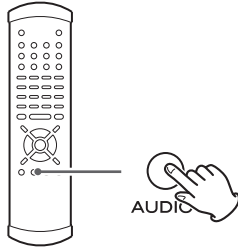
 : 1/20 → 1/16 → 1/12 → playback at normal speed

Frame advance

If you press the SLOW buttons when playback is paused, you can advance or go back one frame at a time. Pressing PLAY restarts playback at normal speed.

- Sound is muted while slow playback or frame advance is operating.
- You cannot use backward slow motion or frame advance with video CDs. Also, some other discs may not allow this. In these cases, the prohibit mark "⊘" is shown on screen if you attempt slow motion or frame advance.
- If the still or slow picture appears blurred, check the "still mode" setting (see page 47).

Selecting audio



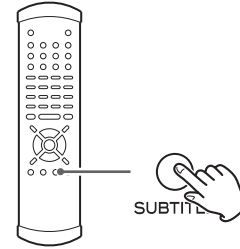
Many DVD discs include audio in different languages, as well as stereo and multi-channel surround versions of the soundtrack.

Video CDs allow the left, right or stereo channels to be selected. This facility is not available for audio CDs or Super Audio CDs.

Pressing the AUDIO button selects between the different audio tracks available on a disc. The selection is shown on screen.

- Sometimes the picture playback will appear to freeze momentarily when the audio selection is changed.
- It may be necessary to change the audio on some discs using the on-screen disc menu.
- Some discs cannot have their audio changed in the way described here, including some discs which only have one audio stream. If you attempt to select different audio with these discs, the "prohibit" mark is shown on screen.
- Some DVD audio discs have two, or more, audio groups. In this case, select the audio group that contains your selected program material.

Selecting subtitles

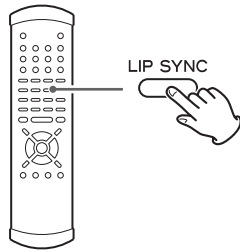


Use the SUBTITLE button to select DVD subtitles.

Repeated presses of this button cycle through available languages on a disc until OFF is reached (no subtitles).

- Subtitles do not always appear immediately after the language has been selected. It may be necessary to wait a few seconds until the subtitles appear.
- Some captions on some discs cannot be removed or changed using this button. Additionally, a disc must have at least one captioning language available for this feature to work. Some discs may have only one sub-caption language, in which case, the choice is restricted to one subtitle or no subtitles.
- It may be necessary to change the subtitles on some discs using the on-screen disc menu.
- Some discs cannot have their subtitles changed in the way described here. If you attempt to select a different subtitle with these discs, the "prohibit" mark is shown on screen.

Lip sync

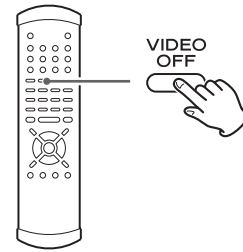


This function allows you to adjust the synchronization of the video and audio portions of a DVD.

Press the LIP SYNC button to display the current lip sync value (default is 0). Use the left and right cursor buttons to adjust the value. Positive values mean that the sound is delayed relative to the picture.

- Press LIP SYNC again to cancel this setting. Any other operational display appearing on screen will also cancel this setting. Note that lip sync selection screen should be cancelled if you need to use the left and right cursor buttons to navigate menus, etc.
- The lip sync value you set is stored when you turn the unit off and will be remembered the next time you turn the unit on.
- To use the lip sync function, set Dolby Digital, DTS and MPEG Audio of "Audio Digital Out" setting to "PCM" (see page 45).

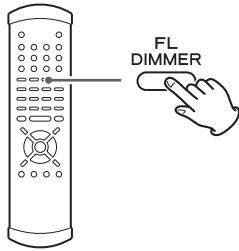
Turning video on and off



Use the VIDEO ON/OFF button to turn video output to the television (monitor) on and off. It is not necessary to turn video off, but you may notice a slight improvement in audio quality if you turn off the video when playing back Super Audio CD discs and CDs without video images.

Note that this setting is not memorized when the power is turned off.

Display dimming



The display on the main unit can be dimmed to suit the environment in which you listen to music or watch video.

Use the FL DIMMER button to cycle between these settings.

FL Dimmer3:

Full brightness

FL Dimmer2:

Medium brightness

FL Dimmer1:

Minimum brightness

OFF:

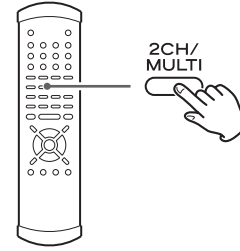
The display and indicators (except the DISPLAY OFF indicator) are off.

FL DIMAuto (FL Dimmer Auto):

The display and indicators (except the DISPLAY OFF indicator) are off during playback. They turn on with the minimum brightness in the stop mode.

- Note that the OFF setting is not memorized when power is turned off. When the unit is turned off with the display off, and then turned on again, the display is reset to minimum brightness (FL Dimmer1).
- In the OFF mode and FL DIMAuto mode, when you press a button such as PAUSE, the illuminations temporarily turn on.

2ch/Multi ch



When playback is stopped, use the 2CH/MULTI button to select either 2CH (stereo) or MULTI (5.1-channel surround) audio output.

This function is also available in the configuration screen (see page 37).

2ch

This mode outputs 2-channel stereo sound. During playback of multi-channel data on a Super Audio CD or DVD, the multi-channel data is down mixed to stereo (front left and right channels). (The DOWN MIX indicator on the display lights.)

Select this mode to listen to 2-channel stereo.

Multi ch

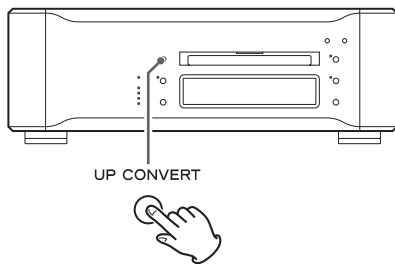
This mode outputs discrete 5.1-channel audio. Select this mode when the P-03 Universal is used with three D-03 units or with a multi-channel D/A converter and an i.LINK connection.

- The 5.1-channel indicator lights when "Multi ch" is selected.

You can convert the 44.1 or 48kHz sampling frequency to 1x, 2x or 4x. It is also possible to convert the PCM signal to a DSD signal.

Press the UP CONVERT button once to display current settings. Further presses change the up conversion rate.

The normal screen display returns 3 seconds after the last button was pressed.



CONV 44.1/48

A 1x conversion rate that outputs the 44.1kHz or 48kHz sampling frequency.

CONV 88.2/96

A 2x conversion rate that outputs a sampling frequency twice the 44.1kHz or 48kHz sampling frequency.

CONV 176.4/192

A 4x conversion rate that outputs a sampling frequency four times the 44.1kHz or 48kHz sampling frequency.

The DUAL digital output mode combined with the 176.4/192kHz sampling frequency outputs an 88.2/96kHz left channel from the XLR1(L) terminal and an 88.2/96kHz right channel from the XLR2(R) terminal.

This requires two XLR cables and a DUAL AES compliant D/A converter.

CONV DSD

When an ES-LINK compliant device is connected to the XLR terminals, the P-03 Universal can convert PCM signals to DSD signals (1 bit, 64 fs) through the XLR terminals. (This signal is output only via the XLR terminals.)

CONV OFF

This setting provides no up conversion.

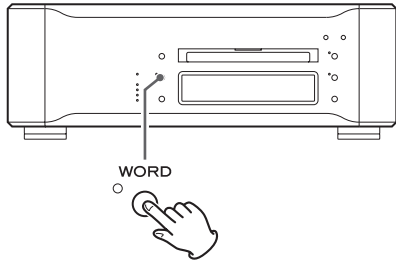
The unit outputs native stream signals (Dolby Digital, DTS or MPEG) during playback of a DVD-Video disc.

- Super Audio CDs output a DSD signal (1 bit, 64fs) and cannot be up converted.
- Select 88.2/96kHz or 176.4/192kHz for the DUAL digital output mode. A 44.1/48kHz or OFF setting will result in no data output.
- The i.LINK terminal cannot output up converted signals or signals converted to DSD signals. The RCA terminals cannot output signals converted to DSD signals. For details, see the chart on page 12.
- The PAL 4% down mode doesn't work when the up conversion is set to "CONV DSD".

Word sync

Use this feature to lock your entire system to a single sync signal (clock) by connecting this unit to the Esoteric D-03, G-0s or similar device that outputs a sync signal, or when you want to use any other precision external clock rather than the one inside the P-03 Universal.

Each press of the WORD button turns the function on or off.



Word ON ↔ Word OFF (normal playback)

- This unit is ready for the following clocks and switches itself depending on an incoming signal:

44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz

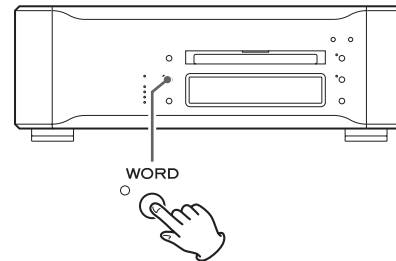
This unit also accepts a Universal Clock frequency of 100 kHz.

- The indicator flashes and the unit starts searching for an external sync signal when "Word ON" is selected. The indicator changes to a steady blue light when the unit detects and locks on to an external clock, indicating it is ready for playback.
- Make connections to the WORD SYNC terminal before turning on the unit.
- Switching word sync on and off may occasionally result in noise from the D/A converter. In this situation, turn off the unit and lower the amplifier sound volume before switching the function on or off.

PAL 4% DOWN mode

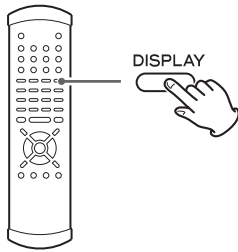
This allows a 4% reduction in frame rate. PAL video plays back at 25 frames per second (fps), but movies are shot at 24fps. This mode helps to resolve the discrepancy by allowing an external clock source at 4% less than standard to be received. The external clock source should be set to this 4% frequency reduction (called "PAL FILM" on the optional Esoteric G-0 and G-0s models).

Press and hold the WORD button for three seconds or more to turn on or off the PAL 4% down mode.



- Note that the signals from the composite video outputs are cancelled when this mode is selected. In addition, the audio pitch drops.
- The PAL 4% down mode works during playback of a PAL disc only.
- The PAL 4% down mode doesn't work when the up conversion is set to "CONV DSD".

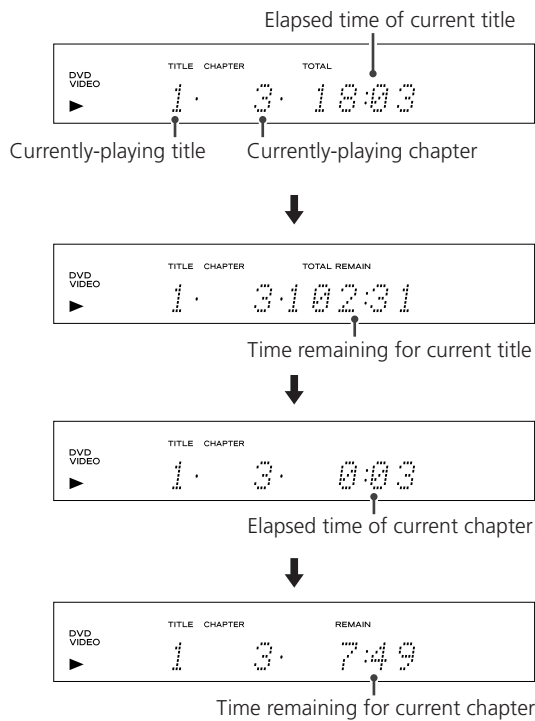
Changing the display mode



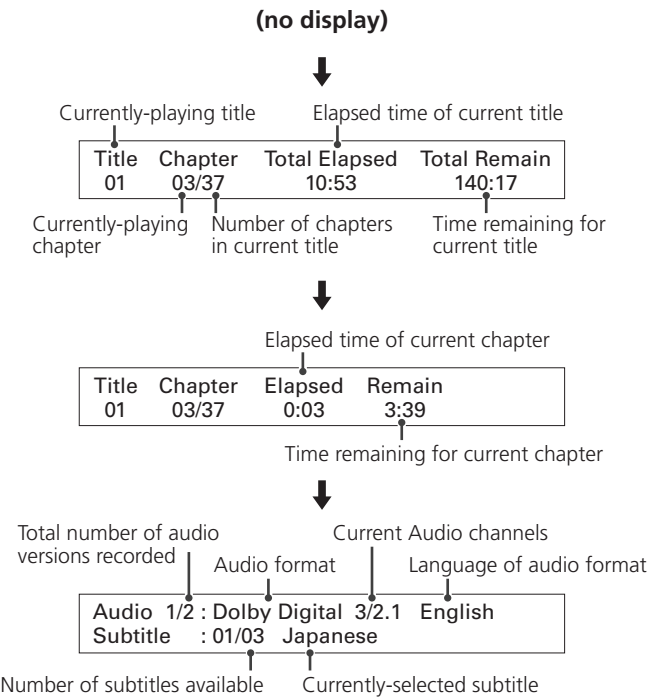
During playback, it is possible to change the display as shown here. The display on both the main unit, and the on-screen display (when the video output is on) changes.

When playback stops, the display mode reverts to the first type of display.

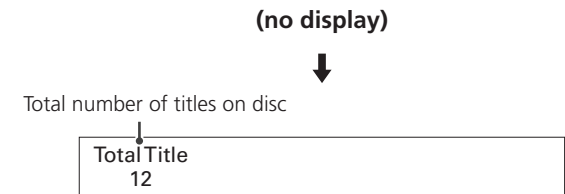
DVD video playback (main unit display)



DVD video playback (on-screen display)

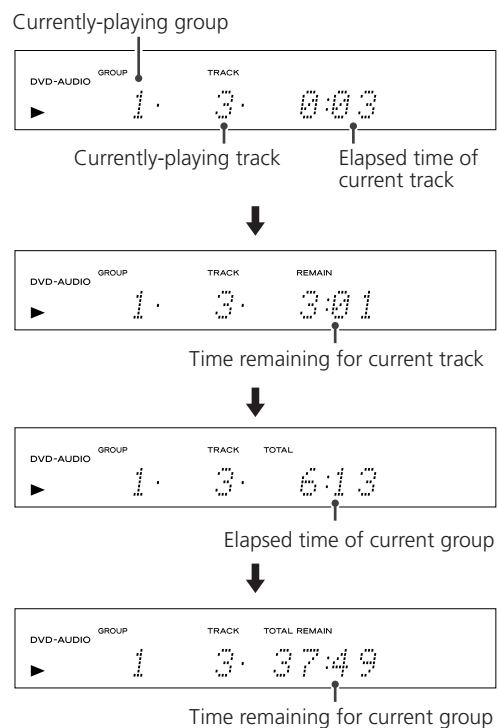


DVD video (stopped, on-screen display)



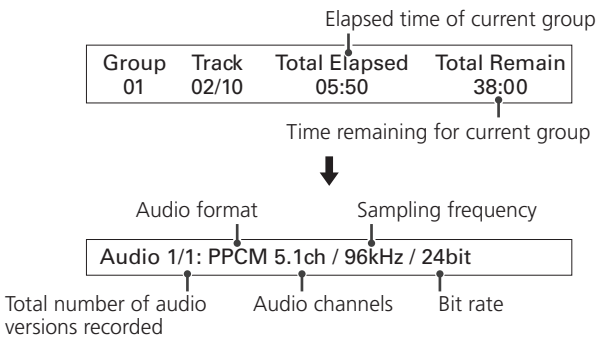
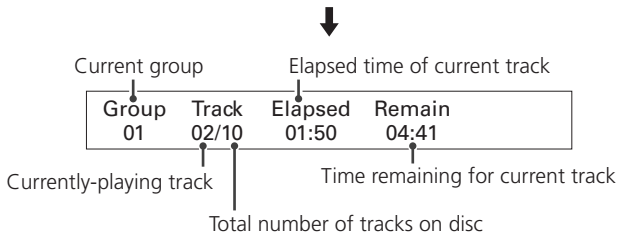
- When DVD video playback is stopped, the display on the main unit doesn't change.

DVD audio playback (main unit display)



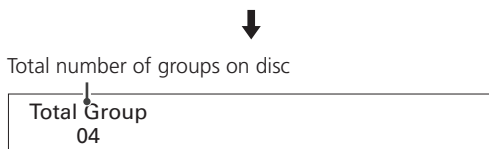
DVD audio playback (on-screen display)

(no display)



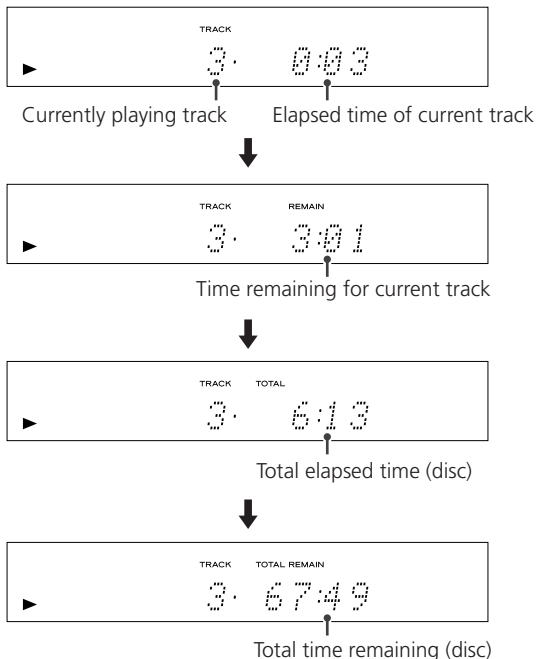
DVD audio (stopped, on-screen display)

(no display)

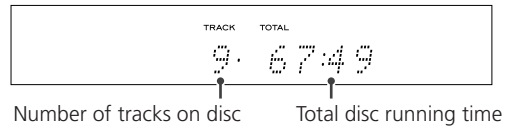


- When DVD audio playback is stopped, no display appears on the main unit.

Super Audio CD/CD/video CD playback (main unit display)

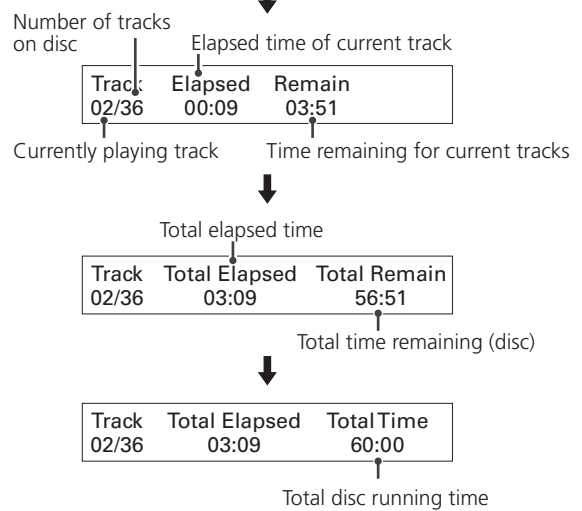


Super Audio CD/CD/video CD (stopped, main unit display)



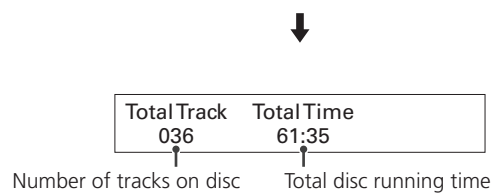
Super Audio CD/CD/video CD playback (on-screen display)

(no display)



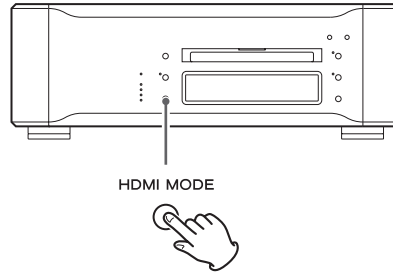
Super Audio CD/CD/video CD (stopped, on-screen display)

(no display)



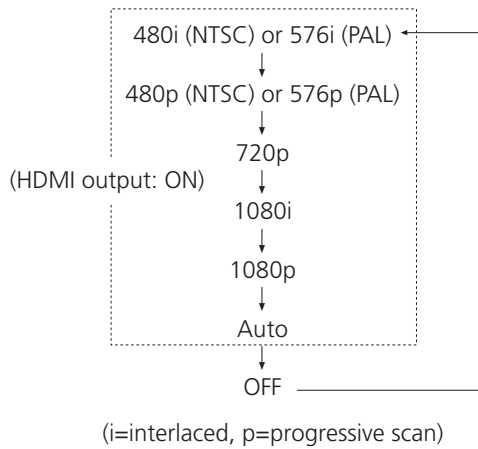
- The above does not apply to video CDs played back using the PBC system.

HDMI video output format



When the HDMI terminal is connected to a television or monitor, select the proper HDMI video output format.

Each time the HDMI MODE button is pressed, the HDMI video output setting changes.



Select "Auto" when the unit is connected to a device with an HDMI terminal. The format recommended by the receiving side is automatically selected.

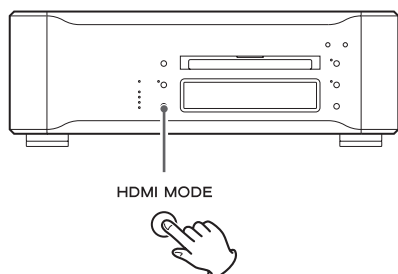
Do not select "Auto" when the unit is connected to a device using an HDMI-DVI conversion cable.

- You can also use the HDMI button on the remote control unit to turn ON (the format selected by the HDMI MODE button on the main unit) or OFF the HDMI video output.
- When the HDMI output is on, even if progressive scan has been selected for the component video outputs, an interlaced signal is output from the COMPONENT VIDEO terminals.
- If the television or monitor is equipped only with a DVI terminal, a suitable adaptor cable or adaptors should be used. Note that a television or monitor connected in this way must be HDCP compliant. Also note that this DVI-HDMI connection outputs no sound.

HDMI output settings

When the HDMI terminal is connected to a television or monitor, select the proper HDMI video output settings.

- 1** When playback is stopped, press and hold the **HDMI MODE** button for more than 2 seconds.



The unit enters a setup mode, and "H_RGB>***" appears on the display. (***) changes depending on your setting.)

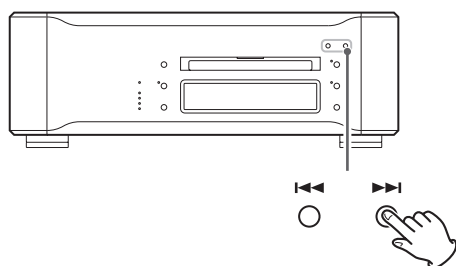
The setup mode will be cancelled if you:

- Leave the unit idle for 10 seconds.
- Press and hold the HDMI MODE button for more than 2 seconds once again.

- 2** Repeatedly press the **HDMI MODE** button to select a menu item to be changed.



- 3** Use the **SKIP** buttons (◀◀/▶▶) to select the options within the menu item.



- 4** Press and hold the **HDMI MODE** button for more than 2 seconds (or leave the unit idle for 10 seconds) to exit the setup mode.



- Exit the setup mode before turning the unit off. Switching off power without exiting the setup mode may cause problems.
- Settings are stored even when power is turned off and the unit is unplugged. If left unplugged for an extended period of time, the settings may be lost and the unit will default back to factory settings.

Available menu item and options

H_RGB

Selects a video signal output from the HDMI terminal. Choose either "RGB" or "YCbCr".

- When units not supporting YCbCr are connected with a HDMI cable, RGB is automatically output even when YCbCr is selected.
- "RGB" is selected for connections using a HDMI-DVI conversion cable.

H_EXP

Selects HDMI level. Choose either "EXPAND" or "NORMAL".

When HDMI output is enabled, the black areas shown on the television or monitor may not appear dark enough. In this case, it is necessary to select the EXPAND option.

H_ASP

Selects an aspect ratio for HDMI output. Choose either "4:3" or "FULL".

It may sometimes be necessary to change the aspect ratio when video is output and displayed through the HDMI terminal, especially when 720p or 1080i is selected. Use the television or monitor controls to change the format.

If your television or monitor controls cannot change the aspect ratio, change the output mode of the P-03 Universal to "4:3".

FRC (Frame Rate Converter)

This function converts the frame rate of DVD-Video discs. Normally select "NORM".

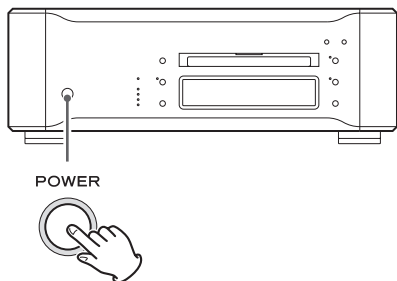
Select "72Hz" only when the device connected to the HDMI terminal supports the vertical frequency of 72Hz or 75Hz. The vertical frequency of 480p/576p, 720p and 1080i will be converted to 72Hz (NTSC) or 75Hz (PAL).

(Normal display)

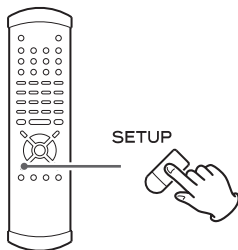
Exit the setting mode.

Settings (introduction)

1 Turn on the main unit and the television or monitor.

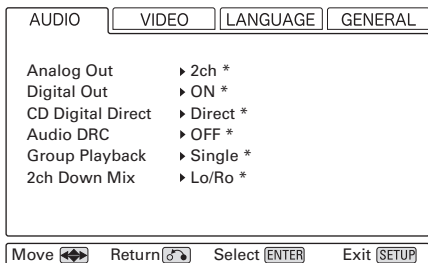


2 Press the SETUP button.



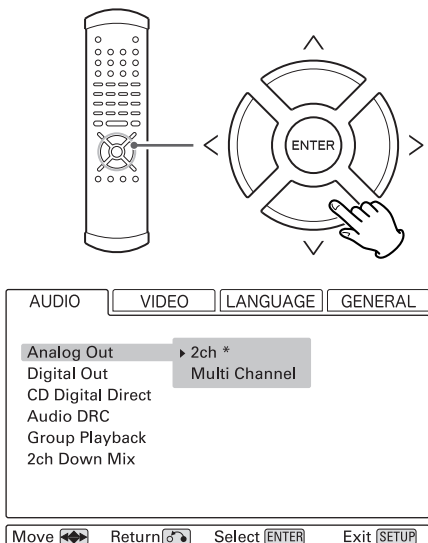
The following appears on screen.

Factory settings are marked with an asterisk "**".



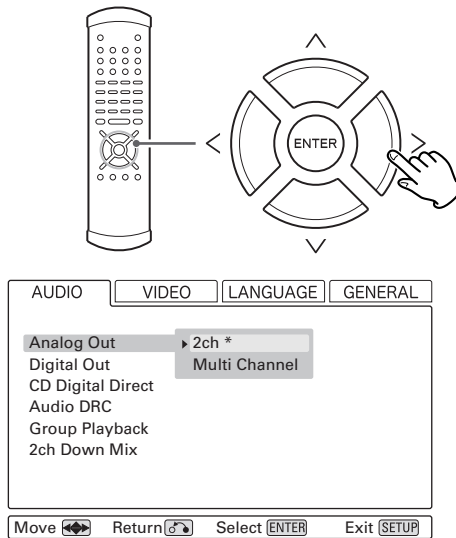
- Exit the setup mode by pressing SETUP once again.
- Although it may be possible to enter the setup screen during playback or during resume mode, not all menu functions will be available. Expand the number of available functions by pressing the STOP button twice.

3 Use the cursor buttons to navigate the menus.

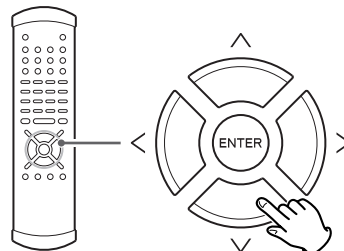


If no cursor is visible on the screen, using the left and right buttons changes between the top tabbed menus. Use the up and down buttons to highlight menu items within these tabbed menus. RETURN returns the display to the top level.

4 Enter the menu item with the right cursor button.



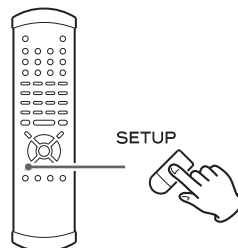
5 Use the up and down cursor buttons to select the options within the menu item, and press ENTER to confirm the entry.



Individual menu functions are described on pages 37 through 49.

Repeat steps 3 through 5 as required.

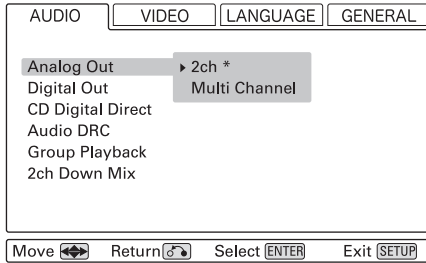
6 Exit the setup mode by pressing SETUP again.



The display on the main menu also gives some menu messages and allows settings to be made, but it is easier to use the on-screen display to select these settings (remember that video output must be turned on!).

Analog output settings

[AUDIO → Analog Out]



2ch

Outputs 2-channel audio.

If multi-channel program material is played, the multi-channel material will be down mixed to two channels and the DOWN MIX indicator will light on the display.

See page 38 for how to set the down mix mode.

Multi Channel

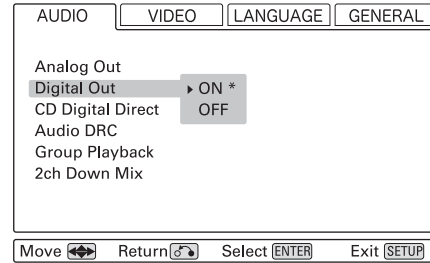
The unit outputs multi-channel surround sound.

Select this when a surround sound amplifier with a multi-channel decoder is connected.

- The 2CH/MULTI button of the remote control unit also provides the same function (see page 29).
- Note that if "Multi Channel" is selected, only the front L/R sound of the multi-channel material will be output from the XLR and RCA terminals.
- Note that some DVD discs cannot be down mixed (from multi channel to 2-channel). In these cases, no digital sound will be output.
- Speakers should be set up properly for multi-channel use. See page 43 for details.
- Note that if "Multi Channel" is selected and if the connected HDMI component cannot accept multi-channel sound, only the front L/R sound of the multi-channel material will be output from the HDMI terminal.

Digital output settings

[AUDIO → Digital Out]



ON

Audio is output from the i.LINK (AUDIO) terminal and the HDMI terminal. Select "ON" when using these terminals.

When the disc is a DVD-Video, VCD or CD, the digital signal is output in the format (Stream or PCM) that you set in the Audio Digital Out menu (see page 45).

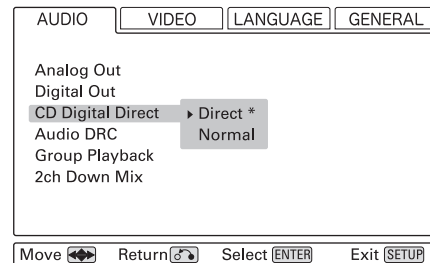
OFF

Audio is not output from the HDMI terminal.

Linear PCM digital signals are output from the i.LINK (AUDIO) terminal.

CD Digital Direct

[AUDIO → CD Digital Direct]



Direct

This setting bypasses unnecessary circuitry and provides better sound quality when listening to audio CDs.

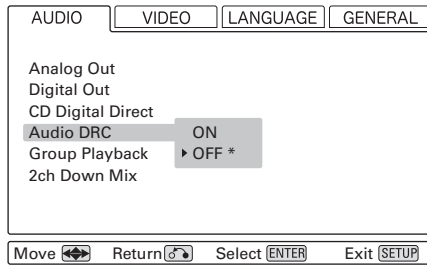
Normal

When the i.LINK (AUDIO) terminal is connected to a surround sound amplifier with a decoder, and when you don't use the speaker menus of the amplifier, select this setting.

When playing back DTS-CDs (DTS digital surround), select this setting.

Audio DRC (Dynamic Range Control)

[AUDIO → Audio DRC]



ON

Applies dynamic range control to Dolby Digital material, reducing the volume of loud sounds and increasing the volume of quiet ones. This is useful for spoken word material and for nighttime listening.

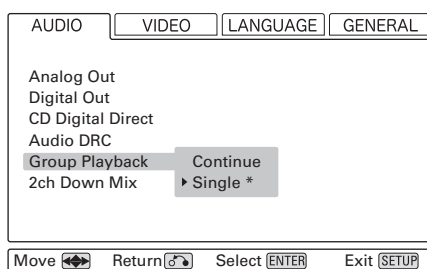
OFF

Turns off audio dynamic compression.

- This function is effective only when playing back a DVD disc recorded with Dolby Digital. This control has no effect on other discs.
- The overall effect of this setting depends on many variables: the disc being played, the amplifier, and the speakers used for reproduction.

Group playback mode (DVD audio)

[AUDIO → Group Playback]



Continue

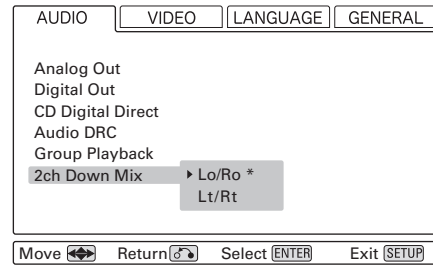
Plays all groups. Moving between groups is not possible when the menu screen is displayed.

Single

Plays the group selected using the menu. Fast forward, track skip, etc. cannot be used to move between groups.

Down mix

[AUDIO → 2ch Down Mix]



Lo/Ro

Usual stereo mode. Use this for stereo playback, etc.

Lt/Rt

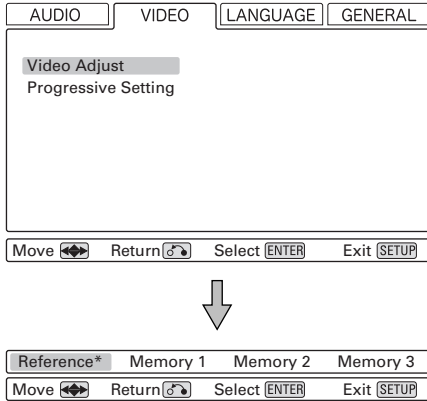
Multi-channel sound is encoded into Dolby Surround compatible 2-channel.

- To down mix multi-channel sound, set the Analog Out setting to "2ch"
- Note that this setting is ignored for DVD audio discs and Super Audio CDs as these are down mixed in the Lo/Ro mode automatically.

Video adjustment

[VIDEO → Video Adjust]

- 1 Highlight the Video Adjust menu item and press the ENTER button.



Near the bottom of the display, a row of four options appears: Reference and three memory settings (Reference contains the factory default settings and the three memories can be used to make video settings for different monitors, types of program material, etc.).

Usually, you will not need to change these settings but there may be occasions when you want to alter one or two parameters for a perfect picture, based on your choice of source material.

- 2 To change settings, use the left and right cursor buttons to highlight one of the Memory settings, and then press ENTER.

- Selecting the Reference setting returns you to the VIDEO menu.

- 3 Use the up and down buttons to select the parameter, and the left and right buttons to change the value.

Sharpness

Adjusts the sharpness of the picture shown on the television or monitor.

Contrast

Adjusts the picture contrast

Brightness

Adjusts the brightness of the picture

Gamma

Adjusts the gamma value of the picture

Hue

Adjusts the green/red balance of the picture (only for progressive-scan and composite video outputs).

Chroma Level

Adjusts the chroma level of the picture

Chroma Delay

Sets the delay between the Y and C signals (only affects progressive-scan pictures).

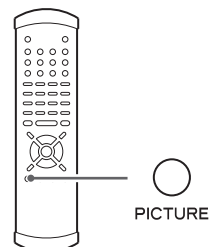
Black Setup

Use this to enhance the black level of the picture, to assist in the "3D look" of some scenes. Normally, this setting should be 0 IRE. Change it only if necessary.

- Sharpness, Gamma and Hue have no effect on the HDMI video signal output terminal.

- 4 Press RETURN when done, to return to the memory selection screen, or press SETUP to exit the setup menu completely.

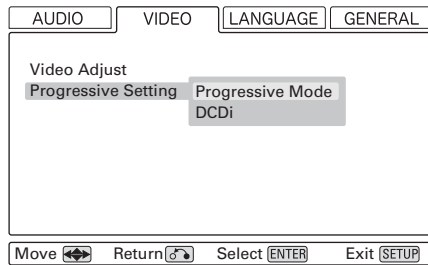
- You can use the PICTURE button of the remote control unit to select Reference, Memory 1, Memory 2 or Memory 3.



Settings (Video)

Progressive Mode

[VIDEO → Progressive Setting → Progressive Mode]



Within Progressive Mode, there are two settings: Auto and Video. Use the left and right cursor buttons to select these choices.

Typically, the Auto setting should be used but in the case of jagged or blurred playback of a DVD, you may want to select the Video option.

- When the HDMI output is turned on, even if progressive scan has been selected for the component video outputs, an interlaced signal is output from the COMPONENT VIDEO terminals.

A note on progressive-scan

The video on DVD discs may be either originally shot on video or film. Video material has a frame rate of 30fps (NTSC) while film is at 24 frames per second. In progressive-scan mode, film material is converted to 60 frames per second, and the player adjusts the picture to match the quality seen from a cinema screen. As mentioned above, Auto is the usual setting for Progressive Mode, but Video may be used if the picture appears jagged.

DCDi

[VIDEO → Progressive Setting → DCDi]

The DCDi circuit, which smoothes edges in the process of converting images from DVD discs into progressive-scan images and creates a natural image projection, has three settings: ON, OFF and AUTO. Use the left and right cursor buttons to select these choices, and press the ENTER button to store.

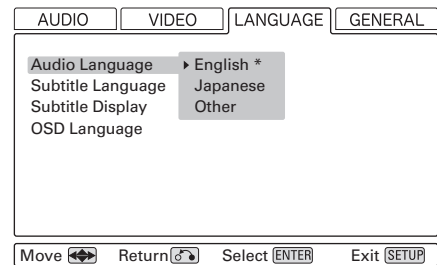
The DCDi circuit is typically effective for video material.

- Try setting the DCDi circuit to ON when diagonal lines appear jagged on playing back video material through progressive scan. With film material also, there are occasions when the ON setting produces better images in terms of smoothness and depth.
- At the AUTO setting, the DCDi circuit detects whether the source is video or film and switches itself between ON and OFF accordingly. Please note, however, that this auto switching does not always work as expected depending on how the discs were encoded.

Settings (Language)

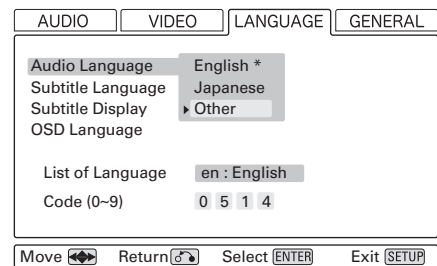
Audio language selection

[LANGUAGE → Audio Language]



This provides an alternative to the AUDIO button for selecting different language soundtracks. The default setting is English but you can also select Japanese, or a number of other different languages for audio track playback if encoded on a multi-lingual disc.

To select a language other than English or Japanese, move the cursor to "Other" and press ENTER.



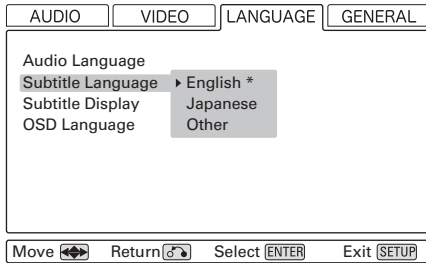
If you select the "List of Language" field, you will see a list of ten relatively common languages. Select from this list by moving the cursor and pressing ENTER.

If the language you want is not listed here, but is listed on page 42, move the cursor to the Code (0-9) field (all numbers are reset as dashes) and use the number buttons to enter the four-digit code for that language. Press ENTER when done.

- If the selected language is not available on the disc, the first language of the disc is played.

Subtitle language selection

[LANGUAGE → Subtitle Language]



This provides an alternative to the SUBTITLE button for selecting different subtitle languages. The default setting is English but you can also select Japanese, or a number of other different languages for the subtitles to be displayed.

To select a language other than English or Japanese, move the cursor to Other and press ENTER.

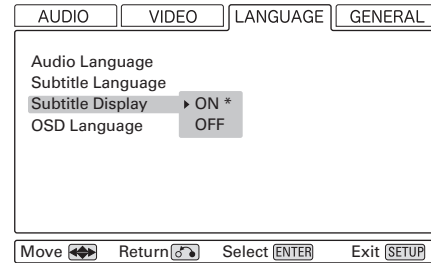
If you select the "List of Language" field, you will see a list of ten relatively common languages. Select from this list by moving the cursor and pressing ENTER.

If the language you want is not listed here, but is listed on page 42, move the cursor to the Code (0-9) field (all numbers are reset as dashes) and use the number buttons to enter the four-digit code for that language. Press ENTER when done.

- If the selected language is not available on the disc, the first subtitle language of the disc is used.

Displaying subtitles

[LANGUAGE → Subtitle Display]

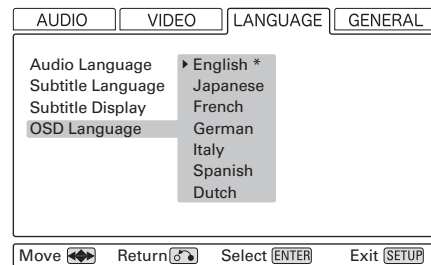


This turns subtitling ON or OFF.

Note that the captions on some disks cannot be turned off.

On-screen display language

[LANGUAGE → OSD Language]



Select an OSD language. The default setting is English.

NOTE: If the unit is set to a foreign language and you find it impossible to read the menu settings, you can restore all factory default settings and the menus will appear in English (all other manual settings will be erased).

Language Code List

Language	Code
Japanese (ja)	1001
English (en)	0514
French (fr)	0618
German (de)	0405
Italian (it)	0920
Spanish (es)	0519
Chinese (zh)	2608
Dutch (nl)	1412
Portuguese (pt)	1620
Swedish (sv)	1922
Russian (ru)	1821
Korean (ko)	1115
Greek (el)	0512
Afar (aa)	0101
Abkhazian (ab)	0102
Afrikaans (af)	0106
Amharic (am)	0113
Arabic (ar)	0118
Assamese (as)	0119
Aymara (ay)	0125
Azerbaijani (az)	0126
Bashkir (ba)	0201
Byelorussian (be)	0205
Bulgarian (bg)	0207
Bihari (bh)	0208
Bislama (bi)	0209
Bengali (bn)	0214
Tibetan (bo)	0215
Breton (br)	0218
Catalan (ca)	0301
Corsican (co)	0315
Czech (cs)	0319
Welsh (cy)	0325
Danish (da)	0401
Bhutani (dz)	0426
Esperanto (eo)	0515
Estonian (et)	0520
Basque (eu)	0521
Persian (fa)	0601
Finnish (fi)	0609
Fiji (fj)	0610
Faroese (fo)	0615
Frisian (fy)	0625
Irish (ga)	0701
Scots-Gaelic (gd)	0704
Galician (gl)	0712

Language	Code
Guarani (gn)	0714
Gujarati (gu)	0721
Hausa (ha)	0801
Hindi (hi)	0809
Croatian (hr)	0818
Hungarian (hu)	0821
Armenian (hy)	0825
Interlingua (ia)	0901
Interlingue (ie)	0905
Inupiak (ik)	0911
Indonesian (in)	0914
Icelandic (is)	0919
Hebrew (iw)	0923
Yiddish (ji)	1009
Javanese (jw)	1023
Georgian (ka)	1101
Kazakh (kk)	1111
Greenlandic (kl)	1112
Cambodian (km)	1113
Kannada (kn)	1114
Kashmiri (ks)	1119
Kurdish (ku)	1121
Kirghiz (ky)	1125
Latin (la)	1201
Lingala (ln)	1214
Laothian (lo)	1215
Lithuanian (lt)	1220
Latvian (lv)	1222
Malagasy (mg)	1307
Maori (mi)	1309
Macedonian (mk)	1311
Malayalam (ml)	1312
Mongolian (mn)	1314
Moldavian (mo)	1315
Marathi (mr)	1318
Malay (ms)	1319
Maltese (mt)	1320
Burmese (my)	1325
Nauru (na)	1401
Nepali (ne)	1405
Norwegian (no)	1415
Occitan (oc)	1503
Oromo (om)	1513
Oriya (or)	1518
Panjabi (pa)	1601
Polish (pl)	1612

Language	Code
Pashto, Pushto (ps)	1619
Quechua (qu)	1721
Rhaeto-Romance (rm)	1813
Kirundi (rn)	1814
Romanian (ro)	1815
Kinyarwanda (rw)	1823
Sanskrit (sa)	1901
Sindhi (sd)	1904
Sangho (sg)	1907
Serbo-Croatian (sh)	1908
Sinhalese (si)	1909
Slovak (sk)	1911
Slovenian (sl)	1912
Samoan (sm)	1913
Shona (sn)	1914
Somali (so)	1915
Albanian (sq)	1917
Serbian (sr)	1918
Siswati (ss)	1919
Sesotho (st)	1920
Sundanese (su)	1921
Swahili (sw)	1923
Tamil (ta)	2001
Telugu (te)	2005
Tajik (tg)	2007
Thai (th)	2008
Tigrinya (ti)	2009
Turkmen (tk)	2011
Tagalog (tl)	2012
Setswana (tn)	2014
Tonga (to)	2015
Turkish (tr)	2018
Tsonga (ts)	2019
Tatar (tt)	2020
Twi (tw)	2023
Ukrainian (uk)	2111
Urdu (ur)	2118
Uzbek (uz)	2126
Vietnamese (vi)	2209
Volapük (vo)	2215
Wolof (wo)	2315
Xhosa (xh)	2408
Yoruba (yo)	2515
Zulu (zu)	2621

Settings (Speaker setup for i.LINK (AUDIO) and HDMI terminals)

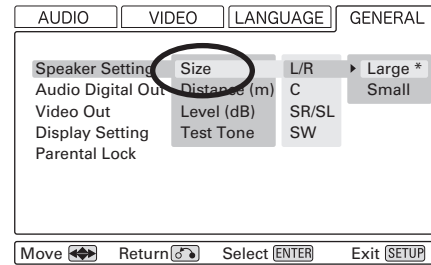
Use these speaker setup menus when the i.LINK (AUDIO) terminal or the HDMI terminal is connected to a surround sound amplifier with a decoder, and when you don't use the speaker menus of the amplifier.

There is no need for this setup when not using the i.LINK (AUDIO) terminal or the HDMI terminal, or when you use the speaker menus of the amplifier. In this case, leave this setup as it is (factory settings).

- This setup has an effect on the sound output from the i.LINK (AUDIO) terminal and the HDMI terminal when the Analog Out setting is set to "Multi Channel".
- In the following cases, the settings made here are ignored:
 - When the Analog Out setting is set to "2ch".
 - Play a DVD-Video with the Audio Digital Out set to "Stream".

Speaker Size

[GENERAL → Speaker Setting → Size]



Select the size (Large or Small) independently for the L/R (front pair of speakers), the C (center speaker) and the SR/SL (surround pair of speakers). Turn the subwoofer (SW) ON or OFF (if you have no subwoofer).

Large

Select this when the connected speakers can fully reproduce bass frequencies.

Small

Select this when the connected speakers are rather small and cannot reproduce low bass frequencies.

When this setting is selected, bass frequencies are output from the subwoofer (if no subwoofer is connected, output will be from the front speakers).

OFF

Select this when no speaker is connected. The sound is output from the front (or surround) speakers.

- When the front speaker is set to "Small", the subwoofer is set to "ON" automatically. You cannot set the subwoofer to "OFF".

ON (subwoofer only)

Select this when a powered subwoofer is connected.

- For the center and surround speaker pair options, if these speakers are not physically present, you can select OFF to prevent any output from those channels (you cannot turn off the front L/R pair). Any speakers turned off will down mix (if this option is selected) to the other enabled channels.
- Turning down mix On and Off may affect the overall volume.

Settings (Speaker setup for i.LINK (AUDIO) and HDMI terminals)

Speaker distance

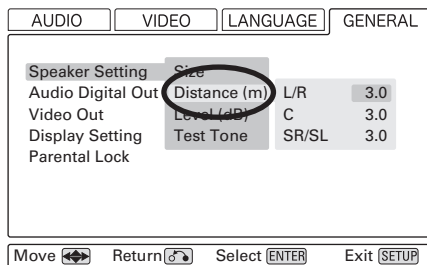
[GENERAL → Speaker Setting → Distance]

This setup is effective in the following case only:

Set Dolby Digital, DTS and MPEG Audio of "Audio Digital Out" setting to "PCM" (see page 45), and play DVD Video or DVD Audio discs.

This setting has no effect on Super Audio CD.

Ideally, the speakers should be placed so that they are all the same distance from the listening position. If this is not possible, you should use this method described here to adjust them individually. It is also possible to adjust all distances together. The point of these settings is to provide the best synchronization between sound and image by delaying the sound by an appropriate amount. The subwoofer is not included in this setting (the placement of the subwoofer is less critical than that of other speakers).



The L/R setting changes the distance of all speakers together. Pressing the up button adds 0.1m to each value, and pressing the down button subtracts 0.1m from each value.

Distances are measured in meters (1 meter = just over 3 feet, and 0.1 meter = about 4 inches).

Carry out this operation first before setting the other speaker distances.

After setting the L/R, C and SR/SL speaker distances together, you can now set the center and surround pair distances. The minimum distance for these is 0m and the maximum is 9m, with the additional restrictions described here.

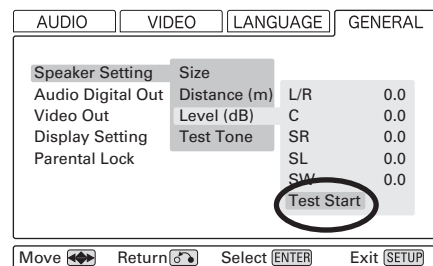
- The distance that you set for the center speaker cannot be greater than the distance set for the L/R pair and must be within 1.7m of that L/R distance. For example, if the distance to the L/R pair is set to 5.0m, the center distance must be between 3.3m (5 - 1.7) and 5m.
- The distance that you set for the SR/SL surround pair cannot be greater than the distance set for the L/R pair (and must be within 9m of that distance). So with the L/R pair set at 5m, the SR/SL pair distance can be set from 0m to 5m.

Speaker levels

[GENERAL → Speaker Setting → Level]

Use this to set the relative levels of the speakers. You can set the L/R pair together, and the center, and surround rear pair independently, as well as the subwoofer. The maximum value you can set here is 0dB and the minimum is -12dB, with settings made in 0.5dB increments. The default setting is each speaker channel set to 0dB.

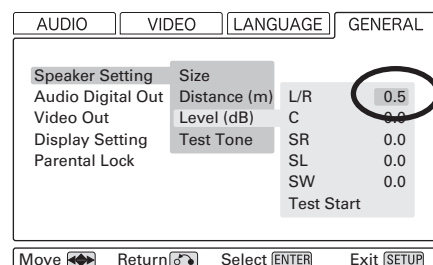
1. When you are ready to start, highlight the "Test Start" and press the ENTER button.



The unit outputs a test tone from each channel in turn at the specified volume level for each channel.

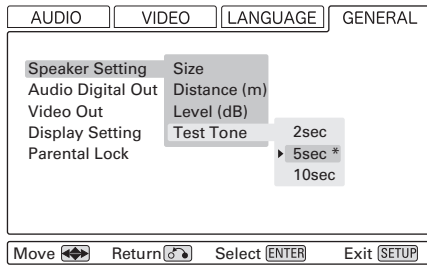
- Setting the test tone at very high levels may not be good for your speakers. Make sure the master volume level of your system is turned down to a reasonable level before carrying out this operation.
- Test tone from subwoofer may be nearly inaudible. Check the level of subwoofer using source material containing low frequency sounds.
- The unit won't output test tone when "Audio Digital Out" is set to "Stream". Select "PCM" to use test tone (see page 45).
- The unit won't output a test tone when a Super Audio CD is (or had been) loaded for playback. In this case, remove the disc, turn the unit off and then turn the unit back on. Now you can generate the test tone sequence again.

2. Adjust the levels and continue using the test tone as necessary until you are happy with the balance.



Test tone length

[GENERAL → Speaker Setting → Test Tone]

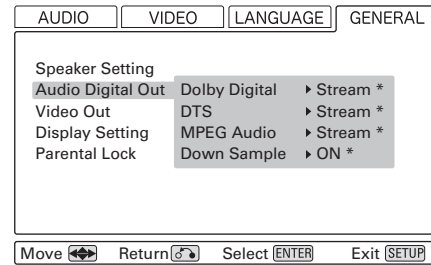


Select the Test Tone menu item, and choose between 2, 5 and 10 seconds. This represents the length of time that the test tone is output from each speaker when Test Start is selected.

Settings (General)

Digital output formats

[GENERAL → Audio Digital Out]



This setting has an effect on the digital signal output from the HDMI terminal and the i.LINK terminal.

Select the format of different digital audio types for different purposes, as detailed below:

Dolby Digital

Select either "Stream" for use with Dolby Digital compatible amplifiers or "PCM" for use when connecting to a CD recorder, MD deck, etc.

dts

Select either "Stream" for connection to a DTS-compatible amplifier, or "PCM" for use with more general equipment. Do not select the Stream option when connecting to non-DTS-compatible equipment.

MPEG Audio

Select either "Stream" for connection to an MPEG-compatible amplifier, or "PCM" for use with more general equipment.

Down Sample

Enable (ON) or disable (OFF) down-sampling. All digital signals are converted, and output at 48kHz or 44.1kHz. Use this if your amplifier does not have 96kHz/88.2kHz playback capability.

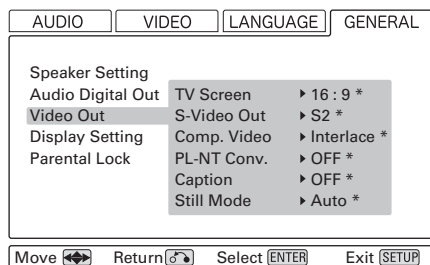
Note that even when down-sampling is turned off, some discs are automatically down-sampled to 48kHz or 44.1kHz.

Also note that there may be some occasions when digital audio cannot be output by the unit due to other compatibility issues.

Note

- When you select "Stream", your amplifier will decode the signal.
- When your amplifier is not compatible with Dolby Digital, DTS or MPEG, select "PCM".
- If you want to output multi-channel PCM signals from the HDMI terminal, set all three settings (Dolby Digital, dts and MPEG) to "PCM", and set Analog out to "Multi channel".
- If you select "Stream" with the HDMI amplifier not compatible with Dolby Digital, DTS and MPEG, converted signals will be output from the HDMI terminal.
- When the up conversion is ON, the XLR and RCA terminals always output linear PCM digital signals.

Settings (General/Video Out)



This menu item contains a number of different options, all effecting video output from the unit.

TV screen

[GENERAL → Video Out → TV Screen]

Because the shape of the television or monitor may not match the shape of the movie frame, you may need to change the way in which the image is displayed to avoid distortion on older televisions (which use a 4:3 aspect ratio). High-definition televisions use a 16:9 display ratio (as do widescreen formatted movies).

Note that you may need to read your television or monitor's manual in conjunction with this section in order to achieve the best results. Some discs do not allow the aspect ratio to be changed and you will therefore have to change the aspect ratio on the video display.

Make this setting while playback is stopped; you cannot do this while playing back a disc.

16:9

Use with a 16:9 wide screen television or monitor.



4:3 picture



16:9 picture

4:3LB (Letterbox)

This mode is used with 4:3 televisions. 4:3 images are displayed normally. 16:9 images are visible at their full width, but a blank area is left at the top and bottom of the screen to provide the correct aspect ratio.



4:3 picture



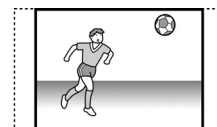
16:9 picture

4:3PS (Pan & Scan)

This mode is used with 4:3 televisions. 4:3 images are displayed normally. When showing 16:9 programs, the full height of the screen is used, but the left and right part of the image are cut off.



4:3 picture



16:9 picture

S-Video output

[GENERAL → Video Out → S-Video Out]

As the P-03 Universal doesn't have a S-Video terminal, this setting has no effect. Please disregard.

Component video output

[GENERAL → Video Out → Comp. Video]

This setting allows the selection of interlaced (Interlace) or progressive-scan (Progressive) video from the component video outputs.

Progressive-scan video provides a better, clearer picture. However, it is not supported by every television or monitor. You should ensure that this mode is supported fully by your display device before turning on this option.

- When your TV isn't compatible with progressive scan, do not select "Progressive". No picture will be shown on the monitor.
If you select "Progressive" by mistake, connect your TV or monitor via the VIDEO OUT jack to display the Setup menu and change the setting to "Interlace", or initialize the default settings again (see page 7).
- When this HDMI output is turned on, even if progressive scan has been selected for the component video outputs, an interlaced signal is output from the COMPONENT VIDEO terminals.

'CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 OR 625 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 525p AND 625p DVD PLAYER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.'

PAL-NTSC conversion

[GENERAL → Video Out → PL-NT Conv.]

This allows you to playback and show NTSC discs on PAL equipment, or playback PAL discs on NTSC equipment. There are three options for this setting:

OFF

PAL discs can only be shown on PAL equipment, and NTSC discs can only be shown on NTSC equipment. Use this setting to produce the best possible picture, by playing each type of disc on the appropriate equipment.

PAL>NTSC

PAL discs can be displayed on NTSC equipment. The bottom part of the picture is cut off and the height will be elongated.

NTSC>PAL

NTSC discs can be played back on PAL equipment. The height of the picture will be reduced.

Closed captioning

[GENERAL → Video Out → Caption]

The unit can play back DVD discs which include closed captioning information and show the closed captions on compatible televisions or monitors.

Turn this function either ON or OFF.

Still mode

[GENERAL → Video Out → Still Mode]

There are three options to enable different still modes for DVD, depending on whether a movie or other type of video is being played back. This setting determines the clearest still picture that can be obtained when DVD playback is paused.

Auto

Automatically chooses between field and frame modes.

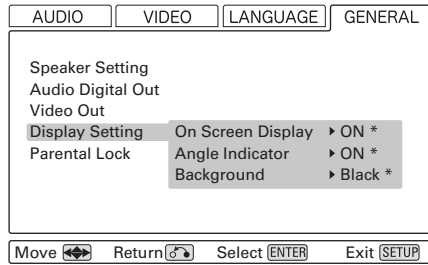
Field

Usually provides a sharp still picture. Depending on the disc, the image might be shaky even when "Field" is selected.

Frame

Usually provides a better still picture with movie DVDs.

Settings (General/Display)



On-screen display

[GENERAL → Video Out → On Screen Display]

When a button is pressed and this setting is ON, the screen shows the button's name and/or icon, etc. Turn this function OFF if you do not need to see this on-screen display.

Angle indication

[GENERAL → Video Out → Angle Indicator]

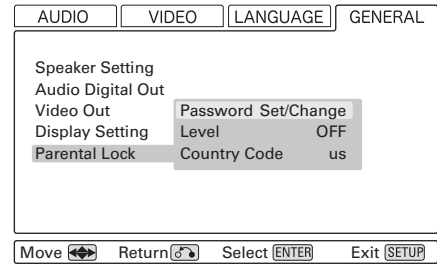
For discs which support different angles (see page 26), this allows the angle indicator mark to be displayed (ON) or not (OFF) when an alternative viewing angle is available on the section of disc being played back.

Background color

[GENERAL → Video Out → Background]

When the disc is stopped, this sets the background color of the screen. Choose between Black, Gray or Blue.

Parental Control



It is possible to protect the playback of discs containing material unsuitable for viewing by children that parents do not wish their children to view. DVD discs can contain information regarding their suitability for children. Such rating levels may vary from country to country and this unit allows such variable restrictions.

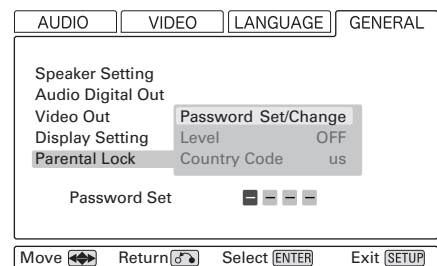
Before a disc protected in this way can be played back on the unit, it is necessary to enter a password which temporarily changes the level to a more "relaxed" value.

These different levels of parental control also allow you to change the level of protection as your children age.

NOTE: If the user settings are reset, the password (and hence parental control) is disabled.

Setting the password

[GENERAL → Parental Lock → Password Set/Change]

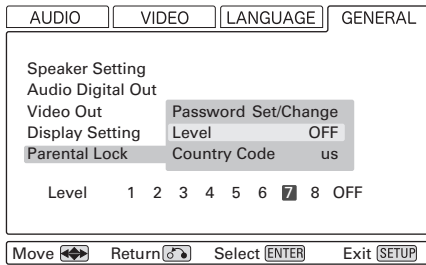


The first time that you use the unit (or the first time that you use the unit after resetting to factory settings), parental lock options are disabled. All you can do at this point is enter your 4-digit password using the number buttons on the remote control unit.

Enter this number (and remember it!), as you will need it to change the level of parental control and to temporarily unlock discs for playback.

Setting the level of control

[GENERAL → Parental Lock → Level]

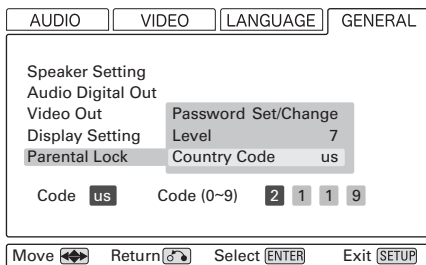


Once a password has been entered, you can enter a control level, ranging from 1 (strict control) through 8 (minimum control) to OFF (no control at all).

When your level is determined, you must make the selection within 30 seconds. Press ENTER to confirm the setting.

Country Code

[GENERAL → Parental Lock → Country Code]



As well as the level, you can change the country to which the level applies. Select the Country code option, enter the 4-digit country code and press ENTER. The two-letter country code changes.

Playing a controlled disc

If you then attempt to play a disc whose level is greater than the level you have set, the disc shows a screen which explains that the disc cannot be played with this level of control. Following the on-screen instructions, you will be prompted to turn off the level, temporarily while the disc is being played. Enter the 4-digit password, and then press ENTER. The disc can now be played.

If you eject the disc or turn off the unit with the disc inserted, the password to play back the disc is "forgotten" by the unit. To play the disc again, you must enter the password again.

Resetting the password

You can reset the password at any time. Choose the Password Set/Change option, enter the old password and then enter the new password (number buttons).

Country	Input Code	Country Code
ARGENTINA	0118	ar
AUSTRALIA	0121	au
AUSTRIA	0120	at
BELGIUM	0205	be
BRAZIL	0218	br
CANADA	0301	ca
CHILE	0312	cl
CHINA	0314	cn
DENMARK	0411	dk
FINLAND	0609	fi
FRANCE	0618	fr
GERMANY	0405	de
HONG KONG	0811	hk
INDIA	0914	in
INDONESIA	0904	id
ITALY	0920	it
JAPAN	1016	jp
KOREA, REPUBLIC OF	1118	kr
MALAYSIA	1325	my
MEXICO	1324	mx
NETHERLANDS	1412	nl
NEW ZEALAND	1426	nz
NORWAY	1415	no
PAKISTAN	1611	pk
PHILIPPINES	1608	ph
PORTUGAL	1620	pt
RUSSIAN FEDERATION	1821	ru
SINGAPORE	1907	sg
SPAIN	0519	es
SWITZERLAND	0308	ch
SWEDEN	1905	se
TAIWAN, PROVINCE OF CHINA	2023	tw
THAILAND	2008	th
UNITED KINGDOM	0702	gb
UNITED STATES OF AMERICA	2119	us

In case you experience any problem with this unit, please take the time to look through this chart and see if you can solve the problem yourself before you call your Esoteric dealer.

No power

- ➔ Check the connection to the AC power supply. Check and make sure the AC source is not a switched outlet and that, if it is, the switch is turned on. Make sure there is power to the AC outlet by plugging in another item such as a lamp or fan.
- ➔ Press the POWER button of the main unit to turn it on.

Remote control doesn't work.

- ➔ Press the POWER button of the main unit to turn it on.
- ➔ If the batteries are dead, change the batteries.
- ➔ Use remote control unit within the range (5m /15ft) and point at the front panel.
- ➔ Clear obstacles between the remote control unit and the main unit.
- ➔ If a strong light is near the unit, turn it off.

Severe hum or noise is heard.

- ➔ Place the unit as far away from a TV or monitor as possible.
- ➔ Make sure the line cords and speaker cables are as far away from the AC power supply as possible.
- ➔ Install grounding wires between all components.

Will not play.

- ➔ Reload the disc with the label side UP.
- ➔ This unit cannot play such discs as CD-ROMs. Use a playable disc (see page 8).
- ➔ If the disc is dirty, carefully clean the surface of the disc.
- ➔ A blank disc has been loaded. Load a prerecorded disc.
- ➔ The disc has not been properly finalized. Consult the owner's manual for the equipment upon which the disc was recorded.
- ➔ Check the region code of the DVD (see page 8).
- ➔ If the unit has been exposed to a humid or damp environment, leave the unit for one or two hours with the power turned on (see page 51).

PROHIBIT icon "⊘" appears on the screen.

- ➔ The operation you attempted is not permitted by the disc or the unit.
- ➔ Note that during playback of the titles or copyright notices, (cautions, software maker's logo, etc.), most operations are prohibited by the disc.
- ➔ If another operation is still in process, wait a moment for that operation to finish, and then try again.

Settings are cancelled.

- ➔ When the power is suddenly cut due to a power failure or by unplugging the power cord, settings will be cancelled. Be sure to turn the unit off by pressing the POWER button before unplugging the power cord.

Cannot access some setup menu items.

- ➔ Although it is possible to enter the setup screen while playback is continuing (or in resume mode), not all menu functions will be available. Expand the number of available functions by pressing the STOP button twice (see page 36).

Scanning stops.

- ➔ Scanning does not work within menus.

Sound skips.

- ➔ Place the unit on a stable and level surface to avoid vibration and shock. Make sure that the surface can support the weight of the unit.
- ➔ If the disc is dirty, clean the surface of the disc.
- ➔ Don't use scratched, damaged or warped discs.

There is no sound or only a very low-level sound is heard.

- ➔ Select the proper digital output terminal (see pages 20-21).
- ➔ Check that the D/A converter, amplifier and speakers are connected securely.
- ➔ Check the operation of the amplifier.
- ➔ When the amplifier is connected via the i.LINK (AUDIO) or the HDMI terminal, check the Digital Out setting (see page 37).
- ➔ The sound is muted during pause, slow-motion, fast forward/reverse, and stepping playback. Press the PLAY button to resume normal playback.

No multi-channel audio output

- ➔ Set the Analog Output setting (or the 2CH/MULTI button) to "Multi-Channel" (see page 37).
- ➔ Change the speaker configuration if necessary (see page 43).
- ➔ For digital multi-channel output, you must use a multi-channel surround amplifier, and set the Audio Digital Out settings to "Stream" (see page 45).
- ➔ Super Audio CD and DVD audio discs may have more than one group or playback area, not all of which contain multi-channel audio data. Choose another group or playback area (see page 24).

Overall volume is low, or balance between speakers sounds strange

- ➔ A speaker's level (or that of a pair of speakers) has been set too low or too high in the speaker setup menus (see page 43). Correct the levels.
- ➔ When the unit is down mixing multi-channel audio, the volume differs from the non-down-mixed level. Use the amplifier to adjust the volume.
- ➔ When configuring speaker sizes, making "small" and "off" settings on speakers other than the subwoofer can affect the subwoofer volume. Adjust the level on the subwoofer itself (see page 44).

No digital audio output.

- ➔ Select the proper digital output terminal (see pages 20-21).
- ➔ When using the HDMI terminal, set the Digital Out setting to "ON" (see page 37).
- ➔ Some DVD Audio discs prohibit digital audio output.
- ➔ Check "Digital signal output by each terminal" on page 12.

Digital audio recording is not possible on another device

- ➔ Set the Analog Output setting to "2ch", and the digital output format must be set to "PCM" (see page 37, 45).
- ➔ Copy-prohibit material cannot be copied digitally.

No digital output from a Super Audio CD

- ➔ Digital audio output from a Super Audio CD requires an Esoteric ES-LINK compliant D/A converter (D-03 or D-01) or a D/A converter with i.LINK (AUDIO) terminals.

- ➔ Output of multi-channel audio requires that the unit is connected to a multi-channel compliant D/A converter via the i.LINK terminal (AUDIO) and that the Analog Output setting (or the 2CH/MULTI button) is set to "Multi ch".

Cannot output 96kHz or 88.2kHz digital audio.

- ➔ Check that the Audio Digital Out setting is set to "Down Sample OFF" (see page 45).
- ➔ Some copy protected discs do not output high sampling rate digital audio.

No DTS audio output.

- ➔ When your amplifier is not equipped with DTS decoder, set the DTS setting to "PCM". Or press the AUDIO button to select any other audio present (see page 45, 27).
- ➔ When playing back a DTS-CD, set the CD Digital Direct setting to "Normal" (see page 37).
- ➔ Check the setting of your amplifier.

Noticeable difference in DVD, CD and Super Audio CD's volume.

- ➔ That is because DVDs, CDs and Super Audio CDs use different recording methods.

No picture/distorted picture

- ➔ Check the connection to the television or monitor.
- ➔ Check the operating instructions for the television or monitor to make sure that you have the right input selected, etc.
- ➔ Use the VIDEO ON button of the remote control unit to turn the video on (see page 28).
- ➔ If you are using the HDMI connection, make sure it is configured correctly (see pages 34-35).
- ➔ If you are using a component connection, make sure it is configured correctly (see page 47).
- ➔ Make sure that the PAL-NTSC conversion setting matches the television/monitor.
- ➔ When your television/monitor isn't compatible with Progressive scan, DO NOT set the Component Video setting to "Progressive" (see page 47).

Picture noise.

- ➔ If video from this system has to go through your VCR to get to your TV, the copy-protection applied to some DVD programs could affect picture quality. Please connect the unit directly to your TV.

The image is distorted or monochromatic.

- ➔ The color system selected does not match your TV (see page 7).
- ➔ Adjust the aspect ratio to correspond to the television/monitor in use (see page 46).

The aspect ratio of the screen cannot be changed.

- ➔ The aspect ratio might be fixed by the disc.

Screen is suddenly stretched when the Setup screen is opened.

- ➔ If the Setup screen is opened during playback of a DVD being viewed in the letter box format, the screen may switch to the wide screen format. This is not a malfunction. The screen will return to normal when the Setup screen is closed.

DISPLAY button doesn't work.

No message appear on the screen.

- ➔ Set the On Screen Display option to "ON" (see page 48).

ANGLE mark doesn't appear on the screen.

- ➔ Set both the Angle Indicator option and the On Screen Display option to "ON" (see page 48).

Picture and sound don't match up.

- ➔ Use the lip sync feature to adjust the relative timing of video and audio playback (see page 28).

The WORD indicator flashes.

- ➔ The word sync mode is selected but there is no clock source. Turn the word sync mode off.
- ➔ An incompatible signal is input. Check word sync connections and the settings made on connected devices.

The display shows "No Word!"

- ➔ No word clock signal is being received. Check connections to the optional external master clock generator, its power supply and output status.
- ➔ The word sync mode is selected, but there is no clock source. Turn the word sync mode off.

The display shows "Word Error".

- ➔ An incompatible signal is input. Check word sync connections and the settings made on connected devices.

The display shows "WRD UNLOCK!".

- ➔ The unit is unable to lock to the input word sync signal. Check the settings of connected devices.

The display shows "TRAY ERR!" when the disc tray is opened or closed.

- ➔ A "TRAY ERR!" appears when the disc tray stops during opening or closing because of an obstacle in front of the tray or because the disc has not been properly loaded. Remove the cause of the error and press the OPEN/CLOSE button again to open or close the tray.

If normal operation cannot be obtained, unplug the power cord from the outlet, and after about 30 seconds plug it again. This resets the internal micro-computer which can be disturbed during electrical storms, power interruptions, et cetera.

Beware of condensation

When the unit (or a disc) is moved from a cold to a warm environment, or used after a sudden temperature change, there is a danger of condensation; vapor in the air could condense on the internal mechanism, making correct operation impossible. To prevent this, or if this occurs, leave the unit turned on for one or two hours. Then the unit will stabilize at the temperature of its surroundings.

Maintenance

If the surface of the unit gets dirty, wipe with a soft cloth or use diluted neutral cleaning liquid. Be sure to remove any fluid completely. Do not use thinner, benzene or alcohol as they may damage the surface of the unit.

Specifications

General

System	DVD-Video, DVD-Audio, DVD-R/RW, Video-CD, Super Audio CD and CD
Power supply	
Europe model	AC 230 V, 50 Hz
U.S.A./Canada model	AC 120 V, 60 Hz
Korea model	AC 220 V, 60 Hz
Power consumption	32 W
Weight	32.5 kg (71 5/8 lb)
External dimensions (W x H x D)	445 x 159 x 420 mm (17 1/2" x 6 1/4" x 16 9/16")
Operating temperature	+5°C - +35°C (41°F - 95°F)
Operating humidity	5% to 85% (no condensation)
Storage temperature	-20°C - +55°C (-4°F - +131°F)

Video output

Video output	
Output level	1 Vp-p (75 Ω)
Jack	RCA jack
Component video output (Y, P _B , P _R)	
Y-Output level	1.0 Vp-p (75 Ω)
P _B , P _R -Output level	0.7 Vp-p (75 Ω)
Jacks	BNC jacks
HDMI output	
Jack	HDMI 19 pin (version 1.1)

Digital audio output

XLR output x 2 (Use 2 terminals for ES-LINK or Dual AES output)	
i.LINK (AUDIO) output x 1	
RCA coaxial output x 1, 0.5 Vp-p/75 Ω	

Word synchronization input format

Jack	BNC x 1
Input level	TTL level/75 Ω
Input frequency range	±15 ppm

The P-03 Universal can accept and synchronize to the following frequencies received from external devices (rectangular wave):

44.1kHz, 48kHz, 88.2kHz, 96kHz, 100kHz, 176.4kHz, 192kHz as well as frequencies which are 96% of these values, in the 4% DOWN mode.

Accessories

Power cord x 1
Remote Control Unit (RC-1082) x 1
Batteries (AA, R6 or SUM-3) x 2
Felt x 3
Warranty card x 1
Owner's manual x 1

- Design and specifications are subject to change without notice.
- Weight and dimensions are approximate.
- Illustrations may differ slightly from production models.