



Instruction Manual

MPEG-4 Player 8883MPG4



Specifications

MPEG-4 PLAYER/OUTPUT/ACCESSORIES

MPEG-4 PLAYER:

Power supply	~100-250V AC 50/60Hz
Watts	25W
Weight	2.6Kg
Dimension	430X48X310mm(W/H/D)
Signal system	PAL/NTSC/MULTI
Laser	Semi-conductor laser, wave length 650nm, 780nm
Frequency range	DVD liner sound: 48KHz pulse modulation 20Hz~22KHz 96KHz pulse modulation 20Hz~22KHz CD Audio frequency: 20Hz~22KHz
S/N	>90dB
Audio dynamic range	>85dB
Operation condition	Temp: 0°C~40°C, Operation state: Level surface

OUTPUT:

Video output	1.0V (P-P), 75 ohm
S-Video output	(Y) 1.0V (P-P), 75 ohm (C) 286V (P-P), 75 ohm
Analog audio output	2.0V (rms)
Component video output	(Y) 1.0V (P-P), 75 ohm 0.7V (P-P), 75 ohm

ACCESSORIES:

Instruction Manual 1
Audio Cable 1
Video Cable 1
Remote Control 1
Batteries (AAA) 2

● Designs and specifications are subject to change without notice.

Table of Content

- 1. Important Safety Instructions & Precautions 1
- Important Safety Instructions 3
- Precautions for Unit 3
- Precautions for Discs 4
- Unpack the MPEG-4 player 4
- 2. Technical Terms
- What's MP3 5
- What's ID-3 Information? 5
- What's MPEG-1? 5
- What's MPEG-2? 5
- What's MPEG-4? 6
- What's DivX Pro? 6
- What's Xvid? 7
- 3. Preparations before using
- Front Panel / Rear panel / VFD display 8
- Remote Control 9
- Connection – Connection to amplifier/audio system 10
- Connection – Connection to amplifier/audio system 11
- 4. MPEG-4 Operation
- MPEG-4 Operation 12
- 5. MP3 Operation
- MP3 Playback 13
- 6. MP3/AVI Files Program Play Operations 14
- MP3/AVI Files program Play Operations 14
- 7. Kodak Picture CD Operations
- Playing Kodak picture CD or JPEG files 15
- 8. Basic Operations of DVD/CD
- Direct select by number button 16
- Menu play for DVD discs 17
- Sound channels selection 18
- Basic Operations for MPEG-4/DVD/CD (Fast Play) 19
- Basic Operations for MPEG-4/DVD/CD (Slow motion Play) 20
- 9. Advance operations for DVD/CD/MP3
- Search Selection 21
- Memory Play 22
- Program Play 22
- 10. Setup Operations
- Main Menu/ General setup 23
- General setup/ Audio setup 24
- Audio Setup (Speaker Setup) 25
- Audio Setup (SPDIF Setup) 26
- Dolby Digital setup 27
- Channel Delay & Equalizer Setup 27
- Audio Setup (3D Setup) 28
- Video Setup (Progressive Scan Setup) 29
- Preferences Page 30
- 11. Maintenance & Troubleshooting
- How to handle discs 31
- How to protect discs 31
- Disc Compatibility 31
- TV System 31
- Discs Types 31
- Region code 31
- Copyright 31
- 12. Specifications
- Problems and Solutions 32
- MPEG-4 Player/Output/Accessories 33

Problems and Solutions

If a fault occurs, first check the points listed below before taking the set for repair. If you are unable to remedy a problem by following these hints, consult your dealer or service centre.

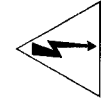
WARNING: Under no circumstances should you try to repair the set yourself, as this would invalidate the guarantee.

Problems	Cause	Solution
No power indication	Power plug not connected	Plug the power cord into the power supply
No picture	TV has not been set to the correct video input	Set correct TV video input format for receiving the player's output signals.
	Video cable not firmly connected.	Firmly insert the video cable ends to the related terminals.
	Audio cable not connected tightly	Firmly insert the audio cable ends to the related terminals.
No sound	Power of audio apparatus is off	Turn on the power of audio apparatus.
	Audio output setting is incorrect	Setup audio output correctly via the setup menu.
	Disc is dirty	Take out the disc and clean.
Picture distortion	Fast forward/backward is activated	The picture may be distorted during fast forward/backward playback.
Brightness unstable or noisy	Affected by anti-piracy circuit	Connect the player directly to TV.
	No disc	Load a disc.
The player does not work	Disc not compatible	Load a compatible disc (Check the disc format and its colour system).
	The disc is placed upside down	Check disc is put in correctly.
	The disc not put in the tray correctly	Check disc is put in correctly.
	Disc is dirty	Clean the disc.
	Player setting are incorrect	Change the setting via the setup menu.
	Parental lock is in effect	Disable this function or reset the rating level.
No response to key press	Interference of power wave or other factors such as static interference	Turn off the main switch or pull out the power plug, plug it in and turn on the power again.
	The remote control not pointed at the remote sensor on the front panel of the player	Point the remote control at the remote sensor.
Remote control does not work	The remote control is out of specified range	Make sure the remote control range within 7 meters to the remote sensor.
	Battery power exhausted	Replace with new batteries.

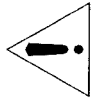
Note:

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

IMPORTANT SAFETY INSTRUCTIONS



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



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

- 1. READ INSTRUCTIONS** - All the safety and operating instructions should be read before the product is operated.
- 2. RETAIN INSTRUCTIONS** - The safety and operating instructions should be retained for future reference.
- 3. HEED WARNINGS** - All warnings on the product and in the operating instructions should be adhered to.
- 4. FOLLOW INSTRUCTIONS** - All operating and use instructions should be followed.
- 5. CLEANING** - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 6. ATTACHMENTS** - Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- 7. WATER AND MOISTURE** - Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
- 8. ACCESSORIES** - Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.



A Product and Cart Combination Should Be Moved with Care - Quick stops, excessive force and uneven surfaces may cause the product and cart combination to overturn.

9. VENTILATION - Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation, such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

10. POWER SOURCES - This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions. This player's power source is: AC100V-250V, 50/60Hz.

11. GROUNDING OR POLARIZATION - This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature: if you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

12. POWER-CORD PROTECTION - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where exit from the product.

13. NONUSE PERIODS - The power cord of the product should be unplugged from the outlet when left unused for long periods of time.

14. LIGHTENING - For added protection for this product during a lightening storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will present damage to the product due to lightning and power-line surges.

15. POWER LINES - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

16. OVERLOADING - Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

17. OBJECT AND LIQUID ENTRY - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

18. 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.

19. DAMAGES 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 as 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.
- f) When the product exhibits a distinct change in performance - this indicates a need for service.

20. REPLACEMENT PARTS - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

21. SAFETY CHECK - Upon completion of any service or repair to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

22. HEAT - The product should be situated away from heat sources such as radiators, heat registers, stoves or other products (including amplifiers) that produce heat.

Disc Compatibility

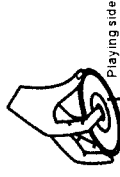
- Some DVD discs may have special requirements for playing, with which this player may not be compatible. Please refer to specifications on individual disc.

DISC TYPE	Content	Size	Total Play time
DVD	AUDIO/ VIDEO	12CM	About 2hrs. (Single side & single layer)
			About 4hrs. (Single side & double layer)
			About 4hrs. (Double side & Single layer)
CD-DA	AUDIO	12CM	About 74 minutes
MPEG-4	AUDIO/ VIDEO	12CM	Base on the picture's resolution.
MP3	AUDIO	12CM	About 300 minutes

How to handle discs

To handle, clean and protect discs

- Do not touch the playing side of a disc



- Do not stick any paper or glue strip on a disc.



How to clean discs

- Finger prints and dust on surface can affect the sound and picture quality. Clean discs regularly with a soft cotton cloth from disc centre to the edge



Discs types

This MPEG-4 player can play the following types of discs: Discs other than listed above cannot be played by this player. This player uses NTSC/PAL color system. It cannot play discs recorded with other systems, such as SECAM.

Region code

The region code for this player is 2, which indicates the applicable. The disc with code number other than 2 cannot be played on this player and screen will indicate the unconformity.

Copyright

According to the related law, DVD discs without proper authorization are not allowed to be copied broadcast cable broadcast, played publicly or rented. As DVD discs are anti-piracy the copied content is distorted.

TV system

Connect this player to a PAL/NTSC compatible TV.

How to protect discs

- Keep away from the direct sunshine or any heat source.
- Do not put discs in damp or dirty places, such as bathroom or near humidifiers. Store discs vertically in disc box and store in a dry place. Piling discs on to top of each other or excess weight load on disc box may cause the disc to warp.

Preference Page

** PREFERENCE PAGE **	
TV TYPE	PAL PAL MULTI NTSC
PBC	ON ON OFF
AUDIO	ENG ENGLISH
SUBTITLE	OFF ENGLISH OFF
DISC MENU	ENG ENGLISH
PARENTAL	ADULT 1 KID SAF 2 G 3 PG 4 PGB 5 PGR 6 R 7 NC 17 8 ADULT
DEFAULT	RESET

DISC MENU

- Choose the language for the player. On screen instructions and message.
- PARENTAL CONTROL**
- Allows the user to set a maximum rating of movie that can be viewed e. g. PG rating) Movies rated higher than the level set for the parental lock can not be viewed. The parental lock can only be changed by the keying in of a password. Note: For this function to operate correctly then the disc must have a rating single encoded on it. Not all DVD carry this rating single.

CHANGE THE RATING

- Press UP and DOWN button to select the desire level.
- Press (PLAY) button to confirm.
- Insert supervisor password.
- Press (PLAY) button to active the new setting.

SUPERVISOR PASSWORD

The supervisor password is "49540".



DEFAULT

This function use to restore the factory preset. Press arrow buttons to select this menu item and press (PLAY) to confirm.

Note:

All personal setting will be lost once you select the RESET menu.

PRECAUTIONS FOR UNIT

SECURITY

- Before operation check if the voltage of the unit is in line with the local voltage.
- Hold the plug to disconnect it from the mains outlet. Do not pull the power cord.
- When the plug of the unit is connected to the mains outlet, the unit will be still connected to AC even of the power is turned off.
- Disconnect the plug as soon as liquid or objects enter the unit. The unit cannot be used until being checked by experts.
- Do not open the cabinet. Laser rays employed by the unit may damage eyes. Any servicing should be done by qualified service personnel.

PLACEMENT

- Put the unit where ventilation is good enough to prevent overheating.
- Never put the unit in direct sunlight or near heat sources.
- Put the unit horizontally, never put any heavy object on the unit.
- To protect the pickup, do not put the unit where there is much dust. If there is dust on the pickup, use a cleaning disc to clean it.

Refer to the operation instructions of the cleaning disc you bought.

CONDENSATION

- Moisture will appear on the pickup lens in the following cases:
 - The unit is suddenly moved from a cold place to a warm place.
 - The unit is put in a room with a heater, or in cold air from an air-conditioner.
- Use the unit in a humid place. In these cases, the unit cannot work. Unload the disc and leave the unit on for one hour evaporates the water.

CLEANING

- Use soft cloth with a little neutral detergent to wipe the cabinet, panel and controls. Never use abrasive paper, polishing powder or solvent like alcohol and gasoline. When the TV screen become dirty, wipe it gently with a piece of soft, lint-free cloth. Do not scratch the surface of the screen.

PRECAUTIONS FOR DISCS

HANDLING DISC

- To keep the disc clean, do not touch the play sides of the disc.
- Do not attach paper or ape to the disc.
- Keep the disc away from direct sunlight or heat sources.
- Store the disc in a disc case after playback.

CLEANING DISC

- Before playback, wipe the disc outwards from the center with clean cloth.
- Do not use any type of solvent such as thinner, benzine, commercially available cleaners or anti-static spray.

TV SYSTEM

- The system can be set to PAL, NTSC or MULTI.

PBC

- PBC can be seated into on or off.
 - On: It means that the PBC function is enabled.
 - Off: It means that the PBC function is disabled.

AUDIO

- Choose the default language you would prefer to hear your DVD in. Note: Not all DVD are recorded in multiple languages.

SUBTITLE

- Choose the default you would prefer to read film subtitles in. Or select OFF to disable subtitles. Not all DVD offer subtitles in multiple languages.

PRECAUTIONS FOR DISCS

Using CD-R/CD-RW/DVD-R/DVD-RW

- CD-R / CD-RW / DVD-R / DVD-RW play capability of this unit may vary depend on quality of media, CD burner and application software

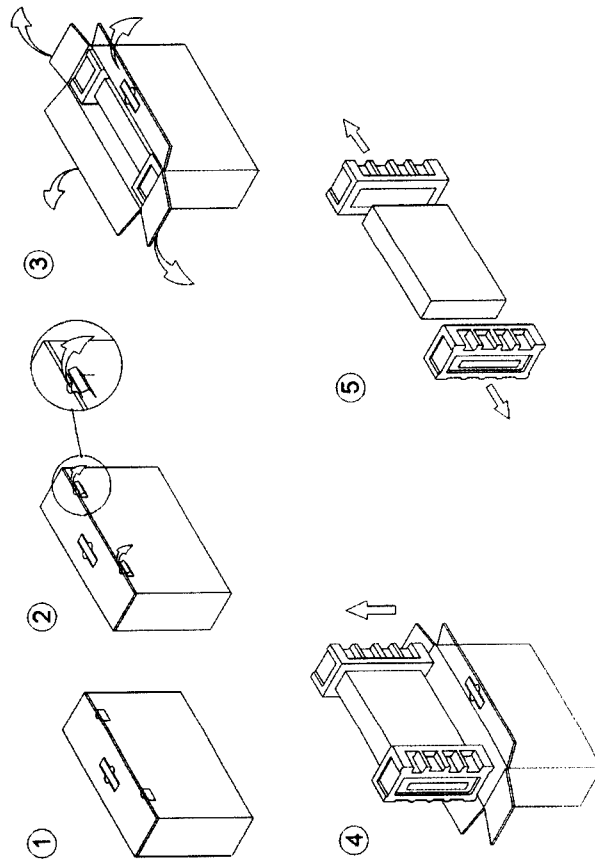
BATTERY CAUTIONS

BATTERY CAUTIONS

- Use only the size and type of batteries specified.
- Be sure to follow the correct polarity when installing the batteries as indicated in the battery compartment. Reversed batteries may cause damage to the device.
- Do not mix different types of batteries together (e.g. alkaline and carbon-zinc) or old batteries with fresh ones.
- If the device in not to be used for a long period of time, it is required to remove the batteries to prevent damage or injury from possible battery leakage.
- Do not try to recharge batteries which are not intended to be recharged; they can overheat and rupture. (Follow battery manufacturer's directions)
- Weak batteries can leak and severely damage the unit.
- Always remove batteries as soon as they become weak.
- The batteries of remote control handset may last approximately one year depending on how much the remote control handset is used.
- For the best performance it is recommended the batteries of remote control handset be replaced on a yearly basis, or when remote control operation becomes erratic.

Unpack the MPEG-4 player

Please follow the guide to unpack the MPEG-4 player.



VIDEO SETUP

-----VIDEO SELTUP PAGE-----

COMPONENT OFF OFF

 YUV

 RGB

TV-MODE INTERLACE

 P-SCAN

QUALITY

Components Video setup
The DVD player can be set as YUV and RGB video mode.

- YUV – set the DVD player to YUV mode. (Option for connect to the TV set with component video.)
- RGB – set the DVD player to RGB mode. (Option for connect to the TV set with SCART.)

TV-MODE

- Interlace
When select this item, the video output will be switched to interlace mode.

- P-SCAN
When select this item, the video output will be switched to progressive scan mode.

Progressive Scan

This player support progressive scan video output. You can switch the video output to progressive scan or interlace scan by press (Y.Pb.Pr) button on the remote control.

Remarks: Make sure your TV set support progressive scan signal input and correct connection before you switch to progressive scan video output.

ATTENTION:

If you have activated "PROGRESSIVE SCAN" and there is no picture on the screen, please press the "Y.Pb.Pr" button to get back into the normal Modus without "Progressive Scan". Your TV is not supporting "PROGRESSIVE SCAN"

VIDEO QUALITY SETUP		LOW	HIGH
SHARPNESS		00	MEDIUM
BRIGHTNESS		00	LOW
CONTRAST		NONE	HIGH
GAMMA			MEDIUM
			LOW
			NONE
HUE		00	
SATURATION		00	
LUMA DELAY		1T	0T
			IT

Video Quality

Sharpness
The picture can be set to high, Medium or Low. If the motion picture is light, please choose the low option if the motion picture is dark, please choose the high option.

Brightness
The picture can be set to a certain value to suit with the light of the environment or your preference.

Contrast
The item can be set to a certain value to suit with the light of environment or your preference. For setting the Brightness and the Contrast, press right button to enter the setup column, and press button to change the value. Press Left button to return to the setup menu.

Gamma
To changed the value of the gamma.

Hue
To changed the value of the hue.

Saturation
To changed the value of the saturation.

Luma Delay
The picture can be set to 0T or 1T to suit with the brightness of your TV. In normal cases set to 1T or 0T depending on your TV.

Audio Setup

3D Setup

The setup structure is as below.

** 3D PROCESSING PAGE **	
Dolby PRO LOGIC II	OFF
REVERB MODE	OFF
	CONCERT
	LIVING ROOM
	HALL
	BATH ROOM
	CAVE
	ARENA
	CHURCH

Dolby PRO-LOGIC II

- ON: Simulate 2 channel audio as 5 channel audio output.
 - OFF: Disable the function.
- Pro Logic II is a matrix decoder. It creates a 5.1-channel experience from a stereo input. Such as FM stereo and 2-channel Video movie clips.

There are 4 modes for your selection:

- **Music Mode**
Use for stereo music programs.
- **Movie Mode**
Use wherever Pro Logic was used before. It supported:
 1. 10ms second surround delay added for Haas effect.
 2. Auto balance enabled

- **Pro-Logic**

Use for movie clips.

- **Auto**

The player will automatic recognize and set the audio output to Movie/Music/Pro-Logic mode.

Reverb Mode

- To gain better surround effect, you can set this item feature into concert, Living Room, Hall, Arena or church suit with your personal hearing requirements.

Dolby Pro-Logic II configuration

** PRO LOGIC II CONFIG **	
Dolby PRO LOGIC II	AUTO ON OFF
MODE	MUS MOVIE PRO LOGIC AUTO
PANORAMA	OFF ON
DIMENSION	00 SIZE-3 SIZE-2 SIZE-1 SIZE0 SIZE1 SIZE2 SIZE3
CNTRE WIDTH	03 LEVEL 0 LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 LEVEL 5 LEVEL 6 LEVEL 7

Panorama

- ON: Enable the panorama effect.
- OFF: Disable the panorama effect.

Dimension

This item is use to change the sound's stereo effect. You can set to the suitable item when playing different media.

Centre Width

This item is use to change the sound's centre effect. You can set to the suitable item when playing different media.

What's MP3?

MP3 (MPEG Audio Player III) is the most popular digital code compression format. It keeps the original quality of CD though the compression rate is up to 1:10 to 1:20. MP3 files are so small, digital, cheap, and they can be easily to transfer so that lead the prevalent trend all around the world.

What's ID-3 Information?

ID-3 Information is another response-type information contained in MP3 music files. It includes song, singer and album names. The ID-3 information is displayed when using relevant software.

What's MPEG-1?

In 1988 the Moving Picture Experts Group (MPEG) was founded under ISO/SC2 with the charter to standardize a video coding algorithm targeted for digital storage media and bit rates at up to about 1.5Mbits/s. Its official denotation is now ISO/IEC/JTC1/SC29/WG11. The first Draft international Standard (DIS) released by the committee, ISO 11172 (MPEG-1), was drafted in 1991 and finally issued as IS in 1992. MPEG-1 is intended to be generic (although the initial target applications envisaged and applications parameters defined were constrained to digital storage media). Generic means, that the standard is independent of a particular application and therefore comprises mainly a toolbox. It is up to the user to decide, which tools to select to suit the particular applications envisaged. This implies, that only the coding syntax is defined and therefore mainly the decoding scheme is standardized. MPEG-1 defines a hybrid DCT/DPCM coding scheme with motion compensation similar to the H.261 and CCIR Rec. 723 coding standards. Further refinements in prediction and subsequent processing were introduced to provide the functionality required for random access in digital storage media.

What's MPEG-2?

Studies on MPEG-2 started in 1990 with the initial target to issue a standard for coding of TV-pictures with CCIR Rec. 601 resolution at data rates below 10Mbit/s. In 1992 the scope of MPEG-2 was enlarged to suit coding of HDTV - thus making an initially planned MPEG-3 phase superfluous. The DIS for MPEG-2 video was issued in early 1994.

The video coding scheme used in MPEG-2 is again generic and similar to the one of MPEG-1, however with further refinements and special consideration of interlaced sources. Furthermore many functionalities such as "scalability" were introduced. In order to keep implementation complexity low for products not requiring the full video input formats supported by the standard (e.g. SIF to HDTV resolutions), so called "Profiles", describing functionalities, and "Levels", describing resolutions, were introduced to provide separate MPEG-2 conformance levels.

What's MPEG-4?

MPEG-4 is an ISO/IEC standard developed by MPEG (Moving Picture Experts Group), the committee that also developed the Emmy Award winning standards known as MPEG-1 and MPEG-2. These standards made interactive video on CD-ROM, DVD and Digital Television possible. MPEG-4 is the result of another international effort involving hundreds of researchers and engineers from all over the world. MPEG-4, with formal as its ISO/IEC designation 'ISO/IEC 14496', was finalized in October 1998 and became an International Standard in the first months of 1999. The fully backward compatible extensions under the title of MPEG-4 Version 2 were frozen at the end of 1999, to acquire the formal International Standard Status early in 2000. Several extensions were added since and work on some specific work-items work is still in progress.

Please visit <http://www.chiariglione.org/mpeg/standards/mpeg-4/mpeg-4.htm> for details information about MPEG-4 standard.

What's DivX Pro?

DivX Pro TM helps transform a standard desktop computer into a high-quality video studio, distribution centre, and entertainment jukebox. The technology is so advanced that it can reduce a DVD video to almost 10 percent of its original size, creating great looking files that can be viewed on a PC, television, or DivX Certified device with little or no loss in quality

What's XviD?

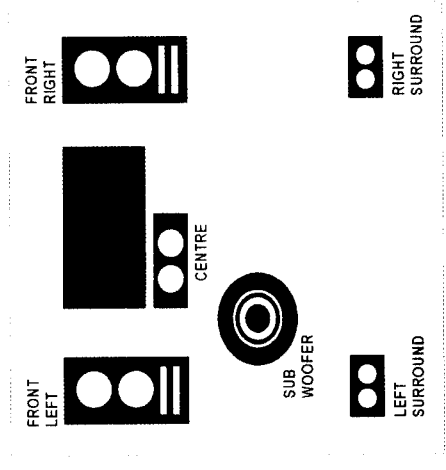
XviD is an ISO MPEG-4 compliant video codec. It's no product, it's an open source project which is developed and maintained by lots of people from all over the world.

Why should I use XviD?

Well, you don't need to at all. We the developers of XviD are just ordinary people, who happen to enjoy writing code for video compression, so we have no disadvantages (financial or any other) if you choose something else than XviD.

However there are good reasons why you could like to use XviD: We believe that XviD is the best currently available MPEG-4 video codec solution and additionally XviD is free software!

Audio Setup



The setup structure is as below:

**** Equalizer ****

EQ TYPE	NONE	NONE
		ROCK
		POP
		LIVE
		DANCE
		TECHNO
		CLASSIC
		SOFT

BASS BOOST	OFF	ON
SUPER BASS	OFF	ON
TREBLE BOOST	OFF	ON

This function allows you to adjust the channel delay.

- **Centre:** 0-170cm (Preset is 0cm)
- **Subwoofer:** 0-510cm (Preset is 0cm)
- **LS (Left Surround):** 0-510cm (Preset is 170cm)
- **RS (Right Surround):** 0-510cm (Preset is 170cm)

Operating steps:

- Press UP and DOWN button to select centre, subwoofer or left surround and right surround.
- Press LEFT and RIGHT button to adjust the delay value.
- Press PLAY to confirm the change.
- Press SETUP to exit the setup menu.

EQ type:

There are 8 kinds DSP mode for your selection: OFF, ROCK, POP, LIVE, DANCE, TECHNO, CLASSIC, SOFT. Select the mode to suit your liking.

Bass Boost:

Set to on order to gain the perfect Bass effect.

Super Bass:

Set to on will enhance the very perfect Bass effect.

Treble Boost:

Set to on order to again the perfect Treble effect. It will decrease the Bass effect.

Audio Setup

SPDIF Setup

The setup structure is as blow:

** SPDIF SETUP PAGE **	
SPDIF OUTPUT	RAW SPDIF OFF SPDIF RAW SPDIF/PCM MANUAL
CD	RAW SPDIF OFF
DOLBY DIGITAL	SPDIF RAW
DTS	SPDIF/PCM
MPEG	
PCM CHANNEL	L/R SPDIF L/R SPDIF LS/RS SPDIF C/LFE
LPCM OUT	48K 48K 96K 96K
Audio Setup	

SPDIF Output

There are 4 kind of SPDIF output mode for choose: SPDIF OFF, SPDIF RAW, SPDIF PCM and MANUAL. In Manual mode, for different disc, the SPDIF output can be seated into different mode.

Audio CD, Dolby Digital, DTS, MPEG

In the Manual SPDIF mode: Setting the SPDIF mode for each of the above items. The above 4 items means orderly are Audio CD, Dolby Audio DVD and DTS Audio DVD.

- SPDIF-OFF: Set as default, there will be no digital audio signal output.
- SPDIF-RAW: Set as default, the digital audio signal output will be in RAW format. Normally, this mode is use for DTS signal and Dolby digital signal.
- SPDIF-PCM: Set as default, the digital audio signal output will be in PCM format. Normally, this mode is use for audio CD signal.

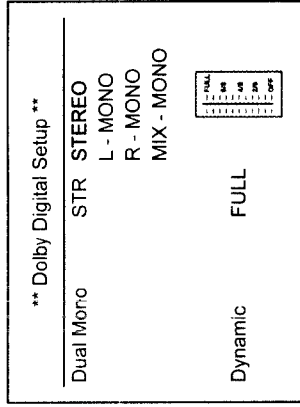
PCM Channel

- SPDIF L/R: Choose the front left and the front right channel for output.
- SPDIF LS/RS: Choose the Left surround channel for output.
- SPDIF C/LFE: Choose the centre and the subwoofer for output.

LPCM OUT

This function let you to adjust the sample rating for the analog audio output.

The are two option for your selection: 48KHz and 96KHz.



Dual Mono

- Stereo: It means that the player will output Left channel and Right channel audio.
- L-Mono: It means that the player will output will left channel audio only.
- R-Mono: It means that the player will output will right channel audio only.
- MIX-Mono: It means that the player will output the average signal of the Left channel and Right channel audio.

Note:

This setting use to playing Dolby AC-3 encoded 2 channel discs. Some DVDs may not being change in this menu setting. Please use the CHANNEL button to change the current output directly.

Dynamic

When set the dynamic range to FULL, the soft music will be automatic increase and the loudness music will be automatic decrease.

When set the dynamic to OFF, the function will be disabled.

Note:

This setting use to playing Dolby Digital encode disc. This function is suit to use at night.

What exactly are all those neat features (GMC, Quarter-pel, Adaptive quantization) that the development version of Xvid has?

Explaining the details of this would last too long. As a short answer:

MPEG-4 is very effective in compression, because it reuses data from one image to generate the next one (still images of a video are only 1/25 of a second or even less apart from each other, in almost all cases they look very similar)...

There a different ways how to detect which part of the picture can be reused, and QPel = "Quarterpixel Motion Compensation" and GMC = "Global Motion Compensation" are two advanced ways of doing this. Normally you only use "Halfpel Motion Compensation", so the resolution is higher with Quarterpixel. A different step in compression is to divide some coefficients by a number to gives them smaller values (and hopefully zero). This is called "Quantization". Normally, every 16x16 block in the image is divided by the same value, but with "adaptive quantization", for every block a different value can be chose. This can lead to better quality, when e.g. important parts like faces are compressed less, and less important part (background) are compressed stronger, but it's still experimental.

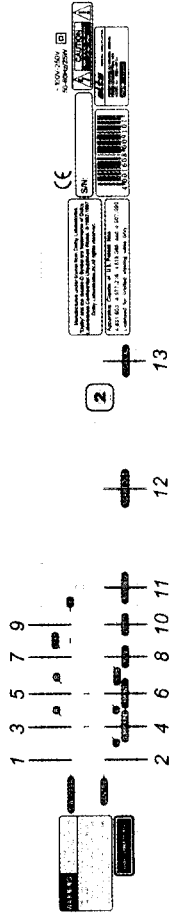
Is this player supporting DivX CDs which are created under "Quarterpixel" ?

Yes! This player is supporting those CDs.

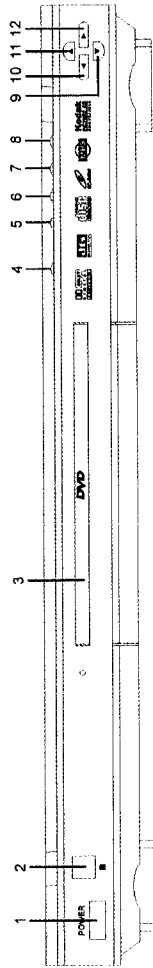
Were I can find more info's about DivX ?

<http://www.divx.com/support/divx/guide.php>
or <http://212.63.136.4/> or <http://www.doom9.de/vu> where different guides to create a DivX- or XviD are available.

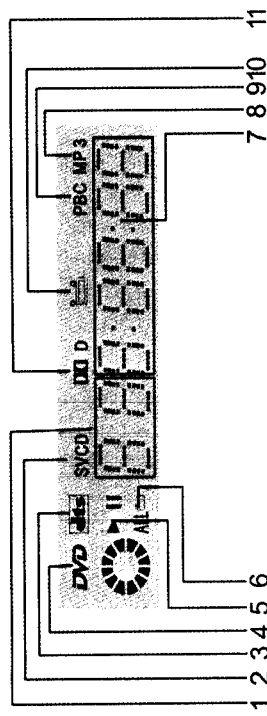
Front Panel / Rear panel / VFD display



- 1. Subwoofer output
- 2. Centre output
- 3. Right surround output
- 4. Left surround output
- 5. Front right output
- 6. Front left output
- 7/8/9. Component video output
- 10. Composite video output
- 11. S-Video output
- 12. SCART output
- 13. Coaxial digital output



- 1. POWER
- 2. REMOTE SENSOR
- 3. DISC TRAY
- 4. OPEN/CLOSE
- 5. PLAY
- 6. STOP
- 7. PAUSE
- 8. MENU
- 9. RIGHT
- 10. LEFT
- 11. DOWN
- 12. UP



- 1. Title number indicator
- 2. CD/VCD/SVCD disc indicator
- 3. DTS indicator
- 4. DVD disc indicator
- 5. Play disc indicator
- 6. Repeat indicator
- 7. Time indicator
- 8. MP3 indicator
- 9. PBC indicator
- 10. Multi angle indicator
- 11. Dolby indicator

Audio Setup

** Speaker Setup Page **

Down mix	OFF	LT/RT Stereo
		V-Surr OFF
Front Speaker	SML	Large Small
		OFF
Centre Speaker	SML	Large Small
		OFF
Rear Speaker	SML	Large Small
		OFF
Subwoofer	ON	OFF
Test Tone	OFF	ON
		OFF
Dialog	00	LED
		ON
Post DRC	AUTO	OFF
		AUTO

Subwoofer

- ON: Turn on the subwoofer output.
- OFF: Turn off the subwoofer output.

Test Tone

ON: There will be a channel audio test signal create by the system. It will test from left to centre, right, subwoofer, right surround and left surround. It help the user to setup the speakers easily and correctly.

OFF: Disable the test tone function.

Dialog

- When the Down Mix mode is seated into LT/RT or stereo mode, adjusting the value of this item for control the volume of the player.

Note: when playing the 5.1 channel disc, this item can be used to control the volume.

The preset of this player is 00.

Post DRC

The preset is AUTO.

Front speaker

- The front speaker can be large or small.

Centre Speaker (Centre speaker)

- If the DOWNMIX mode is set into off, then the centre speaker can be large, small or off.

Rear speaker

- If the DOWNMIX mode is set into Off, then the rear speaker can be large, Small or Off.

Note:

When set the speaker to Large then the output level will be higher than Small. When set the speaker to Small then the output level will be lower than Large.

General setup

Screen saver

When the player stops or the picture becomes motionless for several seconds, there will be a screen saver to prevent damage to the display screen.

** GENERAL SETUP PAGE **	
TV DISPLAY	PS ON
ANGLE MARK	ENG ON
OSD LANG	CAPTIONS ON
SCREEN SAVER	ON OFF
LAST MEMORY	OFF
SET SCREEN SAVER ON	

- ON: To activate screen saver.
 - OFF: To disable screen saver.
- Last Memory**
- ON: Each time when you turn off the player, it will memorize the last play time. So if you next time turn on the player and play the same disc, the player will resume play from the point.
 - OFF: Disable the last memory function

** GENERAL SETUP PAGE **	
TV DISPLAY	PS ON
ANGLE MARK	ENG ON
OSD LANG	CAPTIONS ON
SCREEN SAVER	ON OFF
LAST MEMORY	OFF
SET SCREEN SAVER ON	

Audio setup

The setup structure is as below:

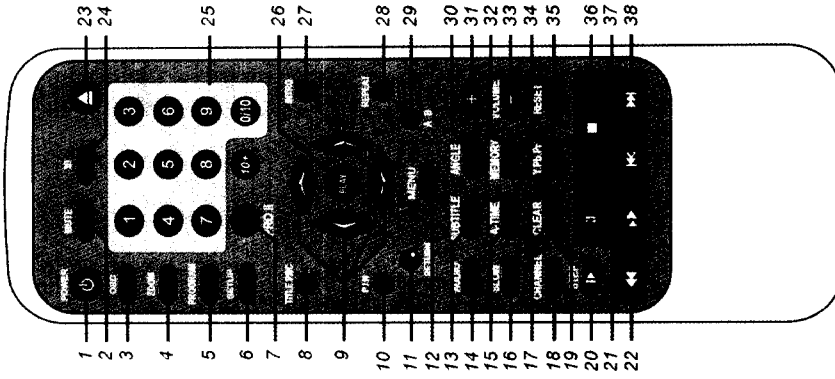
** AUDIO SETUP PAGE **	
SPEAKER SETUP	
SPDIF SETUP	
DOLBY DIGITAL SETUP	
CHANNEL DELAY	
EQUALIZER	
3D PROCESSING	

** SPEAKER SETUP PAGE **	
DOWNMIX	OFF
LT/RT	STEREO
FRONT SPEAKER	SML V-SURR
CENTRE SPEAKER	SML OFF
REAR SPEAKER	SML
SUBWOOFER	ON OFF
TEST TONE	00
DIALOG	AUTO
POST DRC	

DOWNMIX

- LT/RT: Select this when the disc is player with Pro Logic Dolby stereo effect. The decoded signal will create a 2ch reality simulating effect at your own home via the FR/FL connectors.
- STEREO: When playing a 5.1ch disc, the audio output will be output as stereo signal from the left/right channels via the FR/FL connectors.
- V-SURR (Virtual surround)
On: Merge the multiple channel audio into 2 channel audio.
Off: Disable the function.
- OFF: When select this item, the analog output will be 5.1 channel surround output.

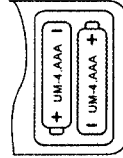
Remote control



1. **POWER (STANDBY):** Switch the MPEG-4 player on and puts it in standby mode
2. **MUTE:** Switches sound on and off
3. **OSD:** Change disc status information displayed on the TV
4. **ZOOM:** Zoom into a image
5. **PROGRAM:** Program track order
6. **SETUP:** Program basic settings
7. **PRO II:** Switches Dolby Prologic II on and off
8. **TITLE/PBC:** Display TITLE menu
9. **ARROW buttons:** Move within the menu
10. **P/N:** PAL or NTSC playback
11. **RETURN:** To the previous menu
12. **MENU:** Display the DISC menu
13. **SUBTITLE:** Select the language of the subtitles
14. **AUDIO:** Set language and sound format
15. **A-TIME:** Skip directly to a specific location on a CD/DVD disc
16. **SLOW:** Playback in slow motion mode
17. **CLEAR:** Erase DVD marker, clear CD program
18. **CHANNEL:**
19. **PAUSE:** Interrupt playback
20. **STEP:** Playback one frame at a time
21. **FAST REWIND:** Fast reverse playback
22. **FAST FORWARD:** Fast forward playback
23. **OPEN/CLOSE:** Open/Close disc loader
24. **3D:** Select the 3D mode for different effect output
25. **NUMBERS:** To select numbers over 9, press 10+ button and then press the second no.
26. **PLAY (ENTER):** Start playback or Enter for selection
27. **INTRO:** Scan the content of a disc or a song
28. **REPEAT:** Repeat chapter/track/CD
29. **A-B:** Select a scene to be continuously repeated
30. **ANGLE:** Change the camera position
31. **VOLUME +:** Increase the sound output level
32. **MEMORY:** Store a track to the track list
33. **VOLUME -:** Decrease the sound output level
34. **Y.Pb.Pr:** Switches progressive scan mode on and off
35. **RESET:** Reload the factory preset
36. **STOP:** Stop playback
37. **PREV:** To playback previous track/title
38. **NEXT:** To playback next track/title

Inserting batteries into the remote control:

The supplied remote can be used to control the player. Insert two 'AAA' type batteries into the compartment, matching + and as indicated on the inside of the battery housing. The remote must be pointed directly at the player.



NOTE:

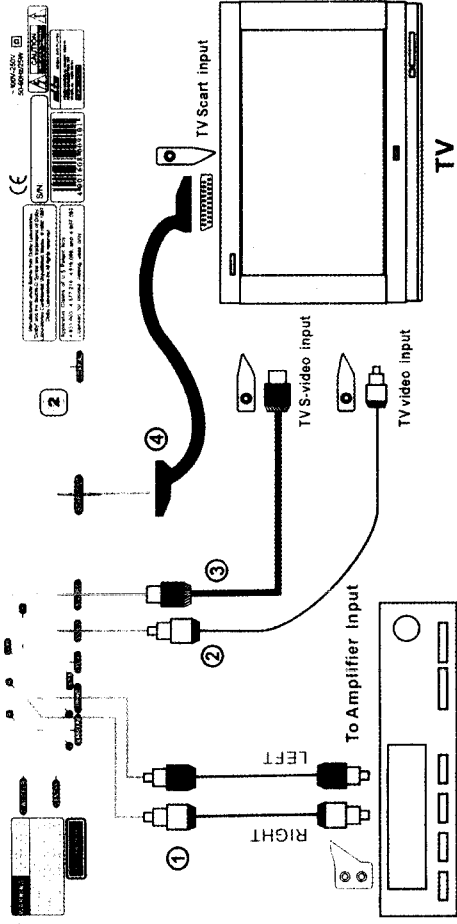
1. Avoid exposing the remote control to extremes of temperature e.g. direct sunlight.
2. Ensure that no foreign objects enter the battery housing, especially metal objects.
3. If the player's infra - red sensor is bathed in strong direct sunlight, or intense artificial light, then it may not be able to detect signals sent from the handset.
4. If the remote is not to be used for an extended period then please remove the batteries to avoid leakage and corrosion.

Preparations before using

-10-

Connection – Connection to amplifier/audio system

(1) Connect to a common amplifier (With 2-channel down mix input).



Common Amplifier

(2) Connect to a TV with a Video cable:

Normally, some TV set will built-in one or more Video input socket. Use the Video cable to connect between the MPEG-4 player and the TV correctly. Please read your TV's instruction manual carefully about the AV input.

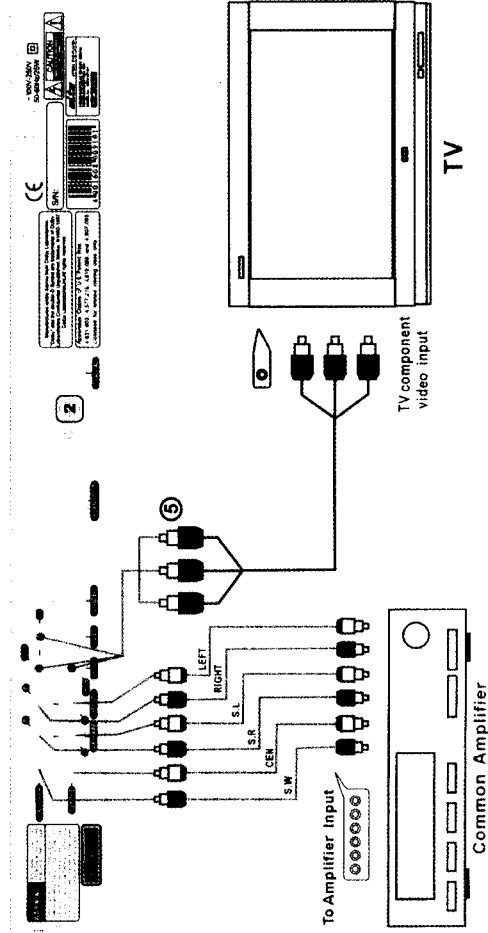
(3) Connect to a TV with an S-Video cable:

Normally, some TV set will built-in one or more S-Video input socket. Use the S-Video cable to connect between the MPEG-4 player and the TV correctly. Please read your TV's instruction manual carefully about how to use S-Video.

(4) Connect to a TV with an SCART cable:

Normally, some TV set will built-in one or more SCART input socket. Use the SCART cable to connect between the MPEG-4 player and the TV correctly. Please read your TV's instruction manual carefully about how to use SCART.

- Connect to a common amplifier (With 5.1-channel surround input).



Setup Operations

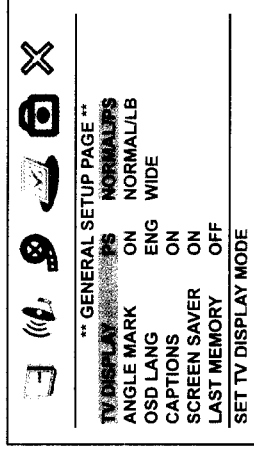
-23-

Main Menu

The setup menu is used to configure the player. (Must in 'STOP' mode can make the following setting)

- Press setup button and enter into the main menu.

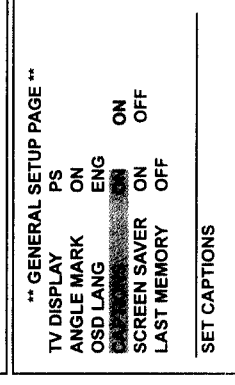
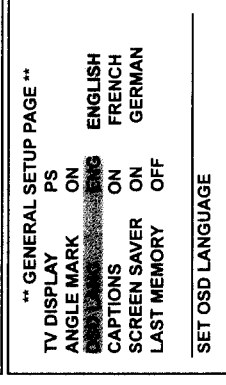
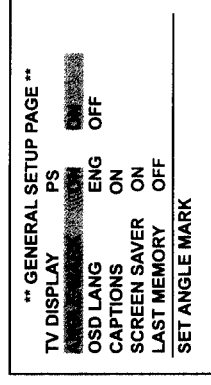
The screen shows:



Press **←/→/↑/↓** button to select, and press play button to confirm.

General setup

The setup structure is below:



General Setup

TV Display

NORMAL/PS (Pan Scan)

- Select this when the player is connected with a standard format TV. Wide screen picture shown in the full screen will have some part cut off automatically.

NORMAL/LB (Letter box)

- Select this when the player is connected with a standard format TV. Wide screen picture shown in the full screen will have some part cut off automatically.

WIDE

- Select when the player is connected to a wide screen TV.

Angle mark

- Available only when the disc is encoded with angle marks.
- Select ON, when playing DVD discs, the screen will show angle mark. Select OFF. NO angle mark will be show on the screen.

OSD Language

- The default language is Italian.
- Select other languages, the OSD will be shown in other languages: English ...

Captions

- ON: To display captions.
- OFF: To close captions.

Memory play

This player can memorize the last stop point and play from this point.

- (STOP)
- When playing, press (STOP) once to stop the playback. The player will memorize the current point. In this state.
- (PLAY)
- Press play button to play from the last point. By pressing (STOP) button twice, the memory function will be cancelled.

Memory Play 2 (Book Mark)

When playing, press the Memory Button to enter the playback bookmark setup. There are 12 bookmarks.

When playing, press (MEMORY) button. The TV set will show the bookmark setup menu.

(MEMORY)

- Press the (PLAY) button to set a bookmark and press (PLAY) button again. The player will jump to the playback.
- Press (CLEAR) button to clear a bookmark. (The clear button is only available in certain mode) Alternatively press.

Program Play

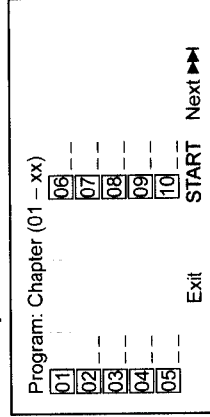
This function allows the user to program the order for songs within a disc and play as press the programmed sequence.

Press program button to enter the program menu. In the menu, you can use arrow keys and number keys to input the desired title and chapter/track number, then select the (START) button and press (PLAY) button to start play at the programmed sequence.

* Press PROGRAM button again to exit program function anytime.

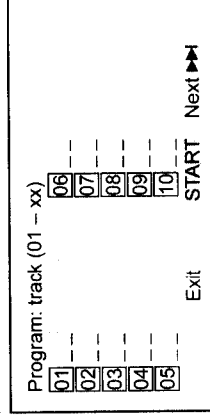
When playing DVD discs,

TV screen shows:



When playing CD discs,

TV screen shows:



Remarks:

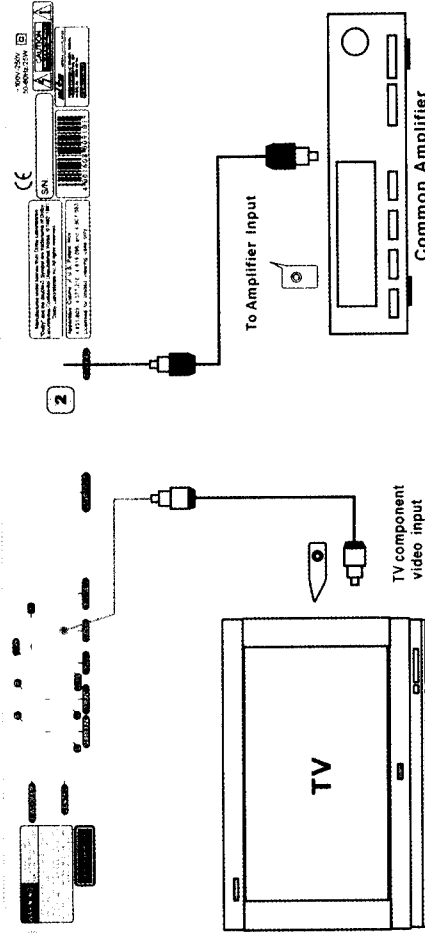
When playing a DVD disc, if there is only 1 title, then the program menu will be similar to the menu of C.D

(5) Connect to a TV with a Component video cable.

Normally, some TV set will built-in one or more Component Video input socket. Use the Component cable to connect between the MPEG-4 player and the TV correctly. Please read your TV's instruction manual carefully about the component Video input.

Connection - Connection to amplifier/audio system

- Connect to an amplifier built-in DTS and DOLBY digital decoder (With COAXIAL input).



To avoid any damage to the audio system, caution must be taken when connect the players analog stereo output to the amplifier.

- If your amplifier built-in a DTS decoder or processor, you can fully enjoy the 5.1 channel DTS Decoded DVD discs or CD sound tracks.
- If your amplifier built-in a DOLBY digital decoder or processor, you can fully enjoy the 5.1 channel DOLBY digital Decoded DVD discs.
- Setup audio output to SPDIF/RAW.

Dolby Digital & DTS decoding

This MPEG-4 player built-in Dolby Digital decoder, it will automatic recognized the DVD's audio encoded format and gives analog output. Please visit www.dtstech.com for more information about DTS decoder. And visit www.dolby.com for more information about Dolby Digital and Dolby Prologic II.

- Manufactured under license from Dolby Laboratories. "Dolby", "Pro-Logic II" and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished works.
- "DTS" and "DTS digital surround" are trademarks of Digital Theatre System, Inc.

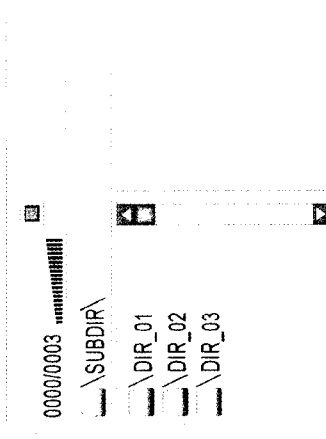
Remarks:

To enjoy surround sound effect when playing 5.1channel DVD disc, please choose digital output.

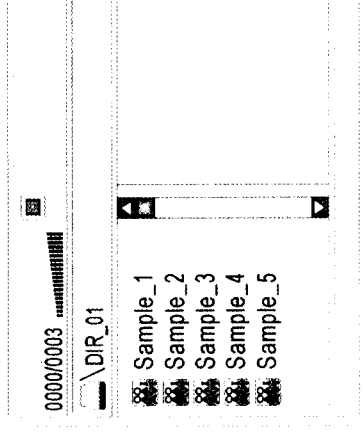
MPEG-4 Playback

Upon loading the disc, the screen shows a window as follows: (The following picture just for reference only)

- To choose the preference directory, use the UP and DOWN button and then press the PLAY button to confirm.



- Select the AVI file by using arrow button to choose the preference AVI file and press (PLAY) button to play it.

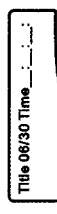
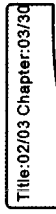


- Return to the parent directory. Press arrow button and then press (RETURN) button to return to the parent directory, you can then select another directory.
- To stop playing, press the STOP button at anytime.

Search Selection

For DVD discs:

- Chapter and title search for example:
To find title 6 in 2nd chapter press (A-Time) button. Input the desired chapter and title via the number keys.
(A-TIME)
- Once the desired chapter and title has been input, press (PLAY) button to proceed.
- Time search press (A-TIME) button until the screen shows:
(A-TIME)



- Input the desired time in hours, minutes and seconds using the number keys on the remote control. Once the desired discs time has been input, press (PLAY) button to proceed.
- For CD discs:
● There are 3 modes to choose:
(A-TIME)



- Press the (A-Time) button, the TV will show the selection of modes one by one.
- Disc time and Track time mode:
Input the time (with discs/with the current track) using number keys, in Min/Sec format. Then press (PLAY) button to enable the desire time setting, input desired time and press (A-TIME) again return to normal play.

Track mode:

- Input the track number using number keys, the player will play the desired track automatically.

Slow Motion play

When playing the DVD discs, the discs will be played in slow motion by pressing (SLOW) button. By pressing the (SLOW) button from 1st to 9th, the player will be in the play mode as below,

(SLOW)

Press (SLOW)	Mode
1 st	▶▶ 1/2
2 nd	▶▶ 1/4
3 rd	▶▶ 1/8
4 th	▶▶ 1/16
5 th	◀◀ 1/2
6 th	◀◀ 1/4
7 th	◀◀ 1/8
8 th	◀◀ 1/16
9 th	Resume to play

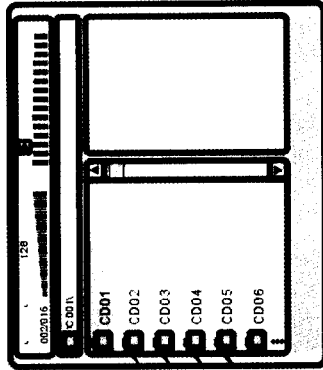
Press (PLAY) button to resume normal play anytime.

MP3 Operations

MP3 Playback

MP3 is international audio format that compresses sound signal 12-1. A MP3 disc can record near CD quality music that is over 600 minutes long or more than 170 songs.

Upon loading the disc, the screen shows a menu as follows:



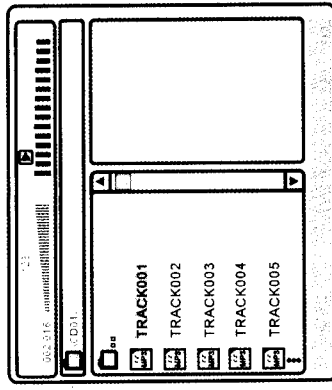
- To choose the preference directory, use the UP and DOWN button and then press the PLAY button to confirm.
- Select song by using arrow button to choose the preference song and press (PLAY) button to play it.
- Return to the parent directory. Press arrow button and then press (PLAY) button to return to the parent directory, you can then select another directory.

Play mode:

There are 4 kinds of play mode:

- SINGLE Repeat
- REPEAT ONE
- FOLDER
- REPEAT FOLDER

- In play mode, press (REPEAT) button to choose the play mode. The TV screen will show:



There are 4 kinds of play mode:

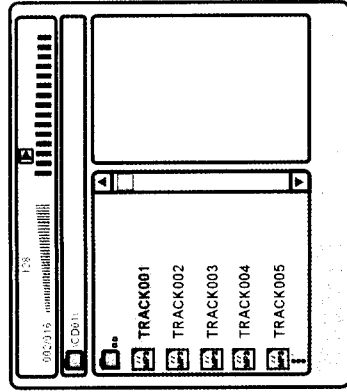
- **SINGLE:** In this mode, the player will play back the current song only.
- **REPEAT-ONE:** In this mode, the player will play the current song repeatedly.
- **FOLDER:** In this mode, the player will play all the songs of the current folder
- **REPEAT-FOLDER:** In this mode, the player will playback the songs of the current repeatedly.

MP3/AVI Files Program Playback

Other functions:

Function such as mute, volume control pause Prev/Next song selection, audio selection and so on, the also available for MP3 discs. The operation is the same as that to play an audio CD disc.

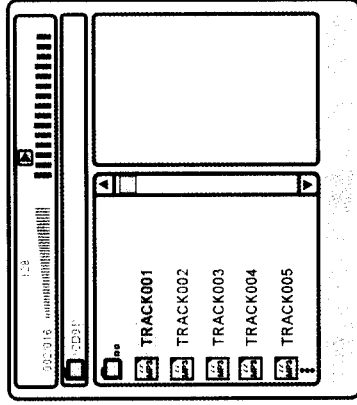
Access program mode and add songs to play list.



1. Press (STOP) button to stop the playing disc.
 2. Press (PROGRAM) button to enter the program mode.
 3. Press UP and Down button to select the desire song.
 4. Press (CLEAR) button add the desire song to the play list.
 5. Repeat step 3 and 4 to increase the songs, which are played according to list as you wish.
 6. Press (PROGRAM) button to switch to the program list window.
 7. Press (PLAY) button to begin program play.
- In this mode all songs of the disc will be shown on the menu in order.

Delete songs from the play list.

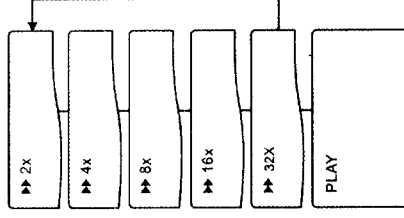
In program list window, the TV screen shows.



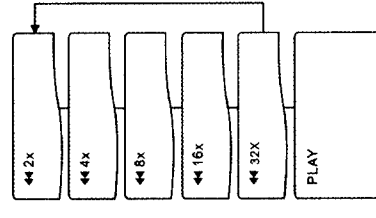
1. Press (STOP) button to stop the playing disc.
 2. Press UP and DOWN button to select the desire song.
 3. Press (CLEAR) button to confirm deleting current song.
 4. Repeat step 1-3 to delete all the songs in the play list.
- The navigation system will go back to the root of the disc automatically after all the songs in the play list are deleted.
- Return to normal play mode.**
- Press (PROGRAM) button to return to the normal play mode when plays in program mode.
 - Program mode will be canceled when press (OPEN) button in any case.

Fast play

- When playing DVD or CD discs, press ◀▶ button to find a specified part and play.
- When playing DVD or CD discs, press ▶▶ button to access fast forward mode. Select fast forward speed by scrolling the ▶▶ button.



- Pressing ◀◀ button will enter into fast rewind mode. Select fast rewind speed by scrolling the ◀◀ button.
- To resume to normal play mode, press (PLAY) button again.

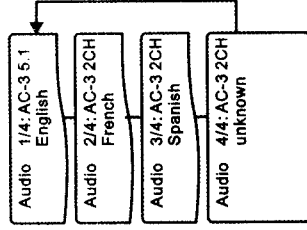


- When playing a CD disc Press ▶▶ button to enter into fast forward mode. Press ◀◀ button to enter into fast rewind mode.

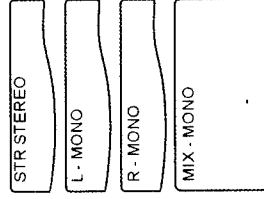
Sound channels selection

When playing DVD discs, the (LANGUAGE) button is used select the desired language. This is only applicable if the discs have a different language function incorporated.

- Example: Press the (LANGUAGE) button to select a different language. When playing DVD discs, the scroll like so:
(Only for reference)
(LANGUAGE)



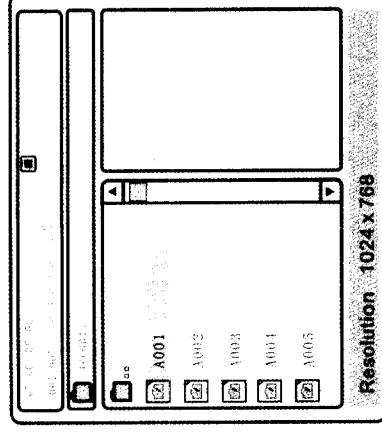
- Example: When playing CD discs, press the channel button to select a different sound track. The screen will scroll like so:
(CHANNEL)



Playing Kodak picture CD or JPEG files

This function is similar to MP3 playback function.

Upon loading a Kodak picture CD or JPEG file CD, the TV screen shows,



Slide Show:

The player will automatic play picture in slide show mode if the CD include more one picture.

Slide Show mode:

The play support 16 kinds slide show mode as below,

1. Wipe top
2. Wipe bottom
3. Wipe left
4. Wipe right
5. Diagonal wipe left top
6. Diagonal wipe right top
7. Diagonal wipe left bottom
8. Diagonal wipe right bottom
9. Extend from centre H
10. Extend from centre V
11. Compress to centre H
12. Compress to centre V
13. Window H
14. Window V
15. Wipe from edge to centre
16. Normal

Press (PROGRAM) button to change the current slide show mode when playing pictures.

Operations:

Picture Selection & Preview

Press arrow buttons to select the target picture and press (PLAY) button to show.

The player will automatic preview the picture when the cursor stops.

Rotate Picture

You can press arrow buttons to rotate current showing picture when the picture playing.

Previous and Next selection

You can press (PREV) buttons to show previous picture or press (NEXT) button to show next picture manually.

Zoom in and Zoom out

You can press (F.BWD) button to zoom in the current showing picture or press (F.FWD) to zoom out the current showing picture.

Direct select by number button

When playing CD discs.

- Load a disc upon reading the discs you can select/play songs by number button. If the song number is less than 10, then press number button 0–9 to select directly. For example: To select the 8th song press number button 8.

The TV screen will show:

8
○

Select: 08

- To select song number beyond 10, press 10+ button, followed by the number within 0–9 for example: To select the 12th song press 10+ and then press button 2.

The TV screen will show:

10+ 2
○ → ○

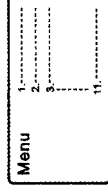
Select: 12

Menu play for DVD discs

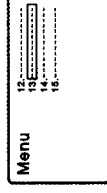
When playing DVD discs, some discs contain title menus or chapter menus, press (MENU) button to access this feature.

The TV screen will show menu picture and use arrow button to scroll. To confirm selection, press (PLAY) button.

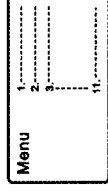
Alternatively, use the Number button to select.



- For example: To select the 13th song



- Alternatively, you can also select directly by using the number buttons.
- For example: To select the 13th song.



Direct select by number button:

10+ 3
○ → ○

- Press ▲▼ to enter into the desired page.
Press (PLAY) button to select and start playing.
Press (TITLE) button to return to title menu if there is a title menu.
Press (MENU) button to return to the root menu.