ⓓ DURABRAND
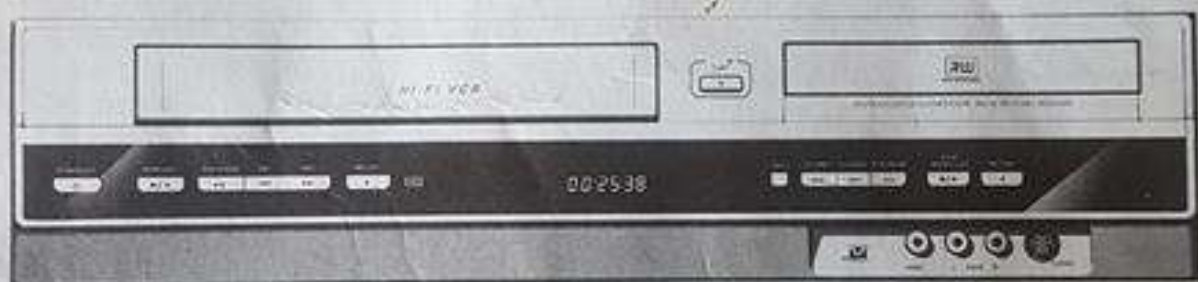
Model: DBDVR01

"Please read these instructions carefully and keep them for future reference."

User's Manual

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GE

WA

LA

GETTING STARTED

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET, REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

LASER: This Digital Video Disc Player uses a Laser System.
To ensure proper use of this product, please read this owner's manual carefully and retain for future reference.

Use of controls, adjustments or the performance of procedures other than those specified may result in hazardous radiation exposure.

To prevent direct exposure to laser beam, do not try to open the enclosure.
Visible and invisible laser radiation emissions when open and interlocks defeated.
DO NOT STARE INTO BEAM

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

CAUTION:
Use of controls or adjustments or performance of procedures other than those specified may result in hazardous radiation exposure.

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

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 lighting flash with arrowhead symbol, within an equilateral triangle, is intended to alert 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.

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

CAUTION

INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK FAILED OR DEFEATED.
AVOID DIRECT EXPOSURE TO LASER BEAM.

IMPORTANT SAFETY INSTRUCTIONS ⚠

CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS GIVEN IN THIS OWNER'S MANUAL AND THOSE MARKED ON THE UNIT, KEEP THESE INSTRUCTIONS. RETAIN THIS BOOKLET FOR FUTURE REFERENCE.

This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use and servicing. This unit does not contain any parts that can be repaired by the user.

DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.

1. Read these instructions.
   After unpacking this product, read the owner's manual carefully.

2. Keep these instructions.
   Retain this booklet for future reference.

3. Follow all the operating and other instructions.

4. Do not use this apparatus near water.

5. Clean only with a damp cloth.

6. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.

7. Do not install near any heat sources such as radiator, stoves, or other apparatus (including amplifiers) that produce heat.

8. Protect the power cord from being walked on or pinched, particularly at plugs and the point where they exit from the apparatus.

9. Unplug this apparatus during lightning storms or when unused for long periods of time.

10. Disc Tray
    Keep your fingers well clear of the disc tray as it is closing, it may cause personal injury.

11. Do not place a heavy object on, or step on the product.

12. Disc
    Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause personal injury and product malfunction.

13. Damage Requiring Service
    Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    a) When the power-supply cord or plug is damaged.
    b) If liquid has been spilled, or objects have fallen into the product.
    c) If the product has been exposed to rain or water.
    d) If the product does not operate normally by following the operating instructions, adjust only those controls that are covered by the operating instructions. An improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
    e) If the product has been dropped or damaged in any way.
    f) When the product exhibits a distinct change in performance this indicates a need for service.

14. Servicing
    Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Electrical Information
Make sure that the voltage of your electricity supply is the same as that indicated on the rating plate. This appliance may be fitted with a non-rewireable plug. If you need to change the fuse in a non-rewireable plug, the fuse cover must be refitted. If the fuse cover is lost or damaged, the plug must not be used until a replacement is obtained. It is important that the colour of the replacement fuse cover corresponds with the colour marking on the base of the plug.
If the plug has to be changed because it is not suitable for your socket, or becomes damaged, it should be cut off and an appropriate plug fitted following the wiring instructions below. The plug removed must be disposed of safely as insertion into a mains socket is likely to cause an electrical hazard.
If a 13 Amp (BS1363) plug is used, a 3 Amp fuse (BS1362) must be fitted.

Important
As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
- The blue wire must be connected to the terminal marked with the letter N or coloured black.
- The blown wire must be connected to the terminal marked with the letter L or coloured red.
- No connection is to be made to the earth terminal of the plug.

BLUE (Neutral)   FUSE   BROWN (Live)

⚡ **CAUTION** RISK OF ELECTRIC SHOCK

▫ This symbol means that this unit is double insulated. An earth connection is not required.

PRECAUTIONS

NOTES ON DEW AND MOISTURE CONDENSATION:

Dew and Moisture condensation damages the DVD/VCR recorder. Please read the following carefully.
Dew and Moisture condensation occurs, it is brought directly from a cold to a warm location. For example, when you pour a cold drink into a glass on a warm day. Drops of water form on the outside of the glass. Or since the DVD/VCR recorder located on a facing direct cool wind from Air-Conditioner. Moisture may condense on the optical pick-up lens, and dew may condense on the head drum inside this unit, one of the most crucial internal parts of the DVD recorder.

To avoid of this, when necessary remove the recorder from a cold to a warm location. Empty all the tape & disc from the unit at the cool location and power off, then bring to your desired warm location. Power on the unit, but do not start to play any tape or disc, and wait for about 30 to 60 minutes before operating the unit.

NOTES ON HANDLING:

- When shipping the DVD/VCR recorder, eject all the disc and tape, and always use the original shipping carton and packing materials. For maximum protection, repack the unit as it was originally packed at the factory.
- Do not use volatile liquids, such as insect spray, near the DVD/VCR recorder.
- Do not leave rubber or plastic products in contact with the DVD/VCR recorder for a long time. They will cause deterioration or paint peel-off.
- The top and rear panels of the DVD/VCR recorder may become warm after a long period of use. This is normal and not a malfunction.
- When the DVD/VCR recorder is not in use, be sure to remove the disc or tape, and disconnect the AC plug from the wall outlet.
- If you do not use the DVD recorder for a long period, the unit may not function properly in the future. Turn on and use the DVD recorder occasionally.

TAPE AND DISC HANDLING

- Do not use any tape and disc below. Damage of video head or out/coiling of tape may cause failure.
  - Tape with mold.
  - Tape or disc stained with juice or attachments
  - Tape having breakage connection
  - Disassembled tape
  - Disc with severe scratch
- Moisture condensation may occur in tape. Moisture condensation damages the tape. Please use the tape after the moisture condensation is disappeared.
- After use, store tape vertically in a case to prevent loose.
- Do not store the following places.
  - High temperature and humidity
  - Subject generation of mold
  - Much dirt or dust
  - Near strong magnetic materials such as speaker

NOTES ON LOCATING THE DVD RECORDER:

- When you place this recorder near strong magnetic materials, it may affect image or voice poorly or damage recording.

NOTES ON CLEANING:

- Use a soft, dry cloth for cleaning.
- For stubborn dirt, soak the cloth in a weak detergent solution, wring well and wipe. Use a dry cloth to wipe it dry. Do not use any type of solvent, such as thinner and benzene, as they may damage the surface of the DVD recorder.
- If you use a chemical-saturated cloth to clean the unit, follow that product's instructions.

Warning: Cleaning and adjustment of lenses and/or other components of playback mechanism should be performed by a qualified service technician.

TO OBTAIN A CLEAR PICTURE

The DVD recorder is a high technology, precision device. If the optical pick-up lens and disc drive parts are dirty or worn down, the picture quality becomes poor. To obtain a clear picture, we recommend regular inspection and maintenance (cleaning or parts replacement) every 1,000 hours of use depending on the operating environment. For details, contact your nearest dealer.

PREVENT ACCIDENTAL TAPE ERASURE

- Break off the tab to prevent recording.
- To record again, Cover the hole with cellophane tape.
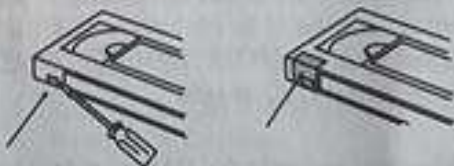
This symbol on the product or in the instructions means that your electrical and electronic equipment should be disposed at the end of life separately from your household waste. There are separate collection systems for recycling in the EU.

For more information, please contact the local authority or your retailer where you purchased the product.

Region Management Information

Region management information: This DVD/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 DVD/CD player, this DVD/CD player cannot play this disc.

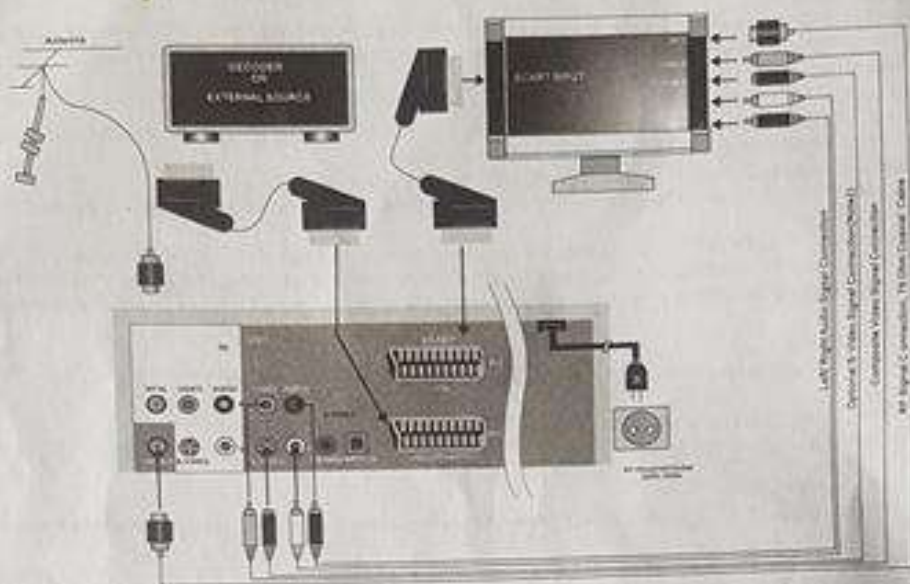**The Region number for this DVD player is**

1. Antenna & TV Connection

Attention: For safety reason, unplugged the AC power or power off all units involved before making any connection.
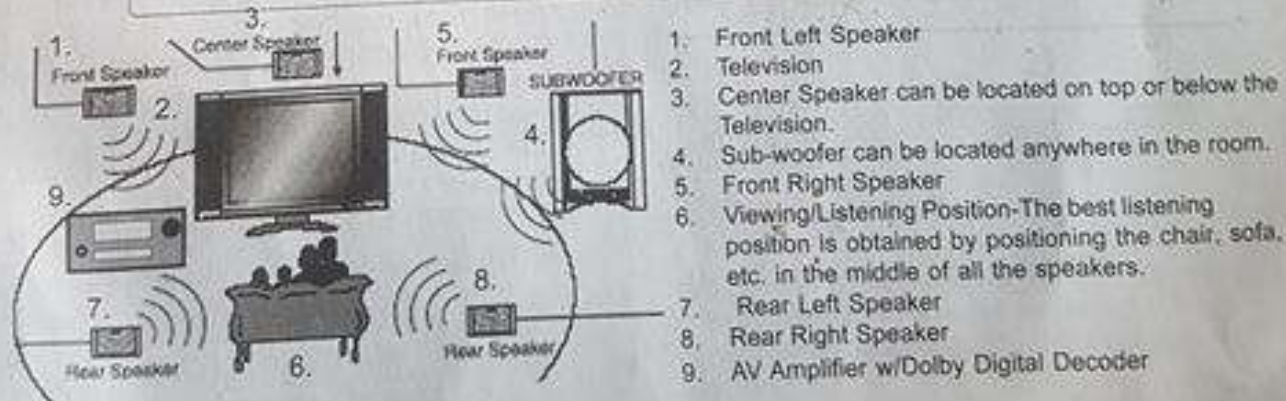

Basic Connections (shown in solid line):

1. Connect a 75 Ohm coaxial cable from Antenna to RF IN terminal at the back of the unit and connect anoother 75 Ohm coaxial from the RF OUT terminal to the RF IN terminal of TV set.
2. Connect the pair of Audio cable (Red & White) from the Audio OUT (L&R) of the unit to the Audio IN (L&R) of the TV set. Always match the color of connection jacks to those of terminals.
3. Connect the Video cable (Yellow) from the Video OUT terminal of the unit to TV set's Video IN which corresponds to the connected Audio input
4. Optionally connect the S-Video Cable (not included) from the S-Video OUT terminal of the unit to the TV set's S-Video IN which corresponds to the connected Audio input. The S-VIDEO signal provides a more accurate and better picture quality than the VIDEO OUT signal
5. Connect the SCART cable form the SCART-AV1(TV) socket of the unit to the TV's SCART input terminal.This unit uses the CVBS signal and the RGB signal in the scart cable.The RGB signals achieves the best picture quality among S-Video and Video signals.
6. If an external decoder is available,connects it to the unit's SCART-AV2(DECODER/EXT) terminal.Otherwise SCART-AV2(DECODER/EXT) terminal can be connected to other source device like external DVD player.

Note:

1. When connection is made to TV set, refer to its supplied owner's manual for location of appropriate terminals.
2. If you TV set have only one audio channel (mono) input, the use of an extra "Y" connector may be necessary. Visit your local electronics supply store.
3. Connect the DVD recorder to your TV directly. If you connect the DVD recorder through a VCR, the playback picture will be distorted because DVD video discs are copy protected.
4. If recorder is connected to both Video & scart terminal of TV set, make sure the correct input source selection is made on TV set.
5. When TV/Recorder key selected RECORDER mode is for select the recorder signal output to TV with SCART cable. When user selected TV mode the output signal will switched to the signal of the device (such as decoder box) connected to SCART AV2 (DECODER / EXT). This key is toggle operation.
   When the recorder is recording the SCART AV2. The decoder can not be change the channel before the recording completes or stop record by user.

2.Home Theater Connection

1. Front Left Speaker
2. Television
3. Center Speaker can be located on top or below the Television.
4. Sub-woofer can be located anywhere in the room.
5. Front Right Speaker
6. Viewing/Listening Position-The best listening position is obtained by positioning the chair, sofa, etc. in the middle of all the speakers.
7. Rear Left Speaker
8. Rear Right Speaker
9. AV Amplifier w/Dolby Digital Decoder

NOTE:
- The rear speakers can also be located on the side wall facing the viewing position and each other. Make sure the viewing position is located between the 2 speakers in this case. Experiment to find optimal position.
- Place the subwoofer, front, rear and center speakers in locations as shown / described here. After correctly positioning the speakers, perform the Tone Test on the AV Amplifier and adjust the volume controls until the desired sound is achieved. For best results, sit in the viewing position and have someone adjust the volumes for you; this will enable you to set the optimal levels.

3. External AV Connection

This recorder accepts external source input from both the back panel and front panel for displaying or recording the external signal.

System Connects to the back panel

For deck sized external system such as DVD player or VCR, they are usually not made mobile and settled at a fixed location for long period of operating time. The signal outputting from these kind of system are more suitable connected to the back panel of this recorder unit.
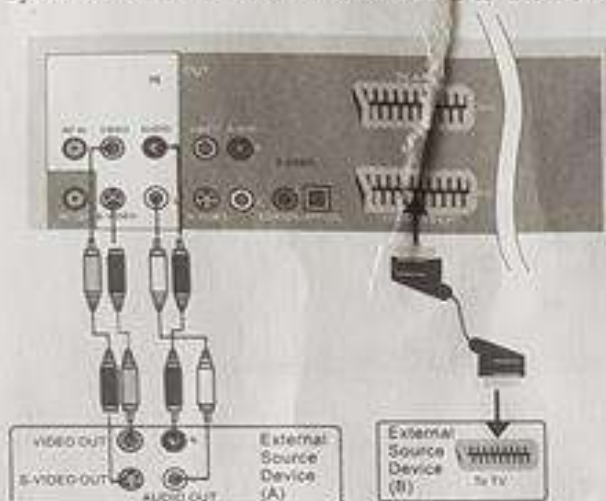
1. Unplug the power cords of the involved units from the AC Outlet.
2. Connect the Audio cable, Video cable and optional S-Video cable from the External source system to the corresponding input terminals at the back of the recorder.
3. If the external device provides scart interface, it can be connected to this recorder's SCART AV2 (DECODER/EXT) terminal with a scart cable.

Note

If there are more than one external scart deviced that needs to be connected to this recorder, please refer to user mauals of these external device for proper chaining of them to the SCART AV2(DECODR/EXT) socket.

System Connects to the front panel

For systems like Video Camera, Portable DVD player or Digital Video Camera, they have higher mobility and hence they are more convenient to be connected to the recorder through the front panel AV / DV input terminals.
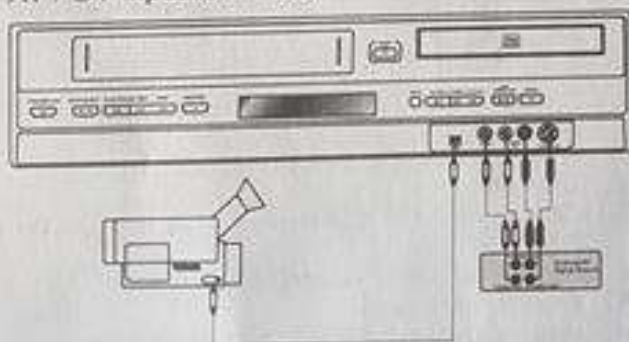
1. Power Off or unplug the power cords of the involved units from the AC Outlet.
2. For DV, connect only the DV cable from the DV unit to the recorder unit.
3. For system other than DV, connect the Audio cable, Video cable and optional S-Video cable from the external source system to the corresponding input terminals at the back of the recorder.

Note:

Refer to the manual of the connected system. Some system may allow user to select only one output among the Video output and S-Video output for connecting to the recorder. In that case, S-Video output is always preferable to Video output since the S-Video picture quality higher than that of Video output.

DV will transmit both video and audio signal from the DV unit to the recorder unit through a single DV connection. It is not necessary to have extra audio connection for DV unit.

4. Setting up Clock and Matching TV

When the recorder is switched on the first time, there will be several wizard pages displayed one by one to guide the user to input basic settings for the record unit.

Initial Setup Wizard	1/7
Before using your recorder	
please complete this setup	
Next	
Enter	OK

Start of the Setup Wizard

This the first page displayed to inform the user of the start of setup wizard.

Press "**ENTER**" key to proceed to next step.

Clock setting	2/7
8 / 12 / 2006 11 : 6 AM	
Back	
Choose	Enter OK

Setting the Clock

Use cursor keys and number keys to input "Date" and "Time".

Press "**ENTER**" to confirm and proceed to next setting.

Select **Back** and press "**ENTER**" will take user back to previous selection page.

OSD Lang	3/7
English	
Français	
Español	
Back	
Choose	Enter OK
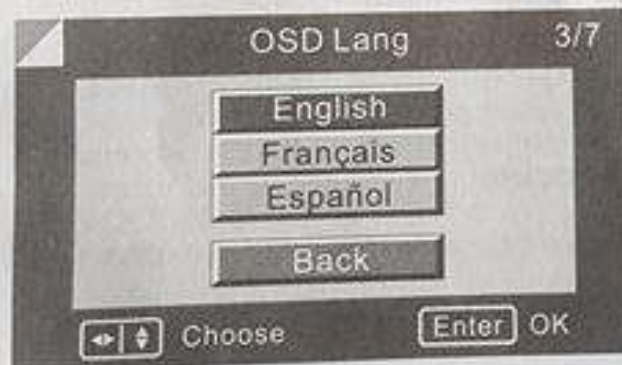
Selecting the OSD Language

Use cursor keys to select the desired On Screen Display Language .

Press "**ENTER**" to confirm and proceed to next setting.

Country Setting	4/7
Italy	
Spain	
UK	
Back	
Choose	Enter OK

Selecting Country

Use cursor keys to select the country where the unit operates .It is set for default TV broadcasting system used in TV Channel scanning .

press "**ENTER**" to confirm and proceed to next setting

Auto Scan 5/7
Cable
0%
Channels Found 0
Back
Cancel
◄|♦ Choose   Enter OK
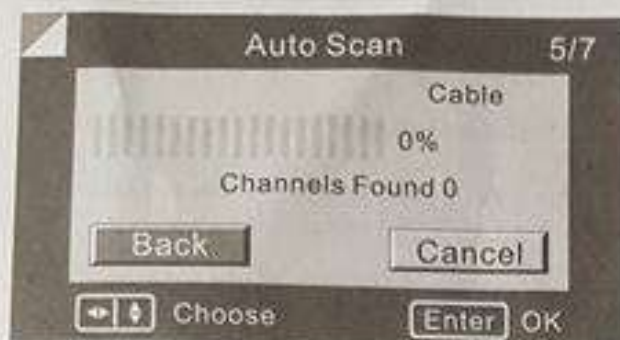
Performing Auto TV Channel Scan

Displaying the scanning progress, the unit automatically starts the TV channel scanning across the select RF band spectrum.

Make sure the RF IN terminal is connected to antenna .Otherwise,the scanning speed will be very slow.
Recognized channel will be stored automatically, inside the unit for later TV operations.
If user wants to skip the unfinished scanning ,select **CANCEL** and press "**ENTER**" to proceed directly to next step of installation.

CH List 6/7
PR   NAME   Skip
01   --------   Off
OK   Cancel   Back
◄|♦ Choose
|| Skip   Enter OK

Channel Listing

List the channel name . The channel order, the channel name or the channel skip control can be customized according to the next instructions shown on the screen.

After finish the listing modification, select OK to proceed to next setting.

Select **BACK** and press "**ENTER**" will take user back to previous selection page

Complete 7/7

Setup has been completed
Enjoy using your recorder

Back
Finish
Enter OK

Complete

The last page is the Complete confirmation page.

Select Finish and press "**ENTER**" to end the Wizard and to proceed to normal unit operation.

Select **BACK** and press "**ENTER**" will take user back to previous selection pgae.

CONTROL REFERENCE

Front Panel

1. Cassette Compartment (VCR deck)
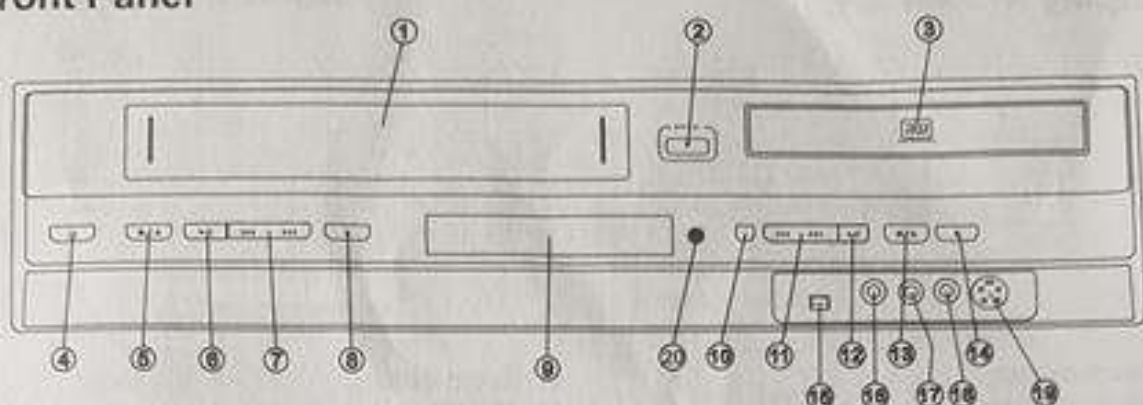   Insert a video cassette here.
2. Copy
   Simple switch for dubbing VCR & DVD disc.
3. Disc Tray (DVD deck)
   Insert disc here.
4. Standby On / Off
   Turns the DVD Recorder + VCR on and off.
5. VCR Stop / Eject
   Stop VCR playback / Eject the tape in the VCR deck.
6. VCR PLAY / PAUSE
   Starts playback of a tape. Pauses playback or recording temporarily.
7. VCR REV & VCR FWD
   Rewinds the tape during Stop mode. Press during Play mode for fast reverse picture search.
   Advances the tape during Stop mode .Press during Play mode for fast reverse picture search
8. VCR Record
   Starts VCR recording.

9. Front Panel Display(VFD)
10. Input
    For select the input record source
11. CH- / SKP- & CH+ / SKP+
    Channel up for channel selection / Skip forward when playing DVD disc.
12. PLAY / PAUSE
    Starts playback of a DVD disc. Pauses playback or recording temporarily.
13. DVD STOP/OPEN/CLOSE
    Stops DVD recording/ Opens or closes the disc tray.
14. DVD Record
    Starts DVD recording. Press repeatedly to set the recording time.
15. DV input
16. Front Video Input
17. Audio Left Input (for Front Video / S-Video)
18. Audio Right Input (for Front Video / S-Video)
19. Front S-Video Input
20. Remote Sensor.

CONTROL REFERENCE

Display (VFD may vary)
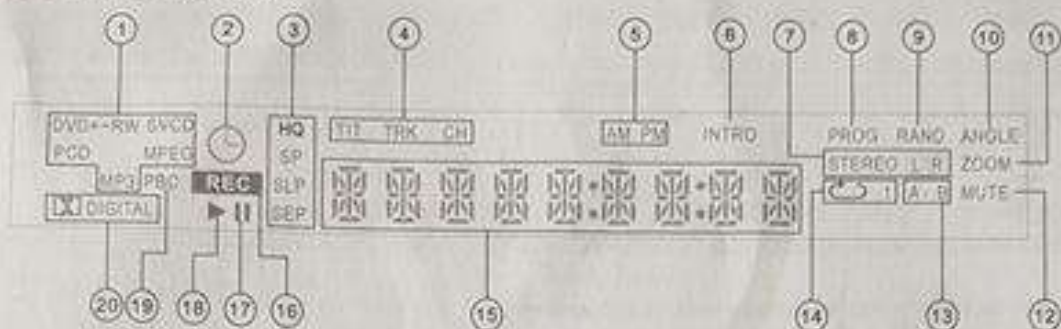
1. Disc Indicator
2. Timer indicator
3. Recording Quality Indicator
4. Title / Track / Chapter Indicator
5. AM / PM Time indicator
6. Intro / Digest Mode Indicator
7. Audio Stereo / Left / Right Channel Indicator
8. Program Mode indicator
9. Random Play Indicator
10. Multi-Angle Indicator

11. Zoom Indicator
12. Mute Indicator
13. Repeat A-B indicator
14. Repeat 1 / Repeat Mode Indicator
15. Playing Information / Time / Counter or Message Display
16. Recording Activation Indicator
17. Playback Pause Indicator
18. Disc Play Indicator
19. VCD Play Back Control Indicator
20. Dolby Digital Content Coding Indicator

Back Panel
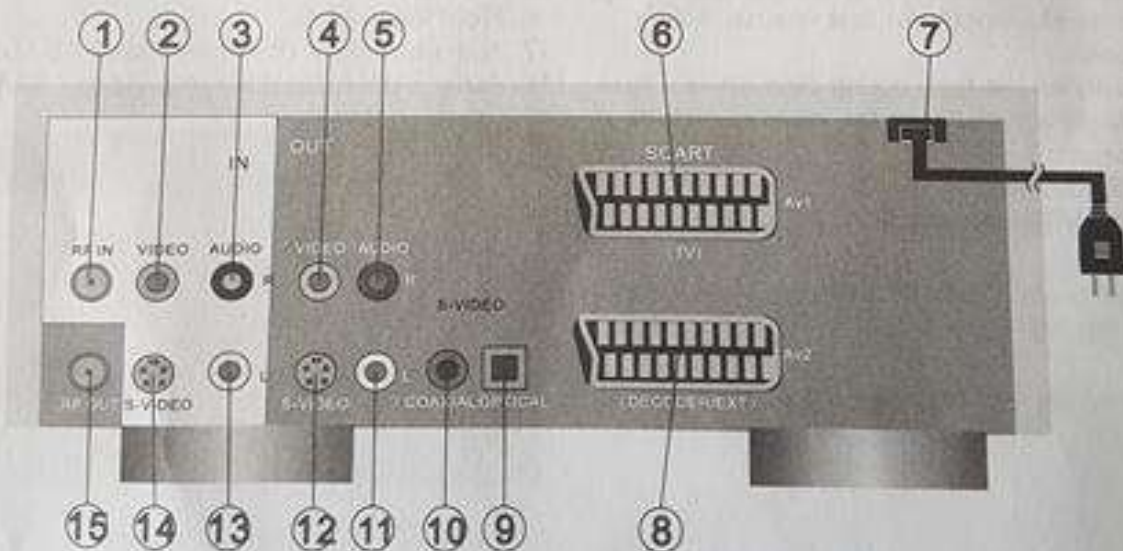
1 RF In Jack
2 Rear Video In
3 Right Audio In (Rear Video / S-Video)
4 Video Out
5 Right Audio Out
6 SCART Socket(TV)
7 AC Power Cord
8 SCART Socket (Decoder /External Source Device)

9 Optical Digital Audio Output
10 Coaxial Digital Audio Out
11 Left Audio Out
12 S-Video Out
13 Left Audio In (Rear Video &S-Video)
14 S-Video In
15 RF Out Jack

CONTROL REFERENCE

Remote Control Unit
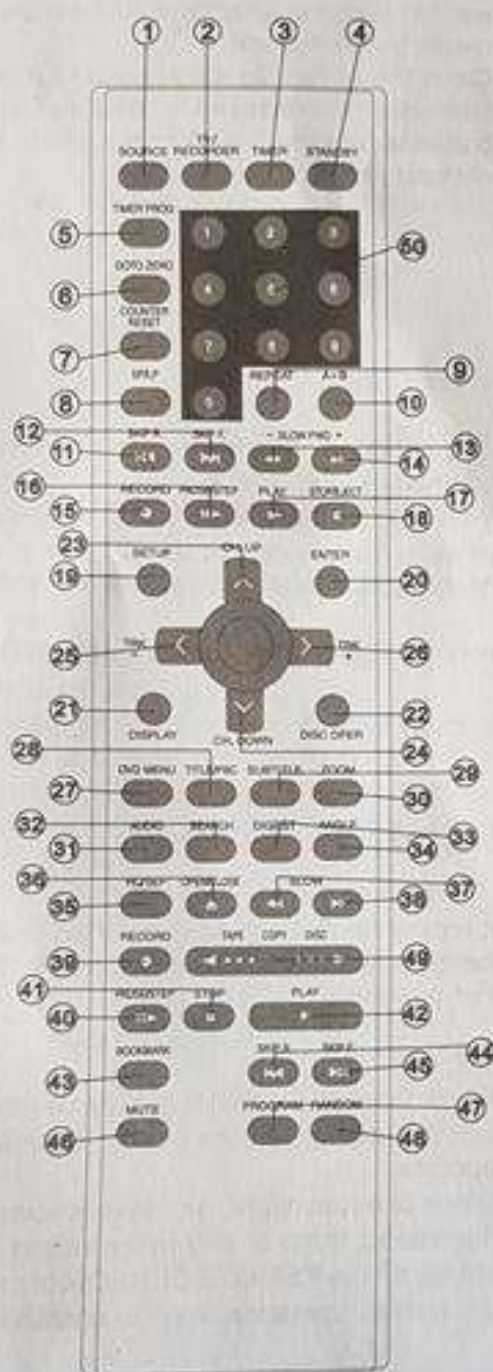
1 SOURCE
2 TV/RECORDER
3 TIMER
4 STANDBY ON/OFF
5 TIMER PROG
6 GOTO ZERO (VCR)
7 COUNTER RESET (VCR)
8 SP/LP (VCR)
9 REPEAT
10 A-B
11 SKIP R. (VCR)
12 SKIP F. (VCR)
13 ◄◄ Rewind (VCR)
14 ►► Fast Forward (VCR)
15 RECORD (VCR)
16 PAUSE/STEP (VCR)
17 PLAY (VCR)
18 STOP/EJECT (VCR)
19 SETUP
20 ENTER
21 DISPLAY
22 DISC OPER.
23 CH. UP (CURSOR UP)
24 CH. DOWN (CURSOR DOWN)
25 TRK – (CURSOR LEFT)
26 TRK + (CURSOR RIGHT)
27 DVD MENU
28 TITLE/PBC
29 SUBTITLE
30 ZOOM
31 AUDIO
32 SEARCH
33 DIGEST
34 ANGLE
35 HQ/SEP
36 OPEN/CLOSE
37 ◄ Slow/ ◄◄ Fast Backward
38 Slow ►/ ►► Fast Forward
39 RECORD
40 PAUSE/STEP
41 STOP
42 PLAY
43 BOOKMARK
44 SKIP R.
45 SKIP F.
46 MUTE
47 PROGRAM
48 RANDOM
49 TAPE—COPY—DISC
50 NUMBER 0-9

Battery installation
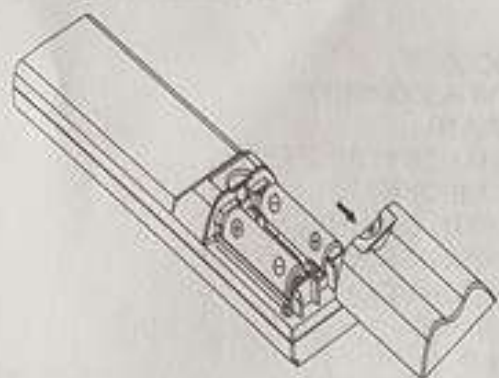
1. Remove the battery cover.
2. Insert two batteries (AA, R6, UM-3 type) making sure the polarity (+ / −) matches the marks inside the unit.
3. Close the cover. Do not attempt to recharge, short-circuit, disassemble, heat or throw the batteries into the fire. Do not operate with old and new batteries mixing.

Battery Precautions
Follow these precautions when using batteries in this device:
1. Use only the size and type of batteries specified.
2. Be sure to follow the correct polarity when installing the batteries as indicated next to the battery compartment. Reversed batteries may cause damage to the device.
3. Do not mix different types of batteries together (e.g. Alkaline, Rechargeable and Carbon-zinc) or old batteries with fresh ones.
4. If the device is not to be used for a long period of time, remove the batteries to prevent damage or injury from possible battery leakage.
5. Do not try to recharge batteries not intended to be recharged; they can overheat and rupture. (Follow battery manufacturer's directions.)

Effective Distance of the Remote Control
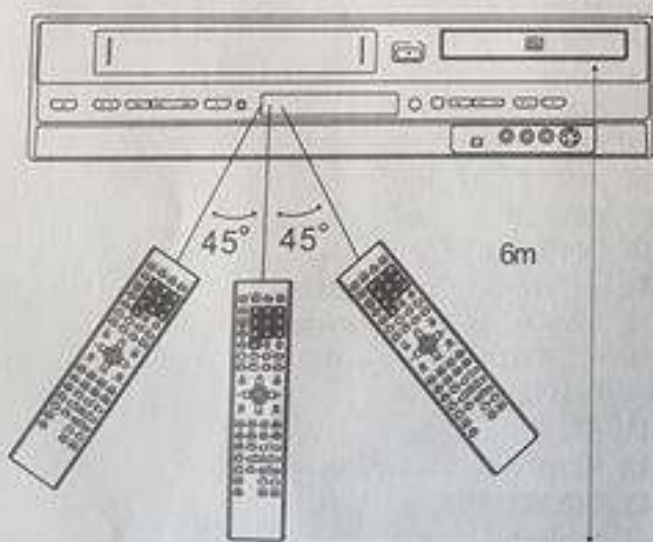
Point remote control unit no more than 6m from the remote sensor and within about 45° of the front of the unit.

NOTES:
- When there is an obstacle between the DVD and the transmitter, the transmitter may not operate.
- When direct sunlight, an incandescent lamp, fluorescent lamp or any other strong light shines on the REMOTE SENSOR of the DVD, the remote operation may be unstable.

DVD Recorder Setup Menu

The DVD Recorder's **Main Setup Menu** is where various settings are configured, include the setup of **Recording**, **Audio / Video**, **Disc Operation**, **General Setup** and **TV Setup**.

▸ Press **SETUP** key to enter the **Main Setup Menu**.
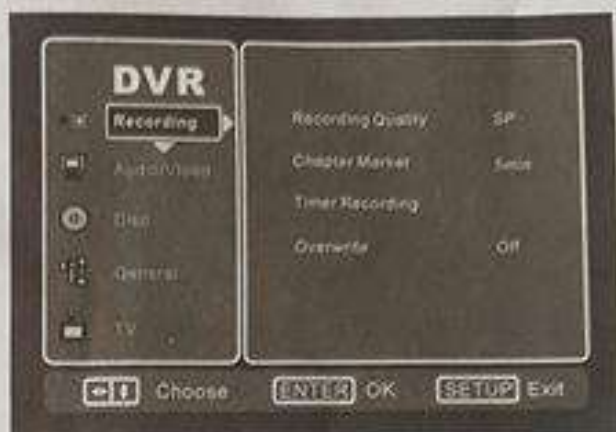
Timer Program Menu

You can use the Timer function to schedule recordings to start and end at specific times. Timer Recordings are designed for unattended operation, and will only work when the recorder is in timer Standby mode.

▸ Press **TIMER PROG** key to direct go into the Timer Programming table
▸ Or press **SETUP** key then choose Recording by ▲ , ▼ then press ▸ key to enter Recording setup page and choose the Timer Recording, press **ENTER** key go into Timer program table.
• You must set the timer schedule before using it .
• Refer to Page51 for timer setting in detail.
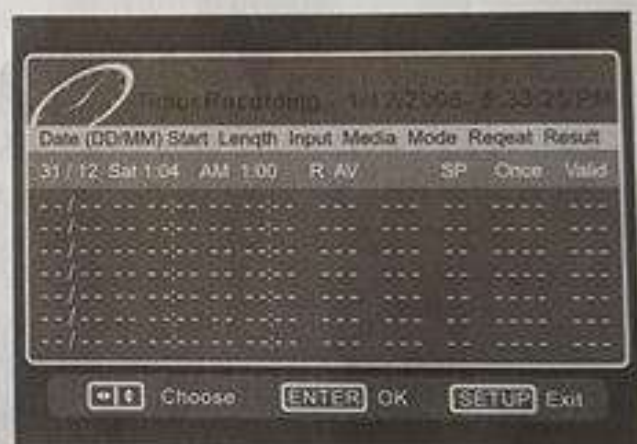
Disc Operation Menu

Your DVD Recorder's capabilities go far beyond simply recording in Live and Timer modes. A vast array of editing options is also available, allowing you to tailor your recordings to your own personal requirements.

You can change the disc settings for a DVD+RW/+R from the Disc Operation Menu

Press **DISC OPER** key to enter the **Disc Operation Menu**.

- Disc Info : For user check the Disc information.
- Format : For user Format the rewritable disc.
- Finalize : For close the DVD(R) Disc. For make the DVD(R) playable on the standard DVD players.
- Protect tiltes : For protecting entitle title not easy to erase or format.
- Make Comp : Make DVD+RW Disc Compatible use with standard DVD players.
- Adapt : This function is for change the disc title format to the same as this unit and that the DVD(RW) is recorded from any other brand DVD recorder.

Remarks:-
- Make Disc Compatible use with DVD+RW discs only, this function makes your edits - such as hidden chapters - compatible with standard DVD players. Use this option before distributing any recordings that you have edited to clients or friends.
- Before a DVD+RW disc is made compatible, all edits will only be visible when the disc is used in the DVD Recorder.

Disc Edit Menu

Also you can edit your recording on DVD+RW/+R disc from Disc Edit Menu.

▸ Insert a recorded DVD+RW/+R disc and
   press **PLAY** to enter the menu.
▸ Move the cursor to select the editing disc
   function by ▲ , ▾ key.
• Refer Page52 for disc edit in detail.

Initialization Setup Menu

This Initialization Setup Menu allows you to adjust the recorder to suit your preference.

• Press **SETUP** key to enter the **Main Setup Menu.**
• Move the cursor to Init Setup by ◂ , ▸ keys and press **ENTER** key to enter Initialization Setup
   Menu.

In the **Initialization Setup** menu, there are 5 pages of setting as following:

**Recording Setup
Page**

**Audio / Video
Setup Page**

**Disc Setup
Page**

General Setup Page

TV Setup Page

Recording Setup Page

This page allows you to set the recording parameter.

▸ Press **SETUP** key to enter the **Main Setup Menu**.

▸ Move the cursor to **Recording** by ▲, ▾ keys and press ▸ key to enter **Recording Setup Menu**
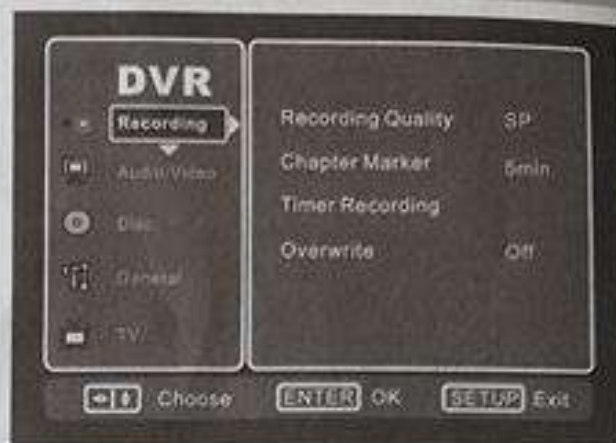
Recording Setup Page – Recording Quality

· Recording Mode: sets the quality mode for recording.

▸ **HQ** (High Quality): video quality is the highest, and has approximate 1 hour recording time.

▸ **SP** (Standard Play): video quality is excellent, and has approximate 2 Hours recording times.

▸ **LP** (Long Play): video quality is very good, and has approximate 3 Hours recording time.

▸ **EP** (Extended Play): video quality is better then VHS, and has approximate 4 Hours recording time.

▸ **SLP** (Super Long Play): video quality is equal to VHS, and has approximate 6 Hours recording time.

▸ **SEP** (Super Extended Play): approximate 8 Hours recording time.

· By selecting a recording mode, you define the picture quality of recordings and the maximum recording time for a disc. For playback, the correct picture quality will automatically be selected.

Recording Setup Page – Chapter Marker

· Chapter Mark: You can set the recorder to automatically add a Chapter Marker.

▸ **5 min:** add a chapter marker automatically every 5 minutes during your recordings.

▸ **10 min:** add a chapter marker automatically every 10 minutes during your recor dings.

▸ **15 min:** add a chapter marker automatically every 15 minutes during your recordings.

▸ **Off:** disable the automatically add a chapter marker function.
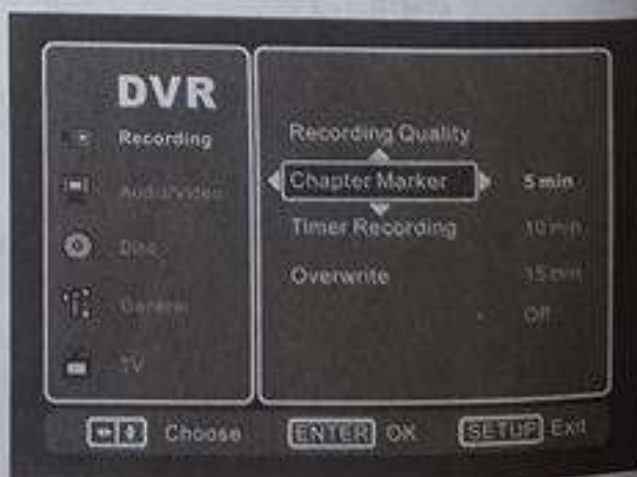
Recording Setup Page – Timer Recording

Timer Recording :Use Navigation keys
▲ , ▼ , ◀ , ▶ to select and input the options, then press the **ENTER** key to confirm the program entry (for Time and Date entries, Number keys are recommended). At the time of inputting the options, the input data will also be displayed on the VFD.

DD/MM: Set the desired date for the current program (Month/Date).

Start: Set the desired starting time.

Length: Set the timer program length.

Input: Select the input source for the recording.

Media: Set the record media on DVD or VCR.

Repeat: Select the desired repeat mode for the recording (Once, Daily, Weekly and Mon - Fri).

Mode: Select the record quality (HQ, SP, LP, etc.)
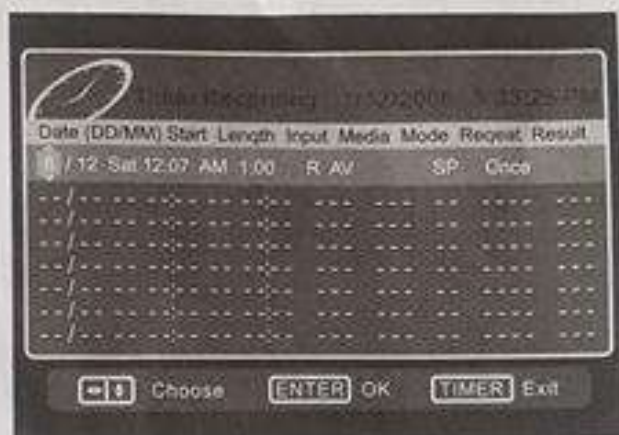
Recording Setup Page – Overwrite

- Overwrite: you can choose to overwrite existing recordings on a disc. Before to do this, the Overwrite must be set to **On**.

▶ On: **enable overwrite function.**

▶ Off: **disable overwrite function.**

Audio / Video Setup Page

This Page allows you to set the audio & video parameter.

▶ Press **SETUP** key to enter the Main Setup Menu.

▶ Move the cursor to Init Setup by ▲ , ▼ keys and press **ENTER** or ▶ key to enter Audio / Video Setup Page

Audio / Video Setup Page - Downmix Setup

· **Downmix:**
You can select the audio downmix output LT/RT or Stereo.

▶ LT / RT

▶ Stereo

Audio / Video Setup Page – SPDIF Output

· **SPDIF Output:**
You can select from the following settings according to the capbility of device connected to the digital audio output jack::

▶ **SPDIF Off:**
Digital audio output is off. Select this when no external equipment is connected to the Digital / Optical output.

▶ **SPDIF /RAW:**
Dolby Digital and MPEG signals are going out unchanged to the digital output. It is recommended to select this option when connected equipment supports decoding of both Dolby Digital and MPEG decoding.

▶ **SPDIF /PCM:**
All digital signal output will be converted to 2 Ch linear PCM digital signal. Select this option when connected equipment does not support decoding of Dolby Digital or MPEG bitstream data.
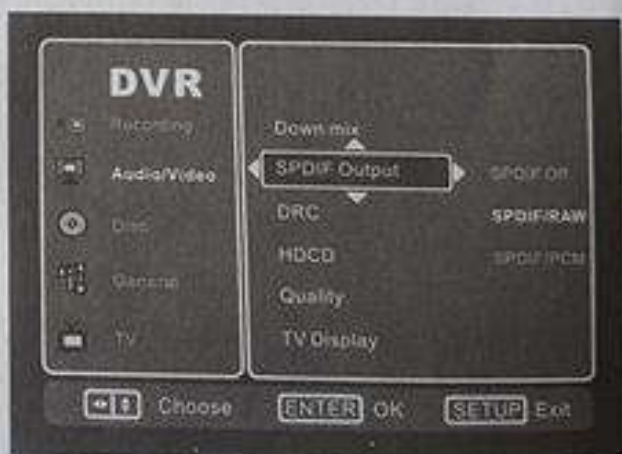
Audio / Video Setup Page - DRC

- *DRC* : Dynamic Range Compression

▸ **On** : Turn on the compression.

▸ **Off** : Turn off the compression.

▸ **Auto** : compression set to auto.

Audio / Video Setup Page - HDCD

- While playing HDCD disc, you can set the HDCD Filter.

▸ **Off:** disable the Filter.

▸ **1X:** set to normal sampling.

▸ **2X:** set to double sampling.

Audio / Video Setup Page - Quality

Set these to improve video quality.

▸ **Brightness:**
adjust the value of brightness to suit your TV.

▸ **Contrast:**
adjust the value of contrast to suit your TV.

▸ **Hue:**
adjust the value of Hue to suit your TV.

▸ **Saturation:**
adjust the value of saturation to suit your TV.

Audio / Video Setup Page - TV Display

You can setup your DVD Recorder to work with normal and wide screen televisions.

▶ **Normal /PS (Pan & Scan):**
Used when you connect a normal TV to the recorder. Display a wide picture on the whole TV screen with a portion (right and left sides of the picture) automatically cut off.

▶ **Normal /LB (Letter Box):**
Used when you connect a normal TV to the recorder. Displays a wide picture with bands displayed on the upper and lower portions of the screen.

▶ **Wide (Wide Screen):**
Used when you connect a wide screen TV to the system.

· Some wide-screen discs that do not permit Pan & Scan mode playback are automatically played in Letterbox mode.
· Depending on the DVD. 4:3 Letter box may be selected automatically instead of 4:3 Pan & Scan and vice versa.
· You must also set the screen mode on your wide screen TV to "FULL".
· If WIDE is selected and a normal TV is connected, 16:9 content will appear distorted during playback (objects look thin).

Audio / Video Setup Page – TV Scart Out

Select the Video output signal in CVBS or RGB.

▶ **CVBS** : select Composite video signal to out through the scart connecter.
▶ **RGB** : select RGB video signal to out through the scart connecter.
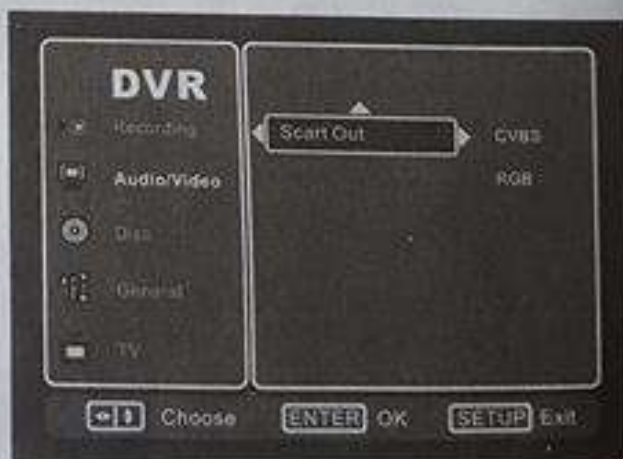
Disc Setup Page

This page allows you to set and change the parental control setting to prevent children from viewing unsuitable material, and change the password which is needed in order to change the parental control level.

Disc Angle mark on/off selection for playing multi-angle disc:

- Press **SETUP** key to enter the **Main Setup Menu**.

- Move the cursor to **General** by ▲ , ▼ keys and press **ENTER** key to enter **Disc Setup Menu**.

- Move cursor to **Disc Setup Page** and select this page.
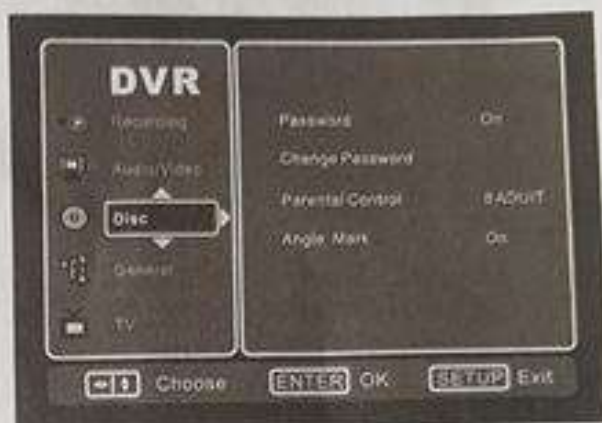
Disc Setup Page – Password On/Off

- **Password On / Off:**
  Provide enable password & disable password function.

▸ **On** : Enable password protection.

▸ **Off** : Disable password protection.
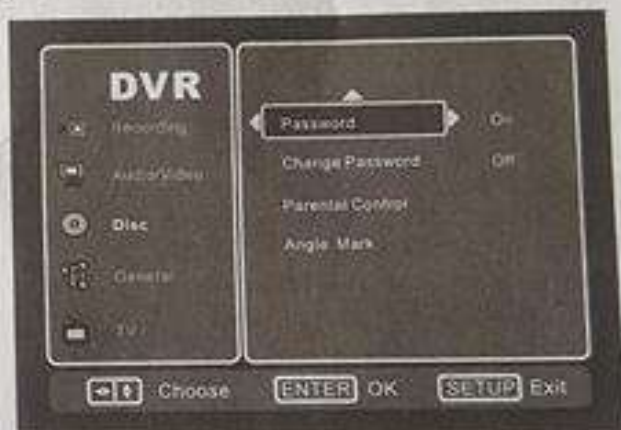
Disc Setup Page – Change Password

- **Change Password:**

▸ Change the existing password.

▸ The password factory default setting as 123456.

Disc Setup Page – Parental Ctrl

- **Parental:**
  The Parental Level allows you to limit the use of your DVD Player to only those DVD discs that do not exceed the rating you specify.
  - ▸ **KID SAF :** Kid safe.
  - ▸ **G :** All ages.
  - ▸ **PG :** Parental guidance.
  - ▸ **PG 13 :** Parental guidance less than 13 years old
  - ▸ **PGR :** Under 17 years old parental guidance suggested.
  - ▸ **R :** Under 17 years old, parental guidance strongly suggested.
  - ▸ **NC17 :** 17 years old and above.
  - ▸ **ADULT :** Adult only.

Disc Setup Page - Angle Mark

Some DVD movies contain scenes that were filmed from multiple angles simultaneously. If the scene you are watching was shot from multiple angles, the angle icon will appear on the screen. You may then press the ANGLE key on the remote to select the alternate angles.
The default Angle Mark setting is OFF. If you leave the setting at OFF the angle icon will not appear, even if the scene was shot from multiple angles.

- ▸ **On:**
  Angle Icon will appear on the TV screen if playing multi angles DVD disc.
- ▸ **Off:**
  Angle icon will not appear even playing multi angle DVD disc.
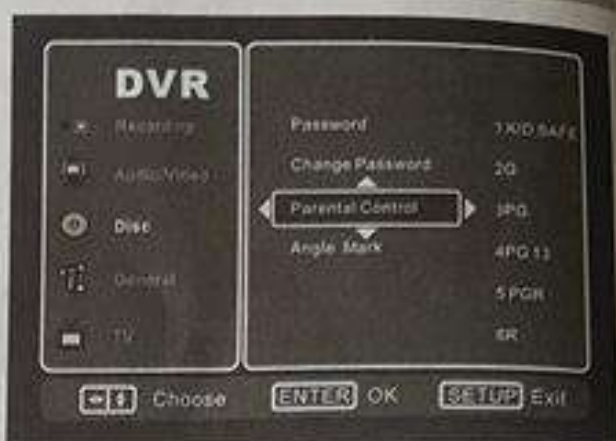
PLAYING BACK

General Setup Page

This Page allows you to set general parameter.
▸ Press **SETUP** key to enter the **Main Setup Menu**.
▸ Move the cursor to **General** by5,6 keys and press **ENTER** key to enter **General Setup Menu**.
▸ Move cursor to **General Setup Page** and select this page.

General Setup Page - OSD Lang

We have preset the initial Default On Screen Display (OSD) Language to English. This means that all of the on screen menus and icons will appear in English.
You can change the On Screen Display (OSD) Language to other language.
▸ **English** : select the OSD Language in English.
▸ **Français** : select the OSD Language in Français.
▸ **Español** : select the OSD Language in Español.

General Setup Page - Disc Menu Lang

Sets the default language used by DVD Menus. As an example, if a DVD disc contains multiple menu languages, such as Spanish and English, and this setting is set to Spanish, then the Spanish menu will be used. Of course, the DVD must support multiple menu languages for this setting to work.
▸ **English:**
  Set DVD menu default language in English.
▸ **French:**
  Set DVD menu default language in French.
▸ **Spanish:**
  Set DVD menu default language in Spanish.
▸ **German:**
  Set DVD menu default language in German.
▸ **Chinese:**
  Set DVD menu default language in Chinese.
▸ **Japanese:**
  Set DVD menu default language in Japanese.
▸ **Russian:**
  Set DVD menu default language in Russian.
▸ **Thai:**
  Set DVD menu default language in Thai.

General Setup Page - Audio

Set the default audio track used by DVDs. For example, if a DVD disc contains multiple audio tracks, such as Spanish and English, and this setting is set to Spanish, then the Spanish audio track will play as the default. Of course, the DVD must support multiple menu languages for this setting to work.

> **English:**
  Set default audio track in English.
> **French:**
  Set default audio track in French.
> **Spanish:**
  Set default audio track in Spanish.
> **German:**
  Set default audio track in German.
> **Italy:**
  Set default audio track in Italy.
> **Chinese:**
  Set default audio track in Chinese.
> **Japanese:**
  Set default audio track in Japanese.
> **Korean:**
  Set default audio track in Korean.
> **Russian:**
  Set default audio track in Russian.
> **Thai:**
  Set default audio track in Thai.

General Setup Page - Subtitle

Set the default subtitle language used by DVDs. For example, if a DVD disc supports multiple subtitle languages, such as Spanish and English, and this setting is set to Spanish, then Spanish subtitles will be displayed by default. Of course, the DVD must support the language selected for this setting to work.

> **English:**
  Set default subtitle track in English.
> **French:**
  Set default subtitle track in French.
> **Spanish:**
  Set default subtitle track in Spanish.
> **German:**
  Set default subtitle track in German.
> **Italy:**
  Set default subtitle track in Italy.
> **Chinese:**
  Set default subtitle track in Chinese.
> **Japanese:**
  Set default subtitle track in Japanese.
> **Korean:**
  Set default subtitle track in Korean.
> **Russian:**
  Set default subtitle track in Russian.
> **Thai:**
  Set default subtitle track in Thai.
> **off**
  Set default subtitle track in Off

General Setup Page - Clock Setting

Set the date and time used by the unit for timer recording purposes.

▸ Move the cursor to "Clock Setting" by ▲,▼ keys and press **ENTER** key to enter clock-setting menu.
▸ Use ▲,▼ keys to increase or decrease the Date/Time values and ◂,▸ keys to move to a different field.
▸ Press **ENTER** to confirm and save.
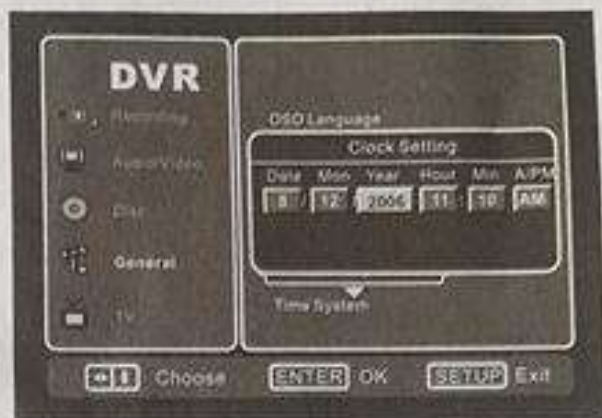
General Setup Page - Time System

Select the display type of time to suit your habit.
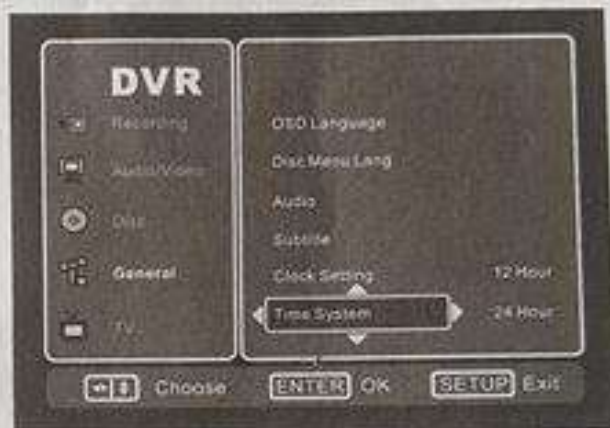
General Setup Page - Screen Saver

Turns the screen saver option on or off. If you turn the screen saver on, the screen saver image appears when you leave the recorder in pause or stop mode for more than 3 minute. The screen saver is useful to prevent your display from becoming damaged.

▸ **On:** Turns the screen saver on.
▸ **Off:** Turns the screen saver off.

General Setup Page – User Default

Use this option to reset the unit to factory defaults. All settings will be reset.

▸ **Reset:** restore the factory default setting.

Note: Before operate this function please unload all tape and disc.
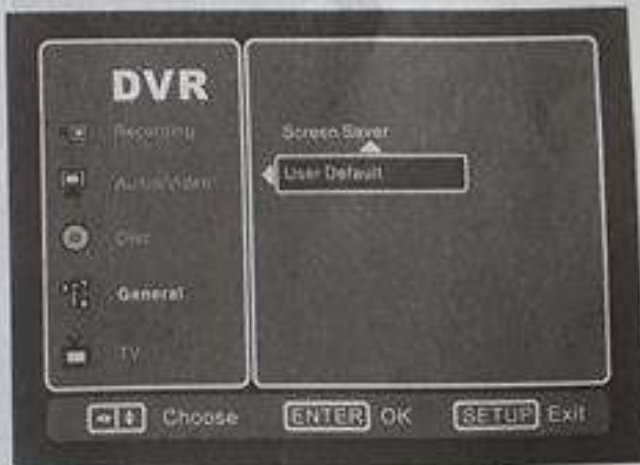
TV Setup Page

This Page allows you to set the build-in TV Tuner preference of the DVD Recorder.

▶ Press **SETUP** key to enter the **Main Setup Menu.**

▶ Move the cursor to **TV Setup** by ▲, ▼ keys and press **ENTER** key to enter **Edit channel List.**

You can search TV program manually.

▶ Move the cursor to highlight the CH List by ▲, ▼ keys and press **ENTER** key to enter CH List menu. In the Channel list menu, a name can be assigned to each channel.

TV Setup Page - Automatic TV Channel Search

During the **Initial Setup**, the built-in TV Tuner scanned for all available TV channels and saved these to channel list. However, if the channel assignments of your cable or satellite TV provider change or if you are reinstalling the DVD recorder, e.g. after moving, you can start this procedure again. This will replace the TV channels already saved with the new ones.

▶ Move the cursor to high light the **Automatic Search** by ▲, ▼ keys and press **ENTER** key to enter the TV auto search window.

▶ Confirm the scanning start press choose of the OK button with ▲, ▼ keys & press the **ENTER** key to confirm the auto scan starts. Or choose the EXIT button for exit to normal.
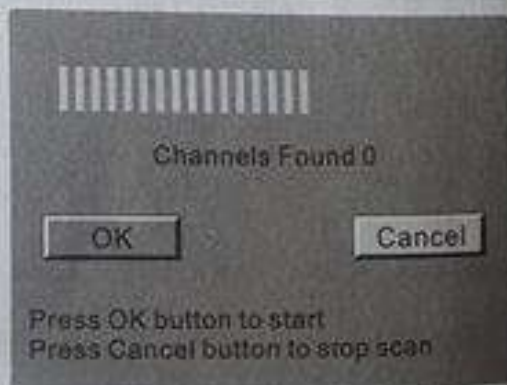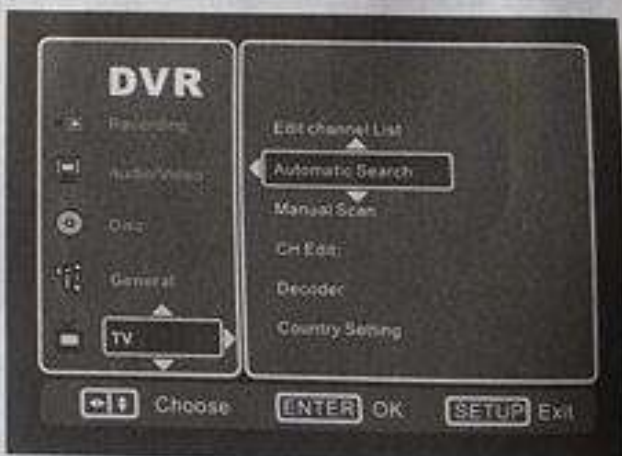
TV Setup Page - Manual Scan

▶ Move the cursor to high light the **Manual Scan** by
  ▲, ▼ keys and press **ENTER** key to Manual Scan.
▶ Press CH.UP / CH.DOWN or input a channel
  number by Digit keys to select a channel.
▶ Move the cursor to **PR** by ▲, ▼ keys, and then
  input your desired channel number by Digit keys.
  The current channel is copied to your desired
  channel.
▶ Move the cursor to **CH** by ▲, ▼ keys, and then
  input your desired channel number by Digit keys.
  The current channel is copied to your desired
  channel.
▶ Move the cursor to **S-CH** by ▲, ▼ keys, and then
  input your desired channel number by Digit keys.
  The current channel is copied to your desired
  channel.
▶ Move the cursor to **Standard** by ▲, ▼ keys, to
  change this channel system.
▶ Move the cursor to **Decoder** by ▲, ▼ keys, and
  Select **On** or **Off** by ◄, ► keys. This channel will
  uses the TV decoder while you select **On**.
▶ Move the cursor to **CH Fine Tune** by ▲, ▼
  keys, and to Fine turn this channel by ◄, ► keys.

CH Edit

Press "▲" or "▼" key for select the field to edit.
▶ "Frequency" shows the selected channel
  frequency.
▶ "TV System" can be select the TV system by "◄"
  or "►" key. Selection are PAL B/G ► PAL I ►
  SECAM D/K ► SECAM B/G ► SECAM L ► PAL D/
  K ► PAL B/G
▶ "Decoder" for select the external decoder on or off
  of this channel (only active when already selected
  the "Decoder - Installed" in TV setup page.).
▶ "Skip" for select skip this channel or not skip this
  channel on the TV channel list.
▶ "CH Fine Tune" for user fine tuning the frequency
  of the TV channel for getting better performance
  of the picture quality.
▶ "Copy To" for user easy copy the current setting
  to another channel. Press left or right to select the
  copy to channel number.
▶ "Exchange From" for user easy to swap the
  current channel to the selected channel number.
  Press the "◄" and "►" to select the channel
  number for exchange.

TV Setup Page - Decoder Set

To install or un-install the TV Decoder.
▶ Not Installed: select 'Not Installed' while your
  recorder does not connect TV decoder.
▶ Installed: select 'Installed' if your recorder
  connects the TV decoder through the SCART
  connector.

TV Setup Page - Country Setting

Select the country where the unit operates.
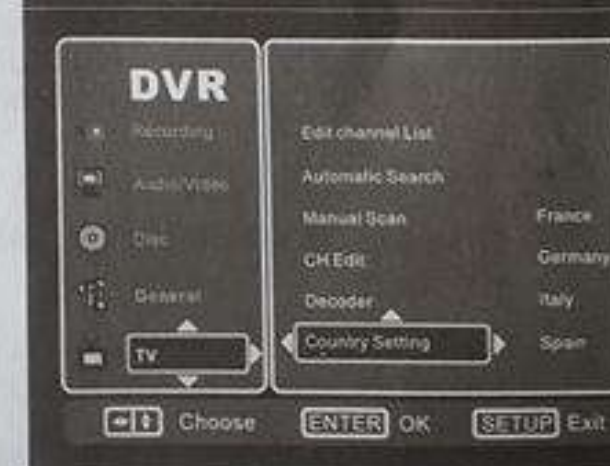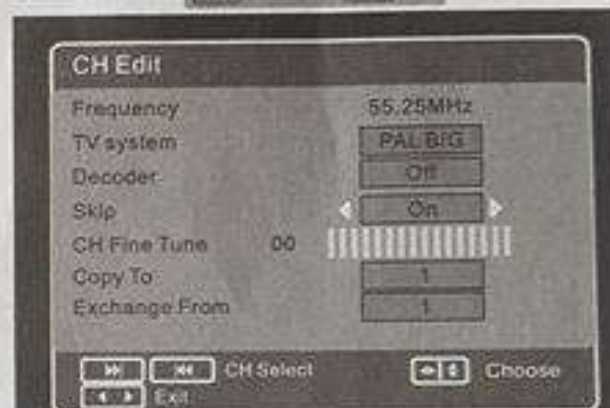
General Operation

File Browser

For some kind of disc like MP3 disc or MPEG4 disc, file selection operation is needed for playback. A File Browser menu is hence required and will be shown after loading the corresponding disc as following:
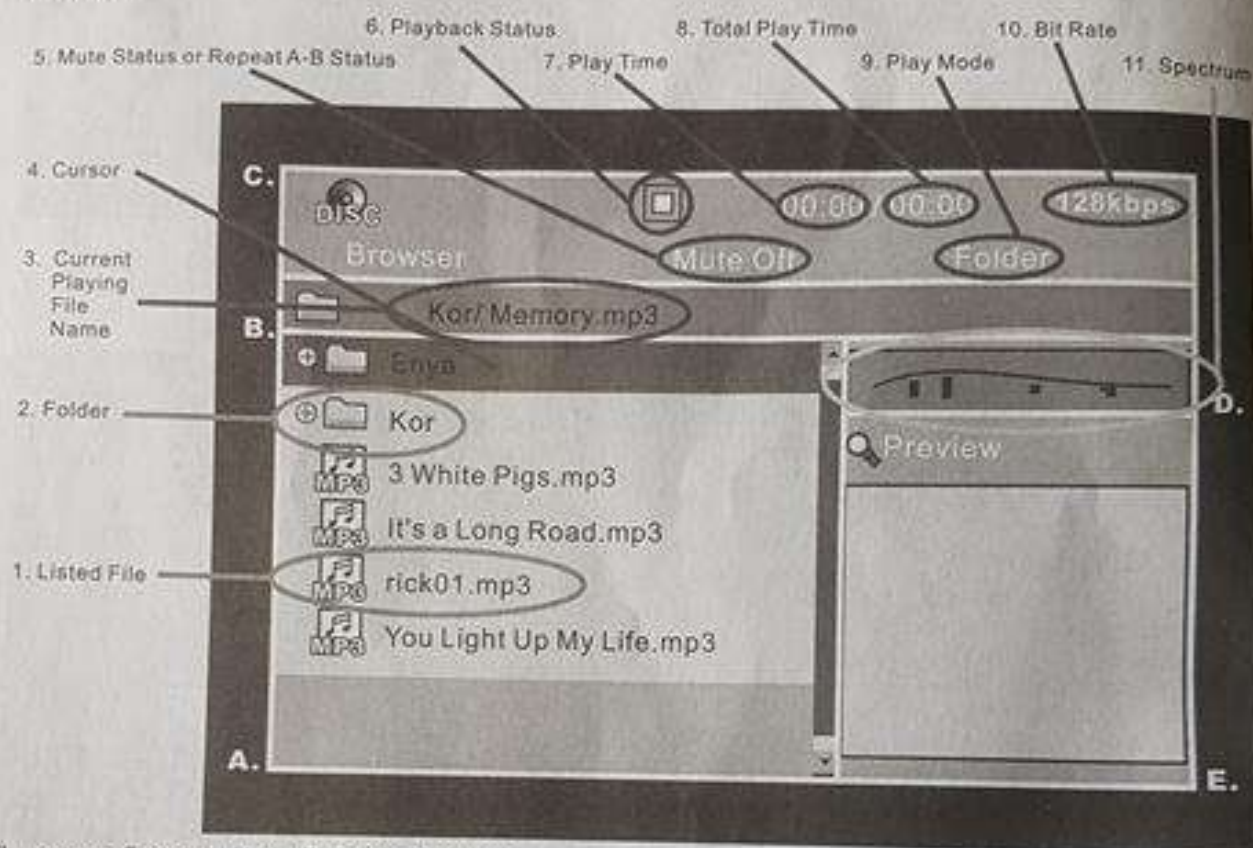
There are 5 areas (A to E) in the browser.

Area (A) – **File Navigation Window** -will list the folders and files on the disc in tree structure. With a user selection cursor highlighted in purpose color, user can move it up and down with ▲ and ▼ keys on the remote control unit. When a file (song, movie or picture) is being played, the background of the file will be marked with yellow color.

To select a file for playback, move the purple cursor to highlight the target file and then press **ENTER** key.

To explorer a folder, move the purple cursor to highlight the target folder name and then press **ENTER** key. The files or sun-folder inside the target will be listed. To close a folder, move the purple cursor to highlight the opened folder name and then press **ENTER** key. The opened folder will collapse.

Area (B) – **File Path Window** - shows the path of the playing file.

Area (C) – **Play Status Window** - shows the playing status: the play time information, bit rate of the file (MP3), play/stop status, etc

Area (D) – **File Information Window** - displays the spectrum when playing audio files or displays the picture size information when navigating the picture files.

Area (E) – **Preview Windows** - shows the preview of picture files.

DVD Title Menu

When a prerecorded DVD+RW or DVD+R disc which is previously recorded by this model of recorder unit is inserted, a special title menu is display as following.
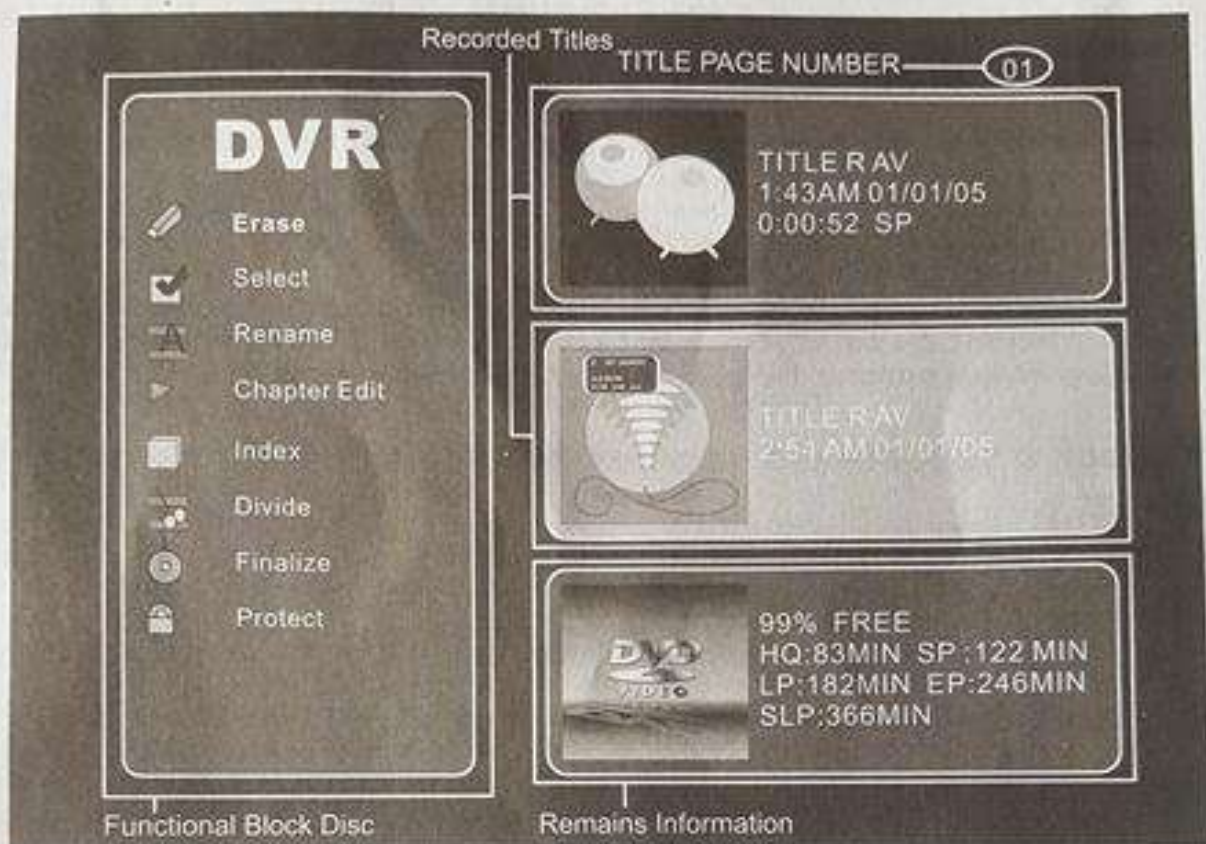
In the page shows recorded titles & several block of the disc information.

1. It shows Functional Block for you to select the function for edit the recorded title.
2. It shows & for selectable Recorded Titles for edit or play.
3. It shows DVD+RW Title Pages number.
4. It shows Disc Remains information.

For user operate the function block, use ▲ & ▼ key on the remote control unit.

IMPORTANT NOTES:

- An invalid sign will appear on the TV screen during operation in which you try to access a function that is not available on the disc.
- Some discs may take a few seconds to load.
- If a disc is inserted incorrectly, dirty, damaged, or is not present at all, the recorder does not allow any disc playback operation.
- Always hold the disc without touching either of its surfaces. When inserting a disc, position it with the printed title side facing up, align it with the guides and place it in its proper position.

Playback a supported disc in an un-powered recorder unit

1. Power on the recorder unit by pressing **STANDBY** key.
2. Power on the TV and/or the connected external power audio amplifier. Make sure the correct TV source and / or Audio input is selected on the TV set and / or Audio amplifier respectively.
3. When the recorder is powered up, it returns to the last selected input source. Press **EJECT** key to eject the disc tray.
4. Put the disc to be playback on the tray and place the playback side of the disc faces downwards.
5. Press **EJECT** key to return the tray and disc into the unit. The unit then starts reading and identifying the disc type.
6. When the unit detects the disc type are one of the various supported types, it automatically starts playing the disc. (Auto starts is not included the still opened end disc "unprotected or not finalized DVD/+R, DVD/-R, DVD/+RW, DVD/-RW")
7. Not all type of discs has identical playback functions. For example, DVD-Video disc support time search but Picture CD does not have similar functions. For more details on the playback function that supported by a particular disc type, please refer to the following sections.

Playback a supported disc when the unit is operating with input sources

When the recorder unit is operating in one of the six input sources - TV Tuner, Front AV, Front S-Video, Rear AV, Rear S-Video and DV, press **PLAY** key and the unit switches to DVD playback mode if there are playable disc inside the tray.

Note 1: Apart from non-readable disc, disc with unsupported file system, blank new recordable disc or erased disc inhibit the switching the unit to disc playback mode.

Note 2: For an empty DVD recordable / rewritable disc which has been formatted with NTSC or PAL format allows the switch to playback mode and shows an empty title on the title menu.

Pause a disc playback

Press the remote control **PAUSE** key or front panel **PLAY/PAUSE** key once when the disc is playing back.

Resume disc playback from pausing

Press the remote control **PAUSE** key or front panel **PLAY** key when the disc is being paused.
Note: The PLAY key on the front panel shares the function of play, pause and resume play function.

Stop from playing back a disc

Press **STOP** key and the playback will be stop. The unit in this non-playing state will automatically switch to last or default input source.
Note: Stopping the disc playback does not mean stopping the disc rotation inside the unit. The disc is kept rotating for a few minutes before the spindle motor stops finally.

Mute the audio output

Press **MUTE** key on the remote control unit will toggle the mute status. If muting is turned on, there is an icon shown on the TV screen and front panel display.

Display Disc Playback Information

Press **DISPLAY** key on the remote control unit toggles on and off the displaying of the selection menu in which it shows most of the useful disc playback information like the current track number, remaining play time, repeat status, audio channel selection, etc.

Playing Back DVD

Note: It is important that you read the manual that accompanies the DVD disc as there are features that are on this DVD recorder that cannot be used with certain DVDs. There are also extra features that are different for each DVD disc, and they are not explained in this owner's manual.

Play, Pause, and Stop a DVD playback

Refer to the previous section GENERAL OPERATION.

Step DVD playback forward frame by frame

When disc playback is paused, a press of PAUSE / STEP key on remote control unit advances a video frame forward by one frame.

Note 1:   This step function is operated with remote control unit only. There is no such a step function provide by front panel keys.

Note 2:   Step backward function is not provided by this unit.

Note 3:   No sound output will be produced in this mode of operation.

Fast Forward / Backward

During the disc is playing, a press of ▸▸ key increases the forward playing speed. Subsequent press of ▸▸ key further increases the speed according to the cyclic order of 1x (normal)▬ 2x▬ 4x▬ 8x▬ 16x▬ 32x▬ 1x (Normal speed). For fast playback rewinding, press ◂◂ instead of the ▸▸. It performs same as ▸▸ but in reverse playing direction.

Note 1:   No sound output will be produced in this mode of operation.

Slow Forward / Backward

During the playback in paused state, a press of ▸▸ key starts the forward playback in slow motion. Subsequent press of ▸▸ key further increases the speed according to the cydic order of Pause1/ 2x▬ 1/4x▬ 1/8x▬ 1/16x▬ 1x(Normal). For play backward in slow motion, instead of pressing ▸▸ in pause state, press the ◂◂ key starts the slow motion playback in backward direction.

Note 1:   Mind the playing speed. Subsequent press of ▸▸/◂◂ key will finally result in the state of normal forward playing speed. Any further press of ▸▸/◂◂ results fast forward/backward

Note 2:   No sound output will be produced in this mode of operation.

Skip Forward / Backward

During the disc is playing, press ▸▸| key to advance the DVD playback to the beginning of next chapter and press |◂◂ key to move the DVD playback to the beginning of previous chapter.

Title & chapter may also be skipped through the use of selection menu. Pop up the selection menu on the TV screen with ◂ or ▸ keys, move the highlight cursor to the Chapter item. Press ▲ or ▾ can skip to next or previous Chapter. Title skipping can be controlled in the same manner if the highlighted item is the title item instead of the chapter item.

PLAYING BACK

DVD Menu

In DVD playback mode, press **DVD MENU** key on the remote control unit will play the main menu of the DVD disc on the TV screen.
Note: Not all DVD disc contain this menu.

Title Menu

In DVD playback mode, press **TITLE** key on the remote control unit will play the title menu of the DVD disc on the TV screen.
Note: Not all DVD disc contain this menu.

Title, Chapter & Time Search

During playing any chapter, pop up the selection menu on the TV screen with **DISPLAY** key. Use ◄ and ► keys to move the highlight cursor to the Title Info, Chapter Info or Play Time Info item which relates to the target search.
For the Title & Chapter search, input the target Title number or Chapter number directly by number keys on the remote control unit.
For the Time search, first use the ▲ and ▼ key to select the title play time display mode or chapter play time display mode. Then input directly the target title play time or chapter play time with the number keys on the remote control unit.
New input will be processed automatically by the unit after a short timeout or user can press **ENTER** directly to end the number input process. Playback of target title, chapter or time will starts if there is no error in the input.
Note: Input is not accepted in the Title Remaining time mode or Chapter Remaining time mode for time searching.

Repeat Title or Chapter Playback

While in the playback mode, press the REPEAT key on the remote control unit to select one of the repeat mode according to the cyclic order:
repeat off▬ repeat current chapter▬ Repeat current title▬ repeat all▬ repeat off
Selected repeat mode will be shown on the on-screen selection menu.

A-B Repeat Playback

A segment of movie can be selected by user for this unit playing back repeatedly.

While in the playback mode, press the **A-B** key on the remote control unit to mark the beginning of the movie. The movie continues playing. When the segment ending arrives, press **A-B** key again the mark the segment end. Then the unit will start playing back the segment repeatedly. While A-B playback is effective, a press of A-B key again will cancel the **A-B** playback mode and the movie continues its normal playing.

Random Playback

While in playback mode, pop up the selection menu on the **TV** screen with **DISPLAY** key. Use "◄" and "►" keys to move the highlight cursor to Random item. Press numeric button "0" to enable or "1" to disable the random play function.

Angle Selection

Some discs may contain scenes which have been shot simultaneously from a number of different camera angles.
While in the playback mode, press the **ANGLE** key and the angle setting will appear at the bottom left corner of the TV screen. The selected angle number as well as the total number of available of angle will be displayed. Repeatedly press the **ANGLE** key will switch to next angle for playback.

PLAYING BACK

Subtitle Selection

While in the playback mode, press the **SUBTITLE** key on remote control unit and the available subtitle options from the DVD disc will be shown in a list box under the subtitle item in the selection menu. Press **SUBTITLE** key repeatedly or press ▲/▼ and **ENTER** to select the preferred subtitle language.

Note:
- Subtitle may not available for all DVD disc and may be title subjected.
- Some DVDs have automatic subtitles by default, so these subtitles cannot be turned on or off.
- After pressing the **SUBTITLE** key, subtitles may not appear immediately in some scenes.
- If subtitles are off and text still appears on the screen, make sure the Closed Captions option is off.

Audio Selection

While in the playback mode, press the **AUDIO** key on remote control unit and the available audio options from the **DVD** disc will be shown in a list box under the audio item in the selection menu. Press **AUDIO** key repeatedly or press ▲/▼ and **ENTER** to select the preferred audio language.

Note:
- Multi-Audio may not be available for all DVD disc.
- After pressing the **AUDIO** key, selected audio may not be produced immediately in some scenes.

Bookmark

Adding the bookmark
When playing the DVD disc press the bookmark button once on remote control that will active the bookmark feature for marked the position that you are watching.
There are total can store 12 marking position.
Recall the bookmark
Hold the remote control bookmark button for few second. The OSD will pop-up bookmark window for selection.
- Select the bookmark by press the direction button to highlight.
- Clear the bookmark just select bookmark then press the 'STOP' button to confirm the clear.
- Confirm the bookmark play back by press the 'ENTER' button.
- Exit the bookmark by press the 'BOOKMARK' button for exit the bookmark window.

Programmed DVD Playback

Playing the DVD and press **PROGRAM** key on the remote control unit. The program entry menu appears on the TV screen.

Program					

TT: 1   CH: 21

List	Title	Chapter	List	Title	Chapter
1	1	-	6	-	-
2	-	-	7	-	-
3	-	-	8	-	-
4	-	-	9	-	-
5	-	-	10	-	-

Play	Exit

0~9	Input digits	■	Clear	Enter	OK
◄◄	Prey Page	►►	Next Page		
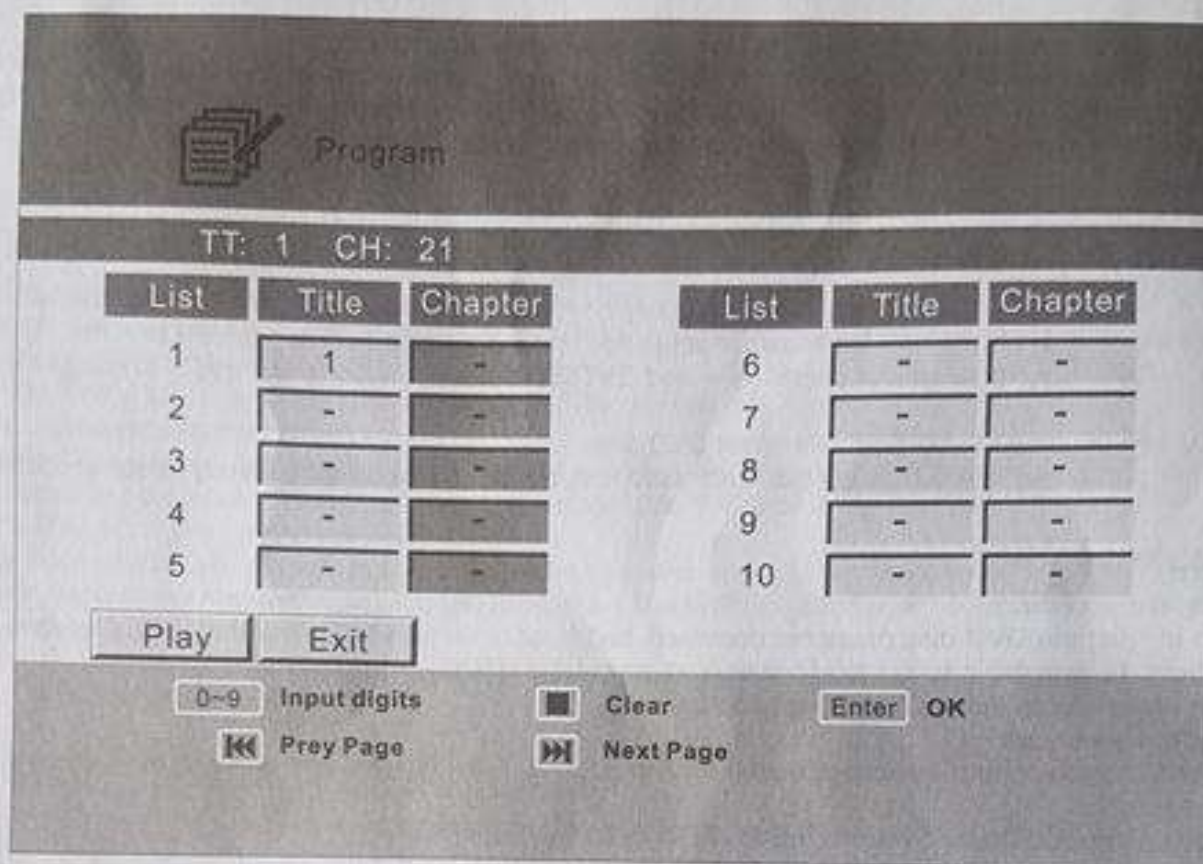
DVD program mode allows up to 20 program entries. The item in each entry requires a title number and a chapter number to be set. To program an item, firstly move the highlight cursor to the title field of the item with cursor keys. Then enter the title number with number keys on the remote control unit. If the number is input wrongly, continue inputting with correct numbers will overwrite the wrong number. The last entry can be cleared with **STOP** key to reduce the total number of entry. After completing the title number input, press the ▶ to highlight the item's chapter input position. By input the title number with number keys and then press ▼ subsequent items can then be programmed in the same manner. The unit does not allow programming non-existing content. Therefore, input with invalid number will have no response for that input key stroke. If the total number of programmed item exceeds 10, press ►► can go to next page of program input for the next 10 items. When all the expected items are programmed, a press of **ENTER** will close the program entry menu and the playback will be executed according to the order of the item inputs in the program entry menu. During the program play mode, there will be a "Program" notification shown on the bottom left corner of the TV screen.

To view the existing program list, press **PROGRAM** key to pop up the program entry menu which shows existing program entries. Press ►► to view next page of program list if there are more than 10 entries. Or press ◄◄ to go back from second page to the first page. Select and press the **EXIT** button in the menu will close the program entry menu and go back to the program back mode.

To stop program play mode, press **PROGRAM** key to enter the program entry menu and the **STOP** button on the TV screen will be highlight by default. A press of **ENTER** on the remote control unit at this time will stop the program play mode and return to normal playback mode.

Digest for DVD

Digest button for active digest function. When playing DVD disc press the "DIGEST" button. OSD will shows the Digest Box.
In the Digest Box contains 4 features: Title Digest, Chapter Digest, Title Interval & Chapter Interval.

Title Digest: For choose the digest of the title of the disc. Highlight "Title Digest" & Press "Enter" button. Then select the box by direction key then press "Enter or Play" button to play the selected or direct input the number by number key then press "Play" button for playback selected.

Chapter Digest: Choose the digest of the disc chapter. Highlight "Chapter Digest" & Press "Enter" button. Then select the box by direction key then press "Enter or play" button to play the selected or direct input the number by number key then press "Play" button for playback selected.

Title Interval: For choose the Interval of the disc title. Highlight "Title Interval" & Press "Enter" button. Then select the box by direction button then press "Enter or play" button to play the selected or direct input the number by number key then press "Play" button for playback selected.

Chapter Interval: For choose the Interval of the disc chapter. Highlight "Chapter Interval" & Press "Enter" button. Then select the box by direction button then press "Enter or play" button to play the selected or direct input the number by number key then press "Play" button for playback selected.
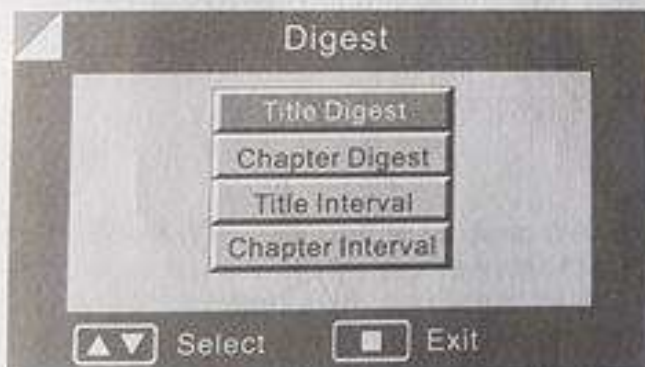
Choose the (↺) button for back to previous digest menu.
Choose the (↵) button for exit the digest selection box menu.

PLAYING BACK

Playing Back CD/VCD

Play, Pause, and Stop a CD/VCD playback

Refer to the previous section GENERAL OPERATION.

Step playback forward frame by frame (VCD only)

When VCD disc playback is paused, a press of **PAUSE / STEP** on remote control unit advances a video frame forward by one frame.

Note 1: This step function is operated with remote control unit only. There is no such a step function provide by front panel keys.

Note 2: Step backward function is not provided by this unit.

Note 3: No sound output will be produced in this mode of operation.

Fast Forward / Backward

During the disc is playing, a press of ▸▸ key increases the forward playing speed. Subsequent press of ▸▸ key further increases the speed according to the cyclic order of 1x (normal)➡ 2x➡ 4x➡ 8x➡ 16x➡ 32x➡ 1x(Normal speed). For fast playback rewinding, press ◂◂ instead of the 8 It performs same as ▸▸ but in reverse playing direction.

Note: No sound output will be produced in this mode of operation for VCD.

Slow Forward (VCD only)

During the playback in paused state, a press of ▸▸ key starts the forward playback in slow motion. Subsequent press of ▸▸ key further decreases the speed according to the order of Pause➡ 1/2x➡ 1/4x➡ 1/8x➡ 1/16x➡ 1x(Normal).

Note 1: Mind the playing speed. Subsequent press of ▸▸ key will finally result in the state of normal forward playing speed. Any further press of ▸▸ results fast forward/backward instead of slow motion playback.

Note 2: No slow backward function is provided by this unit.

Note 3: No sound output will be produced in this mode of operation.

Skip Forward / Backward

During the disc is playing, press ▸▸ key to advance the DVD playback to the beginning of next track and press ◂◂ key to move the playback to the beginning of previous track.

PBC (Playback Control) On/Off (VCD only)

With PBC function turned on, the VCD playback behavior will be controlled by the software in the VCD. To turn the PBC function on and off, press the **PBC** key on the remote control unit. If the PBC is turned off, the VCD is play backed just like an audio CD.

Note 1: Not all VCD have PBC function supported.

Note 2: Program entry mode or user direct track number selection will force the PBC off automatically.

Note 3: Turn PBC on will restart the disc playback from beginning according to the software inside the disc.

Track Search

During playing any track, press the target track number with the number keys on the remote control unit will trigger the pop up of the selection menu and the target track number can be directly input.

New input will be processed automatically completed by the unit after a short timeout or user can press enter directly to end the number input process. Playback of target track or time will starts if there is no error in the input.

PLAYING BACK

Time Search

During playing any track, pop up the selection menu on the TV screen with **DISPLAY** key. Play Time Info item will be highlighted by default for time search.

Use the ▲ and ▼ key to select the track play time display mode or disc play time display mode. Then input directly the target track play time or disc play time with the number keys on the remote control unit.

New input will be processed automatically by the unit after a short timeout or user can press enter directly to end the number input process. Playback of target track or time will starts if there is no error in the input.

Note: Input is not accepted in the Track remaining time mode or Disc Remaining time mode for time searching.

Repeat Track Playback

While in the playback mode, press the **REPEAT** key on the remote control unit to select one of the repeat modes according to the cyclic order:

repeat off ➔ repeat current track ➔ repeat all tracks ➔ repeat off

Selected repeat mode will be shown on the on-screen selection menu.

A-B Repeat Playback

A segment of music or movie can be selected by user for this unit playing back repeatedly.

While in the playback mode, press the **A-B** key on the remote control unit to mark the beginning of the music or movie. The music or movie continues play backing. When the segment ending arrives, press **A-B** key again the mark the segment end. Then the unit will start playing back the segment repeatedly. While **A-B** playback is effective, a press of **A-B** key again will cancel the **A-B** playback mode and the music or movie continues its normal playing.

Random Playback

While in playback mode, pop up the selection menu on the **TV** screen with **DISPLAY** key. Use " ◀ " and " ▶ " keys to move the highlight cursor to Random item. Press numeric button "0" to enable or "1" to disable the random play function.

Audio Selection

While in the playback mode, press the **AUDIO** key on remote control unit and the available audio options will be shown in a list box under the audio item in the selection menu. Press **AUDIO** key repeatedly or press ▲/ ▼ and **ENTER** to select the preferred audio channel mode.

The available audio selection includes:

L-Mono   Left channel from original source is distributed to both output Left & Right Channel

R-Mono   Right channel from original source is distributed to both output Left & Right Channel

Stereo   Left & right channel from original will be output directly to corresponding output channel.

Mix-Mono   Left and Right channel from original source will be mixed and the mixed sound is distributed to both output Left & Right channel

PLAYING BACK

Programmed CD / VCD Playback

Playing the CD / VCD and press PROGRAM key on the remote control unit. The program entry menu appears on the TV screen.
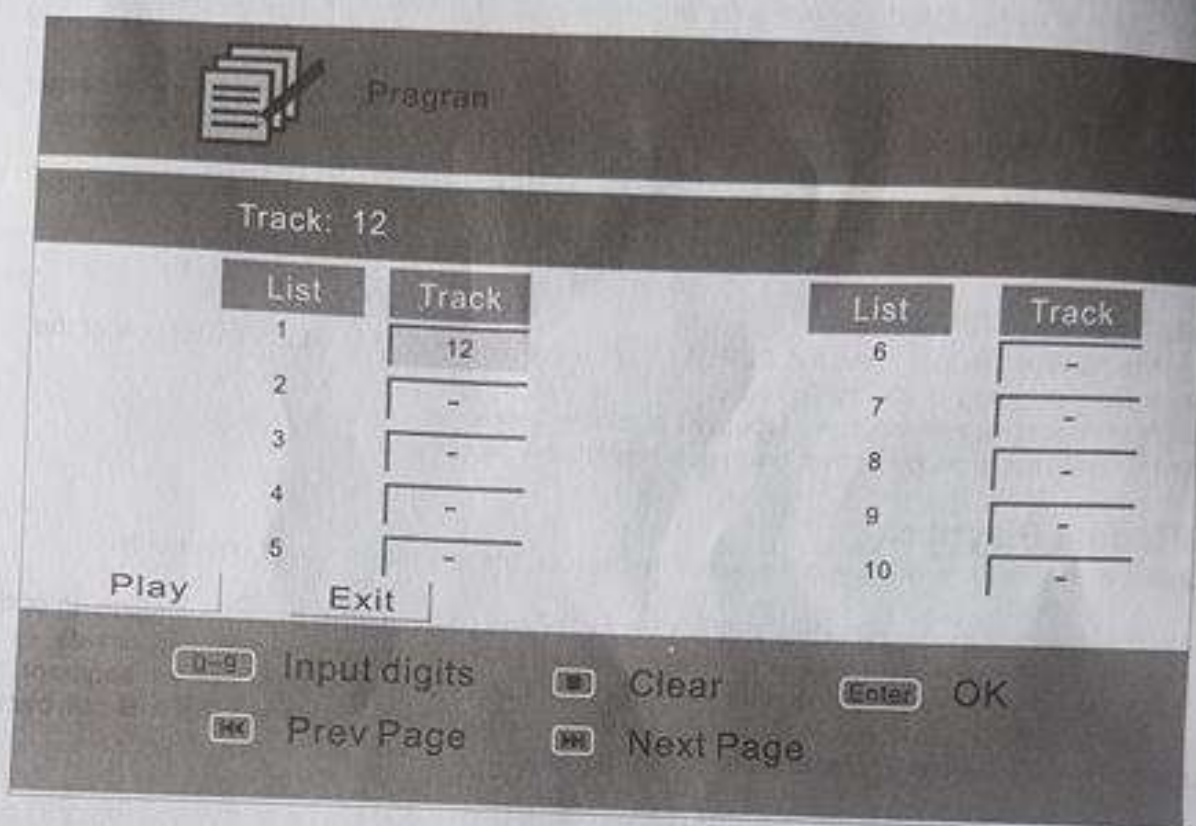
CD/VCD program mode allows up to 20 program entries. Each entry requires a valid track number to be set. To input a track to program, firstly move the highlight cursor to the track field of the item with cursor keys. Then enter the expected track number with number keys on the remote control unit. If the number is input wrongly, continue inputting the correct number will overwrite the wrong number. After completing the track number input, press the ▾ to highlight the next item's input track number. Subsequent items can then be programmed in the same manner. The unit does not allow programming non-existing content. Therefore, input with invalid number will have no response for that input key stroke. If the input menu is full of new entries, press ▸▸ can open next page of program input page for the next 10 items and ◂◂ can go back to first page of input page. When all the expected items are programmed, press ENTER to close the program entry menu and the playback will be executed according to the order of the item inputs in the program entry menu. During the program play mode, there will be a "Program" notification shown on the bottom left corner of the TV screen.

To view the existing program list, press PROGRAM key to pop up the program entry menu which shows existing program entries. Press ▸▸ to view next page of program list if there are more than 10 entries. Or press ◂◂ to go back from second page to the first page. Select and press the EXIT button in the menu will close the program entry menu and go back to the program back mode.

To stop program play mode, press PROGRAM key to enter the program entry menu. Select and press the STOP button will clear the program list, cancel the program play mode and return to normal playback mode.

Digest for VCD

Digest button for active digest function. When playing VCD disc press the "DIGEST" button.
OSD will shows the Digest Box.
In the Digest Box contains 3 features: Track Digest, Disc Interval, & Track Interval.

Track Digest: For choose the digest of the title of the disc. Highlight "Track Digest" & Press "Enter" button. Then select the box by direction key then press "Enter or Play" button to play the selected or direct input the number by number key then press "Play" button for playback selected.

Disc Interval: For choose the Interval of the disc title. Highlight "Disc Interval" & Press "Enter" button. Then select the box by direction button then press "Enter or play" button to play the selected or direct input the number by number key then press "Play" button for playback selected.

Track Interval: For choose the Interval of the disc chapter. Highlight "Track Interval" & Press "Enter" button. Then select the box by direction button then press "Enter or play" button to play the selected or direct input the number by number key then press "Play" button for playback selected.

Choose the (↺) button for back to previous digest menu.
Choose the (↵) button for exit the digest selection box menu.
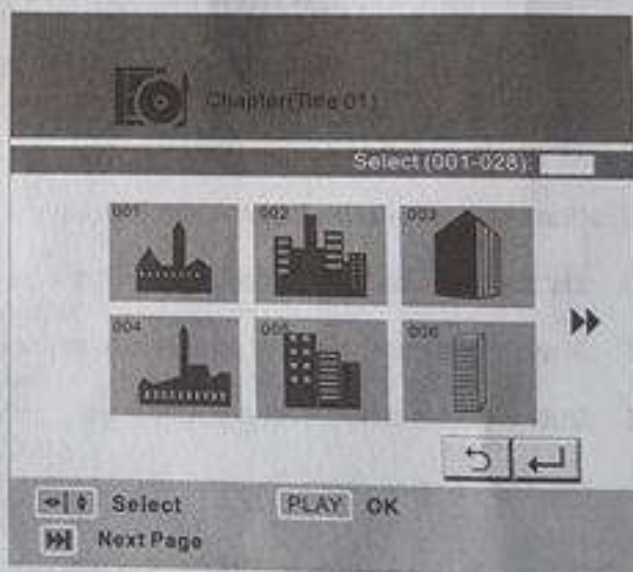
Playing Back MP3 or JPEG

While a MP3 or JPEG disc is inserted into the unit and read the content successfully the File Browser is displayed on the TV screen. Please refer to more information about the browser in previous General Operation section.
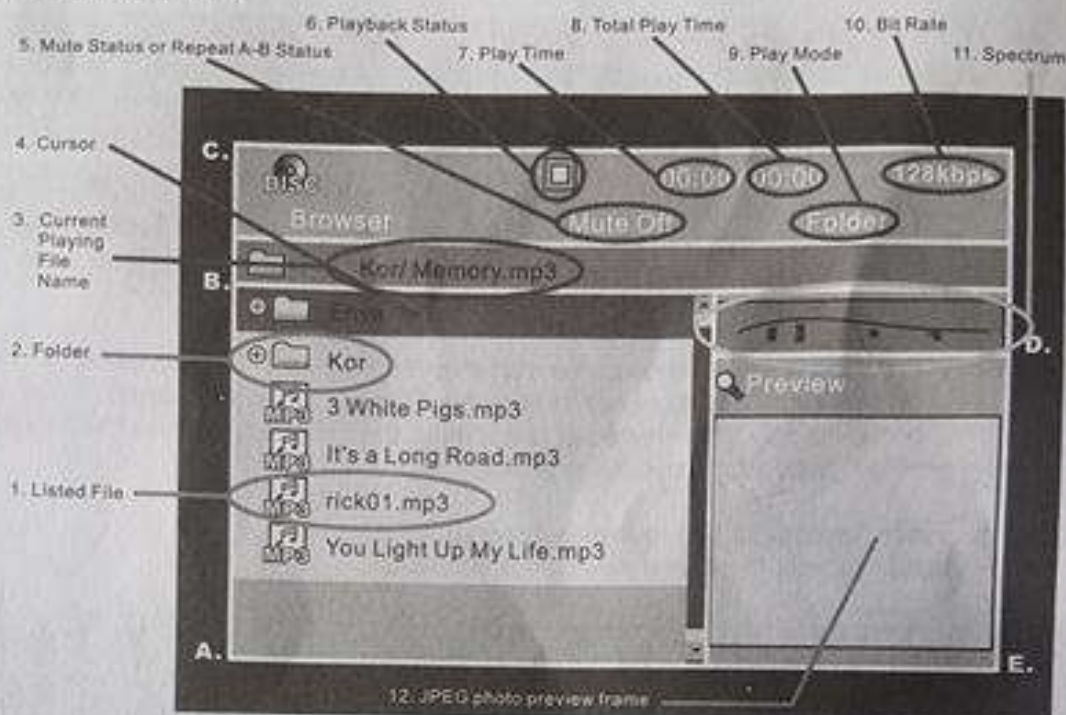
1. Show the name of a MP3 Song

2. Show the name of a folder in the disc

3. List the song being selected for playing

4. A moving cursor to show user selection

5. Muting Status or Repeat A-B status

6. Playback status: Stop, Pause, ...etc

7. Current play time of the playing song

8. Total playing time of the playing song

9. Play mode:
   Random, Single, Repeat one, Repeat Folder, Folder

10. Bit rate for encoding & decoding the MP3 song

11. Spectrum or Resolutions of JPEG photo

12. JPEG photo preview frame

Select & Play the MP3 Song

Use the Cursor keys on the remote control unit, navigate inside File Navigation Window to highlight the target song and press **ENTER** key to start playing the selected file.

Play back the JPEG photo

Directly input the file no. by pressing **PBC TITLE** on remote control unit, and input the track no. by numeric keys, then press **ENTER** key to preview the JPEG photo in the preview frame.

Use the Cursor keys on the remote control unit, navigate inside File Navigation Window to highlight the file name and press **ENTER** key the unit will automatically starts the playback of the slideshow of the JPEG photos in the CD.

When in slideshow mode. Press **DVD MENU** key and TV screen will show the first 12 pictures in thumbnail mode. To view next page or previous of thumbnails, use ◄ and ► key to select ◄◄ or ►►respectively, then press enter to execute the page change.

In slideshow mode or thumbnail mode. Press the **STOP** key to return to file browser.

PLAYING BACK

Play Mode for MP3 Disc

There are 5 mode of playing for MP3 disc: Random, Single, Repeat one, Repeat Folder, Folder.

Random	The files in the selected folder are play backed in random order. The playback will be non-stop.
Single	Only the selected file is played. Playback will be stopped after the selected song is finished in playing.
Repeat one	The selected song will be played repeatedly.
Repeat Folder	All the songs in the folder excluding sub-folder will be repeatedly played.
Folder	When last song in the folder is finished in playing, playback stops.

Use **REPEAT** key on the remote to change the play mode.
Note: Programming of MP3 song is not supported in the unit.

A-B Repeat Playback

A segment of MP3 music can be selected by user for this unit playing back repeatedly.

While playing the MP3 song, press the **A-B** key on the remote control unit to mark the beginning of the music. The music continues play backing. When the music segment ending arrives, press **A-B** key again the mark the segment end. Then the unit will start playing back the segment repeatedly. While A-B playback is effective, a press of **A-B** key again will cancel the **A-B** playback mode and the song continues its normal playing.

Play Mode for JPEG photo Disc

There are 5 mode of playing for Picture CD disc in slideshow mode: Random, Single, Repeat one, Repeat Folder, Folder.

Random	The pictures in the selected folder are displayed in random order. The playback will be non-stop.
Single	Only the selected picture is displayed. Playback will be stopped and return to thumbnail mode after the selected picture is finished in playing.
Repeat one	The selected picture will be displayed repeatedly .
Repeat Folder	All the pictures in the folder (disc) will be repeatedly displayed in slideshow.
Folder	When last picture is finished in playing, playback stops at thumbnail mode.

Use **REPEAT** key on the remote to change the play mode.
Noted: Programming of pictures on JPEG photo is not supported in the unit.

PLAYING BACK

Playing Back Picture CD

View the Full screen Slideshow of the pictures

Transition to

After inserting a picture, by default the unit will automatically starts the playback of the slideshow of the pictures in the CD.

View the thumbnail of the pictures
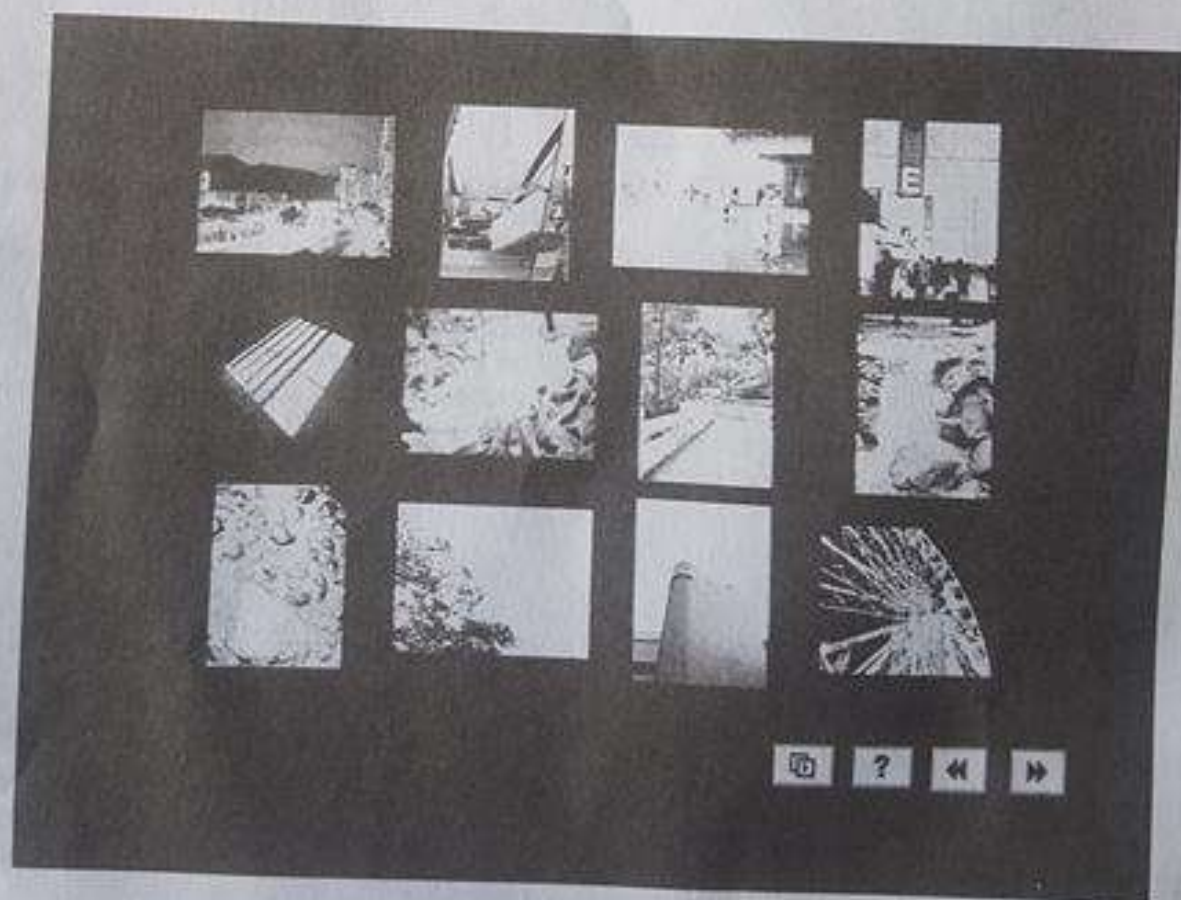
The pictures can be shown in thumbnail mode. Press **STOP** key and TV screen will show the first 12 pictures in thumbnail mode. To view next page or previous of thumbnails, use ◀ and ▶ key to select ▶▶ or ◀◀ respectively, then press enter to execute the page change.

To return to the start of slideshow mode, with cursor key on the remote control unit, select the bottom left most button on the screen. Press **ENTER**, the unit returns to slideshow mode in displaying the pictures.

To select a picture to start the slideshow, use ▲ and ▼ key to point the on-screen arrow cursor on the screen to the target picture and press **ENTER**.

Other Functions provided for Picture CD playback

There are various functions provided for viewing the pictures on the CD by this unit. In thumbnail mode, select the ▶▶ button and press **ENTER**, a help menu will be pop up and show the key to access various functions like changing the slide show transition effect, zooming a picture, rotating the picture, etc.

Remote Key Function	
Program	Transition Effect
Stop	Thumbnail Mode
▶▶I	Next Picture
I◀◀	Previous Mirror
☐	Vertical Mirror
☐	Horizontal Mirror
	↵

Note: Programming of picture playback is not supported in the unit.

Pause the picture playback in Slideshow

In slideshow mode, the picture can be kept still by pressing the **PAUSE** key and playback can be resumed by next pressing **PAUSE** key or **PLAY** key

Play Mode for Picture CD Disc

There are 6 mode of playing for Picture CD disc in slideshow mode:

Random	The pictures in the selected folder are displayed in random order. The playback will be non-stop.
Single	Only the selected picture is displayed. Playback will be stopped and return to thumbnail mode after the selected song is finished in playing.
Repeat one	The selected picture will be displayed repeatedly.
Repeat Folder	All the pictures in the folder (disc) will be repeatedly displayed in slideshow.
Folder	When last picture is finished in playing, playback stops at thumbnail mode.
Zoom	When playing Picture CD disc, press **ZOOM** key with remote control that will active the zoom function. On TV screen will shows "ZOOM 100%".

Zoom in:	After zoom active press DVD fast forward key (▶▶) for zoom in. 125% ─ 150% ─ 200%.
Zoom out:	After zoom active press DVD fast backward key (◀◀) for zoom out 100% ─ 75% ─ 50%
Zoom function release:	When zoom active press **ZOOM** key once again for release the zoom function.
Rotate the showing picture:	Direction key (▶) for Rotate Clockwise, Direction key (◀) for Rotate Contra rotate, Direction key (▲) for Vertical Mirror, Direction key (▼) for Horizontal Mirror.

Use **REPEAT** key on the remote to change the play mode.

PLAYING BACK

Playing Back MPEG 4

While a MPEG 4 disc is inserted into the unit and read the content successfully the File browser is displayed on the TV screen. Please refer to more information about the browser in previous General Operation section.
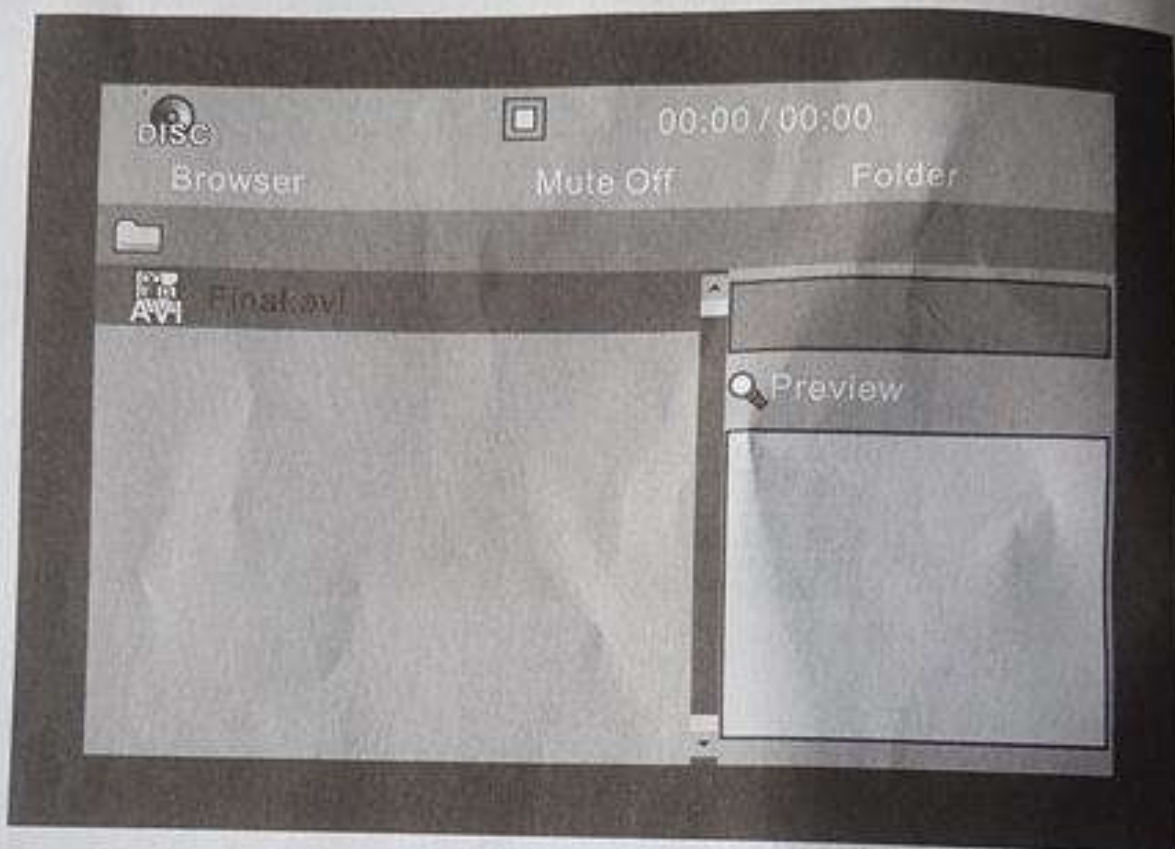
Select & Play the MPEG 4 file

Use the Cursor keys on the remote control unit, navigate inside File Navigation Window to highlight the target MPEG 4 file and press **ENTER** key to start playing the selected file.

Play, Pause, and Stop a MPEG 4 file playback

Refer to the previous section GENERAL OPERATION.
When the movie playback is stopped, it will return to the File Browser screen.

Fast Forward / Backward

During the disc is playing, a press of ►► key increases the forward playing speed. Subsequent press of ►► key further increases the speed according to the cyclic order of 1x (normal)► 2x► 4x► 8x► 16x► 32x► 1x(Normal speed). For fast playback rewinding ◄◄ instead of the ►►. It performs same as ►► but in reverse playing direction.

Note 1: No sound output will be produced in this mode of operation.
Note 2: Step forward / backward frame by frame function is not supported by this unit

Slow Motion Forward

During the playback in paused state, a press of ►► key starts the forward playback in slow motion. Subsequent press of ►► key further decreases the speed according to the order of Pause-> 1/2x-> 1/4x-> 1/8x-> 1/16x-> 1x(Normal).

Note 1: Mind the playing speed. Subsequent press of ►► key will finally result in the state of normal forward playing speed. Any further press of ►► results fast forward instead of slow motion playback.

Note 2: No slow backward function is provided by this unit.

Note 3: No sound output will be produced in this mode of operation.

Skip Forward / Backward

During the MPEG 4 file is playing, press ►►I to advance the MPEG 4 file playback to the beginning of next file and press I◄◄ key to move the playback to the beginning of previous file.

Track Search

During playing any track, press the target track number with the number keys on the remote control unit will trigger the pop up of the selection menu and the target track number can be directly input.

New input will be processed automatically completed by the unit after a short timeout or user can press enter directly to end the number input process. Playback of target track or time will starts if there is no error in the input.

Time Search

During playing any track, pop up the selection menu on the TV screen with **DISPLAY** key. Play Time Info item will be highlighted by default for time search.

Use the ▲ and ▼ key to select the file play time display mode. Then input directly the target file play time with the number keys on the remote control unit.

New input will be processed automatically by the unit after a short timeout or user can press enter directly to end the number input process. Playback of video at target play time will start if there is no error in the input.

Note: Input is not accepted in the File remaining time mode for time searching.

PLAYING BACK

Repeat Track Playback

While in the playback mode, press the **REPEAT** key on the remote control unit to select one of the repeat modes according to the cyclic order:

Folder – Repeat Single – Repeat One – Repeat Folder – Random – Folder

Folder	When last file in the folder is finished in playing, playback stops.
Random	The MPEG 4 files in the selected folder are play backed in random order. The playback will be non-stop.
Single	Only the selected MPEG 4 file is played. Playback will be stopped and return to File Browser after the selected file is finished in playing.
Repeat one	The selected file will be played repeatedly.
Repeat Folder	All the files in the folder will be repeatedly played.

Selected repeat mode will be shown on the on-screen selection menu.

A-B Repeat Playback

A segment of music or movie can be selected by user for this unit playing back repeatedly.

While in the playback mode, press the **A-B** key on the remote control unit to mark the beginning of the music or movie. The music or movie continues play backing. When the segment ending arrives, press **A-B** key again the mark the segment end. Then the unit will start playing back the segment repeatedly. While **A-B** playback is effective, a press of **A-B** key again will cancel the **A-B** playback mode and the music or movie continues its normal playing.

Audio Selection

While in the playback mode, press the **AUDIO** key on remote control unit and the available audio channel options from the MPEG 4 file will be shown in a list box under the audio item in the selection menu. Press **AUDIO** key repeatedly or press ▲/▼ and **ENTER** to select the preferred audio channel.
Note:
- Multi-Audio support depends on the MPEG 4 file creator.
- After pressing the **AUDIO** key, selected audio may not be produced immediately in some scenes.

Playing Back VCR

General operation

1. Press the [STANDBY/On] button to power up the unit,
2. Load the desired Video Tape into VCR deck,
3. Playback VCR Video Tape, press once of the PLAY/PAUSE [▶ II] button on Front Panel or the VCR PLAY [▶] button on remote control handset for start the playback video tape,
4. Pause VCR playback, press once of the PLAY/PAUSE button in playback mode for pause the VCR playback,
5. Stop the VCR playback, press once of the VCR STOP/EJECT or front panel STOP/EJECT button for stop the video tape playback in playback mode,
6. Playback forward fast or rewind, press the [▶▶] or [◀◀] buttons of the remote control respectively,
7. Eject video tape, press the remote control or on front panel STOP/EJECT button to unload the video tape,

Manual Recording

1. Press the **STANDBY** key to turn on the unit.

2. Press the **EJECT** key to open the tray, "OPEN" will appear on the display. Insert a DVD+R or DVD+RW with the label side facing up on the disc tray.

3. Press the EJECT key again to close the disc tray. "LOADING" will appear on the screen. Press the SOURCE key repeatedly to select the desired recording source. To set up the recording options, see the page 49.

4. To start the recording, press the **RECORD** key; "RECORDING" will appear on the screen together with the recording information pop up menu. Press **DISPLAY** key to remove the pop up menu. The unit will start recording after a few seconds.

5. To stop recording, press the **STOP** key; "Stop Recording" message box will appear on the screen and the unit will stop recording after a few seconds.

NOTE 1: The length of the recording is determined by the disc capacity and the recording quality as described on the page 49.
NOTE 2: Press the **PAUSE/STEP** key to pause recording. Press the **RECORD** key to resume the recording.

One Touch Recording (OTR)

1. Press the **STANDBY** key to turn on the unit.

2. Press the **EJECT** key to open the tray, "OPEN" will appear on the display. Insert a DVD+R or DVD+RW with the label side facing up on the disc tray.

3. Press the **EJECT** key again to close the disc tray. "LOADING" will appear on the screen. Press the SOURCE key repeatedly to select the desired recording source. To set up the recording options, see the page 49.

4. To start the recording, press the **RECORD** key; "RECORDING" will appear on the screen together with the recording information pop up menu. Press **DISPLAY** key to remove the pop up menu if wanted. The unit will start recording after a few seconds. Press the **RECORD** key again and the unit will record for 30 minutes. Repeatedly press the **RECORD** key to increase the recording time by 30 minutes each press. To stop recording, press the **STOP** key; "Stop Recording" message box will appear on the screen and the unit will stop recording after a few seconds.

Note: The length of one-touch recording is determined by the disc capacity and the recording quality as described on page 49

Recording Setup Menu

To enter the recording set up menu, press the **SETUP** key on the remote control. Select the **INIT SETUP** option and press **ENTER** key. Select the Recording Set Up page and use the navigation key ◀ , ▶ to select the desired options.

Recording Quality :

- Mode :
Select the recording quality:

HQ -   Highest Quality - 60 minutes,

SP -   Standard Play - 120 minutes,

LP -   Long Play - 180 minutes,

EP -   Extended Play - 240 minutes,

SLP -   Standard Long Play - 360 minutes,

SEP -   Super Extended Play - 480 minutes.
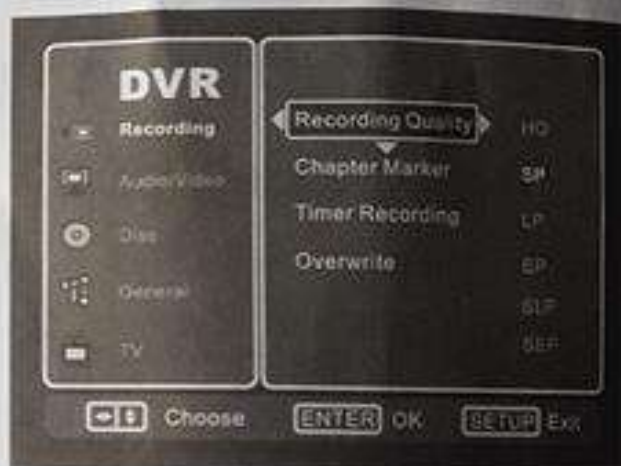
-Chapter Mark :

5 Min –   a chapter mark will be inserted automatically in every 10 minutes interval.

10 Min –   a chapter mark will be inserted automatically in every 20 minutes interval.

15 Min –   a chapter mark will be inserted automatically in every 30 minutes interval.

OFF –   Turn off the Chapter Mark function.

· **Timer Recording :** Please see Page 51.

- **Overwrite :** Set the overwrite On/Off

RECORDING

Dubbing (Disc to Tape / Tape to Disc)
To Copy from Disc to Video Tape

1. Load the desired Disc. (copy protected disc & Audio CD is not allow to copy).

2. Insert a recordable Video tape.

3. Select the desired DVD chapter of the disc and press the VCR [RECORD] button of the remote control or Press the front panel COPY switch for select the [OK] to confirm the copy procedure.

4. To exit copy, press the VCR [STOP] button.

5. To play back the recorded content, Press the VCR [◄◄] button of the remote control to go back to the beginning of the recorded track. Press the PLAY button to play the recorded portion.

To Copy from Video Tape to recordable DVD Disc (DVD(RW) or (R))

1. Load the desired Video tape. (copy protected Video tape not allow to copy).

2. Insert a recordable DVD disc.

3. Search the beginning of the content that needs to record by VCR [PLAY] with [►►] & [◄◄] button and press the DVD [RECORD] button of the remote control or Press the front panel COPY switch for select the [OK] to confirm the copy procedure.

4. To exit copy, press the DVD [STOP] button.

5. To play back the recorded content, Press the DVD [PLAY] button of the remote control and select the recorded title.

Timer Recording (OSD)

Before setting the timer record, make sure the clock is set (see page 29).
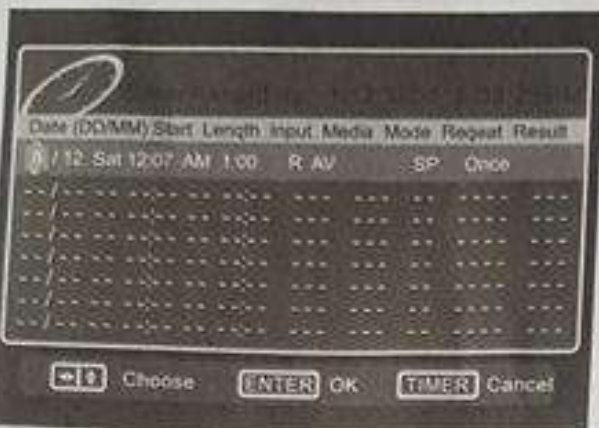
Press the **TIMER PROG** key and the Timer Recording Programs box will appear on the screen.

Use Navigation keys ▲ , ▼ , ◄ , ► to select and input the options, then press the **ENTER** key to confirm the program entry (for Time and Date entries, Number keys are recommended). At the time of inputting the options, the input data will also be displayed on the VFD.

Mm/Dd: Set the desired date for the current program (Month/Date).

Start: Set the desired starting time.
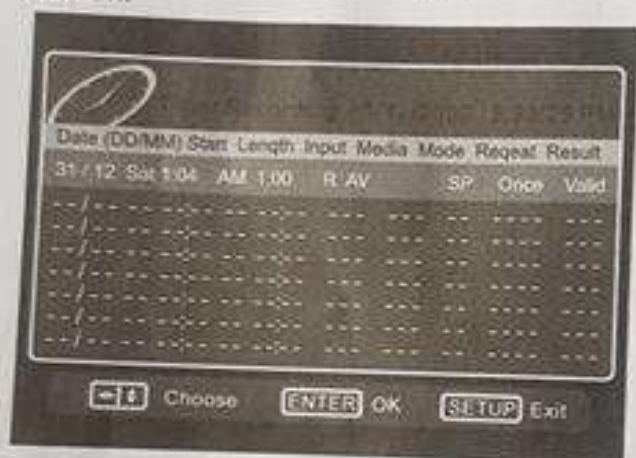
Length: Set the record time length.

Input: Select the input source for the recording.

Media: Select the record media (VCR or DVD).

Mode: Select the record quality (HQ, SP, LP, etc.).

Repeat: Select the desired repeat mode for the recording (Once, Daily, Weekly and Mon-Fri).

If the entry is incorrect or invalid, an "Error" message box will be appeared on the TV screen and "ERROR" will show on the VFD display.

When the error sentence occurs, you need to input the setting again and the incorrect setting options will be high-lighted.

Press the **TIMER PROG** key to exit the Timer recording program screen.

Note:
- Make sure a blank DVD+R or DVD+RW with enough space is inserted into the unit.
- During recording, press **STOP** key to stop recording.
- The length of the recording is determined by the disc capacity and recording quality as described on page 49.

This section introduces the basics of DVD editing, and explains edit functions for the recording on a disc.

Access to Edit Menu for DVD+RW/R

Insert a DVD+RW or DVD+R disc with recording to the recorder, after loading the disc; the Title Menu will appear automatically. Use the Title Menu to access available editing functions.

Also playing a DVD+RW/R disc or in input mode, press DVD MENU or PLAY key to bring out the Title Edit Menu and to access available editing functions.

The available editing functions will change depending on the type of disc and where the menu is accessed

Disc Edit

Access the Disc Edit Press DVD MENU or PLAY key to enter the first page of the title menu.

Erase Title:

Deletes the currently selected Title or Titles. The functionality of this option is different with DVD+R & DVD+RW discs. With DVD+RW discs, the title is erased and the disc space freed for use for subsequent recordings. When a title is erased on a DVD+R disc, however, the disc space cannot be reclaimed – the title is essentially "hidden" and the disc space still used.
- Select one title by ▲ / ▼ keys.
- Then select **Erase** in the Edit Menu and press **ENTER** key.
- Select **Erase selected title(s)** to erase selected title(s) .
- Select **Erase all titles** to erase entire recording on this disc.
- Select **Cancel** to cancel.

Select :

User can select multi-title for editing.

Rename :

For user rename the own naming of the title. Enter function by press "**ENTER**" on Rename.

Chap Edit :

Add Mark

Chapters are a familiar feature on DVD discs. They provide a convenient way to navigate to a particular scene by dividing the disc into sections. Your DVD Recorder can be set to automatically add Chapter Markers to your recordings. Alternatively, you can add your own Chapter Markers, dividing a title into sections that you specify according to your requirements.
- Select a title that you want to edit by ▲ / ▼ keys.
- Then select **Chapter Edit** and press **ENTER** key to enter Chapter Edit Menu.
- Select a chapter that you want to edit and Select **Add Mark** in this menu to enter edit marker status.
- The selected chapter will be played. While playing, press **ENTER** key to add mark. Press **STOP** key to return.

EDITING

Delete Mark
- Select a title that you want to edit by ▲/▼ keys.
- Then select **Chapter Edit** and select **Del Mark** in this menu to delete this chapter.

Hide Chapter:
If you wish to "edit out" a chapter from a recording, use the HIDE CHAPTER function.
If the segment of video you wish to remove is not already defined as a chapter, you must first add Chapter Markers at the **beginning** and **end** of the section, then use the Hide Chapter function to remove the new chapter. After a chapter is hidden, it will be invisible during playback as if it did not exist on the disc, even though it is still using space on the disc.
- Select a title that you want to edit by ▲/▼ keys.
- Then select **Chapter Edit** and press **ENTER** key to enter Chapter Edit Menu.
- Select a chapter that you want to edit and Select **Hide** in this menu to hide the chapter.

Unhide Chapter:
Recall from the previous section that when a chapter is HIDDEN and invisible during playback, it in fact still exists on the disc. The Unhide Chapter function provides a way to viewable again.
- Select a title that you want to edit by ▲/▼ keys.
- Then select **Chapter Edit** and press **ENTER** key to enter Chapter Edit Menu.
  Select a hidden chapter and select **Unhide** in this menu to show the chapter again.

Set Index Picture :
The Index Picture shows a thumbnail image representing each title on the disc. By default, this image is taken from the first frame of the recording. However, you may change this image to that of any frame contained in the title.
- Select a title that you want to edit by ▲/▼ keys.
- Select **Index Picture** in the Edit Menu and press **ENTER** key to enter index picture setting status and the selected title will be played.
- While playing, press **RECORD** key to set the current frame as the index picture.
- Press **STOP** key to return to title menu.

Divide Title :
You can divide a title into two titles. For example, if a title contains two football matches, you can divide the title where the first match ends.
- Select a title that you want to divide by ▲/▼ keys.
- Select **Divide title** in the Edit Menu and press **ENTER** key to enter divide title status and the selected title will be played.
While playing the disc, press **RECORD** key to set the divided point. Press **STOP** key to return.

Finalize:
This option is only used with DVD+R discs - which **must** be FINALIZED before being used in a standard DVD player. Unlike DVD+RW discs, DVD+R discs cannot be moved back and forth between the recorder and standard players. You must finish all recordings on a DVD+R and finalize the disc before it will be usable on any other player.
Once a DVD+R disc is finalized, no further recordings can be made on the disc, and no edits can be performed.
- Select **Finalize** in the Edit Menu and press **ENTER** key.
- Confirm prompt will appear on the screen.
- Select **OK** in this menu to finalize the disc. Select **Cancel** in this menu to cancel.

Protect a Title:
- Select **Protect** in the Edit Menu and press **ENTER** key.
- Confirm prompt will appear on the screen.
Select **OK** in this menu to protect entire recording on the disc. Select **Cancel** in this menu to cancel.

Mono/Stereo Program

If analog stereo sound signal in TV broadcasting program is detected, you can select Stereo or Mono sound by pressing the **AUDIO** button on the remote control repeatedly.

NICAM Program

This unit supports the decoding of NICAM (Near Instantaneous Companding Audio Multiplex) digital signal in broadcasting program. If NICAM digital information is received, sound output can be selected by user according to the type of received broadcast as follows by pressing the **AUDIO** button on the remote control unit repeatedly.

- When NICAM stereo is received, you can select Stereo or Mono. If the stereo signal is weak, it switches to Mono automatically.
- When NICAM dual (bilingual) is received, you can select **Dual/Main** (Main audio channel for Primary language), **Dual/Sub** (Sub-audio channel for Secondary languag) or **Dual** (Main + Sub audio channel). If the NICAM signal is weak, it switches to Mono automatically.

Note: NICAM signal recording is not supported in Timer recording. Mono signal will be recorded into recording medium.

POWER FAILURE

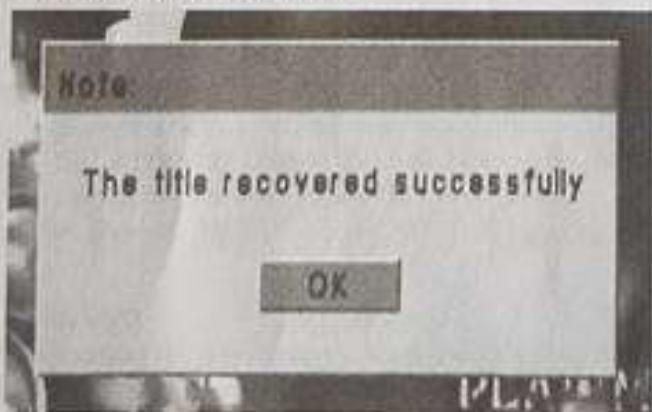## Automatic Restore Technology System (A.R.T.S.)

When AC Electric Power fails accidentally , this recorder will resume to last operating status as soon as power supply resumes. For example, if the unit is in the Timer mode (standbying for the preset program time), it will restores to Timer mode after the power is lost and then reapply. The Timer programs and the Real Time Clock (RTC) will be kept for at least 2 days during the power loss / failure. But if power failure happens longer than two days, then user should check or may need to correct both the Real Time Clock and the Timer program records.

In case the power failure happens during Timer recording is taking place, this recorder will firstly try its best to recover the recorded title before continuing the remaining recording (if program time does not expires) or entering Time mode (waiting for next preset program).
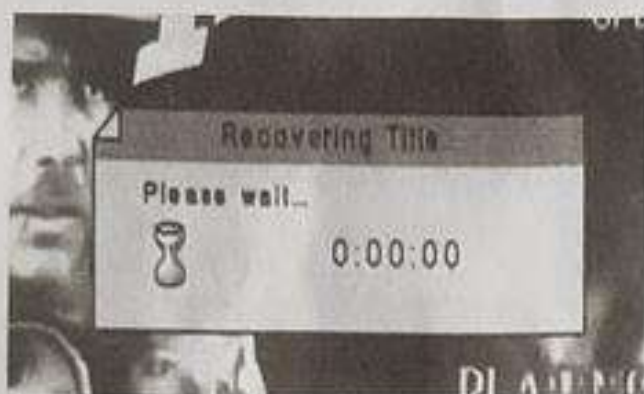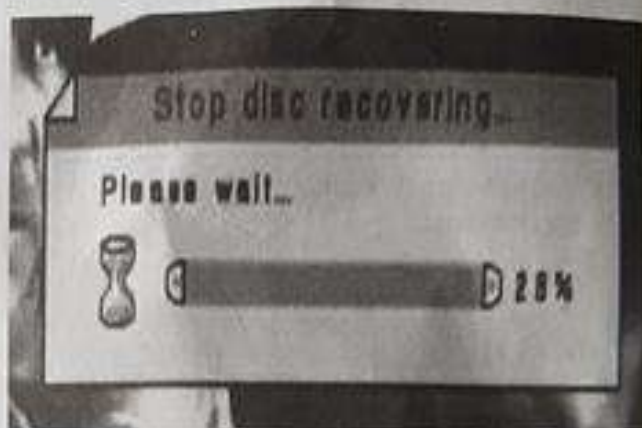

Timer Recording:
When the power failure occurs during the timer recording, the unit will recover automatically and a " Recovering Title " message box will be displayed on the screen.

After the unit collected all the required information and data, it will start the recovery process.

Once the recovery process has successfully completed, a successful recovery message note will be displayed on the screen. If the power resumed during the timer program is still in valid stage, the unit will resume to the timer recording program mode and continue recording until the program ended.

Normal Recording:
When the power failure occurs during the normal recording, the unit will recover automatically and the recovery process will be the same as the Timer Recording. However, the only difference is the unit will resume to the normal Stop mode after recover successfully from the power failure.

This unit provides a feature that is implemented specially to notify user of the power failure having been taking place. After power fails and then resumes, the clock time shown on the front panel display in Timer mode or Standby mode will blink until user manually pressing Timer key or Standby key to wakeup the unit.

REFERENCE

Glossary

AC-3
Audio Coding 3, also known as Dolby Digital; a multi-channel digital audio compression system from Dolby Labs.

Analog
Sound that has not been turned into numbers. Analog sound varies, while digital sound has specific numerical values. Analog sound is available when you use the red and white audio jacks on your equipment. These jacks send audio through two channels, the left and right.

AUDIO OUT Jacks
Jacks on the rear of the DVD Recorder that send audio to another system (TV, Stereo Receiver, etc.).

A/V
Audio/Video.

CD
Compact Disc.

Chapter
A part of a Title.

COAX (coaxial) jack
Sends digital audio to a Stereo Receiver, allowing you to adjust the volume at the Receiver. The Receiver must have a coaxial in jack. This connection provides the 5.1 channel surround sound as heard in movie theaters.

COMPONENT VIDEO Jacks
The OUT jacks on the rear of the DVD Recorder send high-quality video to a TV that has Component Video In jacks. The IN jacks allow the Recorder to receive high-quality video from other equipment, such as a DVD Player.

Digital
Sound that has been converted into numerical values. Digital sound is available when you use the COAX (coaxial) or OPTICAL DIGITAL AUDIO OUT jacks on the Recorder. These jacks send audio through multiple channels, instead of just two channels as analog does.

Dolby Digital
A surround sound system that provides 5.1 channel sound as used in movie theaters.

DV
Digital Video. A video camera format for high-quality video, different from MPEG. It is converted into MPEG 2 video when recorded on DVD+RW

DVD
Digital Versatile Disc.

DVD+R
DVD+Recordable. These Discs can be recorded and finalized only once.

DVD+RW
DVD+ReWritable. These Discs can be recorded on repeatedly.

REFERENCE

I.LINK
Also known as 'FireWire 'and 'IEEE 1394.' A cable for transfer of high bandwidth digital signals as used by Digital Video camcorders.

Index Picture Screen
A screen that gives an overview of a DVD+RW or DVD+R. An Index Picture represents each recording.

Letterbox
Widescreen format; a TV aspect ratio setting (4:3). Displays the video in full-width, with black bars at the top and bottom of the TV screen. This format is similar to seeing a movie in a theater. If the Disc does not include a letterbox format, selecting 4:3 letterbox may have no effect. (For example, some DVDs are two-sided, with one side playing in widescreen format and the other side playing in a normal format.)

MPEG
Motion Picture Experts Group. A collection of compression systems for digital audio and video.

NTSC
See TV system. NTSC is the most common color system in the U.S

OSD
On-screen Display. The menus by which you can control the DVD Recorder via the TV screen

OPTICAL Jack
Converts electrical signals into optical signals before sending the audio to the Stereo Receiver. Optical audio is not prone to external electrical influences and has less noise, which reduces adverse effects on external equipment. Be sure to keep the protective cap on the jack when the jack is not in use. This keeps dust out of the jack.

OTR
One-Touch Recording. Start a timed recording by pushing just one key; select the switch-off time in intervals of 30 minutes.

PAL
See TV system

Pan & Scan
A TV aspect ratio setting (4:3). Displays the video with full-height picture, with one or both sides of the picture trimmed to fit on your TV screen. Some movie companies refer to this as "reformatting the picture
to fit your TV screen."

PBC
Playback Control. A special feature on a Video CD or Super VCD that enables interactive use.

PCM
Pulse Code Modulation. A digital audio encoding system.

RGB
Red-Green-Blue. A top-quality video connection where red, green and blue components of a video signal are carried through separate wires. This also is referred to as the component video connection.

REFERENCE

SECAM
See TV system

S-Video
Produces a clearer picture by sending separate signals for the luminance and the color. If you connect the supplied S-Video cable, you will not need to use the supplied yellow video cable. You can use S-Video only if your TV has an S-Video In jack.

Title
A unit of recording on a Disc.

TruSurround
A system that simulates multi-channel sound via a two-channel connection (audio left and right). This allows you to enjoy multi-channel sound if your Stereo does not have a multi-channel decoder.

TV system
There are various systems for transmitting television signals, for example PAL, SECAM, and NTSC. NTSC is the most common color system in the United States of America. The TV system is country dependent. The Recorder automatically selects the right TV system.

VCD
Video Compact Disc

VIDEO OUT Jack
Jack on the rear of the DVD Recorder that sends video (picture) to a TV.

Widescreen
A TV aspect ratio setting (16:9). Displays the video appropriately when you connect the DVD Recorder to a widescreen TV.

About MPEG 4
MPEG is the abbreviation of the Moving Picture Experts Group, which belongs to the family of ISO/IEC standards (International Organization for Standardization and International Electrotechnical Commission).
MPEG-4 is a compression technology for Interactive Multimedia System.
- This player supports the bit streams that encoded in ISO MPEG-4 compliant. The visual profile can support from Simple Profile (SP) level 0 to level 3 and Advanced Simple Profile (ASP) level 0 to level 5, with maximum bit-rate = 8000 Kbps.

SPECIFICATIONS

CD Laser
Wavelength: 760-810nm

DVD Laser
Wavelength: 653-660.8nm

Laser Power:
Class 1

Recording System
DVD+VR format

Recordable Discs
12cm (5") 4.7GB DVD+RW
12cm (5") 4.7GB DVD+R

Recording Time
HQ (High Quality)60 min
SP (Standard Play) 120 min
LP (Long Play) 180 min
EP (Extended Play) 240 min
SLP (Super Long Play) 360 min
SEP (Super Extended Play) 480 min

Playable Discs
CD-Audio (CD-DA) disc
Video CD (VCD) disc
Super VCD (SVCD) disc
Photo CD
Picture CD
JEPG disc
MP3 disc
CD-R/CD-RW (any one of above formats) disc
DVD-Video disc
DVD+RW/DVD+R (precorded) disc

Frequence Range:
48.25 – 855.25

Video Output System
NTSC, 525 lines, 60 fields
PAL, 625 lines, 50 fields

Composite Video IN / OUT
CVBS: 1 Vpp, 75 ohm

S-Video IN / OUT
Y: 1 Vpp, 75 ohm
C: 0.3Vpp, 75 ohm

Audio Line (2ch) IN
FS: 2Vrms (1KHz, 0dB)
Input Impedance: 20K ohm

Audio Line (2ch) OUT
FS: 1Vrms (1KHz, 0dB)
Output Impedance: 470 ohm
Load Impedance: 10K ohm

Operating Temperature:
+5° to +30°C
Operating Humidity Range:
5% to 80% (no condensation)

Power supply
AC 90-230V, 50/60 Hz

Power consumption
Operating: 35W
Standby: <4W

Weight:
5.7kgs
Dimensions:
430 (L) x 329 (W) x 98 (H) mm
(excluding protrusions)
Weight and dimensions are approximate.

Specifications are subject to change without notice.

Trouble Shooting Guide
PLAYBACK

The DVD Recorder Does Not Power On
- The AC Power cord may be loose or not plugged in. Make sure the power cord is secure in the AC socket and the connector on the back of the player.
- The unit may be in Standby Mode. Turn the player on with the remote STANDBY key.
- There must be a pause between powering the unit down and back on of a few seconds.

A Specific Disc Does Not Play
- The disc may be dirty. Try cleaning the disc.
- Make sure the disc is not in upside-down
- The REGION CODE of the disc may not match that of the player. In this case, the disc cannot be used.

The Remote Control Does Not Function
- Make sure you're aiming the remote directly at the player's remote sensor, located in the front display.
- Make sure there are no obstacles between the remote and the player.
- The batteries may be drained. Try changing the batteries in the remote.
- You could be using the remote too far away. Try within 4 meters of the player.

There is No Picture on the TV Screen
- Make sure the connections from the player to the TV are secure.
- Verify that the TV's channel is set to match the video input you're using. Refer to the TV's documentation.
- On most TVs the "Aux In", "Video In" or "A/V In" channel should match the video input connector.
- If you're using the S-Video connector, the TV may have a separate input channel for this type.

The Picture Appears Stretched or Squeezed
- The Video Aspect Ratio may be set wrong for your Television type. Try changing the ASPECT setting.

The Disc Doesn't Eject
- If the recorder is in Standby Mode, the disc will not eject. Turn the recorder on with the Remote Control and then eject the disc.

Tape won't play
- Make sure your DVD/VCR is connected properly, and tune your TV to the Video Input Channel that corresponds to the jacks you used to connect the TV to the DVD/VCR.
- Try ejecting the tape and reinserting it.
- Make sure the tape is not broken.
- Make sure the DVD/VCR is not in pause mode. Press PAUSE or PLAY to return to normal playback.

Time counter disappears during searching
- This is normal if the tape reaches a section where there is nothing recorded on it.
- Try ejecting the tape and reinserting it.

I forgot my password
- Enter "123456" as your password, this is the default password. Make sure to change it to a new one and lock the recorder again before you turn it off.

Distorted Picture when Connected to a VCR
- This DVD Player is built with Macrovision copy-protection. This will distort the signal when used with VCRs. Connect the player directly to the TV.

No sound from external decoder
- Make sure SPDIF/RAW or SPDIF/PCM is properly selected in setup menu according to the decoding capability of equipment connected to Digital / Optical output jack.

No sound from external decoder when playing VCD / recorded DVD titles
- The connected decoder may not support the decoding of MPEG data stream. Select SPDIF/PCM in setup menu to output the converted 2ch PCM signal from the Digital / Optical output.

RECORDING

Recording Will Not Start
- The Video Input Source may be protected with MacroVision Copy Protection.
- The disc may already contain recordings of a different TV System type - PAL or NTSC. If the disc already contains a PAL recording, you cannot record from an NTSC source, and vice versa.
- The maximum number of titles - 48 - may have been reached.
- If the disc is a DVD+R, it may already be FINALIZED.

The Disc Cannot be Erased
- The disc is not a DVD+RW disc.
- The disc may be dirty. Try cleaning the disc.

Recordings Do Not Play on Other DVD Player
- If the disc is a DVD+R, make sure it has been FINALIZED.
- The DVD Player may not support DVD+R/RW discs.

Timer Recording Does Not Start.
- The Time/Date is invalid or conflicts with another schedule.
- The Time/Date settings of the Recorder are incorrect. Set the Time/Date in setup.
- The specified Video Input Source is unavailable.
- The disc is out of space.

Tape won't record
- Make sure there is a recordable tape in the DVD/VCR
- Make sure the tape's safety tab is intact and has not been removed.

Hidden Chapters Cannot be Edited.
- You must select PLAY FULL TITLE from the EDIT MENU to have access to Hidden Chapters.

$C \in$

Produced for:
ASDA Stores Ltd
Leeds
LS11 5AD

Revision 1

This symbol is known as the 'Crossed-out Wheelie Bin Symbol'. When this symbol is marked on a product, it means that the product should not be disposed of with your general household waste. Only discard electrical/electronic items in separate collection schemes, which cater for the recovery and recycling of materials contained within. Your co-operation is vital to ensure the success of these schemes and for the protection of the environment.

We reserve the right due to possible changes to design to alter the contents of this instruction manual without prior notice.

152-05850-0394