

USER'S MANUAL

1-DIN 7 inch color TFT Display Car Multi-Media Player

- ◇ Auto-Insert Shock Absorbing Loader
- ◇ Electronic Anti-Shock Protection
- ◇ Electronic Tuning PLL Radio System
- ◇ 30 Memory Pre-set Stations
- ◇ Manual/Auto Seek Radio Station
- ◇ Automatic Memory Preset Store and Preset Scan Function
- ◇ 16:9 Wide View Angle Color TFT Display
- ◇ Real Time Clock Display
- ◇ Electronic Volume Control (Vol/Bass/Treble/Balance/Fader)
- ◇ Preset Equalizer Control (POP/ CLASSIC /ROCK/FLAT/JAZZ)
- ◇ 4 Channel High Power Output
- ◇ Rear Camera Video Input
- ◇ USB/SD Card Support
- ◇ Front Audio/Video Input
- ◇ Rear RCA Audio/Video Input
- ◇ Rear RCA Audio/Video Output
- ◇ Full Function Remote Control
- ◇ Handbrake Control
- ◇ Antenna Control
- ◇ Motorized Slide-Down Front Panel
- ◇ ISO 2-DIN Mounting Chassis Size
- ◇ Built-in Bluetooth Function (option)
- ◇ Built-in Analog TV (option)
- ◇ Built-in GPS (option)
- ◇ iPod Ready function (option)
- ◇ External Digital TV box (option)



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The unit is designed for 12V DC, negative ground operation system only. Before installing the unit, make sure your vehicle is connected to 12V DC negative grounded electrical system.






The negative battery terminal must be disconnected before making connections, which can reduce damaging to the unit due to short circuit.

Be sure to connect the speaker (-) leads to the speaker (-) terminal. Never connect the left and right channel speaker cables each other or to the vehicle body. Do not block vents or radiator panels. Blocking the will cause heat to build up inside and may result in fire.

After the completion of the installation and begin to operate the unit (including replacing the battery), please press the reset button on the front panel with pointed objects (such as ball pen) to set the unit to initial status.

Precautions

The unit can play the following disc only

Type of Disc	Label on the disc	Recorded material	Size of disc
MPEG4 / DIVX		Video and Audio	12cm
DVD		Video and Audio	12cm
VCD		Video and Audio	12cm
MP3 / WMA/JPEG		Compressed Digital Audio	12cm
CD		Audio	12cm

Note: The unit is compatible with DVD,DVD+/-R, VCD 1.0/2.0/3.0, SVCD, CD, CD-R, CD-RW and JPEG

- ❗ DO NOT ATTEMPT TO MODIFY THE UNIT, MODIFYING THE UNIT MAY CAUSE AN ACCIDENT.
- ❗ STOP THE VEHICLE BEFORE CARRYING OUT ANY OPERATION THAT COULD INTERFERE WITH YOUR DRIVING
- ❗ DO NOT TURN ON THE UNIT IF THE TEMPERATURE INSIDE THE VEHICLE IS OUT OF -20C TO 60C
- ❗ THIS PRODUCT IS DESIGNED FOR ONE SINGLE VIDEO OUTPUT, PLEASE USE A SPLITTER IF YOU WOULD LIKE TO CONNECT FOR MULTIPLE VIDEO OUTPUT



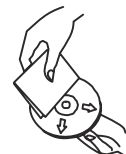
Handle the disc by its edge to keep the disc clean, and do not touch the surface

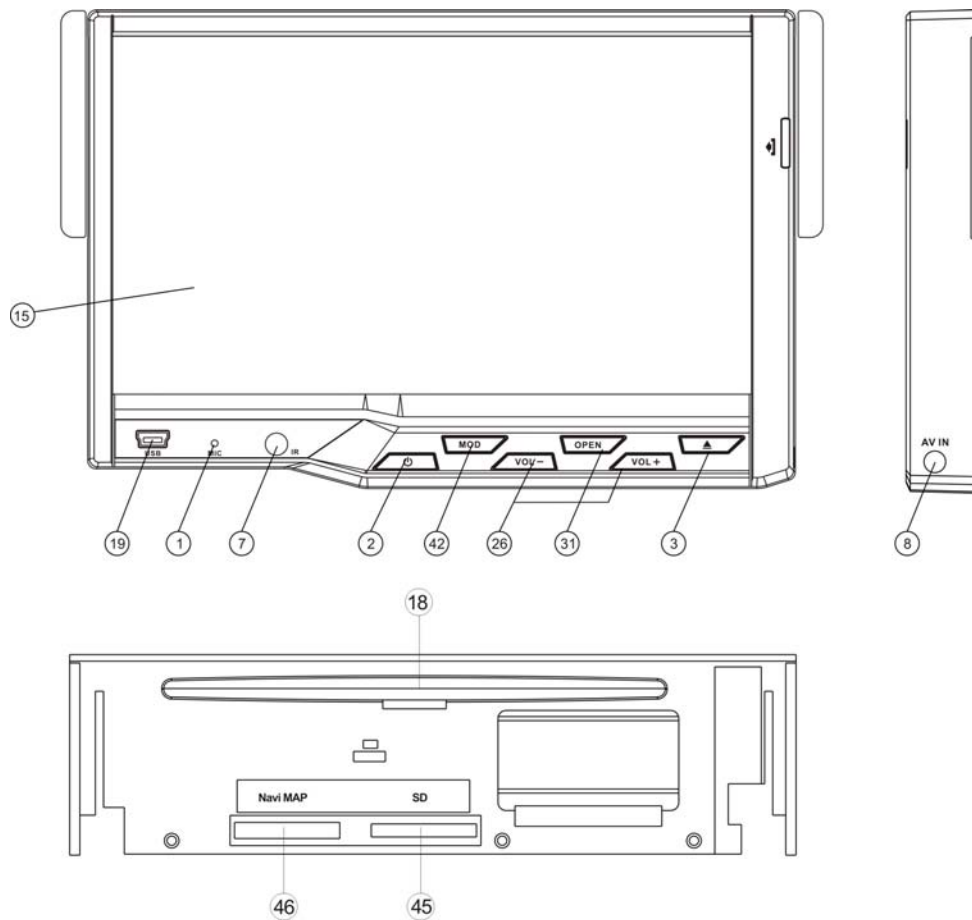


Do not use your CDs with paste residue or ink attached

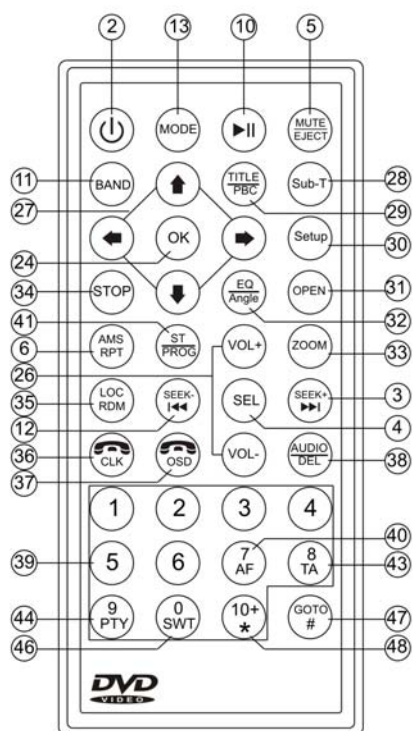
Do not use CDs with labels or stickers attached, which may leave a sticky residue while beginning to peel off

Clean the discs with an optional cleaning cloth. Wipe each disc from center out.







- | | |
|-------------------------------|------------------------|
| 1. Microphone (only for B. T) | 19. USB socket |
| 2. Power Button (TFT ON/OFF) | 23. Reset Button |
| 3. Eject | 26. Volume+/- |
| 7. IR sensor | 31. Open |
| 8. AV IN | 42. Mode Button |
| 14. Disc slot | 45. SD card socket |
| 15. TFT Display | 46. Navi MAP Card Slot |
| 17. Disc slot | |



- 2 Power(TFT ON/OFF)
- 3 Seek up/▶▶I
- 4 Audio SEL
- 5 Mute/Eject
- 6 AMS/Repeat
- 10 Play/Pause
- 11 Band
- 12 Seek Down/I◀◀
- 13 Mode
- 24 OK
- 26 Volume+/-
- 27 ◀ / ▶ / ▲ / ▼
- 28 Subtitle
- 29 Title Display/PBC
- 30 Setup
- 31 Open
- 32 EQ/Angle
- 33 Zoom
- 34 Stop
- 35 LOC/Random
- 36 Bluetooth Dialing(FORB.T)/CLK
- 37 Hangup(FORB.T)/OSD
- 38 Audio/DEL(FORB.T)
- 39 Number Keys
- 40 7/AF(FORRDS)
- 41 Stereo/Program
- 43 8/TA(FORRDS)
- 44 9/PTY(FORRDS)
- 46 0/SWT(FORB.T)
- 47 Playing Time Setting/#(FORB.T)
- 48 10+/ * (FORB.T)

Steering Wheel Remote Control

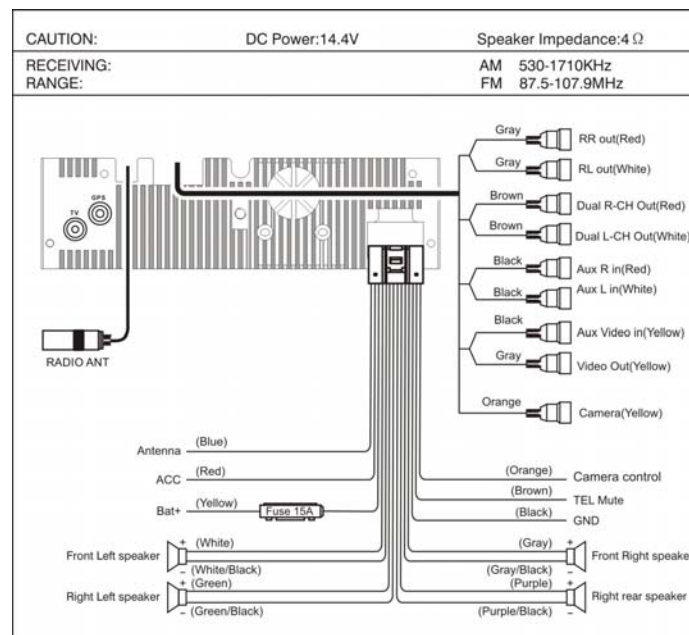
Press remote control “1, 6, 8”, go to the settings mode of the Steering wheel control, Steering wheel control

set up mode can be seen on the screen, it displays RST, OK, ~~MTUE~~, V-(VOL-), V+(VOL+), , , PWR (POWER), MOD (MODE)。

RST To clear the current settings; OK to confirm the current settings and exit setup mode of steering wheel control

Firstly, choose the function on the steering wheel remote of the car and find the corresponding button on the screen. Press the buttons until the icon return red. Repeat the above method of the operation set up. Then press OK button to confirm all function setting and exit the steering wheel remote mode.

Wiring Diagram



BASIC OPERATION

Initial System Starts Up

Operating the unit for the first time or after replacing the car battery, Press **RESET** button with a pointed object (such as ballpoint) to set the unit to initial procedure.

NOTE: When some errors occur in the LCD display, you can also press **RESET** button to resume to normal. And it will erase the clock setting and some memorized functions.

Turning the Unit ON/OFF

Press **POWER** button to turn on the unit. When the unit is on:

Short press **POWER** button, turn off the monitor, press **POWER** button again to turn on the monitor.

Long press **POWER** button to turn off the unit.

Volume Control

Press **VOLUME +/-** button for increase or decrease the sound volume

Mute Function

Press **MUTE** button shortly to cut down the sound output, and "MUTE" icon appear in the LCD display. Press it again to restore previous volume level.


Menu Function

Press **MENU** button to enter as below main menu display screen, you can touch the icon of the screen to enter different working mode.

Long press **MENU** button to enter navigation mode directly, long press it again to exit navigation mode directly.



Setting the audio & display & general setup

Touch  icon in the screen to enter setting mode, as below picture. You can touch the screen to set up the audio, display, time parameters etc.



BASIC OPERATION

Slide down and Slide up the front panel

Press **OPEN** button once to slide down one step until the bottom, Press **OPEN** button once again to slide up one step until the top.

IR Sensor

Receiver for wireless IR remote control.

Radio Operation

1. Touch the radio icon in the main menu display screen to select radio mode, the LCD will displays as following:






2. Touch the icon “BND” repeatedly to select bands in the following:
FM1→FM2→FM3→AM1→AM2→FM1 or **FM1→FM2→FM3→MW1→MW2→FM1**
3. Touch the icon “AMS” or press **AMS** key in IR handset shortly to activate automatically memory storing function.
4. Press **SEEKING UP** or **SEEKING DOWN** or icon **I<<** **>>I** shortly to manual seek the radio station
5. Long press **SEEKING UP** or **SEEKING DOWN** or icon **I<<** **>>I** to automatically seek the radio station
6. Touch the frequency bar in the display screen to select preset memory station.
7. Long press icon “AMS” to scan each preset memory station for 10S.
8. Touch the icon “ST” or Press **ST** key in IR handset to set stereo or mono receiving mode.

AUX & TV operation (TV is option function)


AV-IN Operation

1. Press **MENU** button to enter main menu display screen.
2. You can touch icon “AV-IN” to switch to your desired av in mode.

TV Operation (option function)

1. Press **MENU** button to enter main menu display screen.
2. Touch the icon  to enter TV mode.
3. If touching the display screen, the TV OSD will be displayed
4. Press **BAND** button or touch the “SYS” icon repeatedly to select color TV system in the following order:
PAL-I→PAL D/K→PAL B/G→NTSC →PAL-I
5. Touch the icon “AS” to automatically search and store the TV program station.
6. Press **SEEKING UP** or **SEEKING DOWN** button shortly or touch the icon   to select storing station sequentially.



iPod Ready operation (option function)

1. Press **MENU** button to enter main-menu display scree.
2. Touch the icon  to select the iPod mode . (Note: If don't connect the iPod, can't enter this mode.)
3. Touch every icon , you can operate iPod function.

Bluetooth Telephone Function


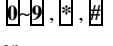



1. Pair the mobile phone with Bluetooth and the unit.
 - Turn on the Bluetooth function of your mobile phone
 - Use your mobile phone to search the Bluetooth device
 - Find out the Bluetooth device named "CAR KIT"
 - Connect the device by your mobile phone, please input "0000" while asking PIN code.
 - If displaying the successful message in your mobile phone, then finish the pairing operation.

2. Answer a calling



- When coming call, the display will show the information of the calling phone number.
- Touch the icon , you can hear the caller voice, press VOL+/- button to adjust volume.
- Speak to the microphone in the front panel, then you can talk with caller.
- Press the icon  to hang off the calling.




3. Dial a phone number by IR remote handset


- Touch the icon  to enter the Bluetooth mode in main menu screen.
- Touch the icon  to enter the phone number, touch the icon  to delete the previous number.
- Touch the icon  to confirm and dial out the phone number.
- Press the icon  to hang off the calling.

4. Listen the Bluetooth Stereo Music (A2DP)

- Set your mobile phone Bluetooth to stereo music transmission
- Play music through multimedia play application of your mobile phone.
- Enter the Bluetooth mode.
- Then you can hear the music which the Bluetooth transfer.
- Press PLAY/PAUSE button to play or pause the music.
- Touch the icon  or  to skip the next or previous chapter.

NOTE: This function require your mobile phone supports the Bluetooth A2DP protocol.


1. Press **MENU** button and touch the NAVI icon to select navigation mode . In the left upright bar,  is setup function.

2. If click the icon , the middle window will display setup function icon, include navigate setup, usual setup, GPS monitor, touch screen adjust, screen adjust, time setup, skin setup, system message.


Please see picture.

3. Application function operation

3-1. Navigation


Touch the icon  to enter navigation application, Please refer to map software user's manual for operation.

3-2. Electric-book viewer

Touch the icon  to enter electric-book viewer, please see picture.


Touch the different icon , , , ,  to select different function

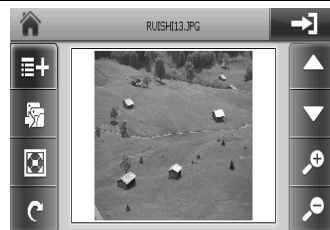
3-3. Music player

Touch the icon  to enter music player, please see picture.




3-4. Picture Viewer

Touch the icon  to enter picture viewer, please see picture.




3-5. Movie player


Touch the icon  to enter picture viewer, please see picture.

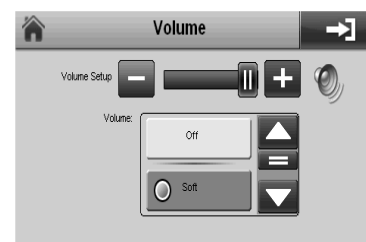



4. Navigation setup operation

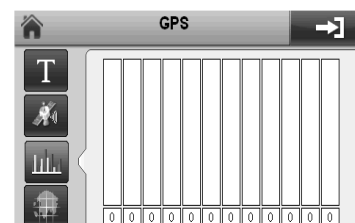
4-1. Navigate path setup 



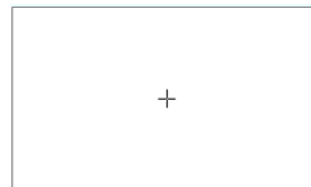
4-2. Usual setup 



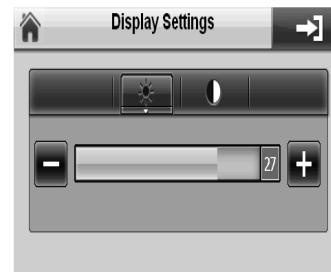
4-3. GPS monitor 



4-4. Touch screen adjust



4-5. Monitor adjust



4-6. Time setup



4-7. Language setup





4-8. System information



Playing USB storage device and SD Card



To enjoy the music and video in SD card and USB storage device, only need to insert USB and SD card into the slot, so the unit starts to play automatically. After leave this mode, you can press **MENU** button

and touch the media icon  or  to switch to Play USB storage or SD card.

Playing DVD/VCD/SVCD/CD Disc

1. Insert the multimedia disc


To enjoy the music and video in DVD/VCD/SVCD/CD disc, only need to insert a disc with labeled side up into the disc slot, so the unit starts to play automatically. After leave this mode, you can press **MENU** button

and touch the icon  to switch to Play the multimedia disc again. After leave this mode, you can touch the  icon to go back main menu.



2. Eject the disc

Press **EJECT** button to eject the disc.

Pause the playing

Touch the icon  to pause the playing, touch it again to restore playing.

Playing the next /previous chapter

Touch the icon  or  shortly to skip the next or previous chapter.

Fast forward or remind playing

Long touch the icon  or  to fast forward or remind the disc.

Repeat playing

Touch the icon “**RPT**” to play one track repeatedly, Press **RPT** key in IR handset to play the track repeatedly.

Random Playing

Touch the icon “**RDM**” or Press **RDM** key in IR handset to play any track randomly.

On Screen Display

Press **OSD** key in IR handset, the screen will display Track/Chapter nbr, current playing time etc.

Program Playing

Press **PROG** key in IR handset to enter programming page, press arrow key and number key in IR handset to program the tracks to be played.

Audio selector

Repeatedly press **AUDIO** key in IR handset to change the different audio track mode.

Subtitle selector

Press **SUB-T** key in IR handset to select language.

Setting Disc playback time

Press **GOTO** key in IR handset to set the specific time to play, use arrow keys and number keys to set track/chapter on time, and press **ENTER** key to play.

Stop the playback

Press **STOP** key in IR handset to suspend the playback, press it again to stop the playback.

Multi-angle selector

Press **ANGLE** key in IR handset to watch the DVD content from different angle if the disc support.

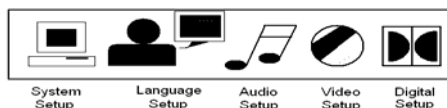
Go to Title

Press **TITLE** key in IR handset to show all track's title on screen. Then press nbr keys or arrow keys to choose your desired track nbr and press **ENTER** key or **PLAY/PAUSE** key to start.

Multimedia Playing Setup (enter setup mode)

Enter setup mode

1. Press **SETUP** key in IR handset in the stop mode when playing multimedia.
2. The main page of setup menu is displayed.



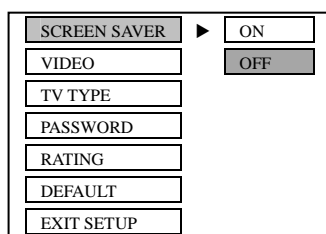
3. Select the preferred item by using the arrow keys
4. Press **ENTER** key to confirm setting.

Multimedia Playing Setup (system setup menu)

System setup

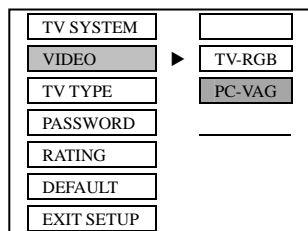
The setup page include all the items of TV system, screen saver, TV type, password, rating & default features

TV system setup menu

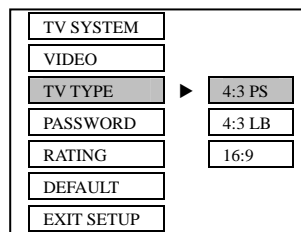


This player can play discs recorded in either PAL or NTSC format. Select NTSC format when you connected to NTSC TV. Select PAL format when you connected to PAL TV. If you select AUTO, the unit will auto select the format (PAL/NTSC) according to your disc content.

Video setup menu

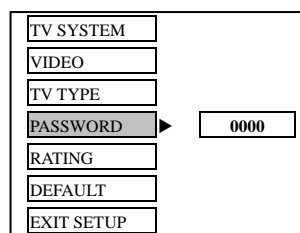


TV type setup menu



1. 4:3 PS
Playback in the PAN & SCAN style. (If connected to wide-screen TV, the left and right edges are cut off)
2. 4:3 LB
Playback in LEFTERR BOX style. (If connected to wide-screen TV, black bands appear at top and bottom of the screen).
3. 16:9
Select when a wide-screen TV set is connected.

Password setup menu



Enter the password and press ENTER button. Type the old password (The initial factory code is 0000) and key in 4 characters password now you want to use, and type again to confirm

Multimedia Playing Setup (system setup and language setup menu)

Rating setup menu

TV SYSTEM	1 KID SAFE
VIDEO	2 G
TV TYPE	3 PG
PASSWORD	4 PG13
RATING	5 PG-R
DEFAULT	6 R
EXIT SETUP	7 NC 17
	8 ADULT

Select suitable guidance rating by the cursor button and confirmed by pressing ENTER key.

Rating 1: [KID SAFE]

Select this when the program are safe to all kid view.

Rating 2: [G]

Select this that allows admission to person of all ages.

Rating 3: [PG]

Select following when children under 13 are forbidden to view

Rating 4: [PG13]

Select following when children under 13 are forbidden to view.

Rating 5: [PG-R]

Select this when the PG-R was printed on the DVD disc.

Rating 6: [R]

Select this when children under 17 are forbidden to view.

Rating 7: [NC 17]

Select this when children under 17 are forbidden to view.

Rating 8: [ADULT]

Select this when only allows admission to all adults.

Default setup menu

TV SYSTEM	
VIDEO	
TV TYPE	
PASSWORD	
RATING	
DEFAULT	RESTORE
EXIT SETUP	

Select restore to become factory initial setting.

Language Setup

This setup page includes all the items of OSD language, Audio language, Subtitle Language and Menu Language features.

OSD Language Setup

OSD LANGUAGE	ENGLISH
AUDIO LANG	GERMAN
SUBTITLE LANG	SPANISH
MENU LANG	FRENISH
	ITALIAN
	RUSSZAN
EXIT SETUP	

Audio Language Setup

OSD LANGUAGE	ITALIAN
AUDIO LANG	ENGLISH
SUBTITLE LANG	JAPAN
MENU LANG	FRENCH
	SPANISH
	RUSSINA
	LATIN
EXIT SETUP	GERMAN

Multimedia Playing Setup (language setup and audio setup menu)

Subtitle Language Setup

OSD LANGUAGE	ITALIAN
AUDIO LANG	ENGLISH
SUBTITLE LANG	JAPAN
MENU LANG	FRENCH
	SPANISH
	RUSSIAN
	GERMAN
EXIT SETUP	OFF

Menu Language Setup

OSD LANGUAGE	ITALIAN
AUDIO LANG	ENGLISH
SUBTITLE LANG	JAPAN
MENU LANG	FRENCH
	SPANISH
	RUSSIAN
	GERMAN
EXIT SETUP	LATIN

AUDIO SETUP

This setup page includes all the items for AUDIO.

Audio Out Setup

AUDIO OUT	SPDIF OFF
KEY	SPDIF RAW
	SPDIF PCM

This is to activate the audio output from SPDIF OFF mode to SPDIF RAW mode or SPDIF PCM mode.

SPDIF OFF:

Analog or optical output port has no output signal at all.

SPDIF RAW:

When the player is connected with the power amplifier by the analog or optical port, please select this item when the playing disc which is recorded in Dolby Digital, DTS or MPEG. The analog or optical output signal of the unit will be the same as the digital signal (RAW format) of the playing disc. At the same time, the power amplifier you connected must have decode function of Dolby Digital, DTS or MPEG.

SPDIF PCM:

When the player is connected with the 2 channels, digital stereo amplifier, please select this item. When the playing disc which is recorded in Dolby Digital or MPEG. The analog or optical output will be modulated to 2 channels output by PCM.

Key Setup Menu

AUDIO OUT	#
KEY	- +4
	- +2
	- 0
	- -2
	- -4
	b

This is to select Treble or Bass according to your needs.

This is for the user to set Brightness, Contrast, Hue and Saturation of the picture by pressing the arrow left/right button.

Press ENTER key to confirm the change.

NOTE: Only on TV/AV mode, the Video setup is available.

VIDEO SETUP

This setup page includes all the items for VIDEO.

Brightness setup menu

BRIGHTNESS	▶	- 12
CONTRAST		- 10
HUE		- 8
SATURATION		- 6
SHARPNESS		- 4
EXIT SETUP		- 2
		- 0

Sharpness setup menu

BRIGHTNESS		- 8
CONTRAST		- 6
HUE		- 4
SATURATION		- 2
SHARPNESS	▶	- 0
EXIT SETUP		

Contrast setup menu

BRIGHTNESS		- 12
CONTRAST	▶	- 10
HUE		- 8
SATURATION		- 6
SHARPNESS		- 4
EXIT SETUP		- 2
		- 0

HUE setup menu

BRIGHTNESS		- +6
CONTRAST		- +4
HUE	▶	- +2
SATURATION		- 0
SHARPNESS		- -2
EXIT SETUP		- -4
		- -6

Saturation setup menu

BRIGHTNESS		- 12
CONTRAST		- 10
HUE		- 8
SATURATION	▶	- 6
SHARPNESS		- 4
EXIT SETUP		- 2
		- 0

DIGITAL SETUP

This is for the user to set the operation mode, dynamic range compression and stereo mode.

OP Mode setup menu

OP MODE	▶	LINE OUT
DYNAMIC RANGE		RF REMOD
DUAL MONO		
EXIT SETUP		

To set the operating modes for Dolby Digital decoder.

Dynamic Range setup menu

OP MODE	▶	- FULL
DYNAMIC RANGE		- 6/8
DUAL MONO		- 4/8
EXIT SETUP		- 2/8
		- OFF

Dual Mono setup menu

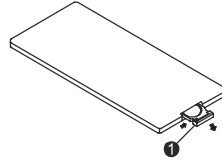
OP MODE	▶	STEREO
DYNAMIC RANGE		MONO L
DUAL MONO		MONO R
EXIT SETUP		MX MONO

Replace the Battery of IR Handset

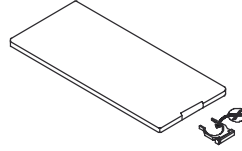
Replace the Battery

When the operational range of the remote control becomes short or non-functions while operating. Replace a new CR2025 battery. Make sure the battery polarity before replacement.

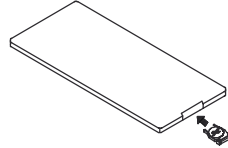
1. Pull out the battery holder while pressing the stopper 1.

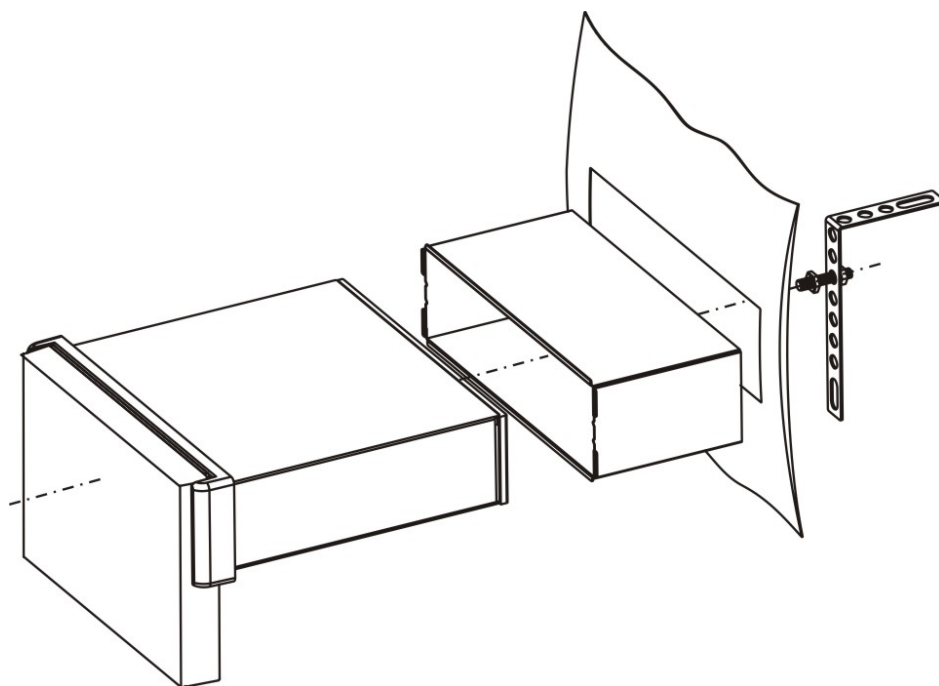


2. Pull the button type battery (+) mark upward into the battery holder.



3. Insert the battery holder into the remote controller.





Specification

General

Power Supply Requirement:	12V DC
Speaker Load Impedance:	4 Ω
Max. Power Output:	40W x 4CH
Tone Controls:	8dB (Bass 100Hz, Treble 10KHz)
Dimensions:	Approx. 192 x 178 x 50mm (D x W x H)
Mounting Dimensions:	Approx. 163 x 182 x 53mm (D x W x H)
Weight:	Approx. 2.75KG

DVD deck section

Disc played:	DVD, MPEG4, DIVX, VCD1.0/2.0, MP3, WMA, CD, CD-R/RW, Picture CD
Video System:	Auto/PAL/NTSC
Mounting Angle:	0 ~ 30 degree

Video Section

Video System:	4:3 Letter Box, 4:3 Pan scan, 16:9 Wide Screen
Video Output Level:	1.0V _{pp} / 75 Ω
Horizontal Resolution:	500

Audio Section

Max. Output Level:	2 V _{rms} (\pm 3dB)
Frequency Response:	20Hz ~ 20KHz
Signal to Noise ratio:	85dB
Separation:	80dB

FM Tuner Section

Tuning Range:	87.5 ~ 108.0MHz
IF Range:	10.7MHz
Usable Sensitivity (-30dB):	12dBu
Signal to Noise ratio:	60dB
Stereo Separation:	30dB (1KHz)
Frequency Response:	30 ~ 15KHz

AM Tuner Section

Frequency Range:	522 ~ 1620KHz
IF Range:	450KHz
Usable Sensitivity (-20dB):	32dBu

NOTE: Due to continuous product improvement, specifications and design will change without notice.

* This feature is optional, please refer to unit. Under compressed motion pictures (DIVX/MPEG4), file name under extension AVI can be played back.

FCC WARNING

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: The manufacturer is not responsible for and radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.