

Panasonic®

Dual DIN In-dash 6.1" Widescreen Color LCD Monitor/DVD Receiver
Monitor LCD en color de pantalla panorámica de 6.1"/receptor y DVD DIN
doble empotrado en el tablero de instrumentos

Model: **CQ-VW120L**



Operating Instructions Manual de Instrucciones



MP3



- Please read these instructions carefully before using this product and keep this manual for future reference.
- Lea estas instrucciones cuidadosamente antes de usar este producto y guarde este manual para usar como referencia futura.

Safety Information

- Read the operating instructions for the unit and all other components of your car audio system carefully before using the system. They contain instructions about how to use the system in a safe and effective manner. Panasonic assumes no responsibility for any problems resulting from failure to observe the instructions given in this manual.

- This manual uses pictographs to show you how to use the product safely and to alert you to potential dangers resulting from improper connections and operations. The meanings of the pictographs are explained below. It is important that you fully understand the meanings of the pictographs in order to use this manual and the system properly.



Warning

This pictograph intends to alert you to the presence of important operating instructions and installation instructions. Failure to heed the instructions may result in severe injury or death.



Caution

This pictograph intends to alert you to the presence of important operating instructions and installation instructions. Failure to heed the instructions may result in injury or material damage.

Warning

Observe the following warnings when using this unit.

- ❑ **The driver should neither watch the display nor operate the system while driving.**
Watching the display or operating the system will distract the driver from looking ahead of the vehicle and can cause accidents. Always stop the vehicle in a safe location and use the parking brake before watching the display or operating the system.
- ❑ **Use the proper power supply.**
This product is designed for operation with a negative grounded 12 V DC battery system. Never operate this product with other battery systems, especially a 24 V DC battery system.
- ❑ **Protect the Disc Mechanism.**
Do not insert any foreign objects into the slot of this unit.
- ❑ **Do not disassemble or modify the unit.**
Do not disassemble, modify the unit or attempt to repair the product yourself. If the product needs to be repaired, consult your dealer or an authorized Panasonic Service center.
- ❑ **Do not use the unit when it is out of order.**
If the unit is out of order (no power, no sound) or in an abnormal state (has foreign objects in it, is exposed to water, is smoking, or smells), turn it off immediately and consult your dealer.
- ❑ **Refer fuse replacement to qualified service personnel.**
When the fuse blows out, eliminate the cause and have it replaced with the fuse prescribed for this unit by a qualified service technician or service center. Incorrect replacement of the fuse may lead to smoke, fire, and damage to the product.

Observe the following warnings when installing.

- ❑ **Disconnect the lead from the negative (–) battery terminal before installation.**
Wiring and installation with the negative (–) battery terminal connected may cause electrical shock and injury due to a short circuit.
Some cars equipped with the electrical safety system have specific procedures of battery terminal disconnection.
FAILURE TO FOLLOW THE PROCEDURE MAY LEAD TO THE UNINTENDED ACTIVATION OF THE ELECTRICAL SAFETY SYSTEM RESULTING IN DAMAGE TO THE VEHICLE AND PERSONAL INJURY OR DEATH.
- ❑ **Never use safety-related components for installation, grounding, and other such functions.**
Do not use safety-related vehicle components (fuel tank, brake, suspension, steering wheel, pedals, airbag, etc.) for wiring or fixing the product or its accessories.
- ❑ **Installing the product on the air bag cover or in a location where it interferes with airbag operation is prohibited.**
- ❑ **Check for piping, gasoline tank, electric wiring, and other items before installing the product.**
If you need to open a hole in the vehicle chassis to attach or wire the product, first check where the wire harness, gasoline tank, and electric wiring are located. Then open the hole from outside if possible.
- ❑ **Never install the product in a location where it interferes with your field of vision.**
- ❑ **Never have the power cord branched to supply other equipment with power.**
- ❑ **After installation and wiring, you should check the normal operation of other electrical equipment.**
The continuation of their using in abnormal conditions may cause fire, electrical shock or a traffic accident.
- ❑ **In the case of installation to an airbag equipped car, confirm warnings and cautions of the vehicle manufacturer before installation.**
- ❑ **Make sure the leads do not interfere with driving or getting in and out of the vehicle.**
- ❑ **Insulate all exposed wires to prevent short circuiting.**

Caution

Observe the following cautions when using this unit.

- ❑ **Keep the volume at an appropriate level.**
Keep the volume level low enough to be aware of road and traffic conditions while driving.
- ❑ **Do not insert or allow your hand or fingers to be caught in the unit.**
To prevent injury, do not get your hand or fingers caught in moving parts or in the disc slot. Especially watch out for infants.
- ❑ **This unit is designed for use exclusively in automobiles.**
- ❑ **Do not operate the unit for a prolonged period with the engine turned off.**
Operating the audio system for a long period of time with the engine turned off will drain the battery.
- ❑ **Do not expose the unit to direct sunlight or excessive heat.**
This will raise the interior temperature of the unit, and it may lead to smoke, fire, or other damage to the unit.
- ❑ **Do not use the product where it will be exposed to water, moisture, or dust.**
Exposure of the unit to water, moisture, or dust may lead to smoke, fire, or other damage to the unit. Make especially sure that the unit does not get wet in car washes or on rainy days.
- ❑ **Set the volume level to low enough before the AV IN connection is completed.**
Failure to observe this, the loud noise may come out and damage your speakers and your hearing. Direct connection of the speaker/headphone output of an external device without any attenuator may distort sound or damage the connected external device.

Observe the following cautions when installing.

- ❑ **Refer wiring and installation to qualified service personnel.**
Installation of this unit requires special skills and experience. For maximum safety, have it installed by your dealer. Panasonic is not liable for any problems resulting from your own installation of the unit.
- ❑ **Follow the instructions to install and wire the product.**
Not following the instructions to properly install and wire the product could cause an accident or fire.

❑ **Take care not to damage the leads.**

When wiring, take care not to damage the leads. Prevent them from getting caught in the vehicle chassis, screws, and moving parts such as seat rails. Do not scratch, pull, bend or twist the leads. Do not run them near heat sources or place heavy objects on them. If leads must be run over sharp metal edges, protect the leads by winding them with vinyl tape or similar protection.

❑ **Use the designated parts and tools for installation.**

Use the supplied or designated parts and appropriate tools to install the product. The use of parts other than those supplied or designated may result in internal damage to the unit. Faulty installation may lead to an accident, a malfunction or fire.

❑ **Do not block the air vent or the cooling plate of the unit.**

Blocking these parts will cause the interior of the unit to overheat and will result in fire or other damage.

❑ **Do not install the product where it is exposed to strong vibrations or is unstable.**

Avoid slanted or strongly curved surfaces for installation. If the installation is not stable, the unit may fall down while driving and this can lead to an accident or injury.

❑ **Installation Angle**

The product should be installed in a horizontal position with the front end up at a convenient angle, but not more than 30°.

The user should bear in mind that in some areas there may be restrictions on how and where this unit must be installed. Consult your dealer for further details.

❑ **Wear gloves for safety. Make sure that wiring is completed before installation.**

❑ **To prevent damage to the unit, do not connect the power connector until all the wiring is completed.**

❑ **Do not connect more than one speaker to one set of speaker leads. (except for connecting to a tweeter)**

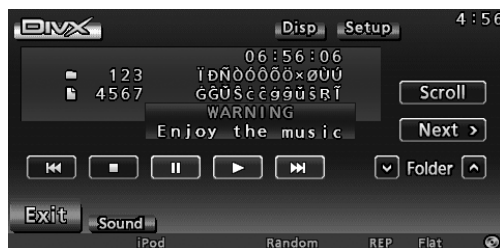
Caution

- **PLEASE FOLLOW THE LAWS AND REGULATIONS OF YOUR STATE, PROVINCE OR COUNTRY FOR WIRING, INSTALLATION, AND USE OF THIS UNIT AND THE DEVICES TO BE CONNECTED.**

Safety Information (continued)

Caution

THIS PRODUCT IS A CLASS I LASER PRODUCT.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE
OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN
MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR BY YOUR-
SELF. REFER SERVICING TO QUALIFIED PERSONNEL.



This system is designed so that you cannot see moving pictures while you are driving.

- Park your car in a safe place and pull the side brake (parking brake) lever before watching the monitor.
- A rear monitor (option) displays moving pictures while driving.

Note:

- Be sure to connect the side brake (parking brake) connection lead.
(⇒ Installation Instructions)

Notes on Use

Liquid Crystal Panel

- Do not cause impact to the liquid crystal panel.
- Usage temperature range: 0 °C to 40 °C
{32 °F to 104 °F}

When the temperature is very cold or very hot, the image may not appear clearly or may move slowly. Also, movement of the image may seem to be out of synchronization or the image quality may decline in such environments. Note that this is not a malfunction or problem.

- In order to protect the liquid crystal panel, keep it out of direct sunlight while the unit is not in use.

- Sudden changes in the temperature inside the car such as those which occur immediately after the car's air conditioner or heater has been turned on may cause the inside of the liquid crystal panel to cloud over due to water vapor or it may cause condensation (droplets of water) to form and, as a result, the panel may not work properly. Do not use the unit while these symptoms are in evidence but leave the unit standing for about an hour, and then resume or start use.

Components



1. Main Unit
(LCD monitor/DVD player)

Qty.: 1



2. Operating Instructions
<YFM264C161CA>

Qty.: 1



3. Installation Instructions
<YFM294C153CA>

Qty.: 1

4. Installation Hardware (screws, cords, etc.)
(⇒ Installation Instructions)

Note:

- The number in parenthesis underneath each accessory part name is the part number for maintenance and service.
- Accessories and their parts numbers are subject to modification without prior notice due to improvements.

Features

Panasonic welcomes you to our constantly growing family of electronic product owners.

We endeavor to give you the advantages of precise electronic and mechanical engineering, manufactured with carefully selected components, and assembled by people who are proud of the reputation their work has built for our company. We know this product will bring you many hours of enjoyment, and after you discover the quality, value and reliability we have built into it, you too will be proud to be a member of our family.

■ USB Connector

- By connecting the iPod/iPhone series to the USB connector via a USB extension cable for iPod/iPhone (USB 2.0, not included), you can enjoy music/video files stored on the iPod/iPhone series in your car.
- The USB connector is equipped. Connection of a USB memory (not included) to the USB connector allows users to enjoy MP3/WMA files stored on the USB memory in the car.

Compatible USB devices

● USB Mass Storage Class

For details as to whether your USB memory/USB Audio is compatible with USB Mass Storage Class, please contact the USB memory/USB Audio manufacturer.

- **USB Standard Compatibility 1.1/2.0 Full Speed**
- **File System FAT12/16/32**
- **Maximum current less than 500 mA**
- **Capacity less than 4 GB (1 partition)**

Note:

- The use of USB devices that contain data files other than MP3/WMA format is not recommended.
- Audio playback may not be possible with some types of USB device connected.
- Playback or display may not be possible depending on the type of USB device or the condition of the recording.
- For video browsing of the iPod/iPhone, please use the optional Direct Cable for iPod with Video (CA-LDC100X) for connection with AV IN connector of this unit. (⇒ Installation Instructions)

■ Integration of the monitor, FM/AM radio, DVD Video/Video CD player and CD/MP3/DivX player

■ Built-in AV Input Terminals

For more convenient connection and setup, all terminals are now provided on the unit itself.

Note:

- If a non-Panasonic product is connected to this unit, we do not guarantee the operations of the product.

■ SQ (Sound Quality)

You have 6 preset modes (Flat, Rock, Pop, Vocal, Jazz, Club). You can customize your setting for these and save them for instant recall.

SQ3 (3-Band Sound Quality)

Center frequency and level are adjustable in each of 3 bands. This lets you fine-tune sound quality for each genre to suit car-interior acoustics and your personal preferences. (⇒ page 37)

■ GUI (Graphic User Interface)

GUI displays various indications with colorful symbols to enhance visibility, enjoyment, and operability.

■ Disc type auto-detection

The signal auto-detection function of this unit allows users to be free from selection between PAL and NTSC before use of your discs.

■ Touch Panel Operation

Simply touch the screen lightly to operate virtually all functions. Easy-to-use menus and icons let you “touch and choose” what you want, so you can start using your system from the very first day. That also means that while you drive, you can concentrate on the road.

■ DVD-R, DVD-RW Playback

(⇒ page 16, 48 for details)

- **Discs in the video recording (VR) format are unplayable.**

■ ID code

4-digit ID code for increased security.

Fill in the ID code memo (⇒ page 46).

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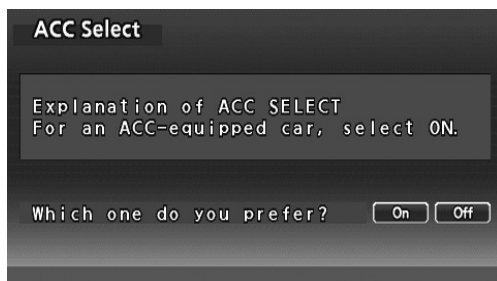
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Preparation

First Time Power On

When the power of this unit is turned on for the first time, the following screen appears. Perform the settings in accordance with the specifications of the car on which this unit is mounted.



On : sets to ON if your car has ACC position.

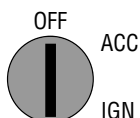
Off : sets to OFF if your car has no ACC position.

Note:

- For an ACC-equipped car, select ON. The following functions are available.
 - The power is turned on automatically when inserting a disc.
 - **Off** selection disables turning on the power of the main unit through the remote control (option).

⚠ Caution

- Be sure to select off when your car has no ACC position in the ignition switch. Failure to do this could cause the battery to go dead.



Other Settings

Basic Setting (basic settings) (⇒ page 34)

clock, ID code, input, other, memory clear

Screen (screen settings) (⇒ page 36)

dimmer, display adjustment, aspect

Sound (sound settings) (⇒ page 37)

SQ3, bass/treble, balance/fader

Disc (disc settings) (⇒ page 38)

audio language, subtitle language, menu language, video setting, audio setting, DivX registration

Radio (radio settings) (⇒ page 39)

FM setup

Note:

- Refer to “Settings” (⇒ page 32) for further information about operations, settings, and others of the menu screen.

You may need to set the following depending on the devices to be connected.

AV IN (Camcorder, VCR, etc.)

- Adjust **Input**. (⇒ page 34)

⚠ Warning

- When you connect external devices to this unit, be sure to connect the side brake connection lead (⇒ Installation Instructions).

Symbols used in this manual

Pictographs

You can perform some operations of this unit in one or more methods with the touch panel or remote control (option). This book explains such operations in tabular form as follows. Refer to the following for the pictographs located in the upper part of each table.



Compatible types of disc

The discs compatible with the targeted operation.



Operation on the Touch Panel

You can use the touch panel to perform the targeted operation. If the operation is not executable with the touch panel, “—” is displayed.




Operation on the Main Unit

You can use the Main Unit to perform the targeted operation. If the operation is not executable with the Main Unit, “—” is displayed.

Disc Marks


The following pictographs are used for the descriptions of disc operation. (➡ page 17-21)

 : DVD

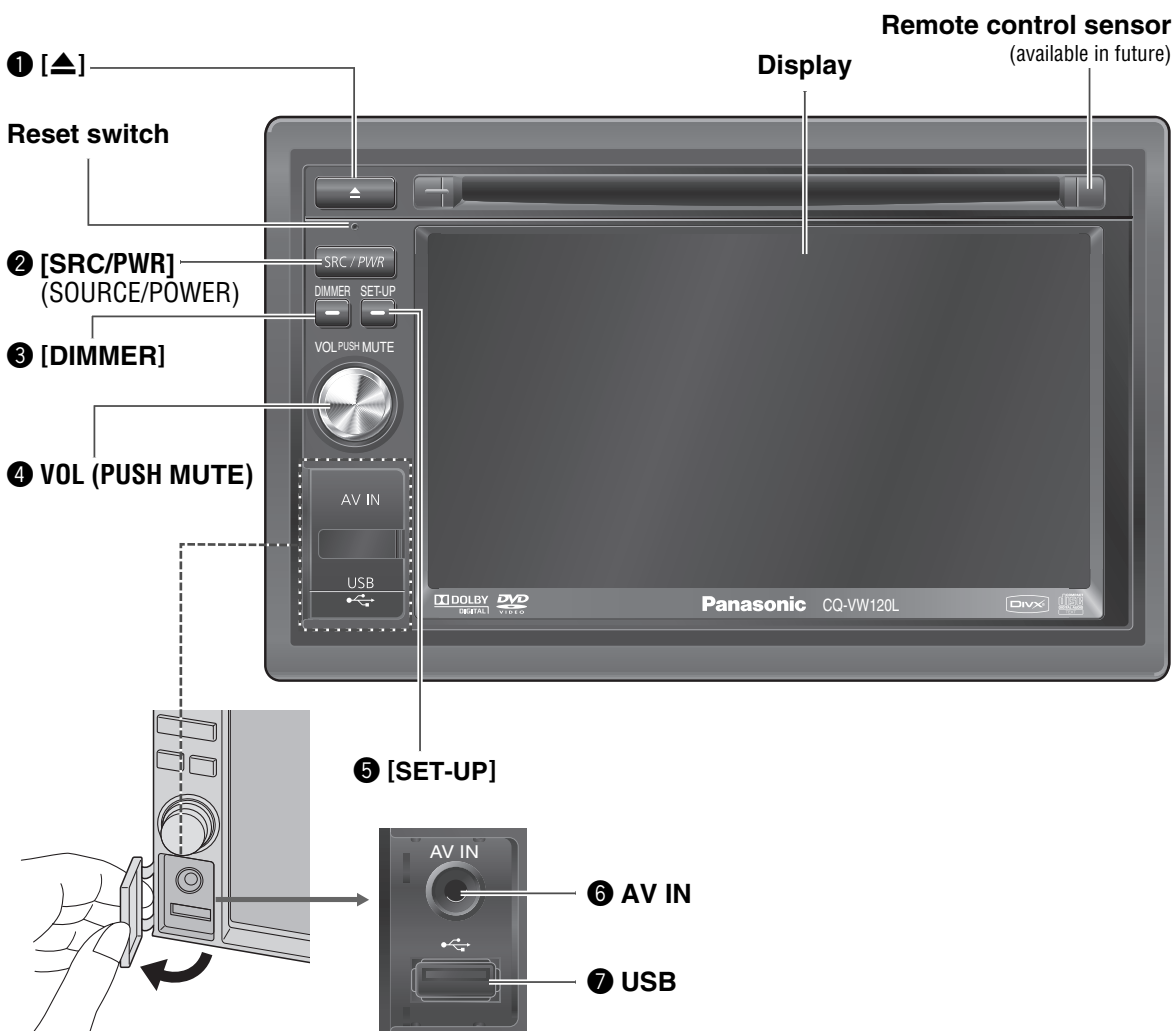
 : VCD (Video CD)

 : CD

 : CD-Rs/RWs containing MP3 files

 : CD-Rs/RWs or DVD-Rs/RWs containing DivX files

Name of Controls and Functions



- | | | | |
|--|--|--|---|
| <p>1 [▲]</p> <p>2 [SRC/PWR]</p> <p>3 [DIMMER]</p> <p>4 VOL (PUSH MUTE)</p> | <ul style="list-style-type: none"> • Ejects the disc. • Switches on/off the power. • Changes the modes such as sound and picture. • The screen brightness is toggled between the set level and maximum luminance. • Adjusts the sound volume. • Mutes the sound temporarily. | <p>5 [SET-UP]</p> <p>6 AV IN</p> <p>7 USB</p> | <ul style="list-style-type: none"> • Shows the setup screen. • Connect an external AV device. • Connect a USB audio device or an iPod. |
|--|--|--|---|



Touch Panel Operation Overview

Notes on the Touch Panel

Before operation

- Clean the surface of the touch panel. (→ page 47)

Operation

- Use only your fingers to operate the touch panel.
- Do not press the panel forcefully.
- Do not scratch the panel with fingernails or any hard objects.

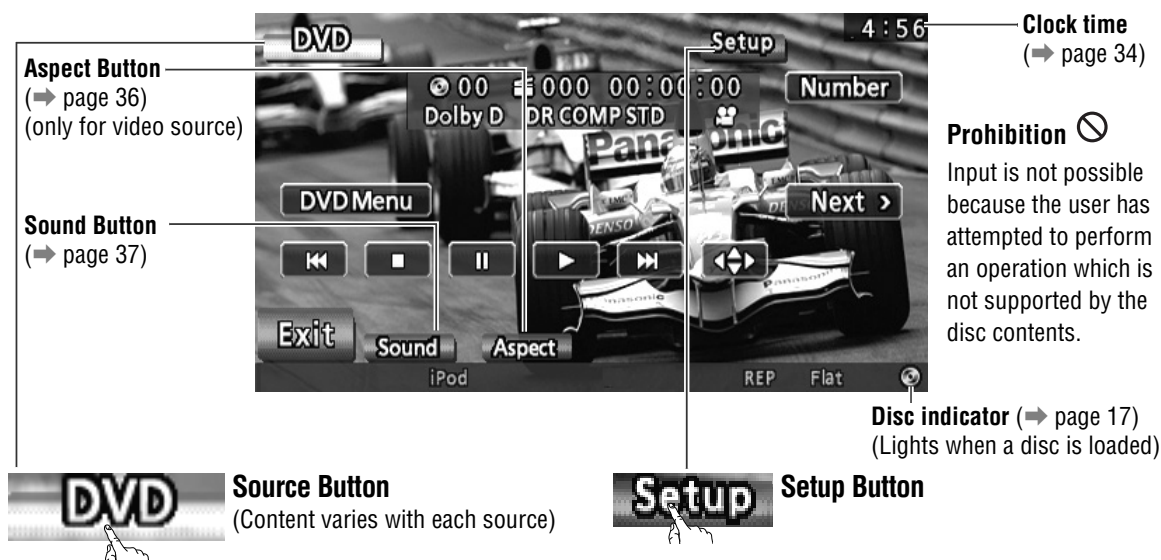
- Do not use a pen or other sharp implements to operate the touch panel.
- Do not bump the front panel.
 - Failure to observe the above may damage or break the glass on the surface of the touch panel.

The State of Operation Screen

Example: DVD mode

Note:

- The following picture is partly darkened for explanation.
- Displaying contents and their positions partly vary with each mode. Refer to the description of each mode for details.



Displays the Source Selection Screen.

Source Selection Screen



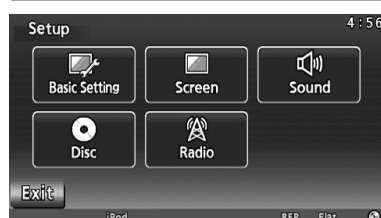
Source Selection Screen appears.
Touch desired source button.
Touch **Exit** to quit.



Press **[SRC/PWR]** to change to desired mode.

Displays the Setup Screen.

Setup Screen



Setup Screen appears. Select desired setting.

Setup menu, (→ page 32)



Press **[SET-UP]** to let Setup Screen appear.

Switching the Display

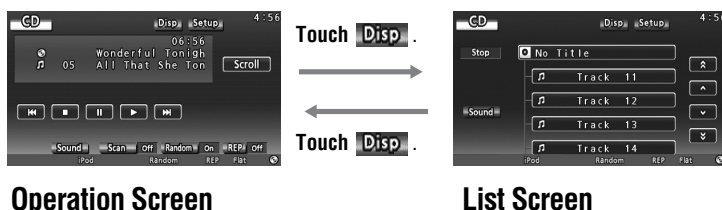
Note:

- Refer to the instructions of each source.
- To switch Operation Screen on, touch the center of touch panel. (Touch **Exit** to cancel)
- If no operation takes place for more than 10 seconds when Operation Screen is ON, Operation Screen is turned off.

Audio Source

□ CD/MP3/USB audio device/iPod audio

Example: CD mode

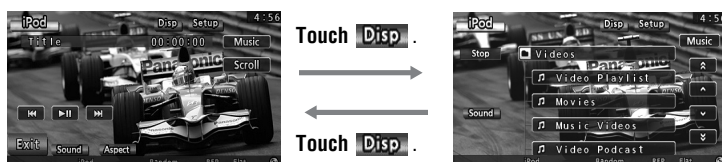


Operation Screen

List Screen

Video Source

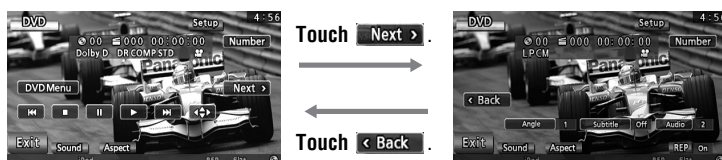
□ iPod video



Operation Screen

List Screen

□ DVD



Operation Screen 1

Operation Screen 2

□ DivX



Operation Screen 1

Operation Screen 2

List Screen

Touch **Disp** .

General



13



[▲]

[SRC/PWR]

[VOL]
(PUSH MUTE)



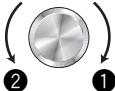


Preparation: Turn your car's ignition key to the ACC or ON position.

| General Operations | | | |
|--|---|---|--|
| Operations |  |  | |
| Power ON : | — | [SRC/PWR] | |
| Power OFF : | — | [SRC/PWR] | |
| Source selection Note: • If there is no external sources connected, AV mode can be set to skip. (⇒ page 34) | (⇒ page 12) | [SRC/PWR] | <div><div>RADIO (AM/FM) (⇒ page 24)</div><div>↓</div><div>DVD (DVD/VCD (Video CD)/CD/MP3/DivX) (⇒ page 18)</div><div>↓</div><div>iPod/USB (⇒ page 26)</div><div>↓</div><div>AV (⇒ page 30)</div></div> |

 Touch/Press and hold

General Operations (continued)









| Operations |  |  | |
|--|---|---|---|
| Volume Note: <ul style="list-style-type: none"> The sound level for each source is stored in memory. | — |  <ul style="list-style-type: none"> 1 Up 2 Down | Setting range: 0 to 40, default: 18 Note: <ul style="list-style-type: none"> The volume level can be set independently for each source and each disc format. |
| Mute | — | [PUSH MUTE] | Mutes the sound. To cancel, press again. |

Before Disc Playback

Discs that can be Played Back

Disc Type

15

| DISC | DVD | VCD (Video CD) | CD | CD-R/RW |
|--------------|--|--|--|--|
| Mark/logo |   |   (IEC62107) |   |   |
| Disc Size | 12 cm | | | |
| Video Format | NTSC / PAL | | LPCM (CD-DA ^{*1}), MP3 | |
| Audio Format | LPCM, MPEG1, MPEG2, Dolby Digital | LPCM (CD-DA ^{*1}), MPEG1, MPEG2 (SVCD) | | |
| Region No. | 4, ALL ^{*2} | | | |

^{*1} CD-DA : A general music CD format.

Note:

- Only discs with logos shown in the "Mark/logo" row of the table above are playable.
- About CD-Rs and CD-RWs, refer to "Notes on CD-Rs/RWs, DVD-Rs/RWs". (⇒ page 48)
- Some copy-protected music CDs/VCDs are not playable.
- Even if you play a dts DVD or a dts CD, analog sound cannot be reproduced.

Notes on DVD-Rs/RWs

- Do not mix DVD-Video formatted data and other formatted data on the same disc.
- Discs in the video recording (VR) format are unplayable.**
- Unfinalized discs are unplayable.**
- Use disc-at-once recording for DVD-R DL (double-layer).
- Some discs are unplayable depending on the disc itself, device, drive and software that are used for disc recording.

Discs not supported

The following discs are not played back on this product.

- DVD-Audio DVD-ROM DVD-RAM
- DVD+R DVD+RW
- VSD CVD Blu-ray Disc
- CD-G CD-ROM (except MP3)
- CD-RW (except MP3/DivX and CD-DA)
- CD-R (except MP3/DivX and CD-DA)
- SACD Photo CD CDV
- Hybrid SACD (except CD-DA)
- CD-EXTRA (audio-only playback possible)
- DVDs with a region number other than "4" or "ALL" ^{*2}




- Playing back a photo CD disc with this unit could damage the data that is recorded on the disc.

About DivX

- DivX files recorded on CD-Rs/RWs and DVD-Rs/RWs are playable. Refer to "Notes on MP3/DivX" for further information. (⇒ page 22)



Symbols used on jackets

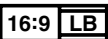
(Examples of such symbols include)

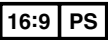
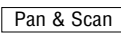
-  : Number of subtitle languages
-  : Number of audio tracks
-  : Number of angles

The numbers indicate the number of languages, tracks, angles, etc., recorded on the disc.


Screen size (H:V aspect ratio)

-  : 4:3 standard size
-  : Letterbox (⇒ page 38)
- 16:9 wide size

 : Playback in letterbox format on a standard screen (4:3).

 : Playback in  (pan and scan) (⇒ page 38) format on a standard screen (4:3).

Note:

- The size of the image that is displayed on the screen depends on the screen mode ( ⇒ page 36), and on the screen size for the content on the disc.

Region Management Information

This product is designed and manufactured to respond to the Region Management Information that is recorded on a DVD disc. If the Region number described on the DVD disc does not correspond to the Region number of this product, this product does not play the disc.

^{*2}The Region number for this product is "4".

Playable Discs:

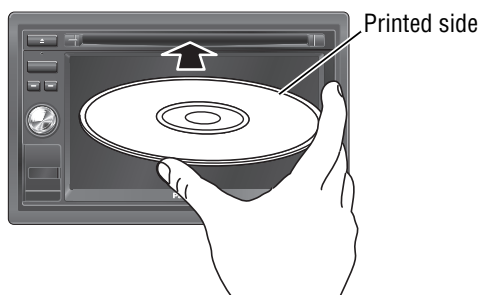


Disc Insert/Eject

[▲] (eject)



Disc Insert



- The mode that supports the disc is selected, and playback starts.

Caution

- When the disc is inserted or ejected, to prevent disc scratches never exert any downward force on the disc.

- The audio format is automatically identified. (→ page 16)
- When the menu screen appears, see “Chapter/title Selection” on page 20.

When a disc is in the player, change to disc player mode (CD, MP3, DivX, DVD or VCD (Video CD)) and playback starts.

- The sound may be interrupted for a few moments while the audio format is being identified.

Caution

- Do not use irregularly shaped discs.
- Do not insert foreign object into the disc slot.
- **This unit does not support 8-cm disc. In case of load such a disc, eject and remove the disc from the slot immediately.**

Disc Eject

Press [▲] to stop playback and eject the disc.
(Press [▲] again to reload the disc.)

Note:

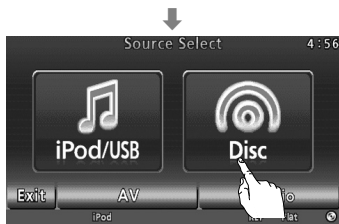
- If you leave a disc in the slot for more than 30 seconds after its ejection, the disc will be automatically reloaded after loud beep is energized three times.

- Due to limitations of certain discs, some DVD and VCD (Video CD) discs may not operate as described in this manual. Refer to the disc jacket for further details.
- This unit does not support DVD and VCD (Video CD) karaoke functions.

Disc Player

Source Selection

① Touch "Source Button".



② Touch  (Disc) on the Source Selection Screen.



Press [SRC/PWR] to change to desired mode.

To switch Operation Screen ON, touch the center of touch panel.

Source Button



[SRC/PWR]

Random/repeat indicator

Video Mode Display

DVD



Operation Buttons

VCD (Video CD)



Operation Buttons

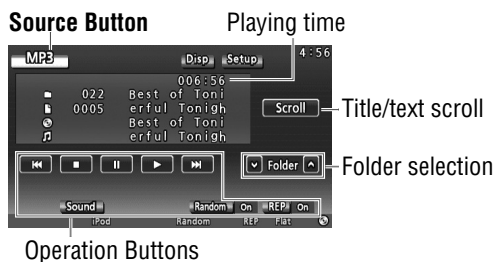
DivX



Operation Buttons

Audio Mode Display

MP3



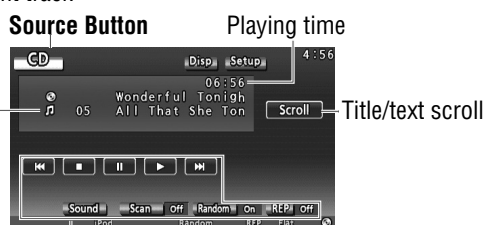
Operation Buttons

Note:

- Touch [Disp] to change the display. (⇒ page 13)

CD

Current track





Operation Buttons

List (Folder/File/Track) Selection









(Example: MP3 mode)

 Folder

 MP3/DivX file























- ① Touch  012 Wonderful (folder name) to select a folder.
 ,  : scrolls up/down the file list by 1 page.
 ,  : scrolls up/down the file list by 1 line.
- ② Touch  0012 The Best o (file name) to play.



Note:

- It is not possible to display the whole tree and file list in a folder.
- The displayed contents on the touch panel vary with circumstances.

Basic Operations

| Operations | Compatible Discs | Operations | | |
|--|---------------------------|---|---|---|
| | |  |  | |
| Track/file Selection | DVD VCD CD MP3 DivX |  | — | Next track/file |
| | |  | — | Beginning of the current track/file Previous track/file (Touch/press twice.) |
| | DVD | Note: • When playing a DVD, there are cases where it is not possible to return to the start of a chapter that spans 2 titles. | | |
| Fast Forward/ Fast Reverse | DVD VCD CD MP3 DivX |  | — | Fast forward Release to resume playback. |
| | |  | — | Fast reverse Release to resume playback. |
| | DVD VCD DivX | The speeds of fast forward and fast reverse change incrementally in 4 steps every time the corresponding button is pressed. | | |
| Folder Selection | MP3 DivX |  | — | Next folder |
| | |  | — | Previous folder |
| Title/text Scroll | CD MP3 DivX |  | — | Scrolls the title/text once |
| Stop | DVD VCD CD MP3 DivX |  | — | To resume playback, touch  . |
| Pause | DVD VCD CD MP3 DivX |  | — | To resume playback, touch again or touch  . |
| Slow Playback | DVD VCD |  | — | • Touch/press and hold in the pause mode. Playback is at about 1/3 normal speed. To resume normal playback, touch  . |
| | | Note: • Reverse slow playback is not possible. | | |
| Repeat Play | DVD VCD CD MP3 DivX |  * | — | To cancel, touch again. |
| Repeat Play within the Current Folder | MP3 DivX |  * | — | To cancel, touch and hold for more than 2 seconds again. |
| Scan Play | CD |  | — | To cancel, touch again. |
| Random Play | CD MP3 DivX |  * | — | To cancel, touch again. |
| Random Play within the Current Folder | MP3 DivX |  * | — | To cancel, touch and hold again. |














 Touch/Press and hold

* Touch panel symbols will change to indicate these current mode.  Folder,  Folder

Disc Player (continued)

To switch Operation Screen ON, touch the center of touch panel.

Chapter/Title Selection

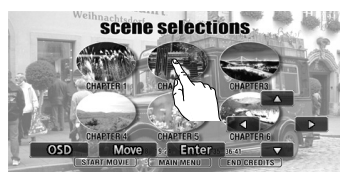
| Operations | Compatible Discs | Operations | | | |
|---|---|---|--|--|---|
| | |  |  | | |
| Showing menu and selecting an item <div>*1 Note on VCD: For VCD, touch RET instead of DVDMenu.</div> |   *1 | DVD Menu OR RET *1 ↓     ↓ *2 Enter | — — — | ① Menu appears. ↓ ② Select the desired item. (Touch  when the direction buttons shown at left are not displayed.) ↓ ③ Determine the setting. | |
| | |  Move OSD | — — | Toggles the position of the buttons on the screen between upper and lower. Returns to the previous display. | |
| | Starting Playback from a specific chapter/title Touch the numerical key to enter a number directly  |   | Number ↓ 0 to 9 ↓ Enter | — — — | ① Toggles “Chapter number input mode”, “Title number input mode” and “Number input mode”. ↓ ② Input desired number. ↓ ③ Playback starts. |
| | | | Note: ● For retrying selection during number entry, touch Clear . | | |

Note:

- If no operation is performed for 8 seconds after you have touched **Number**, the operation buttons disappear.
- If the title/chapter number is inputted and no operation is performed for 8 seconds, playback will start from the number of the title/chapter entered.

*2 On-Screen Direct Operation (Only for DVD)

Some DVDs allow you to operate the DVD menu by touching the screen.



DVD mode display

Chapter/title selection
Fast forward/fast reverse



Stop/pause/play

DVD menu

Audio Language/
Angle/Subtitle Language

Touch **Next >**

Touch **< Back**



Repeat play

Useful Function

| Operations | Compatible Discs | Operations | | |
|------------------------------|------------------|--------------|---|---|
| | | | | |
| Subtitle Language | | Subtitle Off | — | <ul style="list-style-type: none"> ● Touch during playback. <p>It is possible to change the subtitle language during play if multiple languages are recorded on the disc.</p> <p>Note:</p> <ul style="list-style-type: none"> ● There may be a brief delay before the subtitles appear. |
| Audio Language | | Audio 2 | — | <ul style="list-style-type: none"> ● Touch during playback. <p>It is possible to change the audio language during play if multiple audio languages are recorded on the disc.</p> |
| Angle | | Angle 1 | — | <ul style="list-style-type: none"> ● Touch during playback. <p>For DVDs which contain scenes which have been shot simultaneously from a number of different angles the same scene can be viewed from each of these different angles during play. (Angle Mark ➔ page 38)</p> |
| Stereo & Monaural | | Audio L-ch | — | <p>It is possible to switch the audio between stereo sound and monaural sound (L or R).</p> <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> <p>ST : stereo sound</p> <p>↓</p> <p>L-ch : the left channel audio is output on both the left and right speakers.</p> <p>↓</p> <p>R-ch : the right channel audio is output on both the left and right speakers.</p> </div> |

Note:

- If no operation is performed for 10 seconds or **Exit** is touched, the operation buttons disappear.
- It may not be possible to switch the language unless the unit is at the DVD menu (➔ previous page) or is at the DVD settings. (➔ page 38)
- The language on the DVD settings takes priority when the power is turned on or the disc is loaded.
- The number of languages and angles depend on the disc. Some discs have only one language/angle or have no language/angle.

Notes on MP3/DivX

What is MP3/DivX?

MP3*: MP3 (MPEG Audio Layer-3) is the compression format of digital audio. It is developed by MPEG (Motion Picture Experts Group). Using this compression format, you can record the contents of about 10 music CDs on a single CD (This figure refers to data recorded on a 650 MB CD-R or CD-RW at a fixed bit rate of 128 kbps and a sampling frequency of 44.1 kHz).

*MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.

DivX: The video compression format developed by DivX, Inc. compresses video files without any considerable loss of video quality.

Note:

- MP3/DivX encoding and CD writing software programs are not supplied with this unit.

Points to remember when making MP3/DivX files

Common

- High bit rate and high sampling frequency are recommended for high quality sound.
- Selecting VBR (Variable Bit Rate) is not recommended because playing time is not displayed properly and sound may be skipped.
- The playback sound quality differs depending on the encoding circumstances. For details, refer to the instructions of your own encoding software and writing software.

MP3

- It is recommended to set the bit rate to “128 kbps or more” and “fixed”.

DivX

- DivX files greater than 2 GB or having no index may not play properly on this unit.
- This unit supports all resolutions up to maximum of 720 x 480 (NTSC)/720 x 576 (PAL).
- You can select up to 8 types of audios and subtitles on this unit.
- GMC (Global Motion Compensation) is not supported.
- DivX-HD is not supported.

Caution

- Put only “.mp3” files on an MP3-formatted disc. Put only “.DIVX”, “.divx”, “.AVI” and “.avi” files on an DivX-formatted disc. Otherwise, abnormal sound may be produced during play which can damage the speaker and your hearing.

Display Information (on the Main Unit)

Displayed items

- | | |
|-------------------|------------------------|
| ● CD-TEXT | ● MP3 (ID3 tag) |
| Disc title | Album name |
| Track title | Title and artist name |
| ● MP3/DivX | |
| Folder name | |
| File name | |

Displayable characters

- Displayable length of file name/folder name: within 64 characters. (Unicode file and folder names are reduced by half in the number of displayable characters.)
- Name files and folders in accordance with the standard of each file system. Refer to the instructions of writing software for details.
- ASCII character set can be displayed.
- Some Cyrillic characters in the Unicode can be displayed.

ASCII character set

A to Z, a to z, digits 0 to 9, and the following symbols:

(space) ! " # \$ % & ' () * + , - . / : ; < = > ? @ [\] ^ _ ` { | } ~

Note:

- With some software in which MP3/DivX format files have been encoded, the character information may not be displayed properly.
- Undisplayable characters and symbols will be converted into an asterisk (*).
- It is recommended that the length of the file name is less than 8 characters (excluding the file extension).

Recording MP3/DivX files on a CD/DVD-media

- It is recommended not to use a disc holding two or more different format types of files.
- If CD-DA files are on the same disc as MP3 or DivX files, the songs and the movies may not play in the intended order, or some songs or movies may not play at all.
- When storing MP3 data and DivX data on the same disc, use different folders for each data.
- Do not record files other than MP3/DivX files and unnecessary folder on a disc.
- The name of an MP3/DivX file should be added by rules as shown in the following descriptions and also comply with the rules of each file system.
- The file extension ".mp3" should be assigned to MP3 files.
- The file extension ".DIVX", ".divx", ".AVI" or ".avi" should be assigned to DivX files.
- You may encounter trouble in playing MP3/DivX files or displaying the information of MP3/DivX files recorded with certain writing software or CD/DVD recorders.
- This unit does not have a play list function.
- Although Multi-session recording is supported, the use of Disc-at-Once is recommended.

Supported file systems

ISO 9660 Level 1/Level 2, Apple Extension to ISO 9660, Joliet, Romeo

Note:

- Apple HFS, UDF 1.50, Mix CD and CD Extra are not supported.

Audio compression formats (Recommendation: "Points to remember when making MP3/DivX files" on the previous page)

| Compression method | Bit rate | VBR | Sampling frequency |
|---|-----------------|-----|--------------------|
| MPEG 1 audio layer 3 (MP3) | 32 k – 320 kbps | Yes | 32, 44.1, 48 kHz |
| MPEG 2 audio layer 3 (MP3) | 8 k – 160 kbps | Yes | 16, 22.05, 24 kHz |
| DivX data created using ver.3.11, 4.x, 5.x* | 8 k – 320 kbps | Yes | 8 k – 48 kHz |

* DivX video system/MP2, MP3

Note:

- VBR is not recommended.

Folder selection order/file playback order

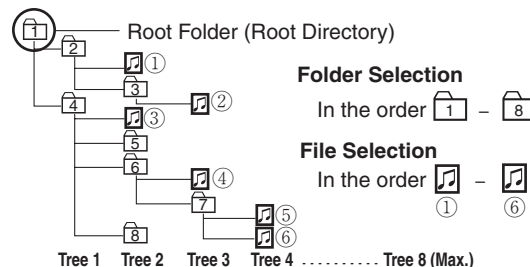
Maximum number of files/folders

- Maximum number of files: 2048 (Disc media)/
4096 (USB device)
- Maximum number of files in one folder: 2048 (Disc media)/
255 (USB device)
- Maximum depth of trees: 8
- Maximum number of folders: 256 (Root folder is included.)

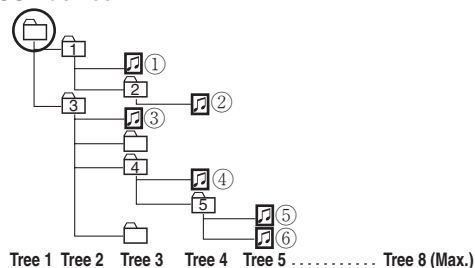
Note:

- You can shorten the duration between data read and playback by decreasing the quantity of files or folders, or the depth of the hierarchy.
- This unit counts the number of folders irrespective of the presence or absence of an MP3/DivX file.
- If the selected folder does not contain any MP3/DivX files, the nearest MP3/DivX files in the order of playback will be played.
- Playback order may be different from other MP3/DivX players even if the same disc is used.

Disc media



USB device



Copyright

It is prohibited by copyright laws to copy, distribute and deliver copyrighted materials such as music without the approval of copyright holder except enjoying yourself personally.

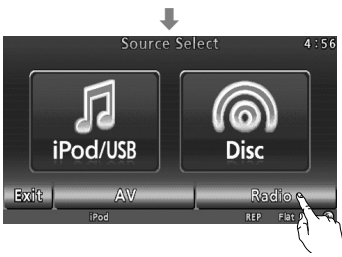
No warranty

The above description complies with our investigations as of December 2008. It has no warranty for reproducibility and displayability of MP3/DivX.

Radio

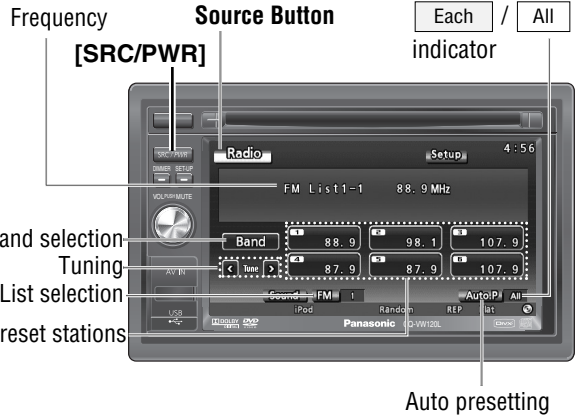
Source Selection

① Touch "Source Button".



② Touch **Radio** on the Source Selection Screen.

Press **[SRC/PWR]** to change to desired mode.



* Appears only when **All** is selected. (⇒ page 39)

Setup ⇒ Radio ⇒ FM Setup ⇒ Auto Preset ⇒ Each / All

Tuning

| Operations | | | |
|--|-------------|-------------------------|--|
| Band Selection | Band | — | |
| | Each | FM 1 → FM 2 → FM 3 → AM | |
| List Selection Refer to the next page. | | | |
| | All | FM → AM | |
| Station Selection | | | |
| | | | |
| Seek Tuning | | | |
| | | | |

Preparation: Select **All**. (⇒ page 39)
Setup ⇒ Radio ⇒ FM Setup ⇒ Auto Preset ⇒ Each / All

FM 1 (list 1) → FM 2 (list 2) → FM 3 (list 3)

There are 6 stations in each list. You can call up next 6 stations by switching from one list to another.

Touch/press and hold for more than 0.5 second then release. Seeking starts.

..... Touch/press and hold

Preset Memory

Manual Preset Memory

Up to 6 stations can be preset in each band.

Select a band and frequency.



–



blinks once

- Touch and hold for more than 2 seconds.
 - The frequency blinks once, and a receiving station is saved in the memory.
- New stations overwrite existing saved stations.

Auto Preset Memory

A

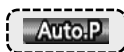
Each

Six stations are automatically preset in each band.

Preparation: Select **Each**. (→ page 39) (default: **Each**)

Setup → Radio → FM Setup → Auto Preset → **Each** / **All**

Select a band.



–

6 stations with first to 6th highest in signal strength of each band will be preset.

- Touch and hold for more than 2 seconds.
 - Once set, the preset stations are sequentially scanned for 5 seconds each. (scanning)
- New stations overwrite existing saved stations.

B

All

In total 18 FM stations are automatically preset.

Preparation: Select **All**. (→ page 39)

Setup → Radio → FM Setup → Auto Preset → **Each** / **All**



–

18 stations with first to 18th highest in signal strength of all FMs will be preset at once.

- Touch and hold for more than 2 seconds.
 - Once set, the preset stations are sequentially scanned for 5 seconds each. (scanning)
- New stations overwrite existing saved stations.

Preset Station Calling

Select a band or a list.



–

- Touch desired preset button.

Preset Swap

A station preset is interchangeable with another station preset.

Preparation: Select **All**. (→ page 39)


Setup → Radio → FM Setup → Auto Preset → **Each** / **All**



–

The preset station selected in the step ① is interchanged with the targeted preset channel selected in the step ② (Preset Swap).

- ① Select the list and the preset number that contains the station to be interchanged (see "Preset station calling" above).
- ② Select the list and hold down the preset number that contains the targeted channel for more than 2 seconds.

 Touch and hold

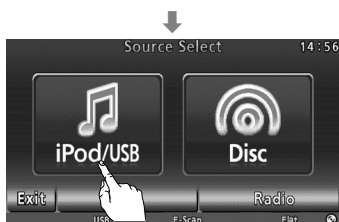
USB - Audio Device Control


Preparation:

- Connect a USB audio device to USB connector of this unit.

Source Selection

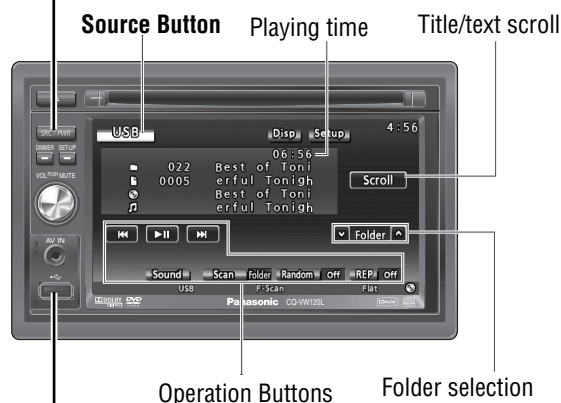
- 1 Touch "Source Button".



- 2 Touch  (iPod/USB) on the Source Selection Screen.

Press [SRC/PWR] to change to desired mode.

[SRC/PWR]



USB connector

Open the cover to make the USB connector accessible and make a connection.

⚠ Caution

- Position the USB device and cable so that they do not interfere with your driving.
- Do not connect any USB device other than a USB memory, a USB audio player or an iPod/iPhone. Do not connect multiple USB devices to the USB connector. Supplying power to multiple USB devices from the connector could cause overheating and smoking.

Note:

- This unit plays back MP3/WMA files stored on a USB memory.
- Back up any important data beforehand. We cannot accept responsibility for any lost data.
- Refer to the section on "Compatible USB devices". (→ page 6)
- Refer to the section on "Notes on MP3/DivX". (→ page 22)
- A file with a play time exceeding 1 000 minutes will not play correctly to the end of the track.
- When connecting (disconnecting) a USB memory, turn down the volume of the unit.
- When connecting a USB memory, make sure the connector is pushed all the way into the socket.
- Do not leave the USB device for long periods of time in places inside the car where the temperature rises too high.
- The USB devices that do not comply with the USB standard may not normally play with this unit.
- Even mass storage class USB devices may not normally play with this unit.
- The USB devices that contain other than MP3/WMA files may not normally play with this unit.

List (Folder/File) Selection



: Folder

: MP3/WMA file



- Touch 012 Wonderfu (folder name) to select a folder.
 , : scrolls up/down the file list by 1 page.
 , : scrolls up/down the file list by 1 line.
- Touch 0012 The Best o (file name) to play.

Note:

- Touch 012 Wonderfu (folder name) to go back to the upper tier.
- It is not possible to display the whole tree and file list in a folder.
- The displayed contents on the touch panel vary with circumstances.

Basic Operations

| Operations | | | |
|--|---|---|---|
| File Selection | | — | Next file Beginning of the current file Previous track/file (Touch/press twice.) |
| Fast Forward/ Fast Reverse | | — | Fast forward Release to resume playback. Fast reverse Release to resume playback. |
| Folder Selection | | — | Next folder Previous folder |
| Title/text Scroll | | — | Scrolls the title/text once |
| Pause | | — | To resume playback, touch again. |
| Repeat Play | * | — | To cancel, touch again. |
| Repeat Play within the Current Folder | * | — | To cancel, touch and hold for more than 2 seconds again. |
| Random Play | * | — | To cancel, touch again. |
| Random Play within the Current Folder | * | — | To cancel, touch and hold again. |
| Scan Play | * | — | To cancel, touch again. |
| Folder Scan Play | * | — | The first 10 seconds of the all the folder is played. To cancel, touch and hold for more than 2 seconds again. |



..... Touch/Press and hold

* Touch panel symbols will change to indicate these current mode. Folder , Folder , Folder

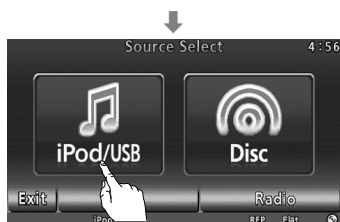
USB - iPod Control


Preparation:

- Connect an iPod/iPhone to USB connector of this unit.
- Connect an iPod/iPhone to USB connector and AV IN of this unit with CA-LDC100X (option) for iPod/iPhone Video.

Source Selection

① Touch "Source Button".



② Touch  (iPod/USB) on the Source Selection Screen.

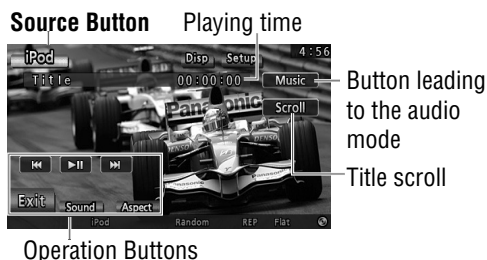
Press [SRC/PWR] to change to desired mode.

To switch Operation Screen ON, touch the center of touch panel. (only for video mode)

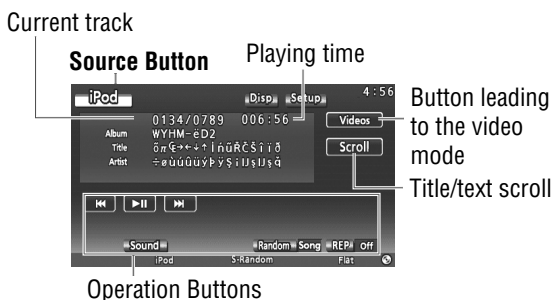
Caution

- Position the USB device and cable so that they do not interfere with your driving.
- Do not connect any USB device other than a USB memory, a USB audio player or an iPod/iPhone. Do not connect multiple USB devices to the USB connector. Supplying power to multiple USB devices from the connector could cause overheating and smoking.

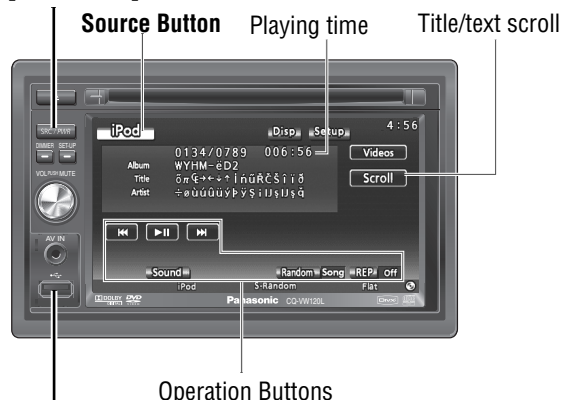
Video Mode Display



Audio Mode Display



[SRC/PWR]



USB connector/AV IN

Open the cover to make the USB connector/AV IN accessible and make a connection.

Note:

- Please read the operating instructions of your iPod/iPhone as well as this book.
- Please disconnect iPod/iPhone accessories such as earphones before connecting the iPod/iPhone to this unit.
- If your iPod/iPhone is not working correctly, disconnect it from this unit, reset it and then reconnect it to this unit.
- We shall not guarantee all the functions of the iPod/iPhone to be connected.
- The number of displayable characters for a file name is limited. (up to 252 bytes)

Controllable iPod/iPhone software version

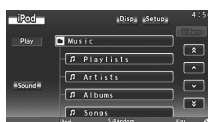
- iPod (5th generation, ver. 1.3)
- iPod nano (1st generation, ver. 1.3.1)
- iPod nano (2nd generation, ver. 1.1.3)
- iPod nano (3rd generation, ver. 1.1.2)
- iPod nano (4th generation, ver. 1.0.2)
- iPod classic (ver. 1.1.2)
- iPod touch (1st generation, ver. 1.1.4) (video playback is not supported.)
- iPod touch (2nd generation, ver. 2.1.1)
- iPhone (ver. 2.1.0)

* The applicable models have been confirmed as the end of January 2009. We do not guarantee the operation with our future products or upgraded software.

- When connecting (disconnecting) a iPod/iPhone, turn down the volume of the unit.
- When connecting a iPod/iPhone, make sure the connector is pushed all the way into the socket.
- Do not leave the iPod/iPhone for long periods of time in places inside the car where the temperature rises too high.

List Selection

Example: iPod Audio



- ① Touch **Playlists** (list name) to select the play list. (Playlists/Artists/Albums/Songs/Genres)
 , : scrolls up/down the file list by 1 page.
 , : scrolls up/down the file list by 1 line.
- ② Select a folder in the same manner as ①.
- ③ Touch **0012 The Best o** (file name) to play.

Note:

- It is not possible to display the whole tree and file list in a folder.
- The displayed contents on the touch panel vary with circumstances.

Basic Operations

| Operations | | | |
|---|---|-------------------|---|
| Selection of video mode or audio mode | | <p>—</p> <p>—</p> | <p>Changes from the video mode to the audio mode.</p> <p>Changes from the audio mode to the video mode.</p> <p>Every time the iPod is switched between the audio mode and the video mode, the list selection screen appears first (not the operation screen). Touch the list name to select the play list and play the desired file.</p> <p>Note:</p> <ul style="list-style-type: none"> The “Disp” button on the touch panel will be disabled while the list selection screen appears. However, this phenomenon is not a trouble with the main unit. Use the list selection screen to play the desired file. |
| File Selection | | <p>—</p> <p>—</p> | <p>Next file</p> <p>Beginning of the current file</p> <p>Previous track/file (Touch/press twice.)</p> |
| Fast Forward/ Fast Reverse | | <p>—</p> <p>—</p> | <p>Fast forward</p> <p>Release to resume playback.</p> <p>Fast reverse</p> <p>Release to resume playback.</p> |
| Title/text Scroll | | — | Scrolls the title/text once |
| Pause | | — | To resume playback, touch again. |
| Repeat Play (Only for Audio mode) | * Note: <ul style="list-style-type: none"> The All Repeat Play function of iPod is always activated and cannot be canceled from this unit. | — | To cancel, touch again. |
| Shuffle Songs (Only for Audio mode) | * | — | To cancel, touch again. |
| Shuffle Albums (Only for Audio mode) | * Note: <ul style="list-style-type: none"> The shuffle function of iPod corresponds to the Random function of this unit. | — | To cancel, touch and hold again. |

..... Touch/Press and hold

* Touch panel symbols will change to indicate these current mode.

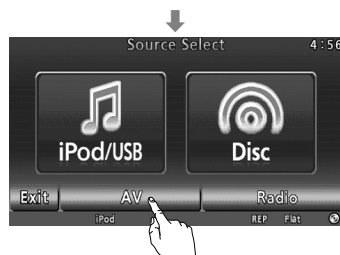
Preparation:

- Connect an optional external device to the AV IN.

Source Selection

You can view the images and listen to the sounds from the connected external devices in the AV mode respectively.

- 1 Touch "Source Button".



- 2 Touch (AV) on the Source Selection Screen.



Press [SRC/PWR] to change to desired mode.

To switch Operation Screen ON, touch the center of touch panel.

Note:

- Every time the source is switched from iPod mode to AV mode while iPod/iPhone video file is playing on this unit, the still image of iPod/iPhone video file will be displayed on the screen with AV mode. However, this phenomenon is not a trouble with this unit and iPod/iPhone unit. Make sure to remove the cable connection (CA-LDC100X, option) of front AV IN to iPod/iPhone and connect the desired AV device to front AV IN connector using supplied conversion cable for AV IN when you want to enjoy AV mode under above circumstance.
- You can set up the system so that the AV mode is not selected (source skip). (➔ page 34)
- If no operation is performed for 10 seconds or [Exit] is touched, the operation buttons disappear.

Source Button

[SRC/PWR]

AV IN

Open the cover to make the AV IN accessible and make a connection.

Settings



31

Basic Setting

Clock
ID-Code
Input
Other
Memory Clear

Basic Setting

Clock setting
ID Code Setting
Input Selection
Other settings
Memory clearance

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Screen

Dimmer
Display Adjustment
Aspect

Screen

Adjusting the brightness
Display appearance
Display aspect setting

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Sound

SQ3
Bass/Treble
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Sound

SQ3 setting
Bass/treble adjustment
Balance/fader adjustment

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Disc

Audio Language
Subtitle Language
Menu Language
Video Setting
Audio Setting
DivX Registration

Disc

DVD Audio Language Setting
DVD Subtitle Language Setting
DVD Menu Language Setting
DVD Video Setting
DVD Audio Setting
DivX Registration

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Radio

FM Setup

Radio

Setting for FM stations

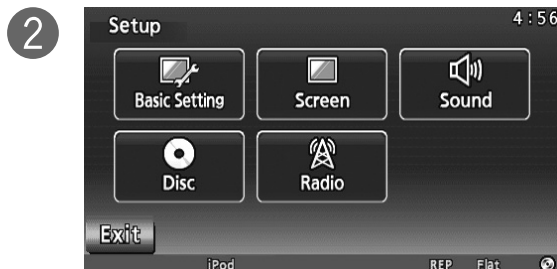
(⇒ page 39)

■ Setup Operation

(Example: DVD mode)

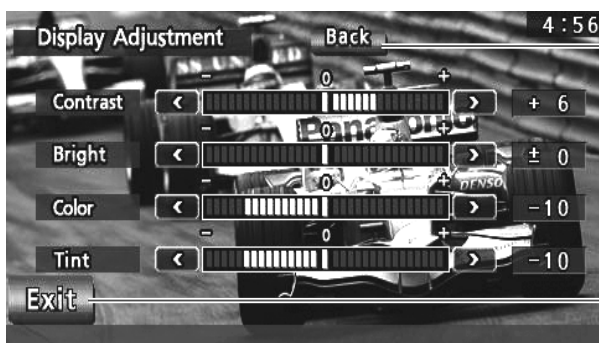


Touch **Setup** in Operation Screen.



Touch desired setting.

3 (Example: setting screen of **Display Adjustment** → page 36)



Back

Determines the setting and goes back to the previous menu.

Exit

Determines the setting and gets out of the menu

Note:

- The display returns to the previous status if there is no operation for more than 60 seconds after changing to the setting menu.
- The item may not be temporarily selected depending on the current disc type or the state of this unit. In such a case, change the source to another one and try to set up the item again.

[SRC/PWR]
(Exit from the menu)

[DIMMER]
(The screen brightness is toggled between the set level and maximum luminance.)



[SETUP]
(Shows the menu display/
Goes back to the previous menu)

Settings (continued)

Basic Setting

Screen

Sound

Disc

Radio

Clock

33

Clock setting

Display

(Clock display)

On

: clock display ON (“- -: - -” is displayed before adjusting the clock.)

Off

: clock display OFF

default: Off

Adjust

(Clock adjustment)

^

: Forward

v

: Backward

Note:

- To start the clock, touch **Start**.
- Set the Daylight Saving Time manually.

default: Hour Adjust: AM12
Minute Adjust: 00

ID-Code

ID Code Setting

Prior to operating this unit, it is advisable to assign a 4-digit ID code for security. Once the ID code has been set, the unit cannot be operated if the main power supply is disconnected then re-connected. It is electronically locked so that a thief cannot use the stolen unit unless that person knows the code you have set. The ID code operation must be performed only by the person to whom the unit belongs.

Generally, it is not necessary to enter the ID code each time when using the unit if it has not been disconnected from the main power supply (car battery).

0

to

9

4 digits numeric code

default: none

How to set your ID code (for the first time)

- ① Enter an 4 digit ID code.
- ② Enter the same 4 digit ID code again.

How to change your ID code

- ① Enter the preset (old) 4 digit ID code. If the wrong ID code is entered, a new ID code cannot be registered.
- ② Enter a new 4 digit ID code.
- ③ Enter the new 4 digit ID code again.

How to cancel the known ID code

- ① Enter the preset (old) 4 digit ID code. If the wrong ID code is entered, it is not possible to cancel the ID code function.

- ② Touch and hold **Off** until “Completed!” is displayed.

The ID code cancelling procedure is completed. The unit now works without an ID code.

Note:

- Should your unit ever require service, cancel your ID code before sending for repair.
- The ID code setting cannot be eliminated even by the memory clear function.
- The inputted code is not displayed for your security.

⚠ Caution

- **Record your registered ID code and keep it in a secure location. (Fill in the ID code memo (⇒ page 46).) If you forget it, you will be unable to use the unit. In case you forget the ID code, please consult your nearest Panasonic Service Center.**

Input

Input selection

Note:

- If a non-Panasonic navigation system is connected to this unit, we do not guarantee the operations of the navigation system.

AV

(AV input selection)

AV

: an external device is connected to AV.

NAV1-3

: Select one from among NAV1, NAV2, and NAV3 with which images are displayed most beautifully when a non-Panasonic car navigation system is connected.

Skip

: skips AV.

default: AV

Camera

(Rear view camera set up)

Selection of the terminal that connects to the rear view camera.

Preparation: Connect the reverse lead. (⇒ Installation Instructions)

On

: connected to the CAMERA IN

Off

: unconnected

default: Off

Note:

- Make sure to select **Off** when no rear view camera is connected.
- The image from the rear view camera may be blurred in the night or a dark place.

Other

Other settings

ACC Select

(Setting ACC selection ON and OFF)

On

: sets to ON if your car has ACC position.

Off

: sets to OFF if your car has no ACC position.

default: ☐ On

Note:

- For an ACC-equipped car, select ON. The following functions are available.
 - The power is turned on automatically when inserting a disc.
 - ☐ Off selection disables turning on the power of the main unit through the remote control (option).

⚠ Caution

- Be sure to select off when your car has no ACC position in the ignition switch. Failure to do this could cause the battery to go dead.

OSD Color

(OSD color setting)

Blue

: Blue-based screen

Green

: Green-based screen

Red

: Red-based screen

default: ☐ Blue

Memory Clear

Memory clearance

The state of all of the current memories are returned to default settings.

Note:

- The ID code is not deleted by executing memory clear.

Yes

: clears the memory to default settings

No

: no memory clear.

The display returns to the previous one.



☐ Really? appears when ☐ Yes is selected.

OK

: proceed.

Cancel

: no memory clear.

Note:

- The power of this unit is turned off automatically after ☐ OK is selected. (memory clearance completed). Please turn on the power again to using this unit.

⚠ Caution

- Be aware that this setting restores the unit to default settings, so that all the memories and settings that you have set will be eliminated.

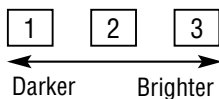
Settings (continued)

Basic Setting **Screen** Sound Disc Radio
(Display)

Dimmer

35

Adjusting the brightness



default:

Note:

- When **[DIMMER]** is pressed, the screen brightness is toggled between the set level that is adjusted by the procedure above and the maximum luminance.

Display Adjustment

Display appearance

Contrast (Adjust the image contrast)

< : decreases the contrast between black and white.

> : increases the contrast between black and white.

Bright (Adjust the image brightness)

< : darkens.

> : lightens.

Color (Adjust the image color depth)

< : lightens the depth of color on the display.

> : deepens the depth of color on the display.

Tint (Adjust the image tone or tint)

< : emphasizes green in the color image.

> : emphasizes red in the color image.

Note:

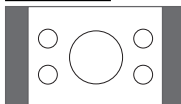
- When the video signal is PAL/SECAM format, adjustment cannot be performed.

Setting range: -15 to +15
default: ±0

Aspect

Display aspect setting

Normal



- The conventional display image has a 4 to 3 ratio of horizontal to vertical.
- In this case, a blank area remains on the right and left sides of the display.

Full



- The screen is extended horizontally as a whole to the aspect ratio of 16 to 9.
- The extension ratio is the same at any point of the screen.

Zoom



- The screen is fully extended at the normal aspect ratio of 4 to 3.
- The top and bottom of the screen are slightly cut.

Just



- The screen is extended horizontally to the aspect ratio of 16 to 9.
- The extension ratio increases toward the right and left ends of the screen.

default:

Note:

- The aspect setting screen can be also activated by touching **[Aspect]** when the button is displayed. (⇒ page 12)
- This adjustment is common to video mode.
- You cannot change the aspect in the menu screen and a screen in the CD, MP3 and radio mode. These are fixed to "Full".
- When the rear view camera is in operation with the transmission gear shift in the reverse position, the image is shown on the "Full" screen only.
- In some cases, the picture looks different from the original one due to your selection of aspect.

⚠ Caution

- This is to remind you that compression or extension of the screen using the aspect ratio (screen mode) changing function of this product for commercial purpose of profit making or viewing/listening by the public could infringe on the rights of the author protected by the copyright law.
- If you expand normal picture (4 to 3) by using "Just", "Zoom" or "Full" aspect to the full of the screen, you might not see the periphery of the picture, or you might see a distorted picture. Therefore, use the "Normal" mode to see the original picture as the author intended it.

Basic Setting Screen **Sound** Disc Radio

Note:

- The sound setting screen can be also activated by touching **Sound** when the button is displayed. (➡ page 12)

SQ3

SQ3 setting

Six SQ presets are already provided at shipment in this unit.

- Flat** : flat frequency response
Pop : wide-ranged and deep sound
Rock : speedy and heavy sound
Jazz : jazz-specific deep sound
Club : club and disco-specific sound
Vocal : clear sound

default: **Flat**

You may set your own SQ or modify factory presets in each memories by following the instructions below:

Adjusting level of each preset

- 1 Select the preset SQ that you prefer to adjust.
- 2 Touch **<** or **>** to select a frequency in a frequency band (BASS/MID/TRE).
- 3 Touch **▲** or **▼** to adjust each frequency.

Adjustable range: -12 dB to +12 dB

Adjustable frequency:

BASS; 60 Hz, 80 Hz, 100 Hz, 200 Hz

MID; 500 Hz, 1 kHz, 2 kHz, 3 kHz

TRE; 10 kHz, 12 kHz, 15 kHz, 18 kHz

Note:

- The new level adjustment will overwrite the previous level adjustment.
- For resuming the factory settings, touch and hold **Default** for more than 2 seconds.

Bass/Treble

Bass/treble adjustment

Bass

(Bass adjustment)

> : more

< : less

Treble

(Treble adjustment)

> : more

< : less

Setting range: -12 dB to +12 dB
 default: 0 dB

Balance/Fader

Balance/fader adjustment

Balance

(Sound level adjustment between right and left speakers)

> : right enhanced

< : left enhanced

Setting range: Right 15 to Left 15
 default: **Center**

Fader

(Sound level adjustment between front and rear speakers)

> : front enhanced

< : rear enhanced

Setting range: Front 15 to Rear 15
 default: **Center**

Settings (continued)

Basic Setting Screen Sound **Disc** Radio

Audio Language

DVD audio language setting

Note:

- These adjustments being executed, playback will start from the beginning of a disc.

English : English
Français : French
Español : Spanish
Other : other language. Input the language code.
 (⇒ page 49)

default: **English**

Subtitle Language

DVD subtitle language setting

Note:

- A disc supporting closed captioning and subtitles may overlap each other on the screen. In this case, turn the subtitle off.

English : English
Français : French
Español : Spanish
Other : other language. Input the language code.
 (⇒ page 49)

default: **English**

Menu Language

DVD menu language setting

English : English
Français : French
Español : Spanish
Other : other language. Input the language code.
 (⇒ page 49)

default: **English**

Video Setting

Display aspect and DVD software mode

DVD Aspect (Display aspect setting)

Narrow : plays a video in 4:3 screen.
Wide : plays a video in wide screen (16:9).

default: **Wide**

Letter Box (DVD software mode)

Pan & Scan : plays wide-screen video in Pan & Scan mode (in which the left and right edges of the screen are cut off).
Letter Box : plays wide-screen video in letterbox mode (in which black bands appear at the top and bottom of the screen).

default: **Pan & Scan**

Note:

- This function is available only when **DVD Aspect** is set to **Narrow**.
- Set the software setting according to the symbol used on jacket. (⇒ page 16)
- DVD software mode setting is ignored if **Pan & Scan** or **Letter Box** is already set in the software.
- Screen aspect of the display unit is changed according to the aspect ratio setting (⇒ page 36) and DVD software's aspect.

TV Type (Deck video setting)

PAL : sets PAL in accordance with deck video.
NTSC : sets NTSC in accordance with deck video.

default: **NTSC**

Angle Mark (Angle mark setting)

The angle mark is displayed to indicate the parts where multi-angle data is recorded.

On : activates angle mark.
Off : inactivates angle mark.

default: **On**

Audio Setting

Audio setting at DVD playing

Down Mix (Down mix setting)

Lt/Rt : surround element decodable down mix
(Lt = Left total, Rt = Right total)

Lo/Ro : simple stereo down mix
(Lo = Left only, Ro = Right only)

Note:

- This function is available only when "Dolby Digital" source is playing.

default: **Lt/Rt**

DR COMP (Dynamic Range Compression setting)

STD : DR COMP ON

MIN : made with the greatest compression,
roughly equivalent to a TV broadcast.

Off : DR COMP OFF

Note:

- This function is available only when "Dolby Digital" source is playing.

default: **Off**

DivX Registration

Show the DivX Registration Code (⇒ page 40)



Basic Setting

Screen

Sound

Disc

Radio

FM Setup

Setting for FM stations

Auto Preset (Auto preset setting)

Each : saves the preset stations in each band.

All : saves the preset stations in all FM lists
regardless of band.

default: **Each**

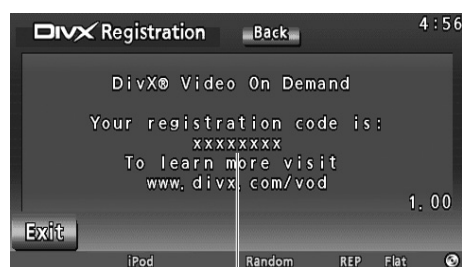
About DivX VOD Content

DivX Video-on-Demand (VOD) content is encrypted for copyright protection. In order to play DivX VOD content on this unit, you first need to register the unit.

Follow the on line instructions for purchasing DivX VOD content to enter the unit's registration code and register the unit. For more information about DivX VOD, visit www.divx.com/vod.

Display the unit's registration code

- ① Touch **Setup**.
- ② Touch **Disc**.
- ③ Touch **DivX Registration**.



8 alphanumeric characters

Note:

- We recommend that you make a note of this code for future reference.
- After playing DivX VOD content for the first time, another registration code is then displayed in "DivX Registration". Do not use this registration code to purchase DivX VOD content. If you use this code to purchase DivX VOD content, and then play the content on this unit, you will no longer be able to play any content that you purchased using the previous code.
- If you purchase DivX VOD content using a registration code different from this unit's code, you will not be able to play this content. ("Authorization Error" is displayed.)

Regarding DivX content that can only be played a set number of times

Some DivX VOD content can only be played a set number of times. When you play this content, the remaining number of plays is displayed. You cannot play this content when the number of remaining plays is zero.

("Rental Expired" is displayed.)

When playing this content

- The number of remaining plays is reduced by one if
 - you press **[SRC/PWR]**.
 - etc. and arrive at another content or the start of the content being played.

Troubleshooting

❑ If You Suspect Something Wrong

Check and take steps as described below.

If the described suggestions do not solve the problem, it is recommended to take the unit to your nearest authorized Panasonic Service center. The product should be serviced only by qualified personnel. Please refer checking and repair to professionals. Panasonic shall not be liable for any accidents arising out of neglect of checking the unit or your own repair after your checking.

Never take measures except those indicated by *italic* letters in “Possible Solution” described below because those are too dangerous for users to handle themselves.

■ Common

| Problem | Possible cause ➔ Possible solution |
|---|--|
| No power to the unit | <p>The power cord (battery, power and ground) is connected in the wrong way. ➔ Check the wiring.</p> <p>Fuse blows out. ➔ Eliminate the cause of fuse blowout and replace the fuse with new one. <i>Consult your dealer.</i></p> |
| Sound is not generated. | <p>MUTE is set to ON. ➔ Set MUTE to OFF.</p> <p>The wiring of speaker lines is not correct, or a break or poor contact arises. ➔ Check the wiring in accordance with the wiring diagram. (Installation Instructions)</p> |
| Noise | <p>There is an electromagnetic-wave generator such as a cellular phone near the unit or its electrical lines. ➔ Keep the electromagnetic-wave generator such as a cellular phone away from the unit and the wiring of the unit. In case noise cannot be eliminated due to the wiring harness of the car, consult your dealer.</p> <p>The contact of the ground lead is poor. ➔ Make sure that the ground lead is connected to an unpainted part of the chassis securely.</p> |
| Noise is made in step with engine revolutions. | <p>Alternator noise comes from the car. ➔ Change the wiring position of the ground lead. ➔ Mount a noise filter.</p> |
| Some operations are not executable. | <p>Some operations are not executable in particular modes such as menu mode. ➔ Read the operating instructions carefully and cancel the mode. If the unit is still out of order, consult your dealer.</p> |
| No sound from speaker(s) | <p>There is a break, a short circuit, poor contact or wrong speaker wiring. ➔ Check the speaker wiring.</p> |
| The speaker channels are reversed between right and left. | <p>The speaker wiring is reversed between right and left. ➔ Perform the speaker wiring in accordance with the wiring diagram.</p> |
| The power of the unit fails unintentionally. | <p>The safety device is activated. ➔ Consult your dealer, or your nearest Panasonic Service center.</p> |

⚠ Warning

- Do not use the unit in an irregular condition, for example, without sound, or with smoke or a foul smell, which can cause ignition or electric shock. Immediately stop using the unit and consult your dealer.
- Never try to repair the unit by yourself because it is dangerous to do so.

Troubleshooting (continued)

■ Display Settings

The picture is dark. The picture is whitish. Something is wrong with the picture. The picture is light in color.

The screen is not adjusted properly.
➔ ***Make every adjustment on the screen.***

■ Radio

Poor reception or noise

Antenna installation or wiring of antenna cable is faulty.
➔ ***Check whether the antenna mounting position and its wiring are correct. In addition, check to see whether the antenna ground is securely connected to the chassis.***
No power is supplied to the antenna amplifier (when using a film antenna, etc.).
➔ ***Check the wiring of the antenna power lead.***

The number of auto preset stations is less than 6.

The number of receivable stations is less than 6.
➔ ***Move to an area where receivable stations number is maximum, and try presetting.***

Preset stations cannot be stored.

The contact of the battery lead is poor, or the battery lead is not always powered.
➔ ***Make sure that the battery lead is connected securely, and preset stations again.***

■ CD

No playback or disc ejected

The disc is inserted upside down.
➔ ***Insert a disc correctly.***
There is a flaw or foreign object on the disc.
➔ ***Remove the foreign object, or use a flawless disc.***

Sound skipping or noise

There is a flaw or foreign object on the disc.
➔ ***Remove the foreign object, or use a flawless disc.***

Sound skipping due to vibration

The unit is not sufficiently secured.
➔ ***Secure the unit to the console box.***
The unit is tilted at over 30° in the front-to-end direction.
➔ ***Make the angle 30° or less.***

Disc unejectable

Something such as a peeled label obstructs the disc coming out.
➔ ***Press and hold the [▲] for more than 10 seconds (disc forced ejection). If the disc forced ejection does not work, consult your dealer.***
The microcontroller in the unit operates abnormally due to noise or other factors.
➔ ***Unplug the power cord and plug it again. In case the unit is still out of order, consult your dealer.***

■ MP3/DivX

| | |
|--|---|
| No playback or disc ejected | <p>The disc has unplayable formatted data. ⇒ Refer to the description about MP3/DivX for playable formats.</p> |
| The CD-Rs/RWs/DVD-Rs/RWs that are playable on other devices are not playable on this unit. | <p>The playability of some CD-Rs/RWs/DVD-Rs/RWs may depend on the combination of media, recording software and recorder to be used even if these CD-Rs/RWs/DVD-Rs/RWs are playable on other devices such as a PC. ⇒ Make CD-Rs/RWs/DVD-Rs/RWs in a different combination of media, recording software and recorder after referring to the description about MP3/DivX.</p> |
| Sound skipping or noise | <p>There is a flaw or foreign objects on the disc. ⇒ Remove the foreign objects, or use a flawless disc. For MP3/DivX, refer to the description about MP3/DivX.</p> <p>Playing VBR (Variable Bit Rate) files may cause sound skipping. ⇒ Play Non-VBR files.</p> |
| The picture stops. | <p>The picture may stop if the DivX files are greater than 2 GB. ⇒ Keep the file size under 2 GB.</p> |

Note:

- Refer to “Notes on MP3/DivX”. (⇒ page 22)

■ DVD



| | |
|---|---|
| Cannot switch the audio language/subtitle language/angle. | <ul style="list-style-type: none"> ● It is not possible to switch if the disc does not have multiple audio languages/subtitle languages/angles recorded on it. (Refer to the guide provided with your disc.) ● Some discs permit switching through a menu screen. ● Sometimes, switching angles is possible only with certain scenes. |
| The audio/subtitle language selected in the DVD settings is not used. | <p>If audio or subtitles in that language are not recorded on the disc, the audio or subtitles do not switch to that language. (Some discs permit switching through a menu screen. Refer to the guide provided with your disc.)</p> |
| A DVD-R or DVD-RW is not playable. | <p>The disc is still unfinalized. ⇒ Finalize the disc. Refer to “Before Disc Playback” (⇒ page 16) or “Notes on Discs” (⇒ page 48) for other cases.</p> <p>The disc is in the video recording (VR) format. ⇒ Play video formatted discs. Refer to “Before Disc Playback” (⇒ page 16) or “Notes on Discs” (⇒ page 48) for other cases.</p> |
| Sound is not generated. | <p>The audio format is output disabled for this unit such as dts. ⇒ Use output enabled discs. Refer to “Before Disc Playback” (⇒ page 16) or “Notes on Discs” (⇒ page 48) for other cases.</p> |

Troubleshooting (continued)

❑ Error Display Messages

■ CD/MP3/DivX/DVD/VCD (Video CD)

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| Display | Possible cause ➡ Possible solution |
|---|---|
| Non Playable Disc | <p>Disc is dirty, or is upside down. ➡ Check disc.</p> <p>Disc has scratches. ➡ Check disc.</p> |
| Mechanism Error | <p>No operation by some cause. ➡ Press [▲]. If failure persists, press the reset switch. If normal operation is not restored, call the store where you purchased the unit or the nearest Panasonic Service center.</p> |
| File Error | <p>The type of file that is selected is not supported. ➡ Check disc.</p> |
| No Disc | <p>No disc is in the player. ➡ Insert disc into the disc slot.</p> |
| Region Code Error | <p>The region code of the disc to be used is not compatible with this unit. ➡ Press [▲] and check the disc.</p> |
|  | <p>You are trying to play the DivX VOD content that was purchased with a different registration code. ➡ Purchase the DivX VOD content with the registration code of this unit. (➡ page 40)</p> |
|  | <p>The DivX VOD content has no available play count. ➡ Purchase again the content or play another content. (➡ page 40)</p> |
| DivX HD not Supported | <p>The selected DivX HD file is not supported. ➡ Check the file. Play Non-DivX HD files.</p> |

Note:

- There may be cases when the disc numbers affected by an error are displayed before “Non Playable Disc”.

■ USB

| | |
|----------------------|---|
| Device Not Supported | <p>No playable files exist. ⇒ Use the type of USB device that is suitable for this unit.</p> <p>An unsupported USB device was connected. ⇒ Record files that can be played back on this unit onto the USB device.</p> |
| Hardware Error | <p>A USB device that exceeds the current capacity that can be supplied was connected. ⇒ Use a USB device that has a consumption current of less than 500 mA.</p> <p>For some reason, an over-current was detected. ⇒ Switch the Source, and select USB (MP3/WMA) mode again. ⇒ Check that the USB connector section is not dirty, and that there is no foreign material.</p> |
| Read Error | <p>No operation by some cause. ⇒ Switch the power or ACC ON/OFF. If this does not solve the problem, unplug the power cord and plug it in again. In case the unit is still out of order, consult your dealer. (⇒ Installation Instructions)</p> |
| Decode Error | <p>No operation by some cause. ⇒ Switch the power or ACC ON/OFF. If this does not solve the problem, unplug the power cord and plug it in again. In case the unit is still out of order, consult your dealer. (⇒ Installation Instructions)</p> |
| File Error | <p>The player for some reason cannot read the file you are trying to play. (File recorded in an unsupported file system, compression scheme, data format, file name extension, damaged data, etc.) ⇒ Confirm that the USB extension cable is firmly connected, and reconnect if not. Select a file that the player can read. Check the type of data stored in the USB device. Format the USB device if necessary.</p> |
| DRM Protected | <p>A WMA file can be copyrighted. ⇒ The file protected by copyright is not playable.</p> |
| No File | <p>Your USB device has no playable file. ⇒ Download playable file to your USB device.</p> |

Troubleshooting (continued)

☐ In case you forget the ID code...

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In case you forget the ID code, please consult your nearest Panasonic Service center.

ID code memo

Copy the memo at right, fill in the ID code, and keep it in a secure location.

Model No. CQ-VW120L

ID CODE

☐ Product Servicing

If the suggestions in the charts do not solve the problem, we recommend that you take it to your nearest authorized Panasonic Service center. The product should be serviced only by a qualified technician.

☐ Replacing the Fuse

Use fuses of the same specified rating (**15 A**). Using different substitutes or fuses with higher rating, or connecting the product directly without a fuse, could cause fire or damage to this unit.

If the replacement fuse fails, contact your nearest Panasonic Service center for service.

☐ If the Unit Begins to Malfunction...

Reset switch

Insert a hard, slender stick into the hole and push the switch.

Important

Push the switch only when the unit fails to operate with any buttons. (Stored settings and adjustments are not cleared.)

If the unit fails to return to normal condition, call the nearest Panasonic Service center and ask for repairs.



Reset switch

Note:

- If the ID-CODE has been already set, you will be asked to enter the ID-CODE right after the unit is restarted.

Maintenance

□ Cleaning this Unit

Your product is designed and manufactured to ensure a minimum of maintenance. Use a dry soft cloth for routine exterior cleaning. Never use benzine, thinner or other solvents.



To remove stubborn stains

- 1 Moisten the soft cloth in dish soap diluted with water and wring well.
- 2 Wipe lightly. Go over the same surface with a dry cloth.



Note:

- Since there is the possibility of water drops getting inside of the unit, do not directly apply cleanser to the surface.
- Do not scratch the screen with your nails or other hard objects. The resulting scratches or marks will obscure the images.

⚠ Caution

- If water drops or similar wet substances get inside the monitor, it may cause a malfunction.

Notes on Discs

How to hold the disc

- Do not touch the underside of the disc.
- Do not scratch the disc.
- Do not bend disc.
- When not in use, keep disc in the case.

Printed side



Do not use discs that fit any of the descriptions given below. Using these discs may damage the discs or cause the unit to malfunction.

- Special discs in a shape which is not round



- Partly or wholly transparent disc



Wholly transparent disc*

Partly transparent disc

*Wholly semi-transparent disc may not be played back.

- Discs with adhered labels, etc. on them



Disc with adhered stickers or tape

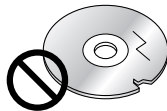
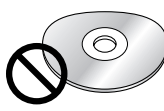
Labels created by a printer or tape



Protective films or sheets

Disc accessories (stabilizers, etc.)

- Damaged or deformed discs



Shoddily made discs

Discs with cracks, scratches or parts missing



Discs with burrs
Please remove the burrs before use.

Disc insert

The surfaces of new discs tend to be slippery. Therefore, when using such a disc for the first time, it may not load satisfactorily even when it has been inserted into the unit. At a time like this, insert the disc into the unit as far as it will go until it is loaded properly.

- When inserting a disc into or ejecting and removing it from the unit, insert it straight in or eject and remove it straight out in parallel with the unit. Otherwise, the disc may be scratched or marked in the process.
- When inserting a disc, do not put one disc on another. Failure to observe this may cause the discs to be jammed.

Do not leave discs in the following places:

- Direct sunlight
- Near car heaters
- Dirty, dusty and damp areas
- On seats and dashboards

Disc cleaning

Use a dry, soft cloth to wipe from the center outward. Do not attach any seals or labels to your discs.

Do not write on the disc label in a heavy pen or ballpoint pen.



<Correct>



<Wrong>

Notes on CD-Rs/RWs, DVD-Rs/RWs

- You may have trouble playing back some CD-R/RW, DVD-R/RW discs recorded on CD/DVD recorders (CD-R/RW, DVD-R/RW drives), either due to their recording characteristics or dirt, fingerprints, scratches, etc. on the disc surface.
- CD-R/RW, DVD-R/RW discs are less resistant to high temperatures and high humidity than ordinary music CDs. Leaving them inside a car for extended periods may damage them and make playback impossible.
- The unit may not successfully playback a CD-R/RW, DVD-R/RW that was made by the combination of writing software, a CD/DVD recorder (CD-R/RW, DVD-R/RW drives) and a disc if they are incompatible with one another.
- This player does not play CD-R/RW, DVD-R/RW discs if the session is not closed.
- Be sure to observe the handling instructions of CD-R/RW, DVD-R/RW discs.
- This player does not play CD-R/RW, DVD-R/RW discs which contain other than CD-DA or MP3/DivX data.

Language Code List



DVD language menu (⇒ page 38)

In “Other” cases... (⇒ page 38)

Input the four digit language code pressing the buttons **0** to **9**.
Touch **Enter** to determine.

Note:

- Setting is finished and the display returns to the main menu.
- For retrying selection during number entry, touch **Clear**.

| Code | Language Name |
|------|-----------------|
| 6565 | Afar |
| 6566 | Abkhazian |
| 6570 | Afrikaans |
| 6577 | Ameharic |
| 6582 | Arabic |
| 6583 | Assamese |
| 6589 | Aymara |
| 6590 | Azerbaijani |
| 6665 | Bashkir |
| 6669 | Byelorussian |
| 6671 | Bulgarian |
| 6672 | Bihari |
| 6678 | Bengali; Bangla |
| 6679 | Tibetan |
| 6682 | Breton |
| 6765 | Catalan |
| 6779 | Corsican |
| 6783 | Czech |
| 6789 | Welsh |
| 6865 | Danish |
| 6869 | German |
| 6890 | Bhutanian |
| 6976 | Greek |
| 6978 | English |
| 6979 | Esperanto |
| 6983 | Spanish |
| 6984 | Estonian |
| 6985 | Basque |
| 7065 | Persian |
| 7073 | Finnish |
| 7074 | Fiji |
| 7079 | Faroese |
| 7082 | French |
| 7089 | Frisian |
| 7165 | Irish |
| 7168 | Scots Gaelic |
| 7176 | Galician |
| 7178 | Guarani |
| 7185 | Gujarati |
| 7265 | Hausa |
| 7273 | Hindi |
| 7282 | Croatian |
| 7285 | Hungarian |

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

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

Definition of Terms



Dolby Digital

This fully discrete format divides the music signals into 5.1 channels: Front Left (L), Front Right (R), Centre (C), Left Surround (LS), Right Surround (RS) and Subwoofer (SW: 0.1 channel) for recording and playback. The number of channels that are recorded depends on the software. (1 to 5.1 channels)

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Interactive DVD

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

Letterbox screen

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

LPCM (Linear PCM audio)

In this format, the audio signal is converted to digital data and recorded in two channels without compression. Because the capacity of a DVD disc is large, it can store more data with better accuracy than a CD.

Pan & Scan screen

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

Playback control (VCD (Video CD))

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

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

DivX

DivX is a popular media technology created by DivX, Inc. DivX media files contain highly compressed video with high visual quality that maintains a relatively small file size. DivX files can also include advanced media features like menus, subtitles, and alternate audio tracks. Many DivX media files are available for download online, and you can create your own using your personal content and easy-to-use tools from DivX.com.

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Official DivX® Certified product
 Plays all versions of DivX® video with standard playback of DivX® media files
 DivX, DivX Certified, and associated logos are trademarks of DivX, Inc. and are used under license.

Specifications

General

- Power supply : 12 V DC (11 V – 16 V), test voltage 14.4 V, negative ground
- Current consumption : Less than 10 A (during disc playback)
- Power Output : 20 W x 4 ch (1 kHz, 1 %, 4 Ω)
- Maximum power output : 50 W x 4 ch
- Compatible speaker impedance : 4 Ω – 8 Ω
- Video input signal : Composite video signal, 1.0 Vp-p (75 Ω)
- Audio input sensitivity : 2 Vrms
- Video output signal : Composite video signal, 1.0 Vp-p (75 Ω)
- Pre-Amp output voltage : 2 Vrms
- Pre-Amp output impedance : Less than 600 Ω
- Dimensions (W x H x D) : 178 x 100 x 160 mm
- Weight : 2.3 kg

FM stereo radio

- Frequency range : 87.9 MHz – 107.9 MHz
- Usable sensitivity : 7 dB/ μ V
- Stereo separation : 30 dB (1 kHz)
- S/N ratio : 62 dB

AM radio

- Frequency range : 530 kHz – 1 710 kHz
- Usable sensitivity : 28 dB/ μ V
- Image rejection ratio : 50 dB

Note:

- Specifications and the design are subject to modification without notice due to improvements in technology.
- Some figures and illustrations on this manual may be different from your product.

Applicable iPod/iPhone

Made for.

- iPod (5th generation)
- iPod nano (1st generation)
- iPod nano (2nd generation)
- iPod nano (3rd generation)
- iPod nano (4th generation)
- iPod touch (1st generation)
- iPod touch (2nd generation)
- iPod classic

Works with.

- iPhone
- iPhone 3G

* The applicable models have been confirmed as the end of January 2009. We do not guarantee the operation with our future products or upgraded software.

Audio section

- Output voltage/ Impedance : 2 Vrms/600 Ω
- Frequency characteristics : 20 Hz – 20 kHz (± 1 dB)
- Dynamic range : 96 dB (during CD playback)
- S/N ratio : 95 dB (during CD playback)

Monitor

- Liquid crystal panel : 6.1-inch wide (15.5 cm)
- Screen dimensions (W x H x H) : 136 x 72 x 154 mm
- Number of pixels : 336 960 pixels (234 vertical x 480 horizontal x 3)
- Valid pixel ratio : Over 99.99%
- Display method : Transparent color filter format
- Drive method : TFT (Thin Film Transistor) active matrix format

USB connector

- USB standard compatibility : 1.1/2.0 full speed
- File system : FAT12/16/32
- Maximum supply current : 500 mA
- Playable audio format : MP3/WMA
- Recommended capacity : Less than 4 GB (1 partition)

Front AV input (AV IN)

- Input impedance : 47 k Ω
- Allowable external input : 2.0 V
- Connector : 3.5 mm ϕ mini-plug (Equipped with video input terminal)
- Video input signal : Composite video signal, 1.0 Vp-p (75 Ω)
- Audio input sensitivity : 2 Vrms

“Made for iPod” means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.

“Works with iPhone” means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards.

- iPod is a trademark of Apple Inc., registered in the U.S. and other countries.
- iPhone is a trademark of Apple Inc.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

Memorandum



Memorandum template with 20 horizontal lines for writing.



Handwriting practice lines consisting of 20 horizontal dotted lines.

Panasonic Corporation

Web Site : <http://panasonic.net>