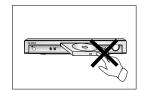
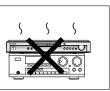


Precautions

JTION : USE OF ANY CONTROLS, ADJUSTMENTS, OR PROCEDURES OTHER THAN CIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.



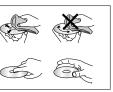












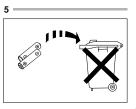


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Setup

CONNECTIONS

BASIC

ADVANCED

CHANGING SETUP MENU

REFERENCE

Disc Type and Characteristics

DVD player is capable of playing the following types of discs with the sponding logos:

sc Types Logos)	Recording Types	Disc Size	Max. Playing Time	Characteristics
DVD	Audio + Video	12 Cm	Single-sided 240 min. Double-sided 480 min.	DVD contains excellent sound and video due to Dolby Digital and MPEG-2 system.
IDEO		8 Cm	Single-sided 80 min. Double-sided 160 min.	 Various screen and audio functions can be easily selected through the on- screen menu.
DEO-CD Audio The Hard Video	12 Cm	74 min.	Video with CD sound, VHS quality & MPEG-1	
		8 Cm	20 min.	compression technology.
IDIO-CD	Audio	12 Cm	74 min.	CD is recorded as a Digital Signal with better audio quality, less
GITAL AUDIO		8 Cm	20 min.	distortion and less deterioration of audio quality over time.

sc Markings



STEREO











Region Number

DVD player and the discs are coded by region. These regional codes must match in order for the ay. If the codes do not match, the disc will not play.

ion Number for this player is described on the rear panel of the player.

SETUP

OUT JACK se the DVI cable to connect this jack to the DVI jack on your television for a higher quality picture.

SITAL AUDIO OUT JACKS se either an optical or coaxial digital cable to connect to a compatible Dolby Digital receiver. se to connect to an A/V Amplifier that contains a Dolby Digital or DTS decoder.

ALOG AUDIO OUT JACKS onnect to the Audio input jacks of your television, audio/video receiver.

EO OUT JACK

se a video cable to connect to the VIDEO input jack on your television. ne PROGRESSIVE SCAN button must be set to off.

IDEO JACK se the S-Video cable to connect this jack to the S-Video jack on your television for a higher alidity picture. The S-Video must be selected in the VIDEO OUT SELECT. The PROGRESSIVE SCAN button must be set to off.

MPONENT VIDEO OUT JACKS se these jacks if you have a TV with Component Video in jacks. These jacks provide Pr, Pb and video. Along with Component Video provides the best picture quality. PROGRESSIVE SCAN button is set to on, progressive scan mode will work. PROGRESSIVE SCAN button is set to off, interlace scan mode will work. Component is selected, S-Video output will not work.

DEO OUT SELECT SWITCH
se the switch to set video out.
S-Video is selected, Component will not work.

nportant Note

onsult your TV User's Manual to find out if your TV supports Progressive Scan.

Progressive Scan is supported, follow the TV User's Manual's instructions regarding Progressive
zan settings in the TV's menu system.

PROGRESSIVE SCAN button is set to on, VIDEO and S-VIDEO will not work.

ake sure to stop DVD playback before enabling the PROGRESSIVE SCAN function.

Tour of the Remote Control

Function Buttons

OWER Button

the DVD player's power on or off.

ER Buttons

Button s you to program a specific order.

LAY Button unction is used to replay the previous 10

nds of the movie from the current position.

button nces play one frame at a time.

/- buttons ol volumes.

DEO button

to display all of the available video sources TV, Cable, Video)

CH/SKIP buttons (◀ / ▶, I◀ / ▶I) s you to search forward/backward through a. Use to skip the title, chapter or track.

button (■)

U button (IIII)

gs up the DVD player's setup menu.

JRN button (の) irns to a previous menu. KMARK button

this to save a favorite scene within a movie.

OUND button st his to listen to 3D surround sound through existing stereo speakers.

TITLE button ss this to switch the DVD's subtitle language.

O button

this button to access various audio functions disc.

16. TV POWER button

• Turns the TV's power on or off.

17. CLEAR button

 Use to remove menus or status displays from the screen.

18. I.SKIP button

This function skips playback ahead 10 seconds.

19. CH ^/ > buttons

20. OPEN/CLOSE (▲) button

. To open and close the disc tray.

21. PLAY/PAUSE (►II) button

Begin/Pause disc play.

22. INFO button

Displays the current disc mode.

23. DISC MENU button

Brings up the Disc menu.

24. DIRECTION buttons (UP/DOWN or LEFT/RIGHT buttons)

This button functions as a toggle switch.

25. ENTER button

26. ZOOM button

Enlarges DVD picture.

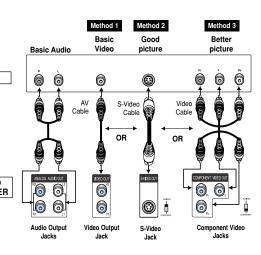
27. EZ VIEW button

· Easy View can convert Letter Box images to full screen viewing on your conventional TV.

28. REPEAT button • Allows you to repeat a title, chapter, track or disc.

29. ANGLE button • Use to access various camera angles on a DVD.

Normal, Widescreen, Projection, etc..)



- 1 DVD Player + TV with Video Input Jack
- DVD Player + TV with S-Video Input Jack (If S-Video is selected in the VIDEO OUT SELECT.)
- DVD Player + TV with Component Video Jacks
 (If Component Video is selected in the VIDEO OUT SELECT.)

ponent Video is selected, S-Video will not work.

JGRESSIVE SCAN is set to on VIDEO and S-VIDEO will not work.

Choosing a Connection

DVI VIDEO Specifications

u press the DVI VIDEO button; (PAL disc play) 6p DVI output will be selected when the "Red" light comes on. 0p DVI output will be selected when the "Blue" light comes on. 80i DVI output will be selected when the "Green" light comes on.

u press the DVI VIDEO button; (NTSC disc play)

Op DVI output will be selected when the "Red" light comes on.

Op DVI output will be selected when the "Blue" light comes on.

80i DVI output will be selected when the "Green" light comes on.

Digital Visual Interface)

ortant Note

regular visual interface to enable the digital transmission of video signals between various digital devices. DVI, the DVD player transmits a digital video signal and displays a vivid picture on a TV having lack. pition of the DVI connection

ption of the DVI connection
connector : digital signal only,
connector : digital and analog signal.
In the player is using DVI-I connector, the output from a DVI-I is only a digital signal.
loes not support HDCP (High-bandwidth Digital content protect), snow noise appears
screen.

eful that various connectors are similar to DVI connector, for example VESA PnD, VESA DFD

eful that various connectors are similar to DVI connector, for example VESA PnD, VESA DFD o to no.

ve adopt DVI?

ally, with an analog TV, an analog video signal is input to VIDEO IN.

ve adopt DVI?

ally, with an analog TV, an analog video signal is input to VIDEO IN.

ve, when playing a DVD title the data transmitted to a TV is digital. Therefore either a digital-to
converter(in the dvd player) and an analog-to-digital converter (in the TV) is required. During

niversion, the picture quality is degraded due to noise and loss of signal.

chonlogy requires no D/A conversion and DVI is a pure digital signal from the player to your TV.

s the HDCP?

(High-bandwidth Digital Content Protection) is a system for protecting DVD content outputted via

m being copied. It provides a secure digital link between a video source(PC, DVD. etc) and a

v device(TV, projector . etc). Content is encrypted at the source device to prevent unauthorized

from being made.

Playing a Disc

Before Play

on your TV and press the TV/VIDEO button to select the video

on your Audio System and select AUX, CD or DVD.

ugging in the player, the first time you press the DVD R button, this screen comes up : vant to select the language, press a NUMBER button. creen will only appear the very first time you plug in the player.)



ess the OPEN/CLOSE button. STANDBY indicator light goes out and the tray opens.

ice a disc gently into the tray with the disc's label ing up.

ess the PLAY/PAUSE (>II) button or OPEN/CLOSE ton to close the disc tray.

opping Play ss the STOP (■) button during play.

moving Disc ss the OPEN/CLOSE button.

using Play

using in thy sets that it is set the LAY/PAUSE (►II) or STEP button on the remote during play. The resume again, press PLAY/PAUSE (►II) button once again.

Using the Search & Skip Functions

play, you can search quickly through a chapter or track or use the skip to jump to the next selection.

arching through a Chapter or Track

play, press the SEARCH (◀ or ►) button on the remote.

ne SEARCH (◀ or ▶) button on the remote for more than 1 second and press again a continuously to search at a faster speed on the DVD, VCD, CD.

(, 4X, 8X, 16X, 32X, 128X
(, 8X
(, 4X, 8X

ping Tracks

play, press the SKIP (or ▶) button.

laying a DVD, if you press the ► I button, it moves to the next chapter. ress the ► button, it moves to the beginning of the chapter. re press makes it move to the beginning of the previous chapter.

laying a VCD 2.0 in Menu Off mode, a VCD 1.1 or a CD, if you press button, it moves to the next track. If you press the I◀ button, s to the beginning of the track. re press makes it move to the beginning of the previous track.

k exceeds 15 minutes when playing a VCD and you press the ►►I troves forward 5 minutes. If you press the ►►I button, it moves rd 5 minutes.

Using the Disc and Title Menu

ng the Disc Menu

ring the playback of a DVD disc, press the ENU button on the remote.

lect **Disc Menu** using the UP/DOWN buttons, in press the RIGHT or ENTER button.



ng the Title Menu

ring the playback of a DVD disc, press the ENU button on the remote.

lect **Title Menu** using the UP/DOWN buttons, in press the RIGHT or ENTER button.



inding on the disc, the Title and Disc Menus may not work.

Alenu will only be displayed if there are at least two titles in the disc.

an also use the Disc Menu, using the DISC MENU button on the remote.

D2.0, the DISC MENU button works as a conversion switch between Menu On and Menu Off mode.

Repeat Play

the current track, chapter, title, a chosen section (A-B), or all of the disc.

en playing a DVD

ess the REPEAT button on the remote. peat screen appears.

lect Chapter, Title or A-B using the FT/RIGHT buttons.

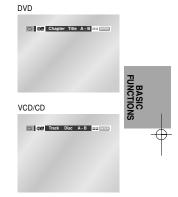
EPEAT A-B
ess the REPEAT button. Select A-B on screen with the
EFT/RIGHT buttons on the remote.
ess ENTER at the point where you want the repeat play to
art (A). The B is automatically highlighted.
ess ENTER at the point where you want the repeat play to
ap (B).

terminate the function, press the 'CLEAR' button.

B REPEAT does not allow you to set point (B) until at least seconds has elapsed after point (A) has been set.

ss ENTER.

return to normal play, press REPEAT again, n press the LEFT/RIGHT buttons to select Off. ess ENTER.



ΓE

epeats play by chapter or title, CD and VCD repeat play by disc or track. nding on the disc, the Repeat function may not work.
in VCD 2.0 mode (Menu On mode), this function does not work.

Adjusting the Aspect Ratio (EZ View)

are using a 4:3 TV

For 16:9 aspect ratio discs

4:3 Letter Box
 Displays the content of the DVD title in 16:9 aspect ratio.
 The black bars will appear at the top and bottom of the screen.

4:3 Pan Scan
 The left and right of the screen are cut off and displays the central portion of the 16:9 screen.

Screen Fit

The top and bottom of the screen are cut off and the full screen appears. The picture will look vertically stretched.

Zoom Fit
 The top, bottom, left and right of the screen are cut off and the central portion of the screen is enlarged.

For 4:3 aspect ratio discs

Normal Screen
 Displays the content of the DVD title in 4:3 aspect ratio.

Screen Fit

The top and bottom of the screen are cut off and the full screen appears. The picture would look vertically stretched.

Zoom Fit
 The top, bottom, left and right of the screen are cut off and the central portion of the screen is enlarged.

unction may behave differently depending on the type of disc.



Selecting the Audio Language

n select a desired language quickly and easily with the AUDIO button.

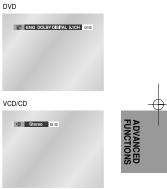
g the AUDIO button

ess the AUDIO button.

e the LEFT/RIGHT buttons to select the sired language on a DVD.

e audio languages are represented by abbreviations.

e the LEFT/RIGHT buttons to select Stereo, FT or RIGHT. (On VCD/CD)



OTE

unction depends on what languages are encoded on the disc and may not work with all DVDs. disc can contain up to 8 audio languages.

to have the same audio language come up whenever you play a DVD; to "Setting Up the Language Features" on page 40.

Changing the Camera Angle

a DVD contains multiple angles of a particular scene, you can select the Angle

g the ANGLE button

the ANGLE button to see if an ANGLE
) mark is present at the upper left hand
of the screen.

en an ANGLE mark is shown, press the GLE button, then an ANGLE select icon appear at the upper left hand corner of screen.

e the LEFT/RIGHT buttons to select the sired screen angle.

turn off the display, press the ANGLE ton again.





Using the Bookmark Function

ature lets you bookmark sections of a DVD or VCD (MENU OFF mode) so you can find them at a later time.

ng the Bookmark Function (DVD/VCD)

ring play, press the BOOKMARK button on the note. The Bookmark icons will be displayed.

e the LEFT/RIGHT buttons to move to the sired bookmark icon.

nen you reach the scene you want to mark, ss the ENTER button. The icon will change to umber (1, 2, or 3).

ess the BOOKMARK button to turn off the play.

alling a Marked Scene

ring play, press the BOOKMARK button the remote.

e the LEFT/RIGHT buttons to select a rked scene.

ess the PLAY/PAUSE (>II) buttons to skip the marked scene.

aring a Bookmark

ring play, press the BOOKMARK button the remote.

e the LEFT/RIGHT buttons to select the kmark number you want to delete.

ess the CLEAR button to delete a bkmark number. Press the BOOKMARK ton to turn off the display.







NOTE

- Up to three scenes may be marked at a time.
- When in VCD 2.0 mode (Menu On mode), this function does not work.
- Depending on the disc, the Bookmark function may not work.

MP3/WMA Play

an MP3/WMA Disc is inserted into the DVD player, the first song file of the first folder

ore than two file extensions are present, select the media our choice by pressing UP/DOWN, then press the ENTER on.

on.

and conce by pressing UP/DOWN, then press the ENTER on.

thange the currently playing media, press the STOP (■)

on twice and then press the DISC MENU button or the remote controller is pressed for 60 seconds, menu will disappear and the selected item will be played.



P3/WMA Play Function

nen the first song file is playing, the music der menu will appear on the right side of the een.

to 8 music folders can be displayed at a e. If you have more than 8 folders on a c, press the LEFT/RIGHT buttons to bring m up on the screen.

e the UP/DOWN buttons to select the sired music folder, then press ENTER. e the UP/DOWN buttons again to select a ng file. Press ENTER to begin playback of song file.





gram/Random playback

the PROG button to switch between the GRAM and RANDOM modes. See page 35 ore information on these modes.



OTE

the REPEAT button to hear only music continuously and press it once again to release. RAM/RANDOM playback cannot be used if the disc contains more than two types of file extensions.

Program Play & Random Play

Program Play (CD/MP3/WMA)

ess the PROG button.

e the LEFT/RIGHT buttons to select OGRAM. Press the ENTER button.

e the UP/DOWN/LEFT/RIGHT buttons to ect the first track to add to the program. ess the ENTER button. The selection mbers appear in the Program Order box.

ess the PLAY/PAUSE (>II) button.

e disc will be played in programmed order.







Random Play (CD/MP3/WMA)

ess the PROG button.

e the LEFT/RIGHT buttons to select NDOM. Press the ENTER button. e disc will be played in random order.





nding on the disc, the Program and Random Play functions may not work.

sume normal play, press the CLEAR button.

RAM/RANDOM playback cannot be used if the disc contains more than two types of file extensions.

nit can support a maximum of 99 programmed order.

Picture CD Playback

R JPEG Discs

by files with the ".jpg" and ".JPG" extensions can be played.

The disc is not closed, it will take longer to start playing and not all of the recorded files may be red.

y CD-R discs with JPEG files in ISO 9660 or Joliet format can be played.

name of the JPEG file may not be longer than 8 characters and should contain no blank spaces special characters (./=+).

y a consecutively written multisession disc can be played. If there is a blank segment in the tisession disc, the disc can be played only up to the blank segment.

naximum of 500 images can be stored on a single CD.

dak Picture CDs are recommended.

en playing a Kodak Picture CD, only the JPEG files in the pictures folder can be played. ture discs other than Kodak Picture CD may take longer to start playing or may not play at all. number of files in 1 Disc is over 500, only 500 JPEG file can be played.
number of folders in 1 Disc is over 300, only JPEG files in 300 folders can be played.



Setting Up the Language Features

set the player menu, disc menu, audio and subtitle language in advance, ill come up automatically every time you watch a movie.

ng the Player Menu Language

th the unit in Stop mode, press the MENU button.

elect **Setup** using UP/DOWN buttons, then RIGHT ENTER button.

elect **Language Setup** using UP/DOWN buttons, en press the RIGHT or ENTER button.

elect **Player Menu** using UP/DOWN buttons, then less the RIGHT or ENTER button.

e the UP/DOWN buttons to select 'English'.

ess the ENTER button.

nglish is selected and the screen returns to SETUP menu.

make the SETUP menu disappear, press the RETURN or
EFT button.

sing the Disc Menu Language

nction changes the text language only on the disc creens.

th the unit in Stop mode, press the MENU button.

lect **Setup** using UP/DOWN buttons, then RIGHT ENTER button.

lect **Language Setup** using UP/DOWN buttons, en press the RIGHT or ENTER button.

elect **Disc Menu** using UP/DOWN buttons, then less the RIGHT or ENTER button.

e the UP/DOWN buttons to select 'English'.
elect "Others" if the language you want is not listed.

ess the ENTER button.

nglish is selected and the screen returns to SETUP menu.

e.g) Setting up in English.



e.g) Setting up in English.





Setting Up the Audio Options

MPEG-2 Digital Out

Audio Outputs. 2. Bitstream :

Converts to PCM(2CH) audio. Select PCM when using the Analog

Converts to MPEG-2 Digital Bitstream (5.1CH or 7.1CH).

Select Bitstream when using the Digital Audio Output.

th the unit in Stop mode, press the MENU button.

lect Setup using UP/DOWN buttons, then RIGHT ENTER button.

lect Audio Setup using UP/DOWN buttons, then ss the RIGHT or ENTER button.

e the UP/DOWN buttons to select the desired n. Then press the RIGHT or ENTER button.

Polby Digital Out
PCM:
Converts to PCM(2CH) audio.
Select PCM when using the Analog Audio Outputs. Bitstream:

Converts to Dolby Digital Bitstream (5.1CH).
Select Bitstream when using the Digital Audio Output.

NOTE Be sure to select the correct Digital Output or no audio will be heard.

TS

Off : Doesn't output digital signal.
 On : Outputs DTS Bitstream via digital output only.
 Select DTS when connecting to a DTS Decoder.

Oynamic Compression

On: To select dynamic compression.

Off: To select the standard range.



CM Down Sampling
On: Select this when the amplifier connected to the player is not 96KHz compatible. In this case, the 96KHz signals will be down converted to 48KHZ.
Off: Select this when the amplifier connected to the player is 96KHz compatible. In this case, all signals will be output without any changes.

TE

to make the SETUP menu disappear or return to menu screen during set up; RETURN or LEFT button. factured under license from Dolby Laboratories. y' and the double-D symbol are trademarks of Dolby Laboratories. and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

Setting Up the Display Options

Aspect

pending on the type of television you have, you may want to adjust the screen ting (aspect ratio).

4:3 Letter Box:
Select when you want to see the total 16:9 ratio screen DVD supplies, even

belect, when you want to see the total 16:9 ratio screen DVD supplies, even hough you have a TV with a 4:3 ratio screen. Black bars will appear at the top and bottom of the screen.

1:3 Pan Scan:
Select this for conventional size TVs when you want to see the central portion of he 16:9 screen. (Extreme left and right side of movie picture will be cut off.)

16:9 Wide:

You can view the full 16:9 picture on your widescreen TV.

ese options will help prevent picture shake in still mode and display small text

arer.
Auto: When selecting Auto, Field/Frame mode will be automatically converted.
Field: Select this feature when the screen shakes in the Auto mode.
Frame: Select this feature when you want to see small letters more clearly in the

reen Messages

e to turn on-screen messages On or Off.

ont Display
just the brightness of the unit's front panel display.
Auto Dim: Makes the Front Panel Display dim automatically when playing a DVD.
Bright: Makes the Front Panel Display bright.
Dim: Makes the Front Panel Display dim.

ck Level

justs the brightness of the screen.(On/Off)

SC Disc Output FSC" if the screen only has one NTSC-video entrance. If this is not the case,

a can choose to leave "PAL 60Hz" as is.



Setting Up the DVI Output

th the unit in Stop mode, press the MENU button.

lect **Setup** using UP/DOWN buttons, in RIGHT or ENTER button.

lect **DVI Output** using UP/DOWN buttons, in press the RIGHT or ENTER button.

nction corrects a biased TV screen to secure nal view. A or B Mode.





Troubleshooting

requesting service (troubleshooting), please check the following.

Problem	Action	Page
ations can be d with remote.	Check the batteries in the remote. May need replacing. Operate the remote control at a distance of no more than 20 feet. Remove batteries and hold down one or more buttons for several minutes to drain the microprocessor inside the remote to reset it. Reinstall batteries and try remote again.	P4
s not play.	Ensure that the disc is installed with the label side facing up. Check the region number of the DVD.	P7
inel sound is not produced.	5.1 channel sound is reproduced only when the following conditions are met.: 1) The DVD player is connected with the proper amplifier 2) The disc is recorded with 5.1 channel sound. Check whether the disc being played has the "Dolby 5.1 ch" mark on the outside.	P12
	 Check if your audio system is connected and working properly. In a SETUP Menu, is the Audio Output set to Bitstream? 	P41
icon appears on	The features or action cannot be completed at this time because: 1. The DVD's software restricts it. 2. The DVD's software oberst support the feature (e.g., angles). 3. The feature is not available at the moment. 4. You've requested a title or chapter number or search time that is out of range.	P18
nu doesn't appear.	Check if the disc has a Menu.	
de differs from the enu selection.	Some of the functions selected in the Setup Menu may not work properly if the disc is not encoded with the corresponding function.	P38~44
en ratio cannot ged.	The Screen Ratio is fixed on your DVDs.	P42~43
).	Make sure you have selected the correct Digital Output in the Audio Options Menu.	P41
assword	• Press power on from a cold start with no disc in the unit. Press the STOP (■) and PLAY (►II) buttons simultaneously on the front panel for three seconds. The Select Menu Language display will appear. Select the desired language button. Press the MENU button on the remote control to select the Parental Mode. The Parental Mode is now unlocked as indicated on the display. Press the DOWN button to select Parental. Press ENTER and the Create Password display will appear. You can now set your rating level and change your password to a new number.	P44
perience other s.	Go to the contents and find the section of the instruction book that contains the explanations regarding the current problem, and follow the procedure once again. If the problem still cannot be solved, please contact your nearest authorized service center.	

REFERENCE

ıl	Power Requirements	AC 110~240V, 50/60 Hz
	Power Consumption	18 W
	Weight	2.5 Kg
	Dimensions	430mm (W) X 240mm (D) X 60mm (H)
	Operating Temperature Range	+5°C to +35°C
	Operating Humidity Range	10 % to 75 %
	DVD	Reading Speed : 3.49 m/sec.
	(DIGITAL VERSATILE DISC)	Approx. Play Time
	00 400	(Single Sided, Single Layer Disc): 135 min.
	CD : 12Cm (COMPACT DISC)	Reading Speed : 1.2 to 1.4 m/sec. Maximum Play Time : 74 min.
	CD : 8Cm	Reading Speed: 1.2 to 1.4 m/sec.
	(COMPACT DISC)	Maximum Play Time : 20 min.
	VCD : 12Cm	Reading Speed: 1.2 to 1.4 m/sec.
		Maximum Play Time : 74 min. (Video + Audio)
	Composite Video	2 channel : 1.0 Vp-p (75 Ω load)
		Y: 1.0 Vp-p (75 Ω load)
	Component Video	Pr : 0.70 Vp-p (75 Ω load)
!		Pb : 0.70 Vp-p (75 Ω load)
		Luminance Signal : 1.0 Vp-p (75 Ω load)
	S-VIDEO	Chrominance Signal : 0.3 Vp-p (75 Ω load)
	DVI	Digital Visual Interface (50 Ω load)
	2 channel	L(1/L), R(2/R)
	*Frequency Response	48 kHz Sampling : 4 Hz to 22 kHz
	Troquency Trooperior	96 kHz Sampling : 4 Hz to 44 kHz
t	*S/N Ratio	110 dB
	*Dynamic Range	100 dB
	*Total Harmonic Distortion	0.004 %

^{*:} Nominal specification

ung Electronics Co., Ltd reserves the right to change the specifications without notice. at and dimensions are approximate.