



DVD-L10D









### **Dear Customers**

May we take this opportunity to thank you for purchasing this Panasonic Portable DVD/VIDEO CD/CD player.

We strongly recommend that you carefully study the Operating Instructions before attempting to operate the unit and that you note the listed precautions.

Before attempting to connect, operate or adjust this product, please read these instructions completely. Please save this manual.

VQT7547

### Safety information

#### Note:

This unit can be used only where the power supply is AC 120 V, 60 Hz. It cannot be used elsewhere.

### **CAUTION:**

PORTABLE DVD/VIDEO CD/CD PLAYER IS A CLASS I LASER **HOWEVER** PRODUCT. THIS DVD/VIDEO CD/CD PORTABLE PLAYER USES A VISIBLE/INVISI-BLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED, BE SURE TO OPERATE THE PORTABLE DVD/VIDEO CD/CD PLAYER COR-RECTLY AS INSTRUCTED.

WHEN THIS PORTABLE DVD/ VIDEO CD/CD PLAYER IS PLUGGED TO THE WALL OUTLET, DO NOT PLACE YOUR EYES CLOSE TO THE OPENING OF THE INNER COVER AND OTHER OPEN-INGS TO LOOK INTO THE INSIDE OF THIS PLAYER.

USE OF CONTROLS OR ADJUST-MENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIA-TION EXPOSURE.

DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

### WARNING:

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

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND ANNOYING INTERFERENCE, USE ONLY THE RECOMMENDED ACCESSORIES.

THIS DEVICE IS INTENDED FOR CONTINUOUS OPERATION!

CAUTION: (Canada Oniy)
TO PREVENT ELECTRIC SHOCK,
DO NOT USE THIS (POLARIZED)
PLUG WITH AN EXTENSION
CORD, RECEPTACLE OR OTHER
OUTLET UNLESS THE BLADES
CAN BE FULLY INSERTED TO
PREVENT BLADE EXPOSURE.

CAUTION -LASER RADIATION WHEN OPEN.
DO NOT STARE INTO BEAM.

ATTENTION-RAYONNEMENT LASER EN CAS D'OUVERTURE. NE PAS REGARDER DANS LE FAISCEAU.

(Bottom of product)

The model number and serial number of this product can be found on either the back or the bottom of the unit. Please note them in the space provided below and retain this booklet as a permanent record of your purchase to aid identification in the event of theft.

MODEL NUMBER

SERIAL NUMBER



# 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.

### FCC NOTE: (U.S.A. Only)

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 quarantee that interference will not occur in a particular installation. In 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 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.

FCC Caution: To assure continued compliance, follow the attached installation instructions and use only shielded cables when connecting to other devices. Also, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

### Portable DVD/VIDEO CD/CD Player

# Compatible with Video CD and CD as well as DVD



# Portable type for the user on the go

The player's compact size measuring 65/16" (160 mm) wide, 65/16" (160 mm) deep and 13/4" (43 mm) high and its light weight of only 2 lbs. (910 g) make it easy for you to carry it around. By installing the battery pack (supplied), you can enjoy playback up to a maximum of 135 minutes\*.

\*This length of time varies depending on the player's operating conditions.

# 5.8-inch LCD Wide screen and stereo speakers

This portable DVD/Video CD/CD player includes an LCD screen and stereo speakers so that you can enjoy video and music without connecting to a TV set or other device. You can display video and pictures and listen to sounds recorded with a video camera using the LCD screen and stereo speakers.

 This player provides a 280,000-pixel highresolution LCD wide screen. This lets you enjoy sharper images than previous LCD screens.

# Virtual Surround Sound (V.S.S.) effect (See page 54.)

If the player is connected to external speakers, the player can reproduce a virtual surround sound effect which provides a sound as if heard from non-existent rear speakers at the side even when only a 2-channel stereo system is connected [for playback of Dolby Digital (AC-3)/5.1ch DVD software only]. (The virtual surround sound effect may work differently depending on the DVDs.)

### **On-Screen Menu Icons**

(See pages 36-41.)

On-Screen Menu Icons show the disc information or player information and provide access to many major functions of the player.

### **Multi-audio function**

(See page 49.)

The audio soundtrack can be heard in up to 8 languages. (The number of audio sound languages depends on the software.)

### **Multi-subtitle function**

(See page 50.)

Subtitles may be displayed in one of a maximum of 32 languages. (The number of subtitle languages depends on the software.)

### Multi-angle function

(See page 51.)

This function allows you to choose the viewing angle of scenes which were shot from a number of different angles. (Limited to DVDs recorded with multiple camera angles.)

### Marker function

(See pages 44 and 45.)

This player can store a maximum of 5 scenes in memory, which can be recalled when you like.

### Parental lock function

(See pages 58-61.)

This can prevent play of DVDs unsuitable for children.

Disc form	pats supported to DVD [5"(12 cm) disconding colors [5"(12 cm) disconding colors Video CD [5"(12 cm) disconding colors CD	sc/	this playe	Region No. other than "1" or AL system
ONSTAL ALIGNO	[5"(12 cm) di 3"(8 cm) disc		(pages 31- DVD ··· This whice WGD ··· This whice CD.	s gives details on a function ch can be enjoyed with DVD. s gives details on a function ch can be enjoyed with Video
Acces	Please chec	S.A.) To orde 888-PA anada) To orde	NA-DVD (1-888	call PASC Accessory Dept. 1- -726-2383). call the dealer from whom you
	control unit1 b. VEQ2015)		control unit	☐ Video/audio cable 1 (Parts No. VJA1065)
	charger/ otor1 o. VSQ1097)	AC power (Parts No.	cord1 VJA0663)	Conversion adaptor1 (Parts No. VFA0297)
cable	digital audio	☐ Battery pa	ck1	Optional Accessory Battery pack (model No.: DY-DB1EX)



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Basic play	Still picture/Pause
Advanced Operations:  Operation using the On-Screen  Menu Icons	Repeat play
Changing the initial settings	When "5 TV Aspect" is selected

### Safety precautions

Please read these precautions before operating this player.

# □ Power cord and battery charger/AC adaptor protection

To avoid any malfunctions of the player, and to protect against electric shock, fire or personal injury, please observe the following.

- Hold the plug firmly when connecting or disconnecting the AC power cord to this player.
- Do not connect or disconnect the AC power cord when your hands are wet.
- Keep the AC power cord and battery charger/AC adaptor away from heating appliances.
- Never put any heavy objects on the AC power cord and battery charger/AC adaptor.
- Do not attempt to repair or reconstruct the AC power cord and battery charger/AC adaptor in any way.
- Remove dust, dirt, etc. on the plug at regular intervals.
- If liquids or foreign objects have been spilled into the player or battery charger/AC adaptor, turn off the power and disconnect the AC power cord.
- If the player has been dropped or otherwise damaged, turn off the power and disconnect the AC power cord.
- If smoke, malodors or noises are emitted from the player or battery charger/ AC adaptor, turn off the power and disconnect the AC power cord.
- If the case of the battery charger/AC adaptor or the AC power cord is damaged, turn off the power and disconnect the AC power cord.
- If the battery charger/AC adaptor is not going to be used for a long time, disconnect the AC power cord for safety.
- Do not touch the plug, the battery charger/AC adaptor, battery pack or the metal part of the player during a thunderstorm.

- Do not use the player above the established ratings of the power outlet and power distributor or supply an AC voltage other than 120 V.
- •Do not scratch or mark the battery charger/AC adaptor, power cord and power plug, rework them, place them in proximity to a heating appliance, forcibly bend them, twist them, pull them, place heavy objects on top of them, bunch them together with other wires or units, or put a cloth over them.
- Insert the power plug securely until its prongs are completely housed inside the power outlet.
- Use only the battery charger/AC adaptor provided.
- □ Do NOT disassemble or remodel this player.

#### □ Placement

Avoid placing the player or battery charger/AC adaptor in areas of:

- direct sunlight or heating radiators, or closed automobiles
- •high temperature [over 95°F (35°C)] or high humidity (over 90%)
- excessive dust or oily smoke
- •vibration, impact or where the surface is tilted
- in a poorly ventilated location as the internal parts may be seriously damaged.

#### ☐ No fingers or other objects inside

- •Touching internal parts of this player is dangerous, and may cause serious damage to the player. Do not attempt to disassemble the player.
- Do not put any foreign object inside the player or battery charger/AC adaptor.
- Do not insert metal or inflammable objects inside the player or battery charger/AC adaptor.

• Take care not to catch your fingers when you close the inner cover.

### ☐ Keep away from water and magnets.

- Keep the player or battery charger/AC adaptor away from flower vases, tubs, sinks, etc. If liquids are spilled into the player or battery charger/AC adaptor, serious damage could occur.
- Keep magnetic objects such as speakers, at a distance from this player.
- ☐ Do not use cracked or warped discs.
- □ Do not operate this player while walking or driving a vehicle.

### **ADANGER**

### □ Caution regarding the battery pack

- Do not use the battery pack with equipment other than the specified player.
- •Use the exclusive charger to recharge the battery pack.
- Do not drop, impact, disassemble, remodel, or press the battery pack.
- Do not throw the battery pack into the fire, or heat it.
- •Keep the battery pack away from areas exposed to direct sunlight or in close proximity to a flame.
- Do not touch the plug terminals (⊕ or ⊝) with metal.
- If any electrolyte should come into contact with parts of your body, wash it off thoroughly with water.
- •If any electrolyte should come into contact with your eyes, never rub the eyes and wash it off thoroughly with water, and then consult a doctor.

### **Operating precautions**

### Handling preequions

# ☐ If there is noise interference on the TV while a broadcast is being received

Depending on the reception condition of the TV, interference may appear on the TV screen while you are watching a TV broadcast and the player is left on. This is not a malfunction of the player or the TV. To watch a TV broadcast, turn off this player.

#### □ When installing the player

- Avoid shelves and other high locations.
- •Place the player in a horizontal position, and do not place anything heavy on it.
- •Do not place the player on amplifiers or other equipment which may become hot.

### □ When operating the player

- Do not expose the player to the sprays from volatile insecticides, etc. (Doing so may deform the external cabinet or cause the paint to peel off.)
- Do not push the LCD screen downward, especially using an object with a pointed end.
- After the player is used for many hours, the surface of the player becomes hot; this is normal.
- Do not touch the pickup unit (the lens in particular) inside the inner cover with your hands or other objects. (Doing so may cause malfunctioning.)
- Do not insert objects into the opening hole area of the pickup unit. (Doing so may cause malfunctioning.)
- Do not push the inner cover downward during playback. (Doing so may damage the disc inside.)
- Do not subject the player to impact during playback. (Doing so may damage the disc inside.)
- Do not set the player down on a sofa for operation. (Doing so may raise the temperature inside the player and damage the player.)

### **Operating precautions**

### Handling precedious

#### □ Condensation

Moisture may form on the lens in the following conditions...

- •immediately after a heater has been turned on.
- •in a steamy or very humid room.
- when the player is moved from a cold environment to a warm one.

If moisture forms inside this player, it may not operate properly. In this case, turn on the power and wait about 1 to 2 hours for the moisture to evaporate.

#### ☐ When using the player outdoors

- Do not use the player in areas where it may get wet. (If the player gets wet, it may be damaged.)
- Do not use the player in sandy or dusty locations (such as a beach). (Sand and dust may find their way inside the player and cause malfunctioning.)

## □ When bringing the player on board an aircraft

 The electromagnetic waves emitted by the player may interfere with the aircraft's instruments. Follow the instructions given by the flight attendants.

## When bringing the player into a hospital

 The electromagnetic waves emitted by the player may interfere with the medical equipment in the hospital. Follow the instructions given by the medical personnel.

#### When bringing the player inside a car

- Do not use the car's cigarette lighter socket to supply power to the player. (Doing so may cause malfunctioning.)
- •The exclusive battery pack [supplied or optional (model No.: DY-DB1EX)] must always be used. (See pages 22–26.)
- Do not leave the player in areas of extremely high temperature [over approx. 140°F (60°C)] such as inside of the car in hot summer or in the car trunk or of extremely low temperature [under approx. 4°F (−20°C)]. (Doing so may cause cabinet deformation.)

# □ When moving or transporting the player

- When moving the player, remove the disc if one is inside, and disconnect the battery charger/AC adaptor and other cords.
- When transporting the player for relocation, place the player in its original packing carton.
- Do not drop the player or bump it into objects when moving or transporting it.

#### □ When the player is not going to be used for a long time

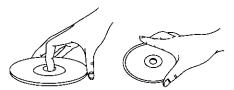
- •To conserve power, turn off the power, and disconnect the battery charger/AC adaptor from the power outlet. (Even when the player's power switch is turned off, power equivalent to about 2.4 W will be consumed unless the battery charger/AC adaptor is disconnected.)
- Be sure to close the inner cover. (Dust may attach the lens or other parts, which may cause malfunctioning.)

### Disc handling and maintenance

### ☐ Handling precautions

•Hold the disc by the edges so the surface will not be soiled with fingerprints.

Fingerprints, dirt and scratches can cause skipping and distortion.

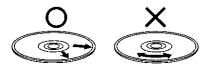


- Do not write on the label side with a ballpoint pen or other writing utensils.
- •Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- •Be careful not to drop or bend the disc.
- Do not install more than 1 disc.
- •Do not try to close the inner cover when the disc is not installed properly.
- Be sure to store the disc in its exclusive case when not in use.

#### ☐ If the surface is soiled

Wipe gently with a soft, damp (water only) cloth.

When wiping discs, always move the cloth from the center hole toward the outer edge. (If you wipe the discs using a circular motion, circular scratches are likely to occur, which will cause noise.)



☐ If the disc is brought from a cold to a warm environment, moisture may form on the disc

Wipe this moisture off with a soft, dry, lint-free cloth before using the disc.

#### □ Improper disc storage

You can damage discs if you store them in the following places:

- Areas exposed to direct sunlight
- Humid or dusty areas
- Areas directly exposed to a heat outlet or heating appliance

### Maintenance of the main unit

- Be sure to turn the power off and disconnect the battery charger/AC adaptor before maintaining the player.
- •Wipe this player with a dry, soft cloth. If the surfaces are extremely dirty, wipe clean with a cloth which has been dipped in a weak soap-and-water solution and wrung out thoroughly, and then wipe again with a dry cloth.
- Never use alcohol, benzine, thinner, cleaning fluid or other chemicals. And do not use compressed air to remove dust.

#### □ Maintenance of the lens

 If dust is attached to the lens, remove dust carefully with an air blower for camera lenses (optional).

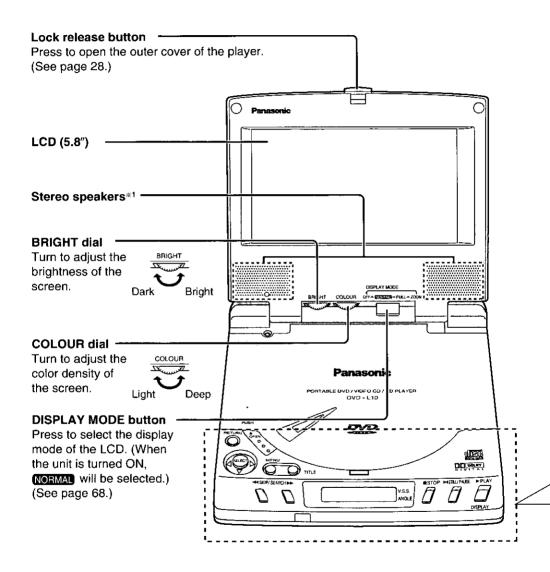
Be careful not to touch the lens with your fingers.

### Maintenance of the LCD

- •Wipe the LCD screen with a dry, soft cloth.
- Drops of water spilled on the LCD screen may cause discoloration: wipe them immediately.

### Control reference guide

### Main unit (Front view)



<sup>\*1</sup>The built-in stereo speakers may not provide satisfactory sound volume and sound quality depending on the disc. In this case, it is recommended to connect headphones (optional) or external speakers. (See pages 70, 71 and 73.)

### RETURN button [RETURN]

Press to return to the previous menu. (See pages 30, 36 and 56-66.)

#### OPEN button [≜OPEN]

Press to open the inner cover. (See pages 28 and 29.)

#### STOP button [■STOP]

33-35.)

Press to stop playback.(See page 32.)

STILL/PAUSE button

picture/pause mode or

to advance the disc by one frame. (See pages

[▶I≼ STILL/PAUSE]

Press to place the

player in the still

### MENU button [MENU]

When pressed during play, the DVD menu recorded on the disc will be displayed. (See page 53.) When pressed in the stop mode, the initial settings screen will be displayed. (See pages 55–66.)

### TITLE button [TITLE]

Press to show the title menu recorded in the disc. (See pages 30 and 53.)

PLETUREN OPEN

SELECT DITLE

TITLE

idee X

### Remote control signal sensor

Point the remote control unit at this part when operating the player. (See page 21.)

Display window (See page 14.)

# SKIP/SEARCH buttons [I◄◀SKIP/SEARCH▶►I]

Press for rapid advance/reverse or skipping ahead/back (see page 33) or for slow-motion play (see page 35).

►►: Backward
Forward

# PLAY/DISPLAY button [▶PLAY/DISPLAY]

V.S.S.

When pressed in the stop mode, playback starts. (See page 31.) When pressed during playback, the On-Screen Menu Icons will be displayed. (See page 37.)

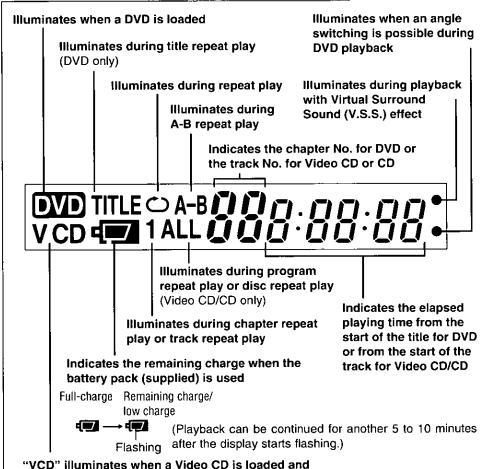
### Joystick/SELECT button [SELECT]

Make the selection by tilting the joystick upward, downward or to the left or right, and then press SELECT to enter the selection. (See page 31.)

### Control reference guide

### Main unit (Display window)





"CD" illuminates when a CD is loaded

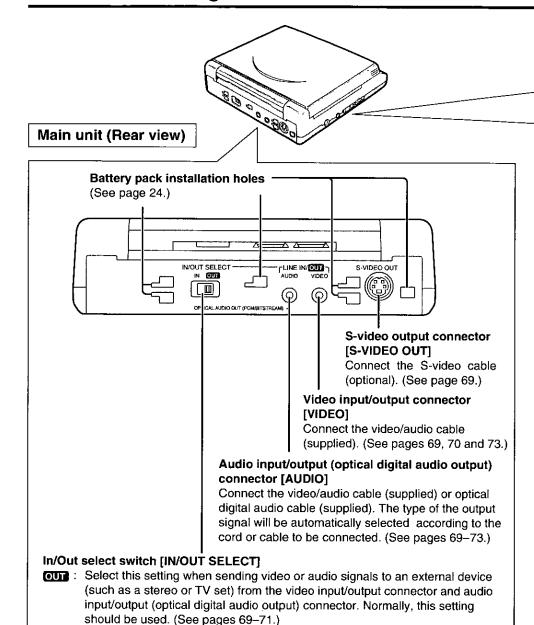
Player status	Display
When the inner cover is open	OP EN
When no disc is loaded	<b>no</b> alse
When a DVD or a Karaoke DVD is played	<b>25</b> 0:23:45
	Chapter 25 is played Elapsed playing time of title
When an interactive DVD is played	ovo Pi UA
When a Video CD is played	vcd <b>5</b> 2:45
	Track 5 is played Elapsed playing time of track
When a Video CD with playback control is played	vcd <i>P b[</i>
When a CD is played	co <b>5</b> 2:45
	Track 5 is played Elapsed playing time of track
When the In/Out select switch is set to "IN"	
When any button is pressed while the HOLD function is activated	Ko Id
When the battery charger/AC adaptor (supplied) is connected and the power switch of the player is turned off (Standby mode)	
When playback is impossible	NO PL RY

58-61.)

●DVDs of PAL system

•DVDs with Region No. other than "1" or "ALL"

### Control reference guide



Select this setting when sending video or audio signals from an external device such as a video camera to the video input/output connector and audio input/output (optical digital audio output) connector so that the images appear

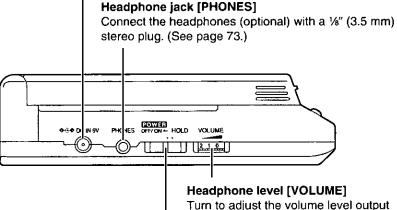
on the screen. (See page 73.)

\_ 16 IN:

### Main unit (Side view)

#### DC input connector [ ♦ € ♦ DC IN 9V]

Connect the DC plug of the conversion adaptor (supplied) if using AC or the battery pack (supplied). (See pages 24, 25 and 27.)



Turn to adjust the volume level output from the built-in stereo speakers or the headphones. (See page 73.)

0: No sound is heard

10: Maximum

### Power switch [POWER OFF/ON ←] / HOLD switch [HOLD]

- ●When this switch is slid toward the direction of [POWER OFF/ON ←] for more than 1 second, the power will be turned OFF or ON.
- •The HOLD function (for preventing errors in operation) is activated when the switch is slid to the HOLD position.

#### **HOLD function:**

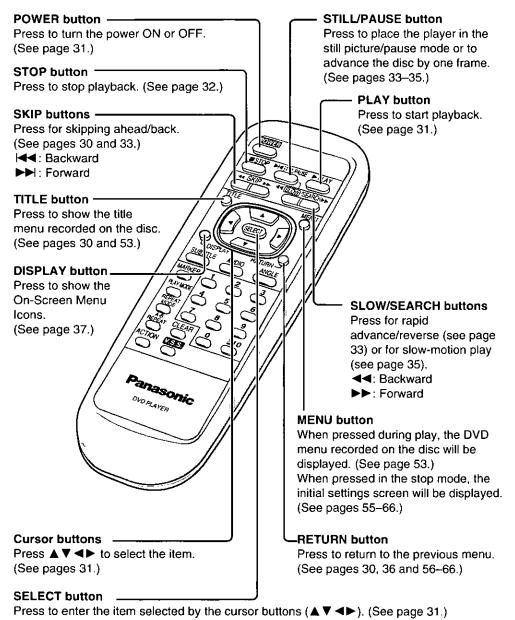
The hold function ensures that even when a function button is inadvertently pressed while the player is being carried, the function corresponding to the button will not be acknowledged. (It prevents the function buttons from being pressed during operation, the picture and/or sound from being terminated, etc.)

When a function button is pressed while the hold function is working, "Ho Id" appears in the player's display window. (See page 15.)

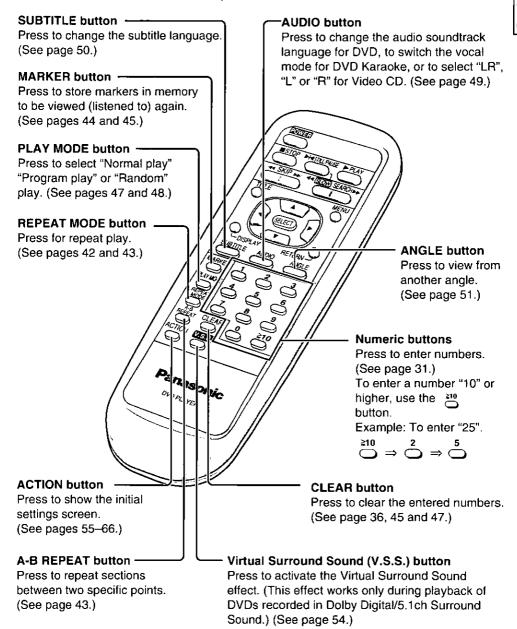
### Control reference guide

### Remote control unit

### Buttons used for basic operation

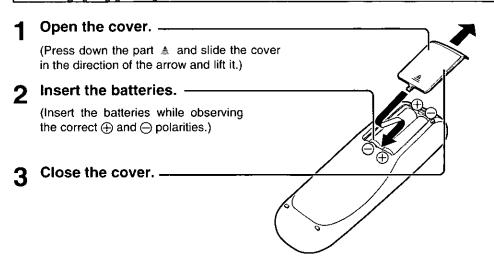


### Buttons used for advanced operations



### Remote control preparation

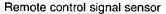
### Extery (supplied) installation

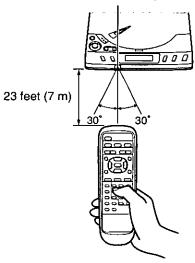


#### □ Service life of batteries

- •The batteries normally last for about one year although this depends on how often, and for what operations, the remote control is used.
- •If the remote control unit fails to work even when it is operated near the player, replace the batteries.
- •Use size "AA" batteries.

### Remote control operation range

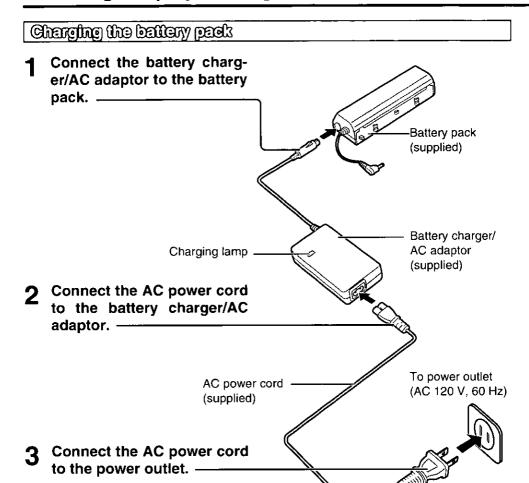




### Remote control operational notes

- Do not use rechargeable (Ni-Cd) batteries.
- Do not attempt to recharge, short-circuit, disassemble, heat or throw the batteries into a fire.
- Do not mix old and new batteries.
- Do not drop, step on or otherwise impact the remote control unit. This may damage the parts or lead to malfunction.
- •If the remote control unit is not going to be used for a long time, remove the batteries. Otherwise, electrolyte may leak which may lead, not only to malfunctioning, but also, to burns if contact is made with the electrolyte.
- Wipe away any electrolyte leaking inside the remote control unit, and install new batteries
- If any electrolyte should come into contact with parts of your body, wash it off thoroughly with water.
- •Do not point bright lights at the remote control sensor.
- •Do not place objects between the remote control unit and the remote control sensor.
- Do not use this remote control unit while simultaneously operating the remote control unit of any other equipment.

### Powering the player using the battery pack (supplied)



### For your reference:

- The charging lamp lights in red when charging starts. In case the charging lamp fails to light, refer to the notes on page 23.
- •It takes about 2 hours [at 68 °F (20 °C)] to charge the battery pack.
- The charging lamp goes off when charging is completed. Disconnect the battery charger/AC adaptor and the AC power cord after confirming the charging lamp is off.

### Regarding the battery pack

#### □ Notes when charging the battery pack

- •When the battery pack is to be used for the first time, charge it fully before use.
- When the battery pack is attached to the player, turn off the player's power before charging. The battery pack will not be charged if the player's power is kept on.
- •If the battery pack has heated up, charging may take longer than usual or it may not be possible at all. Wait for the battery pack to cool off before charging it.
- •If the charging lamp fails to light, connect the battery pack to the battery charger/AC adaptor again. Alternatively, attach the battery pack to the player, use it for 10 to 20 minutes or so and then connect it to the battery charger/AC adaptor again.
- •If the battery pack is detached and then re-attached during charging, the charging lamp may go off for an instant: this is normal.
- Upon completion of the charging, the battery pack will be hot: this is normal.
- Transmission noises may be heard inside the battery charger/AC adaptor during charging; this is normal.
- Upon completion of the charging, be sure to disconnect the power plug from the power outlet. (If it is left connected, up to about 2.4 W of power will be consumed.)
- •The battery charger/AC adaptor is equipped with an overcharge-prevention circuit. However, to protect the battery pack, do not charge it for more than 24 hours.
- For battery pack protection, do not charge an already fully-charged battery pack.

### □ Notes when storing the battery pack

- Do not store the battery pack in areas of extremely cold or high temperature, high humidity or excessive oily smoke.
  - Store the battery pack in areas where temperature is at 59°F-77°F (15°C-25°C).
- When storing the battery pack for a long period of time, discharge and fully recharge it
  once a year and store it again.

### □ Notes when disposing of the battery pack

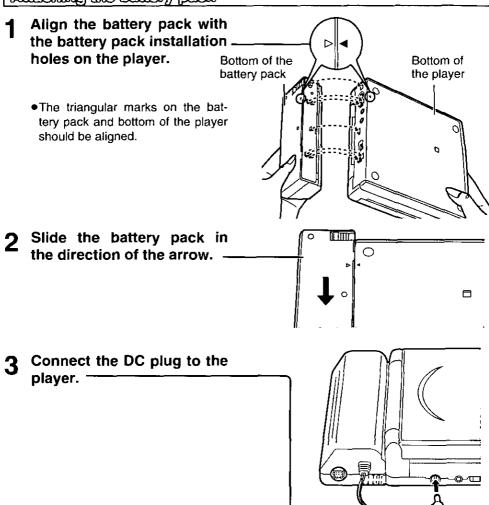
Check, and follow, your local regulations before disposal.

### For your reference:

•The battery packs have a service life of approximately 300 charge-discharge cycles. If the charging time or operating time on one full charge becomes noticeably shorter than it used to be, the battery pack has reached the end of its service life and should be replaced.

### Powering the player using the battery pack (supplied)

### Attending the bettery pack



#### Note:

•When the player is powered by the battery pack, a power-saving function is activated for preventing the battery charge from being consumed. The DC plug and battery pack must both be attached: otherwise, the player will not recognize that the battery pack has been installed, and the power-saving function will not be activated.

### For your reference:

 When the player is powered by the battery pack, no external equipment, such as a TV set, can be connected.

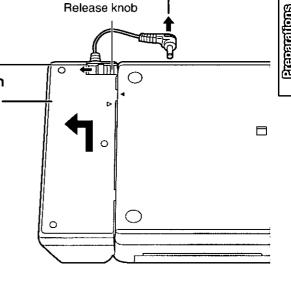


1 Disconnect the DC plug from the player.

2 Slide the release knob in the direction of the arrow.

Slide the battery pack in

the direction of the arrow.



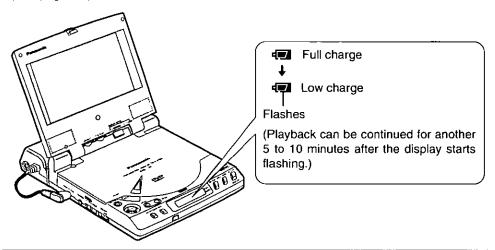
#### Note:

•When the player is powered by the battery charger/AC adaptor, be sure to detach both the DC plug and the battery pack: otherwise, the player will not recognize that the battery pack has been detached, and the power-saving function will still be effective.

### Powering the player using the battery pack (supplied)

### Operating the player powered by the battery pack

- Confirm that the battery pack is charged. (See page 22.)
- Confirm that the battery pack is attached and the DC plug is connected to the player.
   (See page 24.)



#### Notes:

- When the battery pack is used, it is not possible to turn on the player using the remote control unit.
- •If the battery pack overheats, its protective circuit may be activated, making it no longer possible to use the battery pack.
- •The battery pack will heat up during use. The player will also heat up during use: this is normal.
- •If the battery pack is not going to be used for a long time, it must be detached from the player. (If it is left attached, a low level of current will still flow even though the player's power switch is set to OFF.) If it is left in this state, it may excessively discharge, rendering it no longer usable even after it has been recharged.

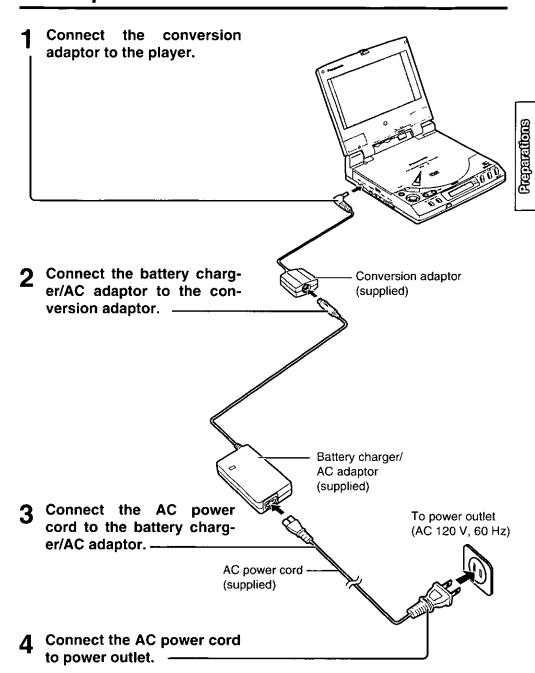
### For your reference:

- •It takes about 2 hours [at 68 °F (20 °C)] to charge the battery pack and, once fully charged, the battery will be good for approximately 135 minutes of continuous playback (with the BRIGHT dial set to the center position). However, usage times will differ depending on the operating condition.
- •If the player is powered by the battery pack and is left in the STOP mode, the player will automatically turn off after approximately 5 minutes to conserve battery consumption (Auto power-off function).

Center position

•When the battery pack is used, the light for the player's display window is turned off and the screen goes dark in order to conserve power: this is normal.

### Powering the player using the battery charger/ AC adaptor

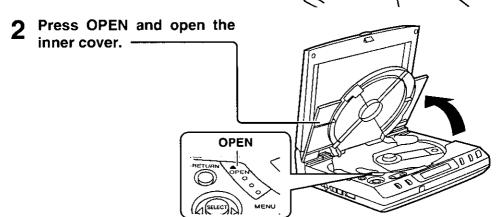


## Inserting/Removing discs

### inserting dises

1 Press the lock release button and open the outer cover.

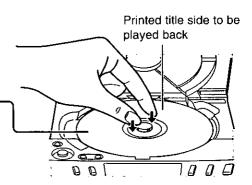
Lock release button



With the printed title side to be played back facing up, place the disc in position by using your fingers to push down on the area around the center hole.

(A click is heard.)

▲ Close the inner cover.



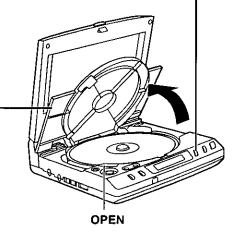
#### Note:

•Do not install more than 1 disc.

### Removing dises

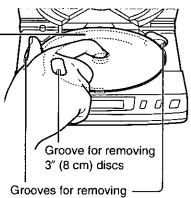
1 Press STOP. —

Press OPEN and open the inner cover.



- 3 Using the groove for removing, remove the disc.
  - Do not touch the disc surface when removing.

▲ Close the inner cover.



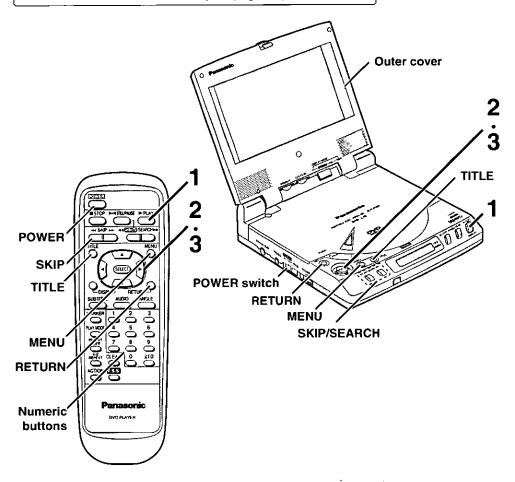
5" (12 cm) discs

#### Note:

Be sure to keep the inner cover closed except while inserting/removing discs. This will reduce the risk of malfunction caused by dust entering the inside of the player.

### **Basic play**

Confirm that the power is turned on. (See pages 17 and 18.) Confirm that the disc is loaded. (See page 28.)



### For your reference:

- When the menu continues onto another screen, pressing SKIP/SEARCH (in case of the remote control, SKIP) will show the next screen. (The buttons to be used may differ depending on the disc. For operation, refer to the jacket of the disc.)
- To return to the menu screen, press TITLE, MENU or RETURN during play of DVDs or press RETURN during play of Video CDs. (The buttons to be used may differ depending on the disc.)
- When appears when a button is being operated, it means that the corresponding operation is prohibited by the player or the disc.
- •The PLAY/DISPLAY button of the main unit functions both as a PLAY button and a DIS-PLAY button (for displaying the On-Screen Menu Icons). If the button is pressed in the stop mode, playback will start and if pressed during play, the On-Screen Menu Icons will be displayed.

### Before enjoying DVD/Video CD/CD

The On-Screen Menu language of your player has been factory preset to English. If you would like to change the menu language to French or Spanish, please refer to "When '3 Menu Language' is selected" on page 62.

Press PLAY/DISPLAY.

•in case of the remote control, press PLAY.

(Playback starts.)

□ When a menu appears on the

In case of most of the interactive

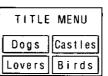
DVDs or Video CDs with playback control, a menu appears on the screen.

- For DVD, perform steps 2 and 3 to select the preferred item and start playback.
- For Video CD, press the numeric buttons of the remote control unit to select the item and start playback.

# 2 Select the preferred item by using the joystick $( \blacktriangle \nabla \blacktriangleleft \triangleright )$ .

•In case of the remote control, select the item using the cursor buttons.

Example: Interactive DVD



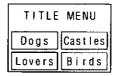
#### Example:

Video CD with playback control

1	EAST ASIA
2	SOUTH ASIA
3	MIDDLE EAST
4	AFRICA
5	EUROPE

Example: DVD

When "Birds" is selected



### Press SELECT.

(Play of the selected item now starts.)

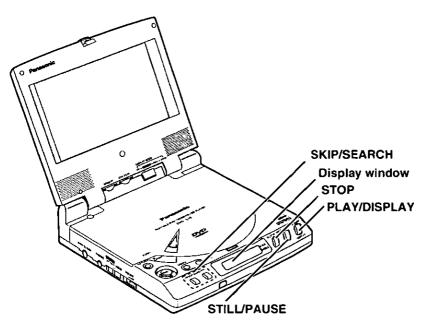
### □ After operation

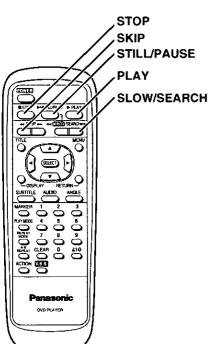
When the player is not in use, to save power, slide the POWER switch to the OFF position (in case of the remote control, press the POWER button). The player will automatically be switched to the standby mode after approx. 15 minutes have elapsed in the stop mode (Auto power-off function). (If the player is powered by the battery pack, the power will automatically be turned off after approx. 5 minutes have elapsed.)

#### Notes:

- During playback of some discs, a message such as "Press the play button to start play" may appear. In such a case, press SELECT instead of PLAY/DISPLAY, since if PLAY/DIS-PLAY of the main unit is pressed during play. the On-Screen Menu Icons will appear.
- •When the LCD is not used, close the outer cover to conserve power and to prevent battery consumption. [Confirm that the outer cover is locked. (A click is heard.)]
- During playback of a CD, set the display mode of the LCD to "OFF" to conserve power and to prevent battery consumption. (See page 68.)
- •When the outer cover of the player is closed. the image on the LCD screen and sound from the stereo speakers automatically turn off to conserve power and battery consumption.
- If the disc is placed in upside down (and it is a single sided disc), the display window will indicate "NO DISC".

## **Basic play**





### Stopping play

### Press STOP during play.

#### **RESUME function:**

When play is stopped, the player records the point where STOP was pressed. **DVD**, **VCD** or **CD** mark flashes on the display window when this function is activated.

Press PLAY/DISPLAY (in case of the remote control, PLAY) again, and play will resume from this point.

- When the inner cover is opened or STOP is pressed again, the RESUME function will be cleared.
- This feature will not be cleared when the power is turned OFF and then turned back ON.
- •The RESUME function works only with discs for which the elapsed playing time appears on the display window during play.

### Regald advance/ Regid reverse

### On the main unit

#### Keep SKIP/SEARCH pressed during play.

Idd: Backward ▶▶I: Forward

#### By the remote control unit

#### Press SLOW/SEARCH during play.

◀◀: Backward ▶ : Forward

- •The speed of rapid advance/rapid reverse becomes faster (up to 5 steps) as the button is continuously pressed.
- The speed will be retained even after the button is released.

### ☐ Returning to normal play

Press PLAY/DISPLAY (in case of the remote control, PLAY).

### □ Placing the player in the still picture/pause mode

Press STILL/PAUSE

#### Note:

 Audio will be heard during rapid advance at step 1. (See page 66.)

### For your reference:

•When SKIP/SEARCH (in case of the remote control, SLOW/SEARCH) pressed during menu play of Video CD with playback control, a menu screen may sometimes be recalled.

### Shipping ahead or back

#### On the main unit

### Tap SKIP/SEARCH during play.

✓ : Backward ▶ Forward

#### By the remote control unit

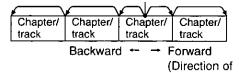
### Press SKIP during play.

▶►: Forward

- A chapter or a track is skipped each time the button is pressed.
- If I◄◄ SKIP/SEARCH (SKIP) is pressed once, the player returns the beginning of the chapter/track being played back.

#### Position being played back

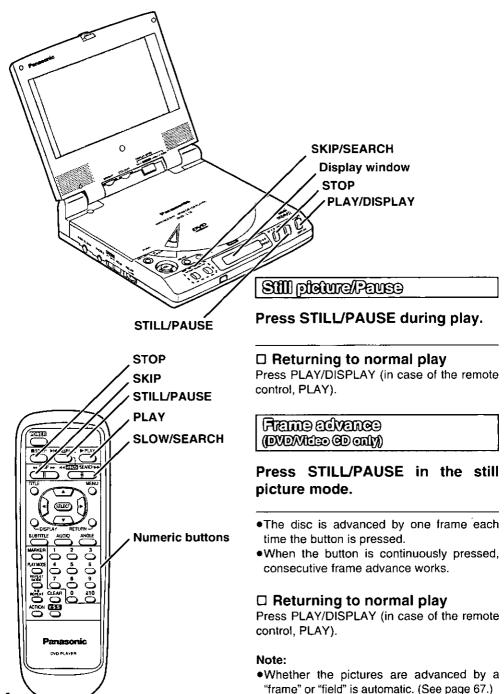
playback)



#### For your reference:

 When SKIP/SEARCH (in case of the remote control, SKIP) is pressed during menu play of Video CD with playback control, a menu screen may sometimes be recalled.

### **Basic play**



### Slow-motion play (DVD/Mideo @Dominy)

#### On the main unit

Keep SKIP/SEARCH pressed in the still picture mode.

> ►► Forward

### By the remote control unit

Press SLOW/SEARCH in the still picture mode.

> ◀◀: Backward ▶ : Forward

- The speed of slow-motion play becomes faster (up to 5 steps) as the button is continuously pressed.
- The speed will be retained even after the button is released.
- □ Returning to normal play Press PLAY/DISPLAY (in case of the re-

mote control, PLAY).

☐ Placing the player in the still picture/pause mode

Press STILL/PAUSE.

### For your reference:

• For Video CDs, slow-motion play in reverse direction is not possible.

Enjoying Video GD enter the thing year a leady teleg MENUS (VILE OD ONLY)

Press STOP after the menu screen appears.

("Phf" will be cleared from the display window.)

- 2 Select the preferred track number by pressing SKIP/ SEARCH and press PLAY/ DISPLAY.
  - In case of the remote control, select the preferred track number by pressing SKIP and press PLAY. (Playback starts.)
  - The numeric buttons of the remote control unit can also be used for entering the track numbers.
  - Refer to the jacket etc. of the disc concerned for the track numbers.
  - Select "track 1" to start play from the beginning of the disc.

### □ Returning to menu play

Press STOP twice to stop playback, and press PLAY/DISPLAY (in case of the remote control, PLAY).

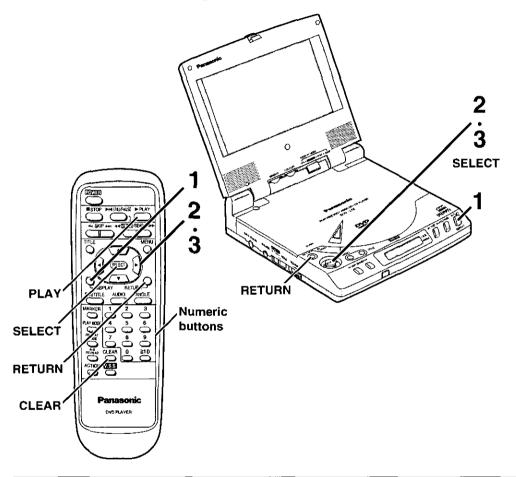
(" P h!" will appear on the display window and the menu appears on the screen.) Select the preferred item using the numeric buttons.

### For your reference:

 In these instructions, playback using the menu screen is referred to as "menu play" for Video CDs.

### Operation using the On-Screen Menu Icons

This player features On-Screen Menu Icons showing disc information (title/chapter/track number, elapsed playing time, audio/subtitle language and angle) and player information (repeat play, marker and virtual surround sound); some icons show the indicated information and other icons allow the settings to be changed.



### For your reference:

- •On-Screen Menu Icons can also be cleared by pressing RETURN or CLEAR.
- The DISPLAY button of the remote control unit is effective to show the On-Screen Menu Icons even in the stop mode.
- •The PLAY/DISPLAY button of the main unit functions both as a PLAY button and a DISPLAY button (for displaying the On-Screen Menu Icons). If the button is pressed during play, the On-Screen Menu Icons will be displayed and if pressed in the stop mode, playback will start.

# Press PLAY/DISPLAY during play.

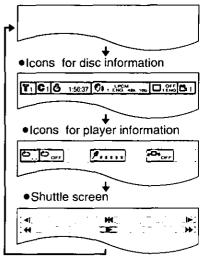
 In case of the remote control, press DISPLAY.

(On-Screen Menu Icons are displayed.)

- Each time the button is pressed, the icons change as shown in the right.
- The icons may differ depending on the disc contents.

#### Example: DVD

Normal playback screen



# Select the preferred item by using the joystick (◄ ►).

•In case of the remote control, select the item using the cursor buttons. (The currently selected item is indicated by a yellow frame on the On-Screen Menu lcons.)

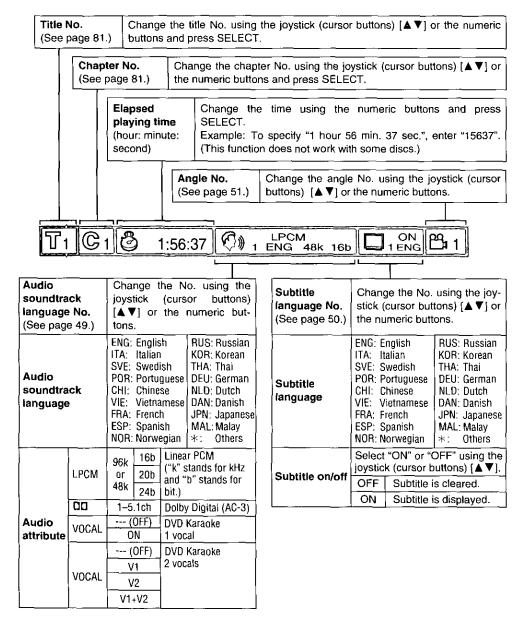
# **3** Select the preferred item by using the joystick ( $\blacktriangle$ $\blacktriangledown$ ).

- •In case of the remote control, select the item using the cursor buttons.
  - •When numbers are displayed (e.g. title No.), the numeric buttons of the remote control unit are also effective for setting. When the numeric buttons are used, press SELECT to enter the selection.
  - For some functions, the setting will be registered immediately; for others SELECT or PLAY/DISPLAY (in case of the remote control, PLAY) must be pressed. Some functions cannot be accessed from the stop mode.
- •The PLAY/DISPLAY button on the main unit does not work during menu play of a Video CD with playback control. Press the DISPLAY button on the remote control to show the On-Screen Menu Icons.
- During playback of a CD, set the display mode of the LCD to "OFF" to conserve power and to prevent battery consumption. (See page 68.)
- •If a TV set is connected to the player, depending on the type of the DVD software and the TV with automatic picture zoom function enabled, the On-Screen Menu Icons may not be displayed or only partially displayed on the TV screen.
  - In this case, select the appropriate TV screen type by consulting the operating instruction manual for the TV.

# Operation using the On-Screen Menu Icons

## Detailed descriptions of each team [leans for disc information]

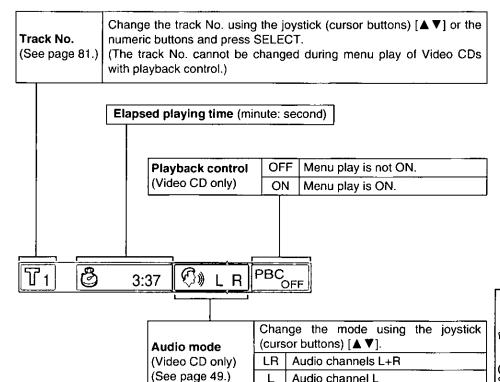
#### □ DVD











#### For your reference:

In case of the remote control, the items can be changed using the cursor buttons instead of the joystick.

R

Audio channel R

- •" $\triangle \nabla$ " around the icon means that the item can be changed using the joystick (cursor buttons) [▲ ▼].
- Track No. and the elapsed playing time are not displayed during menu play of Video CDs with playback control.
- •It is not possible to turn playback control ON or OFF using the On-Screen Menu Icons.

# Operation using the On-Screen Menu Icons

### Detailed descriptions of each teen [leans for player information]

A-B repeat play (See page 43.) Press SELECT during play to store location A and press SELECT again to store location B and to start repeat play between the specified two locations. Press SELECT again to return to normal play.

				the preferre cursor buttor			during play using the joy	
			OFF Normal play					
Repeat play (See page 42.)		Ċ	C Chapter repeat play		DVD			
		T	T Title repeat play					
		OFF	Normal play  Track repeat play  Disc repeat play		Video CD CD			
		Т						
		Α						
			J		· · · · · · · · · · · · · · · · · · ·	 r		
	(Vi		ay mode ideo CD/CD only) ee pages 46–48.)		PRG	Progra	ım play	
					RND	Rando	Random play	
						Normal play		
			Virtual Surround Sound (V.S.S.) (DVD only) (See page 54.)		1	•	eferred mode during pla ick (cursor buttons) [▲▼]	
					OFF V.S.S. off			
		1			1 V.S.S. natural effect			
					2	V.S.S. emphasized effect		
	<u> </u>							
٧	OFF	Ę.	>	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	*	Ø	<b>D</b> ⇒ OFF	

Marker (See pages 44 and 45.) Press SELECT during play and press SELECT again at the preferred point to store a marker. (Marker no. is displayed instead of "\*".)

- To recall a marker, select the preferred marker no. using the joystick (cursor buttons) [◄►] and enter the selection using the joystick (cursor button) [▲].
- To clear a marker, select the preferred marker no. using the joystick (cursor buttons) [◄►] and press CLEAR.

#### Detailed descriptions of each icon (Shuille screen) Tilt the joystick $[\blacktriangle]$ or press the cursor button $[\blacktriangle]$ . Still/pause ("■ ■" is displayed for CDs.) Tilt the joystick [◀] or Tilt the joystick (►) or Slow-motion Slow-motion press the cursor button press the cursor button play play [**◀**]. (Backward) (Forward) (DVD only) (DVD/Video CD only) Rapid Tilt the joystick [◀] or press Rapid Tilt the joystick [▶] or press reverse the cursor button [◄]. advance the cursor button [▶].

#### For your reference:

Play

- •In case of the remote control, the items can be changed using the cursor buttons instead of the joystick.
- •A-B repeat play, repeat play and marker functions do not work with interactive DVDs or during menu play of Video CDs with playback control.
- •It is not possible to change the play mode using the On-Screen Menu Icons.

Tilt the joystick  $[\nabla]$  or press the cursor button  $[\nabla]$ .

 The speed of rapid reverse, rapid advance and slow-motion play changes up to 5 steps each time the joystick is tilted or the cursor button is pressed.

# Repeat play

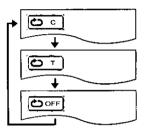
### Repeat viewing (listening))

#### Press REPEAT MODE play.

(Each time this button is pressed, the screen changes as shown below and the selected repeat play starts.)

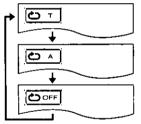
#### D DVD

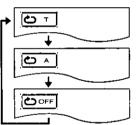
- Repeat of chapter being played
- Repeat of title being played
- Cancel repeat mode

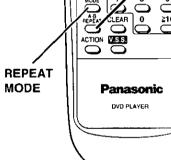


#### □ Video CD/CD

- Repeat of track being played
- Repeat of entire disc contents
- Cancel repeat mode







POWER

TITLE

DISPLAY

MARKER

SUBTITLE AUDIO

■STOP ►HISTILPAUSE ► PLAY

44 SKIP PPI 44 (SLOW)/SEARCHPP

MENU

RETURN

ANGLE

#### □ Returning to normal play

Normal play starts when approx. 5 seconds have elapsed after " OFF" is displayed.

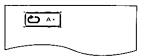
#### For your reference:

- Repeat play and A-B repeat play may not work correctly with some DVDs.
- Repeat play and A-B repeat play do not work with discs for which the elapsed playing time does not appear on the display window during play.
- A-B repeat play works only within a title [DVD] or a track [Video CD/CD].
- Some subtitles recorded around location A or B may fail to appear.
- •If the title/track is completed before end location B is specified, the end point of the title/track serves as end location B.

Advanced Operations

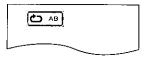
# Repeating sections between two specific points ((A=B repeat))

Press A-B REPEAT during play. (Starting location A is specified.)



Press A–B REPEAT again.

(End location B is specified and repeat play between locations A and B starts.)



☐ Returning to normal play

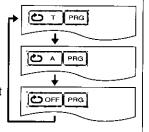
Press A-B REPEAT again to display "> • •"; A-B repeat play is cancelled and normal play starts.

### Additional operation

☐ Starting repeat play during program play

Press REPEAT MODE during program play (see page 46). (Each time this button is pressed, the screen changes as shown below and the selected program repeat play starts.)

- Repeat of track being played
- Repeat of all programs
- Cancel repeat mode



(When approx. 5 seconds have elapsed after " OFF" is displayed, program play is resumed.)



☐ Chapter/Title repeat play (DVD)

Position being played back

Title

Chapter repeat
Title repeat
Normal play

☐ Track/Disc repeat play (Video CD/CD)

Position being played back

Track Track Track

Track repeat
Disc repeat
Normal play

□ A-B repeat play

Starting location A End location B

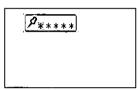


# Storing markers in memory to be viewed (listened to) again

It is possible to store the starting point to be viewed (listened to) again and to start play-back from that point.

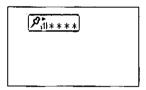
## Storing a marker in memory

Press MARKER during play. (The marker screen is displayed.)

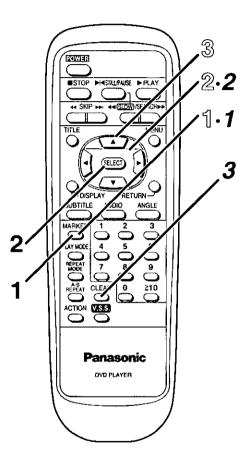


- •"\*" indicates no starting point has been stored yet at the corresponding marker number.
- Press SELECT at the starting point to be viewed (listened to) again.

(The marker number is displayed.)



- Up to 5 markers can be stored in memory.
- If SELECT is pressed where any number is already displayed, the previous starting point will be replaced by the new one.



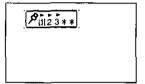
#### For your reference:

- Some subtitles recorded around the marker may fail to appear.
- These operations do not work with DVDs for which the elapsed playing time does not appear on the display window during play or during menu play of Video CDs.
- All the markers are retained in memory until the power is turned off or the disc is removed.

## Recalling a marker

Press MARKER during play if the marker screen is not displayed.

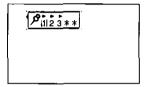
(The marker screen is displayed.)



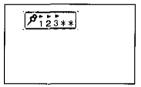
Clearing a warker

Press MARKER during play if the marker screen is not displayed.

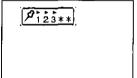
(The marker screen is displayed.)



Select the marker number by pressing **◄** ▶.



Select the marker number by pressing **◄** ▶.



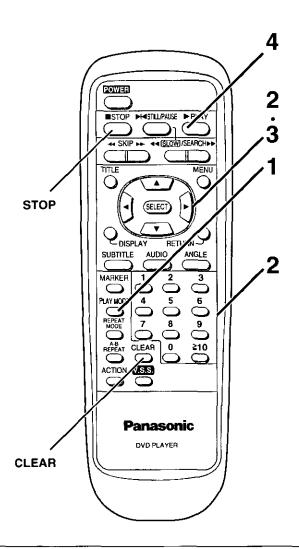
Press A. (Playback starts from the point corresponding to the selected marker.)

Press CLEAR. (The selected marker is cleared.)



## **Program play**

For Video CDs and CDs, the player plays the tracks on the disc in an order you specify.



#### ☐ After playback of all programs

Play stops and the program playback screen is displayed.

#### ☐ Returning to normal play

Press STOP to stop program play, and then press PLAY MODE twice.

When PLAY is pressed, normal play starts from the beginning of the disc.

(The contents of the program are still retained in memory.)

#### Press PLAY MODE once in the stop mode.

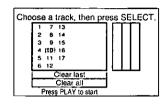
(The program playback screen is displayed.)

 To exit the screen Press Pt AY MODE twice



### Select the preferred track number by pressing ▲▼◀▶ or the numeric buttons.

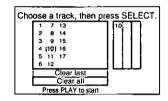
•When the number is selected using the numeric buttons, step 3 is not necessary.



### Press SELECT.

(The selected track is stored in memory.)

- Repeat steps 2 and 3 to select another track.
- Up to 18 tracks can be programmed.



## Press PLAY.

(Play now begins in the programmed sequence.)

#### ☐ Clearing a program one by one

Press STOP twice to display the program playback screen. Each time CLEAR is pressed, the last program is cancelled. Selecting "Clear last" using the cursor buttons and pressing SELECT also clears the last program.

#### □ Clearing all the programs

The programs are cleared when the power is turned off or the disc is removed. Selecting "Clear all" using the cursor buttons and pressing SELECT also clears all the programs.



For Video CDs and CDs, the player plays the tracks on the disc in random order.

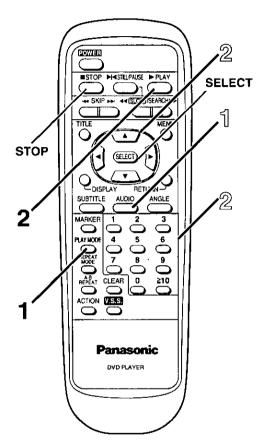
### Press PLAY MODE twice in the stop mode.

(The random playback screen is displayed.)

To exit the screen
 Press PLAY MODE once.

Random Playback
Press PLAY to start

Press PLAY.
(Play now begins in random order.)



<sup>☐</sup> After random play is finished Play stops and the random playback screen is displayed.

<sup>☐</sup> **Returning to normal play**Press STOP to stop random play, and then press PLAY MODE once.

# Changing audio soundtrack language

(Multi-audio function)



It is possible to change the audio soundtrack language during play if multiple audio sound-track languages are recorded on the disc.



#### Press AUDIO during play.

(Number of the audio soundtrack language being played back is displayed.)

 When no audio soundtrack is recorded, "—" will be displayed instead of the language number.





# Select the preferred language by pressing $\blacktriangle \blacktriangledown$ or the numeric buttons (1–8).

Press AUDIO or SELECT to clear the display.



#### For your reference:

- •When the preferred language is not selected even after pressing the cursor buttons several times, it means that the language is not available on the disc.
- •When the power is turned on or the disc is removed, the language heard is the one selected at the initial settings (see page 56). If this language is not recorded on the disc, the language specified by the disc will be heard.

# Additional operation (DVD) (VGD)

# ☐ Switching vocals ON or OFF for Karaoke discs

Press AUDIO during play of Karaoke discs.

- Press AUDIO again to clear the display.
- It is not possible to switch vocals ON or OFF for CDs.

#### ●DVD Karaoke (1 vocal)

"---" (OFF) or "ON" of vocals can be selected by pressing ◀ ▶.

#### DVD Karaoke (2 vocals)

"---" (OFF), "1+2" (ON), "V1" (ON) or "V2" (ON) of vocals can be selected by pressing ◀ ▶.

#### Video CD

"LR", "L" or "R" can be selected by pressing  $\blacktriangle \nabla$ .

## Changing subtitle language (Multi-subtitle function)



It is possible to change the subtitle language during play if the multiple subtitle languages are recorded on the disc.

# Press SUBTITLE during play.

(Number of the subtitle language being played back is displayed.)



 When no subtitles are recorded "-" will be displayed instead of the language number.

# Select the preferred language by pressing ▲ ▼ or the numeric buttons (1-0, ≥10).



 Press SUBTITLE or SELECT to clear the display.

# **■STOP** ►I**⊲**STILLPAUSE ► PLAY SELEC RETURN. DISPLAY AUDIO SELECT Panasonic 4 6 1 DVD PLAYER

#### For your reference:

- When the preferred language is not selected even if pressing the cursor buttons several times, it means that the language is not available on the disc.
- When the power is turned on or the disc is removed, subtitles appear in the language selected at the initial settings (see page 56). If this language is not recorded on the disc, the language specified by the disc will be displayed.
- •In some cases, the subtitle language is not changed to the selected one immediately.

#### Note:

 When a disc supporting the closed caption is played, the subtitle and the closed caption may overlap each other on the screen. In this case, turn the subtitle off.

#### Additional operation

# ☐ Clearing/Displaying the subtitles

"OFF" or "ON" of subtitles can be selected by pressing  $\blacktriangleleft \triangleright$ .

# Viewing from another angle (Multi-angle function)

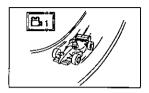


For DVDs which contain scenes which have been shot simultaneously from a number of different angles the same scene can be viewed from each of these different angles during play.



#### Press ANGLE during play.

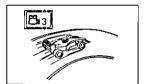
(Number of angle being played back is displayed.)





# Select the preferred angle by pressing $\blacktriangle \nabla$ or the numeric buttons (1–9).

Press ANGLE or SELECT to clear the display.

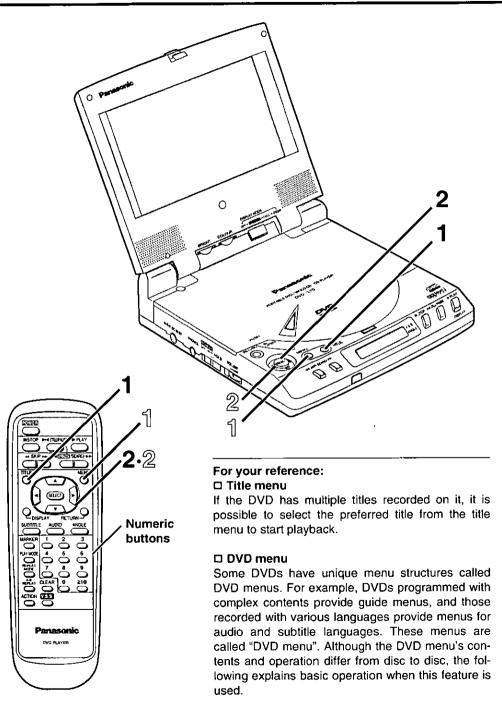


#### For your reference:

- This function only works for discs having scenes recorded at different angles.
- •The angle indicator lights up on the display window at the scenes recorded at different angles to indicate that angle switching is possible.

Angle indicator

 The angle number can be programmed beforehand; the angle will be switched to the selected number when the angle indicator lights up.



### Using a tille menu

Press TITLE during play. (The title menu is displayed.)

> Pressing TITLE again resumes play from the scene when the title menu was first displayed.

### Example:

TITLE MENU

Dogs Castles

Lovers Birds

# 2 Select the preferred title by using the joystick (▲ ▼ ◀ ▶) and press SELECT.

- In case of the remote control, select the item using the cursor buttons.
- The numeric buttons can be used for selecting the items for some discs.

### Using a DVD menu

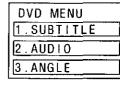
1

## Press MENU during play.

(The DVD menu is displayed.)

 Pressing MENU again resumes play from the scene when the DVD menu was first displayed.

#### Example:





# Select the preferred item by using the joystick (▲ ▼ ◀ ▶) and press SELECT.

- •In case of the remote control, select the item using the cursor buttons.
- The numeric buttons can be used for selecting the items for some discs.
- •To display the menu screen one after another, repeat step 2.

# Reproducing a Virtual Surround Sound (V.S.S.) effect



If the player is connected to external speakers, the player can reproduce a virtual surround sound effect which reproduces a sound as if heard from non-existent rear speakers at the side even when only a 2-channel stereo system is connected [for playback of Dolby Digital (AC-3)/5.1ch DVD software only].

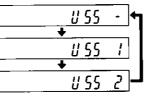
# Press V.S.S. (VIRTUAL SURROUND SOUND) during play.

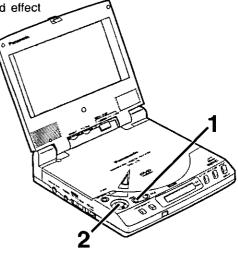
(Each time this button is pressed, the display window changes as shown below.)

Off:

Natural effect:

Emphasized effect:





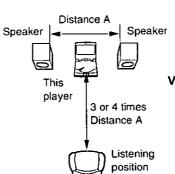
#### Note:

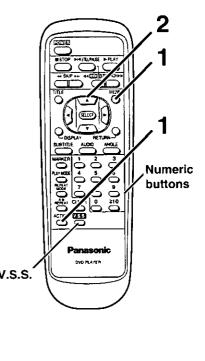
 The stereo speakers in this player are not adequate for reproduction of the virtual surround sound effect. External speakers should be connected to the player.

#### For your reference:

◆This function works only with DVDs recorded in Dolby Digital (AC-3)/5.1ch surround. (The V.S.S. indicator is displayed on the display window.)

- The virtual surround sound effect may not work properly for some DVD software.
- When the player is connected to a TV set with surround effect, turn off the surround effect other than this virtual surround sound effect.
- •For optimum effect, it is recommended that the distance between the player and the listening position be about 3 or 4 times the distance between the right and left front speakers.





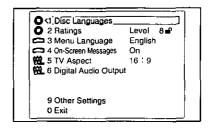
The initial settings (factory settings) can be changed. For example, the audio soundtrack language can be changed to French by changing the setting at "1 Disc Languages".

(The settings will be retained in memory, until the settings are changed, even after turning the power off.)

Press MENU in the stop mode.

 In case of the remote control, press ACTION or MENU.

(The initial settings screen is displayed.)



# 2 Select the preferred item by using the joystick (▲ ▼) and press SELECT.

•In case of the remote control, select the item using the cursor buttons.

1 Disc Languages (See page 56)

This is to select the audio soundtrack language, subtitle language and the language used in the menus. (If the language selected is not available on the disc, the language designated by each disc will be selected.)

2 Ratings (See page 58)

This is to disable the playing of DVDs which are unsuitable for children. Some discs may not be encoded with specific rating level information though its disc jacket says that it is for "adults". For those discs, the age restriction will not work. It is possible to prohibit playback of all DVDs.

3 Menu Language (See page 62)

This is to select the language used for the initial settings screen or for On-Screen Display messages such as "Play".

4 On-Screen Messages (See page 63)

This is to select whether On-Screen Display messages such as "Play" will be displayed or not.

5 TV Aspect (See page 63)

This is to select the appropriate TV aspect (4:3 or 16:9) according to the connected TV set.

6 Digital Audio Output (See page 64)

This is to select the audio type to be output from the audio input/output (optical digital audio output) connector.

9 Other Settings (See page 66)

This is to make other settings such as dynamic range compression.

#### For your reference:

- The numeric buttons can also be used for selecting the items. (In this case, pressing SE-LECT is not necessary.)
- When the MENU button of the remote control unit is pressed during play, the DVD menu will be displayed and if pressed in the stop mode, the initial settings screen will be displayed.

#### Note:

- There are no No. 7 and 8 items of the initial setting in this player.
- After the player is set to the "Lock All" setting in "2 Ratings", none of the initial settings, including "2 Ratings", can be changed if the DVD disc is left inside the player. In this case, remove the disc, and unlock the player.

### When "I Disc Languages" is selected

See page 55 for steps 1 and 2.

# Select the preferred item by using the joystick (▲ ▼) and press SE-LECT.

- •In case of the remote control, select the item using the cursor buttons.
- 1 Audio

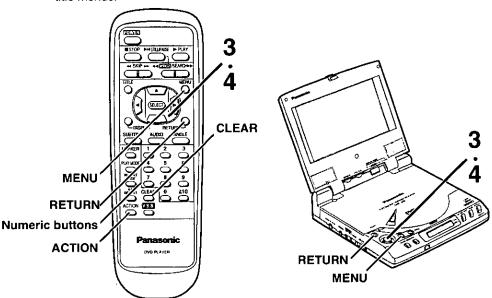
This is to select the audio soundtrack language heard from the speakers.

2 Subtitle

This is to select the subtitle language displayed on the screen.

3 Menus

This is to select the language used in the menus recorded on the discs such as title menus.



#### For your reference:

- The numeric buttons can also be used for selecting the items. (In this case, pressing SELECT is not necessary.)
- Returning to the previous menu Press RETURN.
- Finishing the initial settings
   Press MENU at the initial settings screen illustrated in step 1 on page 55. (In case of the remote control, press ACTION, MENU or "0".)

Disc Languages

器器

Audio

Subtitle

3 Menus

0 Exit

English

English

Automatic

# 4 Select the preferred item by using the joystick (▲ ▼) and press SELECT.

•In case of the remote control, select the item using the cursor buttons.

#### □ When "1 Audio" is selected

#### 1 English (Factory preset)

English will be selected as audio soundtrack language.

#### 2 French

#### 3 Spanish

Each language will be selected as audio soundtrack language.

#### 4 Original

The top-priority language recorded on each disc will be selected as audio soundtrack language.

#### 5 Other \*\*\*\*

Another language will be selected as audio soundtrack language.

Enter the 4-digit language code (see page 79) using the numeric buttons.

Press CLEAR if an incorrect language code is entered.

#### □ When "2 Subtitle" is selected

#### 1 Automatic (Factory preset)

Subtitle language will automatically be selected in accordance with the audio soundtrack language.

- •If the language selected for the "1 Audio" is actually used during play, the subtitles will not appear.
- •If another language is used during play, the subtitles will appear in the language selected at "1 Audio".

#### 2 English

#### 3 French

#### 4 Spanish

Each language will be selected as subtitle language.

#### 5 Other \*\*\*\*

Another language will be selected as subtitle language.

Enter the 4-digit language code (see page 79) using the numeric buttons.

Press CLEAR if an incorrect language code is entered.

#### ☐ When "3 Menus" is selected

#### 1 English (Factory preset)

English will be selected as disc menu language.

#### 2 French

#### 3 Spanish

Each language will be selected as disc menu language.

#### 4 Other \*\*\*\*

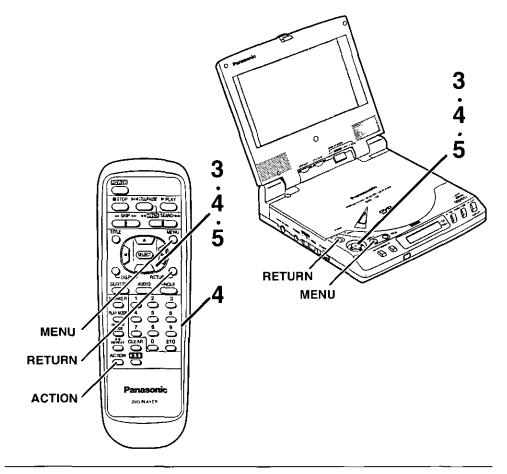
Another language will be selected as disc menu language.

Enter the 4-digit language code (see page 79) using the numeric buttons.

Press CLEAR if an incorrect language code is entered.

When "2 Retings" is selected

When playback is not restricted (Level 8)



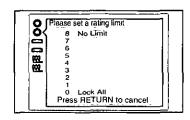
#### Notes:

- Do not forget your password.
- When the rating is locked, the settings cannot be changed unless the correct password is entered.

### For your reference:

- The numeric buttons can also be used for selecting the items. (In this case, pressing SELECT is not necessary.)
- Returning to the previous menu Press RETURN.
- Finishing the initial settings
   Press MENU at the initial settings screen illustrated in step 1 on page 55. (In case of the remote control, press ACTION, MENU or "0".)

- 3 Select the preferred level by using the joystick (▲ ▼) and press SELECT.
  - In case of the remote control, select the item using the cursor buttons.



☐ Level 8 (Factory preset)

All DVDs (for adults/general audiences/children) can be played back.

□ Level 7-Level 2

DVDs for general audiences/children can be played back. (DVDs for adults are prohibited.)

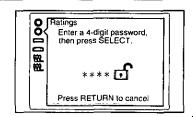
□ Level 1

DVDs for children can be played back. (DVDs for adults/general audiences are prohibited.)

☐ Level 0

Playback of all DVDs is prohibited (e.g. to prohibit playback of DVDs for adults which are not encoded with rating level information).

4 When level 7 or lower is selected, Enter a 4-digit password by pressing the numeric buttons and press SELECT.



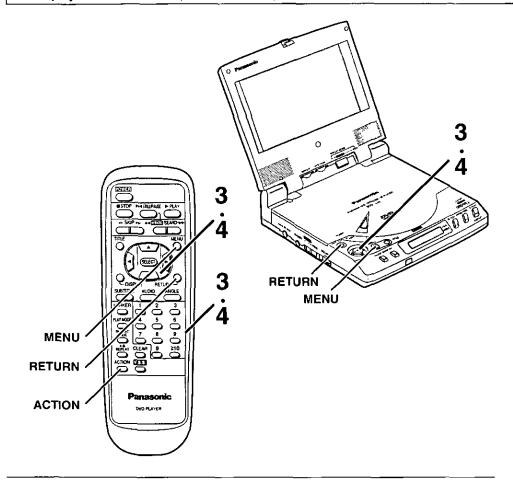
**5** Press SELECT.



(Setting is finished and the screen illustrated in step 1 on page 55 is displayed.)

When "2 Ratings" is selected

When playback is restricted (Level 0-Level 7)



#### For your reference:

- •In case of the remote control, the items can be selected using the cursor buttons instead of the joystick.
- The numeric buttons can also be used for selecting the items. (In this case, pressing SELECT is not necessary.)
- Returning to the previous menu Press RETURN.
- Finishing the initial settings
   Press MENU at the initial settings screen illustrated in step 1 on page 55. (In case of the remote control, press ACTION, MENU or "0".)

See page 55 for steps 1 and 2.

3 Enter the correct password by pressing the numeric buttons and press SELECT.



- 4 1
  - □ To unlock the rating
    - Select "1 Unlock Player" using the joystick (▲ ▼) and press SELECT.
    - Press SELECT.

(The screen illustrated in step 1 on page 55 is displayed.)

- □ To change the password
  - Select "2 Change Password" using the joystick (▲ ▼) and press SELECT.
  - 2. Enter the password by pressing the numeric buttons and press SELECT.
  - 3. Press SELECT.

(The screen illustrated in step 1 on page 55 is displayed.)

- □ To change the rating level
  - Select "3 Change Level" using the joystick (▲ ▼) and press SELECT.
  - 2. Select the preferred level using the joystick (▲ ▼) and press SELECT.

(The screen illustrated in step 1 on page 55 is displayed.)

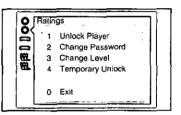
- ☐ To temporarily unlock the rating level
  - Select "4 Temporary Unlock" using the joystick (▲ ▼) and press SELECT.
  - 2. Press SELECT.

(The screen illustrated in step 1 on page 55 is displayed.)

- •The player is unlocked only temporarily and will be locked again when the power is turned off or the disc is removed.
- ☐ To finish the settings without changing the rating level

Select "0 Exit" using the joystick (▲ ▼) and press SELECT.

(The screen illustrated in step 1 on page 55 is displayed.)

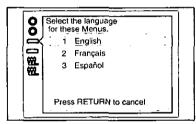


ealeated with Languages is

See page 55 for steps 1 and 2.

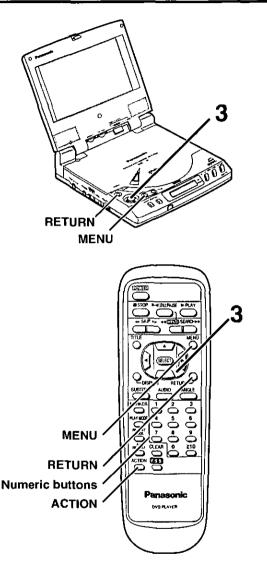
Select the preferred language by using the joystick (▲ ▼) and press SELECT.

 In case of the remote control, select the item using the cursor buttons.



- 1 English (Factory preset) English is selected as On-Screen Display language.
- 2 Français
- 3 Español Each language is selected as On-Screen Display language.

(Setting is finished and the screen illustrated in step 1 on page 55 is displayed.)



#### For your reference:

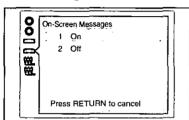
- The numeric buttons can also be used for selecting the items. (In this case, pressing SELECT is not necessary.)
- Returning to the previous menu Press RETURN.
- Finishing the initial settings
   Press MENU at the initial settings screen illustrated in step 1 on page 55. (In case of the remote control, press ACTION, MENU or "0".)

## Mien "4 On-Sereen Meseres et "especed

See page 55 for steps 1 and 2.

# 3 Select "On" or "Off" by using the joystick (▲ ▼) and press SELECT.

 In case of the remote control, select the item using the cursor buttons.



#### 1 On (Factory preset)

On-Screen Display messages such as "Play" and "Still" will always be displayed on the screen.

#### 2 Off

On-Screen Display messages such as "Play" and "Still" will not be displayed on the screen.

(Setting is finished and the screen illustrated in step 1 on page 55 is displayed.)

#### Note:

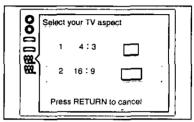
 The settings for "5 TV Aspect" also affects the LCD screen of the player. Select "2 16:9" when using the player's LCD without connecting a TV set. (See page 68.)

# When "5 TV Aspect" is selected

See page 55 for steps 1 and 2.

# 3 Select the appropriate TV aspect by using the joystick (▲ ▼) and press SELECT.

•In case of the remote control, select the item using the cursor buttons.



#### 1 4:3

Select when a conventional TV set is connected.

 Video material for wide-screen formatted in the Pan & Scan style

Played back in the Pan & Scan style (the left and right edges are cut off)



 Video material for wide-screen not formatted in the Pan & Scan style

Played back in the letterbox style (black bands appear at top and bottom of the screen)



### 2 16:9 (Factory preset)

Select when a wide-screen TV set is connected or when the player's LCD is used. Video material for wide-screen is played back in "FULL" size.

(Setting the widescreen TV to "FULL" mode is also necessary.)



(Setting is finished and the screen illustrated in step 1 on page 55 is displayed.)

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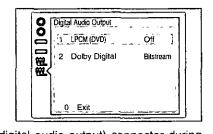
See page 55 for steps 1 and 2.

# Select the preferred item by using the joystick (▲ ▼) and press SE-LECT.

•In case of the remote control, select the item using the cursor buttons.

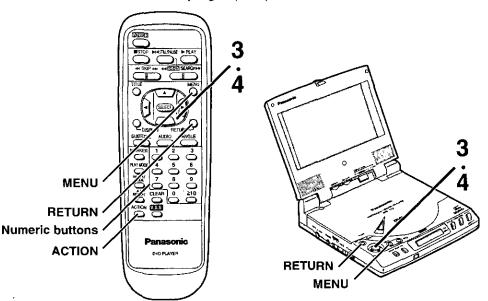
#### 1 LPCM (DVD)

This is to select whether Linear PCM audio converted to 48 kHz/16 bit will be output from the audio input/output (optical digital audio output) connector during playback of the DVD recorded in Linear PCM.



#### 2 Dolby Digital

This is to select the signal format (Bitstream or PCM) which will be output from the audio input/output (optical digital audio output) connector during playback of the DVD recorded in Dolby Digital (AC-3).



#### For your reference:

 The numeric buttons can also be used for selecting the items. (In this case, pressing SELECT is not necessary.)

- Returning to the previous menu Press RETURN.
- Finishing the initial settings

Press MENU at the initial settings screen illustrated in step 1 on page 55. (In case of the remote control, press ACTION, MENU or "0".)

# 4

# Select the preferred item by using the joystick ( $\blacktriangle$ $\blacktriangledown$ ) and press SELECT.

•In case of the remote control, select the item using the cursor buttons.

#### ☐ When "1 LPCM (DVD)" is selected

#### 1 Off (Factory preset)

Only Linear PCM of 48 kHz/16 bit digital audio is output.

During playback of the DVD recorded in Linear PCM of 48 kHz/20 bit/24 bit or 96 kHz, no digital audio is output.

#### 2 PCM

During playback of the DVD recorded in Linear PCM of 48 kHz/20 bit/24 bit or 96 kHz, digital audio converted to 48 kHz/16 bit is output.

(Digital output of PCM audio is restricted to 48 kHz/16 bit or below for copyright protection.)

#### ☐ When "2 Dolby Digital" is selected

#### 1 Bitstream (Factory preset)

Dolby Digital (AC-3) bitstream (1ch-5.1ch) will be output during playback of the DVD recorded in Dolby Digital (AC-3). Select this setting when the Dolby Digital (AC-3) decoder is connected.

#### 2 PCM

PCM (2ch) converted to 48 kHz/16 bit will be output during playback of the DVD recorded in Dolby Digital (AC-3).

(Setting is finished and the screen illustrated in step 3 is displayed.)

#### ☐ Recommended setting of "Digital Audio Output"

Make settings as shown in table below depending on the type of equipment that is connected to the audio input/output (optical digital audio output) connector using the optical digital audio cable.

Type of equipment to be	Recommended setting		
connected	LPCM (DVD)	Dolby Digital	
No equipment is connected	Off (Factory preset)	Bitstream (Factory preset)	
AV amplifier (with digital audio input connector) without Dolby Digital (AC-3) decoder	PCM*1	PCM*2	
Dolby Digital (AC-3) decoder (See page 71.)	PCM*1	Bitstream (Factory preset)	

- \*1 Audio output from the player's audio input/output (optical digital audio output) connector is converted to 48 kHz/16 bit if the player is connected using the optical digital audio cable. To enjoy high quality sound at 48 kHz/20 bit/24 bit or 96 kHz, connect the amplifier or decoder to the audio input/output (optical digital audio output) connector using the video/audio cable (supplied), not by the optical digital audio cable. [Select "Off" at the "1 LPCM (DVD)".]
- \*2 When connecting an amplifier (with an optical digital input connector) which does not contain the Dolby Digital (AC-3) decoder, be sure to select "PCM". If "Bitstream" is selected, any attempt to play DVDs may cause such a high level of noise that it may be harmful to your ears and damage your speakers.

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See page 55 for steps 1 and 2.

# Select the preferred item by using the joystick (▲ ▼) and press SE-LECT.

•In case of the remote control, select the item using the cursor buttons.

#### 1 Still Mode

This is to reduce jittering which may occur in the pictures during still mode.

#### 2 Audio during Search

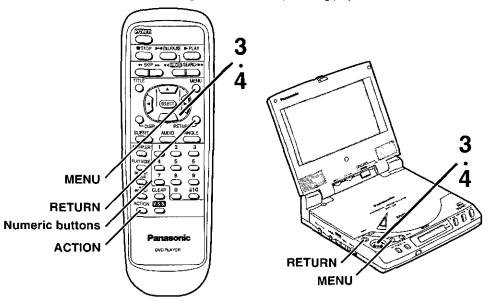
This is to select whether sounds during rapid advance at step 1 will be heard or not.

#### 3 TV Mode (4:3)

This is to select the TV aspect when video material for wide-screen is played back on a conventional TV.

#### 4 D. (Dynamic) Range Compression

This is to select the audio range which will be output during play.



#### For your reference:

- The numeric buttons can also be used for selecting the items. (In this case, pressing SELECT is not necessary.)
- Returning to the previous menu Press RETURN.

Other Settings

0 Exit

贸

1 Still Mode

2 Audio during Search On

4 D.Range Compression Off

3 TV Mode (4:3) Pan&Scan

Automatic

• Finishing the initial settings

Press MENU at the initial settings screen illustrated in step 1 on page 55. (In case of the remote control, press ACTION, MENU or "0".)

# 4 Select the preferred item by using the joystick (▲ ▼) and press SELECT.

•In case of the remote control, select the item using the cursor buttons.

#### □ When "1 Still Mode" is selected

#### 1 Automatic (Factory preset)

Select this setting in general. "Frame still" and "Field still" will automatically be switched.

#### 2 Field

Select this setting when jittering occurs in the pictures even when "Automatic" is selected.

#### □ When "2 Audio during Search" is selected

#### 1 On (Factory preset)

Select this setting to hear sounds during rapid advance at step 1. (Select "Off" if you are bothered by these sounds.)

#### 2 Off

Select this setting when sounds during rapid advance at step 1 are not necessary.

#### □ When "3 TV Mode (4:3)" is selected

#### 1 Pan & Scan (Factory preset)

Video material for wide-screen will be played back in the Pan & Scan style (the left and right edges are cut off). Those not formatted in the Pan & Scan style will be played back in the letterbox style.

#### 2 Letterbox

Video material for wide-screen will be played back in the letterbox style (black bands appear at top and bottom of screen).

#### ☐ When "4 D. (Dynamic) Range Compression" is selected

#### 1 Off (Factory preset)

Normal audio range is selected.

#### 2 Or

Select this setting to enjoy listening to dynamic sound even on a low volume. This is useful for late-night listening. [This function only works with Dolby Digital (AC-3) DVDs.]

(Setting is finished and the screen illustrated in step 3 is displayed.)

# Display modes of the LCD

Each time DISPLAY MODE is pressed, the display mode of the LCD changes as follows:

Type of software Mode	Software for wide- screen	Software (4:3)	Software (4:3, Letterbox)
NORMAL	Full screen	Screen with black bands on the right and left	Letterbox
FULL	Full screen	The above screen is horizontally enlarged	The above screen is horizontally enlarged (with black bands at top and bottom)
ZOOM	Screen whose top and bottom edges are cut off	Top and bottom edges of the above full screen are cut off	Full screen
OFF	Off	Off	Off

#### Note:

 It is recommended to set the display mode to "OFF" to conserve power or to prevent battery consumption when an external TV set is connected or during playback of CDs.

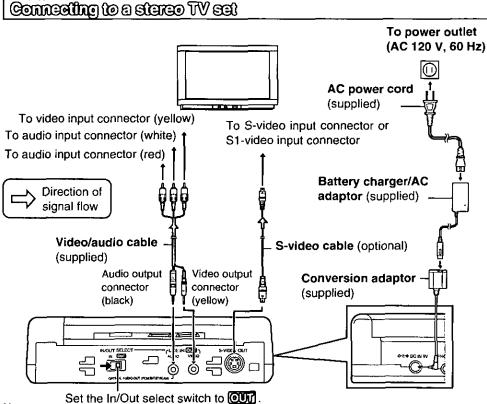
#### For your reference:

•Horizontal lines may appear on the screen when the display mode is set to "ZOOM": this is normal.

This player

### Connection

- Ensure that power of the player and other equipment to be connected is turned off before commencing connection.
- •Do not block ventilation holes of any of the equipment and arrange them so that air can circulate freely.
- Read through the instructions before connecting other equipment.
- •Ensure that you observe the color coding when connecting audio and video cables.
- Select the appropriate screen type at the initial setting "5 TV Aspect" according to your TV set (4:3 or 16:9). (See page 63.)



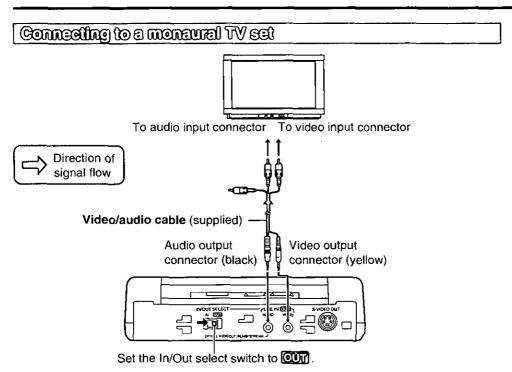
#### Notes:

- During DVD play, the TV volume may be at a lower level than during TV broadcasts, etc. If this is the case, adjust the volume to the desired level.
- •If the player is connected to the TV through a video cassette recorder, the picture may not be played back normally with some DVDs. TV set

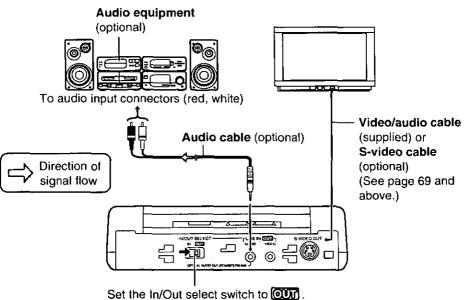
If this is the case, do not connect the player via the VCR.

☐ When connecting this player to a TV set equipped with an S-video input connector The S (separate) video output connector separates the color (C) and luminance (Y) signals before transmitting them to the TV set in order to achieve a sharper picture. Use the S-video cable (optional) when connecting the player to a TV set equipped with an S-video input connector for the best picture clarity possible.

### Connection

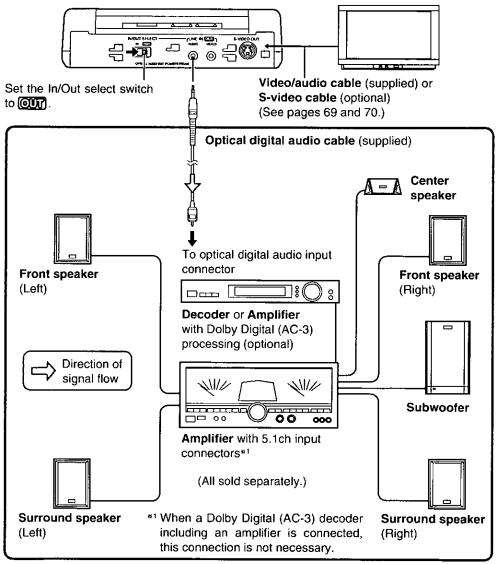


## fremeting to audio equipment



# Connecting to a decoder with Dolby Digital (AC=0) processing

When DVDs recorded in Dolby Digital (AC-3)/5.1ch are played, Dolby Digital bitstream is output from the player's audio input/output (optical digital audio output) connector. When the player is connected to a Dolby Digital decoder using the optical digital audio cable (supplied), you can enjoy theater-quality audio in your home.



(Continued on the next page)

## Connection

# Caution for the audio input/output (optical digital audio output) connector:

- When connecting an amplifier (with an optical digital input connector) which
  does not contain the Dolby Digital (AC-3) decoder, be sure to select "PCM" at
  "2 Dolby Digital" of the initial setting "6 Digital Audio Output". (See page 64.)
- Otherwise any attempt to play DVDs may cause such a high level of noise that it
  may be harmful to your ears and damage your speakers.
- Video CDs and CDs can be played as they would normally be played.

# ☐ Concerning the audio output from the player's audio input/output (optical digital audio output) connector

Disc	Sound recording format	Optical digital audio output from connector	
DVD	Dolby Digital (AC-3)	● Dolby Digital (AC-3) bitstream (1-5.1ch) ● PCM (2ch) (48 kHz/16 bit) *1 *2	
	Linear PCM (48/96 kHz 16/20/24 bit)	Linear PCM (2ch)     (48 kHz sampling/16 bit only)     •No output*²	
Video CD	MPEG 1	PCM (44.1 kHz sampling) *1	
CD	Linear PCM	Linear PCM (44.1 kHz sampling)	

<sup>\*1</sup> The compressed audio signals are converted to PCM and then output.

#### For your reference:

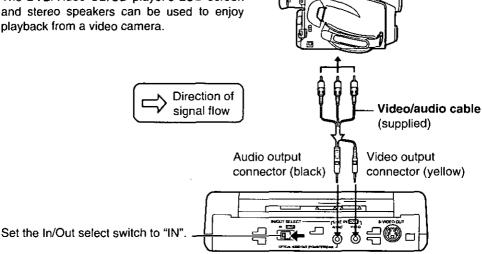
- •Dolby Digital (AC-3) is a digital sound compression technique developed by the Dolby Laboratories Licensing Corporation. Supporting 5.1-channel surround sound, as well as stereo (2-channel) sound, this technique enables a large quantity of sound data to be efficiently recorded on a disc.
- Linear PCM is a signal recording format used in CDs. While CDs are recorded in 44.1
   kHz/16 bit, DVDs are recorded in 48 kHz/16 bit up to 96 kHz/24 bit.
- •If you have a Dolby Pro Logic Surround decoder, you will obtain the full benefit of Pro Logic from the same DVD movies that provide full 5.1-channel Dolby Digital soundtracks, as well as from titles with the Dolby Surround mark.

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Works. © 1992-1997 Dolby Laboratories, Inc. All rights reserved.

<sup>\*2</sup> The type of audio can be selected by the initial setting "Digital Audio Output". (See page 64.)

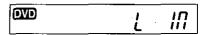
### Playback from a video camera

The DVD/Video CD/CD player's LCD screen and stereo speakers can be used to enjoy playback from a video camera.



#### For your reference:

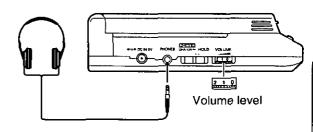
- •The video input/output connector and audio input/output (optical digital audio output) connector cannot be used when the battery pack is attached to the player.
- When the In/Out select switch is set to "IN", the display window shows as follows.



### Connecting headphones (optional)

#### Connect the headphones.

- Headphones with a 1/8" (3.5 mm) stereo plug can be connected.
- Turn down the volume level before connection, and then adjust the level.



#### Caution:

 Avoid listening to the sound at levels which may be harmful to your ears.

#### For your reference:

 When the headphones are connected, no sound will be output from the player's stereo speakers.

### **Troubleshooting**

Before requesting service for this unit, check the chart below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.

If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, consult your dealer for instructions in U.S.A. or refer to the dealer from whom you have made your purchase to locate a convenient service center in Canada. [In U.S.A. consult PASC Authorized Servicenters for detailed instructions or call 1-888-PANA-DVD (1-888-726-2383) for the address of an authorized factory servicenter. In Canada contact our Customer Care Centre at 905-624-5505 or the CCC web site at www.panasonic.ca/fdbckca.htm)

Symptom	Remedy	Reference page
No power.	<ul> <li>Ensure that the player is properly connected to the battery charger/AC adaptor or the battery pack.</li> </ul>	24, 27
	Ensure that the POWER switch of the player is not set to the "HOLD" position.     The power cannot be turned on using the POWER	17 —
	button of the remote control unit when the battery pack is connected.	
The player is automatically set to the standby mode or the power turns itself off.	◆To conserve power or prevent battery consumption, the player is automatically set to the standby mode after approx. 15 minutes have elapsed in the stop mode when the player is powered by the battery charger/AC adaptor or the power turns itself off after approx. 5 minutes have elapsed when the player is powered by the battery pack (Autopower-off function). Turn the power back on.	31
Play fails to start     even when PLAY/     DISPLAY (in case of the remote control,	Condensation has formed: wait about 1 to 2 hours to allow the player to dry out.     This player cannot play discs other than DVDs, Video CDs and CDs.	10 5
PLAY) is pressed.  Play starts but then stops immediately.	The disc may be dirty and may require cleaning.  Ensure that the disc is installed with the label side up.	11 28
No picture.	<ul> <li>Ensure that the player is connected properly.</li> <li>Ensure that the input setting for the TV is "Video".</li> <li>Set the In/Out select switch on the player's rear panel to "OUT".</li> </ul>	69, 70 — 16
No sound from the external speakers of the stereo system or other equipment.	<ul> <li>Ensure that the player is connected properly.</li> <li>Ensure that the input settings for the TV or stereo system are correct.</li> <li>Set the In/Out select switch on the player's rear</li> </ul>	70–72 — 16
	1	16

Symptom	Remedy	Reference page
No key operation (by the main unit and/or the remote control) is effective.	<ul> <li>Some operations may be prohibited by the disc.</li> <li>Ensure that the POWER switch of the player is not set to the "HOLD" position.</li> <li>Turn the power off and then back to ON. Alternatively, turn the power off, disconnect the battery charger/AC adaptor, and then re-connect it. (The player may not be operating properly due to lightning, static electricity or some other external factor.)</li> </ul>	30 17 —
The LCD screen is dark.	Adjust the brightness of the LCD.	12
No image is displayed on the LCD screen when a TV tuner,	<ul> <li>Ensure that the player is connected properly.</li> <li>Ensure that the TV tuner or the video camera is turned on.</li> </ul>	73 —
video camera, or other device is connected to the player.	<ul> <li>Set the In/Out select switch on the player's rear panel to "IN".</li> <li>Ensure that the display mode of the LCD is not set to "OFF".</li> </ul>	16 68
No menu play of Video CD.	<ul> <li>This function works only with Video CDs with play- back control.</li> </ul>	31, 81
Picture is distorted during rapid advance or rapid reverse.	•The picture will be somewhat distorted at times: this is normal.	
No subtitles.	<ul> <li>Subtitles appear only with discs which contain them.</li> <li>Subtitles are cleared from the screen. Turn ON the subtitles.</li> </ul>	<u> </u>
Alternative audio soundtrack (or subtitle) languages fail to be selected.	<ul> <li>An alternative language is not selected with discs which do not contain more than one language.</li> <li>In the case of some discs, the alternative language cannot be selected by switching the audio soundtrack/subtitle language. Try selecting it from the DVD menu if one is available.</li> </ul>	53
Angle cannot be changed.	•This function is dependent on software availability. Even if a disc has a number of angles recorded, these angles may be recorded for specific scenes only (when the angle indicator lights up during play on the display window).	51

# **Troubleshooting**

Symptom	Remedy	Reference page
Play does not start even when title is selected.	●Confirm the "2 Ratings" setting.	58–61
The password for rating level has been forgotten.  • Reset all the settings to Factory preset.	●While the player is in the stop mode, hold the player's Idea SKIP/SEARCH button and the STILL/PAUSE button down simultaneously and then slide the POWER switch toward the "OFF/ON" position for longer than 1 second (until "Initialized" disappears from the screen). The lock will be released and all initial settings will return to the default values.	_
Audio soundtrack and/or subtitle language is not the one selected at the initial settings.	If the audio soundtrack and/or subtitle language does not exist on the DVD, the language selected at the initial settings will not be seen/heard.	56
No 4:3 (16:9) picture.	Choose the correct setup "5 TV Aspect" item which matches the TV set used.	63
No On-Screen Display.	The "Off" setting is selected at "4 On-Screen Messages": select "On".	63
No operations can be performed with the remote control.	•To conserve power or prevent battery consumption, the player is automatically set to the standby mode after approx. 15 minutes have elapsed in the stop mode when the player is powered by the battery charger/AC adaptor or the power turns itself off after approx. 5 minutes have elapsed when the player is powered by the battery pack (Autopower-off function). Turn the power back on.	31
	•Check the batteries are installed with the correct polarities (⊕ and ⊝).	20
	The batteries are depleted: replace them with new ones.  Point the remote control unit at the remote control	20
	sensor and operate.  Operate the remote control unit at a distance of not more than 23 feet (7 meters) from the remote control sensor.	21
	Remove the obstacles between the remote control unit and remote control sensor.	21
	•Ensure that the POWER switch of the player is not set to the "HOLD" position.	17

Symptom	Remedy	Reference page
The menu is not displayed in the preferred language.	●Confirm the setting at the "Menus" of "1 Disc Languages".	56
Shock-proof function (for preventing jumps in the sound during CD play) fails to work.	Shock-proof function does not work when the optical digital audio cable is connected to the audio input/output (optical digital audio output) connector of the player's rear panel.	_
The player becomes hot during playback.	●This is normal.	
On-Screen Menu Icons not displayed or only partially displayed on the TV screen connected to the player.	Select the appropriate TV screen type by consulting the operating manual for the TV.	
If you cannot solve your problem.	◆Call our Panasonic Customer Call Center at 1-888-PANA-DVD (1-888-726-2383) for further assistance in U.S.A. To contact the nearest authorized Panasonic service centre in Canada, contact our Customer Care Centre at 905-624-5505, or the CCC web site at www.panasonic.ca/fdbckca.htm	_

#### Regarding the LCD screen

This player provides a 280,000-pixel high-resolution LCD wide screen. This lets you enjoy sharper images than previous LCD screens. However, a very small number of pixels may be luminous in black or in other colors: this results from a characteristic of the pixel and is not a malfunction.

# Self-diagnosis display function

When an error or trouble is detected during operation, a service number appears in the display window.

When a service number has appeared, check out the details given below.

Service number	Player status	Remedy
ווש	●Disc is dirty.	Wipe the disc clean.  (If the service number fails to be cleared even when the remedial action is taken, ask for the service engineer to repair the player.)
H □□ □□ stands for a number.	●Trouble is likely to have occurred. The number following "H" differs depending on the status of the player.	◆Turn the power OFF and then back to ON. Alternatively, turn the power off, disconnect the battery charger/ AC adaptor, and then re-connect it. (If the service number fails to be cleared even when the remedial action is taken, ask for the service engineer to repair the player.)

# Language code list

Code	Language Name
6565	Afar
6566	Abkhazian
6570	Afrikaans
6577	Ameharic
6582	Arabic
6583	Assamese
6588	Aymara
6590	Azerbaijani
6665	Bashkir
6669	Byelorussian
6671	Bulgarian
6672	Bihari
6678	Bengali; Bangla
6679	Tibetan
6682	Breton
6765	Catalan
6779	Corsican
6783	Czech
6789	Welsh
6865	Danish
6869	German
6890	Bhutani
6976	Greek
6978	English
6979	Esperanto
6983	Spanish
6984	Estonian
6985	Basque
7065	Persian
7073	Finnish
7074	Fiji
7079	Faroese
7082	French
7089	Frisian
7165	Irish
7168	Scots Gaelic
7176	Galician
7178	Guarani
7185	Gujarati
7265	Hausa
7273	Hindi
7282	Croatian
7285	Hungarian

Code	Language Name
7289	Armenian
7365	Interlingua
7378	Indonesian
7383	Icelandic
7384	Italian
7387	Hebrew
7465	Japanese
7473	Yiddish
7487	Javanese
7565	Georgian
7575	Kazakh
7576	Greenlandic
7577	Cambodian
7578	Kannada
7579	Korean
7583	Kashmiri
7585	Kurdish
7589	Kirghiz
7665	Latin
7678	Lingala
7679	Laothian
7684	Lithuanian
7686	Latvian, Lettish
7771	Malagasy
7773	Maori
7775	Macedonian
7776	Malayalam
7778	Mongolian
7779	Moldavian
7782	Marathi
7783	Malay
7784	Maltese
7789	Burmese
7865	Nauru
7869	Nepali
7876	Dutch
7879	Norwegian
7982	Oriya
8065	Panjabi Polish
8076	
8083 8084	Pashto, Pushto
	Portuguese
8185	Quechua

	· · · · · · · · · · · · · · · · · · ·
Code	Language Name
8277	Rhaeto-Romance
8279	Romanian
8285	Russian
8365	Sanskrit
8368	Sindhi
8372	Serbo-Croatian
8373	Singhalese
8375	Slovak
8376	Slovenian
8377	Samoan
8378	Shona
8379	Somali
8381	Albanian
8382	Serbian
8385	Sundanese
8386	Swedish
8387	Swahili
8465	Tamil
8469	Telugu
8471	Tajik
8472	Thai
8473	Tigrinya
8475	Turkmen
8476	Tagalog
8479	Tonga
8482	Turkish
8484	Tatar
8487	Twi
8575	Ukrainian
8582	Urdu
8590	Uzbek
8673	Vietnamese
8679	Volapük
8779	Wolof
8872	Xhosa
8979	Yoruba
9072	Chinese
9085	Zulu

### **Definition of terms**

#### Interactive DVD

An interactive DVD is DVD software which includes multiple angles, multiple plot endings, etc.

# Digital audio output connector (Optical)

The digital audio output connector (optical) converts electrical signals into optical signals and transfers them to the amplifier. Consequently, it has a number of features including its immunity from electrical interference from external sources and its ability to prevent the generation of noise and its minimal effect on the external environment.

#### **Dolby Digital (AC-3)**

Dolby Digital (AC-3) is a digital sound compression technique developed by the Dolby Laboratories Licensing Corporation.

Supporting 5.1-channel surround sound, as well as stereo (2-channel) sound, this technique enables a large quantity of sound data to be efficiently recorded on a disc.

#### **Dolby Pro Logic Surround decoder**

This is a unit which uses the Dolby Surround (Pro Logic) system to restore 4-channel signals which were recorded on 2 channels back to the signals of 4 separate channels during playback. Compared with Dolby Digital (AC-3)/5.1 channel surround sound, the channel separation is not as good and surround signals can be reproduced only up to a frequency of 7 kHz.

#### Letterbox screen

This refers to a screen on which the playback picture of wide-screen DVDs or Video CDs appears with black bands running along the top and bottom.

#### Linear PCM audio (LPCM)

This refers to a signal recording format used in CDs.

While CDs are recorded in 44.1 kHz/16 bit, DVDs are recorded in 48 kHz/16 bit up to 96 kHz/24 bit, thus achieving higher quality audio than that of CDs.

# MPEG (Moving Picture Experts Group)

MPEG is an international standard format for the compression of motion video as defined by the Moving Picture Experts Group, a working committee which funcunder the auspices tions International Standardization Organization International Electrotechnical and Commission. The Group established the MPEG 1 standard in 1991 and the MPEG 2 standard in 1994. MPEG 2 builds on MPEG 1 with many improvements, and it yields a higher picture quality level.

#### Pan & Scan screen

This refers to a screen on which the playback picture of wide-screen DVDs or Video CDs is cut off at the left and right sides.

#### Playback control (Video CD)

If the Video CD has "With Playback Control" or others written on the disc surface or on the jacket, the scenes or information to be viewed (or listened to) can be selected interactively with the screen by looking at the menu shown on the screen.

In these instructions, playback using the menu screen is referred to as the "menu play" for video CDs. This player supports Video CDs with playback control.

#### S-video output connector

This connector separates the color (C) and luminance (Y) signals before transmitting them to the TV set in order to achieve a sharper picture.

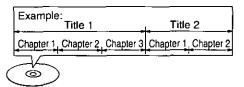
It is recommended to use the S-video cable (optional) when connecting the player to a TV set equipped with an S-video input connector.

#### \$1-video input connector

When signals are supplied to this connector, pictures with a different picture aspect ratio (picture frame width to frame height) are identified, and the wide-screen TV picture quality mode is selected automatically.

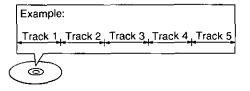
#### Title, Chapter (DVD)

DVDs are divided into some large sections (titles) or some small sections (chapters). Each section is numbered; these numbers are called "Title number" or "Chapter number".



#### Track (Video CD/CD)

Video CDs or CDs are divided into some sections (tracks). Each section is numbered; these numbers are called "Track number".



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### **Specifications**

Power source: DC 9 V

Power consumption: 21 W (with battery charger/AC adaptor)

13 W (Main unit only)

[2.4 W when power is off by the power switch or the remote control

(when the battery charger/AC adaptor is connected)]

Battery charger/AC adaptor

Power source: AC 120 V, 60 Hz

Power consumption: 32 W

DC output: 9 V, 2 A (Charge)

9 V, 1.45 A (Play)

Signal system: NTSC Weight: 2 lbs. (910 g)

**Dimensions:**  $6\%6'' \text{ (W)} \times 6\%6'' \text{ (D)} \times 1\%4'' \text{ (H)} [160 \text{ (W)} \times 160 \text{ (D)} \times 43 \text{ (H) mm}]$ 

(when the LCD screen is closed, excluding protrusions)

Operating temperature range: +41 to +95°F (+5 to +35°C)
Operating humidity range: 5 to 90% (no condensation)

Discs played: (1) DVD-VIDEO disc

5" (12 cm) single-sided, single-layer 5" (12 cm) single-sided, double-layer

5" (12 cm) double-sided, double-layer (one layer per side)

3" (8 cm) single-sided, single-layer 3" (8 cm) single-sided, double-layer

3" (8 cm) double-sided, double-layer (one layer per side)

(2) Compact disc (CD-DA, VIDEO CD)

5" (12 cm) disc 3" (8 cm) disc

LCD screen:5.8"  $\alpha$ -Si, TFT wide-screen LCDS-video output:Y output level:1 Vp-p (75 $\Omega$ )

C output level: 0.286 Vp-p (75Ω) (NTSC)

Output connector: S terminal (1 system)

Video output/input: Output/input level: 1 Vp-p (75Ω)

Output/input connector: Mini-jack (1 system, Output/Input

selectable)

Audio output/input: Output/input level: 1.5 Vrms (1 kHz, 0 dB)

Output/input connector: Stereo mini-jack (1 system, Output/Input

selectable)

Audio signal

output characteristics: (1) Frequency response:

●DVD (linear audio): 2 Hz-22 kHz (48 kHz sampling)

2 Hz-44 kHz (96 kHz sampling)

●CD audio: 2 Hz-20 kHz (EIAJ)

(2) S/N ratio:

◆CD audio: 115 dB (EIAJ)

(3) Dynamic range:

●DVD (linear audio): 99 dB

●CD audio: 97 dB (EIAJ)

Digital audio output: Optical digital output: Mini optical connector (Also used for audio output)

Pickup: Wave length: 660 nm/780 nm Laser power: CLASS II/CLASS I

Specifications are subject to change without notice. Weight and dimensions are approximate.

For Your Reference

#### Product service

Do not attempt to remove the cover(s) or repair the unit yourself. Refer servicing to qualified personnel only. The servicer will require all components to service your system. Therefore, should service ever be necessary, be sure to bring the entire system.

#### Product information

**U.S.A.**: For product service, product information or assistance with product operation, refer to the service center directory. **Canada:** Call the dealer from whom you have made your purchase, contact our Customer Care Centre at 905-624-5505, or access the CCC web site at www.panasonic.ca/fdbckca.htm

#### If you ship the product

Carefully pack and send it prepaid, adequately insured and preferably in the original carton. Attach a postage-affixed letter, detailing the complaint, to the outside of the carton. DO NOT send the product to the Executive or Regional Sales offices. They are NOT equipped to make repairs.

Apparatus Claims of U.S. Patent Nos. 4,631,603, 4,577,216, and 4,819,098, licensed for limited viewing uses only.

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 uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

#### **Region Management Information**

Region Management Information: This Portable DVD/VIDEO CD/CD player is designed and manufactured to respond to the Region Management Information that is recorded on a DVD disc. If the Region number described on the DVD disc does not correspond to the Region number of this Portable DVD/VIDEO CD/CD player, this Portable DVD/VIDEO CD/CD player cannot play this disc.

The Region number for this Portable DVD/VIDEO CD/CD player is 1.

Panasonic Services Company, Division of Matsushita Electric Corporation of America One Panasonic Way Secaucus, New Jersey 07094

Panasonic Sales Company,

Division of Matsushita Electric of Puerto Rico, Inc. ("PSC")

Ave. 65 de Infantería, Km 9.5 San Gabriel Industrial Park, Carolina, Puerto Rico 00985

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