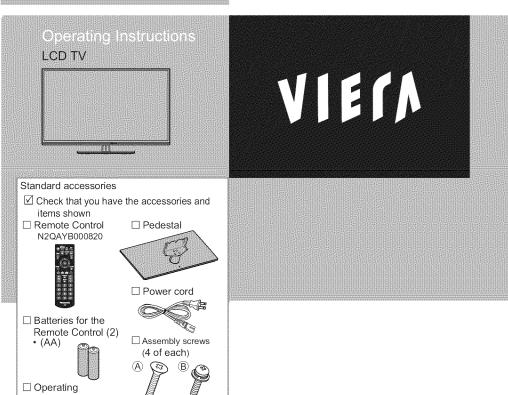
Panasonic

TC-L39EM60 TC-L50EM60/TC-L50EM60E



English

☐ Operating

Instructions

Thank you for purchasing this Panasonic product Please read these instructions before operating your set and retain them for future reference. The images shown in this manual are for illustrative purposes only

USA Only: Disposal may be regulated in your community due to Environmental considerations. For disposal or recycling information, please visit Panasonic website: http://www.panasonic.com/ environmental or call 1-888-769-0149.

Register online at





interface

This product incorporates some kinds of open source software. The software is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY, without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE, Please refe to the detailed terms and conditions thereof shown in the 'License" menu on this product.

Panasonic does not guarantee operation and performance of peripheral devices made by other manufacturers; and e disclaim any liability or damage arising from operation and/or performance from usage of such other maker's

HDMI, the HDMI logo and High- Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby



and the U.S. Department of Energy. It is administered in Canada by Natural Resources Canada (NRC) through the Office of Energy Efficiency (OEE). This program is helping to protect the environment and save money through energy efficient products and practices. This product qualifies for ENERGY STAR in the "Home Use" setting and this is the setting in which energy savings will be achieved. Any modifications to the "Home Use" settir or other factory default settings could result in greater energy consumption

beyond levels that meet ENERGY STAR

Energy Star is a joint program of the

US Environmental Protection Agency

Manufactured under license under U.S. Patent Nos: 5,956,674; 5,974,380; 6,487,535 & other U.S. and orldwide patents issued & pending, DTS, the Symbol, DTS and the Symbol together are registered trademarks & DTS 2.0+Digital Out is a trademark of DTS, Inc. Produc ludes software. © DTS, Inc. All Rights Reserved.

qualifications.

Contents

| Safety Precautions | 2 |
|---|-----|
| Note to CATV System Installer | 2 |
| Secure Ventilation | 2 |
| Important Safety Instructions | 2 |
| FCC STATEMENT | 3 |
| CHILD SAFETY | 3 |
| Attaching the pedestal to TV | 4 |
| Connection Panels | 5 |
| AV cable connection | 5 |
| Audio connection | 6 |
| Audio ARC connection | 6 |
| Using Controls on the TV | 6 |
| Indicators on the TV | 6 |
| Power cord connection | 6 |
| Installing the remote's batteries | 6 |
| Remote control | 7 |
| First Time Setup | 7 |
| Watching TV | 8 |
| Listen with SAP (Secondary Audio Programming) | 3. |
| Closed Caption (CC) | 8 |
| Displaying information | 8 |
| Display the "Options menu" | 8 |
| Call up a Favorite channel | 8 |
| Password setting/entering | |
| Set the "Sleep timer" | 8 |
| How to Use Menu Functions | 9 |
| Using Media player | 1 1 |
| Specifications | 13 |
| Supported file format in Media Player | 14 |
| Customer Services Directory | |

Safety Precautions



ING: To reduce the risk of electric shock, do not remove cover or back. er-serviceable parts inside. Refer servicing to qualified service personn

The lightning flash with arrowhead within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons. The exclamation point within a triangle is intended to tell the user that important operating

and servicing instructions are in the papers with the

This reminder is provided to direct the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Note to CATV System Installer

Secure Ventilation

Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to ensure reliable operation of the LCD TV and to protect i from overheating. These openings must not be blocked or covered. There should be at least 10 cm of space around the TV. The openings should never be blocked by placing the LCD TV on a bed, sofa, rug or other simila surface. This LCD TV should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.

Important Safety Instructions

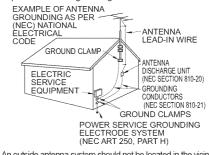
- Read these instructions
- Keep these instructions
- Heed all warnings. Follow all instructions
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat sters, stoves or other apparatus (including amplifiers) that
- Do not defeat the safety numose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for acement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments / accessories specified by the manufacturer 12) Use only with the cart, stand, tripod, bracket or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over. Unplug this apparatus during lightning stems.
- Unplug this apparatus during lightning storms or when unused for long periods of time.

 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been
- exposed to rain or moisture, does not operate normally, or has been dropped.

 15) Operate only from the type of power source indicated on the
- marking label. If you are not sure of the type of power supplied to your home consult your television dealer or local power company Follow all warnings and instructions marked on the LCD TV.

17) Never push objects of any kind into this LCD TV through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the LCD TV.

If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. In the U.S. Section 810-21 of the National Electrical Code provides information with respect to proper grounding of the mas and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



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

- Unplug this LCD TV from the wall outlet and refer servicing to ualified service personnel under the following condition
- When the power cord or plug is damaged or frayed. If liquid has been spilled into the LCD TV. If the LCD TV has been exposed to rain or water. If the LCD TV does not operate normally by following the
- operating instructions.

 Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the LCD TV to normal
- operation.
 e. If the LCD TV has been dropped or the cabinet has been
- damaged.
 When the LCD TV exhibits a distinct change in performance this indicates a need for service.When replacement parts are required, be sure the service
- technician uses replacement parts specified by the manufacturer that have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- other hazards.
 WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING. DO NOT PLACE LIQUID CONTAINERS (FLOWER VASES, CUPS, COSMETICS, ETC.) ABOVE THE SET (INCLUDING ON SHELVES ABOVE, ETC.).
 WARNING: SMALL PARTS CAN PRESENT CHOKING
- HAZARD IF ACCIDENTALLY SWALLOWED. KEEP SMALL PARTS AWAY FROM YOUNG CHILDREN. DISCARD UNIVEEDED SMALL PARTS AND OTHER OBJECTS, INCLUDING PACKAGING MATERIALS AND PLASTIC BAGS/SHEETS TO PREVENT THEM FROM BEING PLAYED WITH BY YOUNG CHILDREN, CREATING THE POTENTIAL RISK OF SUFFOCATION.
- To prevent the spread of fire, keep candles or other open flames away from this product at all times. WARNING: A warning that batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

26) CAUTION: The Power switch on this unit will not completely shut off all power from AC outlet. Since the power cord serves as the main disconnect device for the unit, you will need to unplug it from the AC outlet to shut down all power. Therefore, make sure the unit has been installed so that the power cord can be easily unplugged from AC outlet in case of an accident. To avoid fire hazard, the power cord should also be unplugged from the AC outlet when left unused for a long period of time (for example,

when on vacation).
27) CAUTION: TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS PLUG WITH A RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO

EVENT BLADE EXPOSURE.

INCORRECTLY REPLACED. REPLACE ONLY WITH THE

PREVENT BLADE EXPOSORE.

28) CAUTION: USE WITH OTHER STAND MAY RESULT IN INSTABILITY POSSIBLY CAUSING INJURY.

29) CAUTION: DANGER OF EXPLOSION IF BATTERY IS

SAME OR EQUIVALENT TYPE.

This equipment is designed to operate in North America and other countries where the broadcasting system and AC house current are exactly the same as in North America.

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following magazines.

following measures:
• Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver

 Increase the separation between the equipment and receiver.
 Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 Consult the dealer or an experienced radio/TV technician for help. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference that may cause. any interference received, including interference that may cause

any interierence received, including interierence that may cause undesired operation.

FCC Caution:To assure continued compliance, follow the attached installation instructions and use only shielded interface cables when connecting to computer or peripheral devices. Any changes or modifications not expressly approved by Panasonic Corp. of North America could void the user's authority to operate this device.

Models: TC-L39EM60/TC-L50EM60/TC-L50EM60E

Panasonic Corporation of North America One Panasonic Way, Secaucus, NJ 07094 Panasonic Consumer Marketing Company of North America 1-877-95-VIERA (958-4372)

> Make sure that the wall where you are mounting the display is appropriate.

panel displays can be heavy.

The American Academy of Pediatrics discourages media viewing for children younger than 2 years. For more details, see www.aap.org



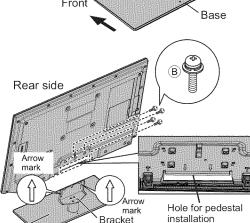
Attaching the pedestal to TV

Set-up

■ Fix securely with assembly screws
⑤. (Total 4 screws)

Tighten assembly screws
(B) (total 4 screws) loosely at first, then tighten them firmly to fix securely.

Protrusion of Neck (Bottom)



Work on a flat surface WARNING

Do not disassemble or modify the pedestal.

Otherwise the TV may fall over and become damaged, and personal injury may result. Caution

Do not use any pedestal other than that provided with this TV.

Otherwise the TV may fall over and become damaged, and personal injury may result.

Do not use the pedestal if it becomes warped or physically

If you use the pedestal when it is physically damaged,

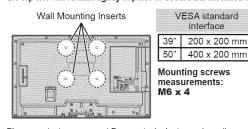
personal injury may result. Contact your nearest Panasonic Dealer immediately. During set-up, make sure that all screws are securely tightened.

It sufficient care is not taken to ensure screws are properly tightened during assembly, the pedestal will not be strong enough to support the TV, and it might fall over and become damaged, and personal injury may result.

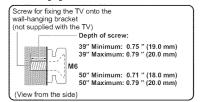
Optional accessories

Wall-hanging bracket (not supplied)

Use the screws that are threaded into the stand-mounting inserts on the back of your LCD TV to secure it to a Wall Mounting kit. It is safe to use long screws for this product. When using long screws, the two bottom screws may loosen, but the top two will remain tightly in place to secure the mounted TV.



Please contact your nearest Panasonic dealer to purchase the recommended wall-hanging bracket. For additional details, please refer to the wall-hanging bracket installation manual.



WARNING

Always be sure to ask a qualified technician to carry out set up. Incorrect fitting may cause equipment to fall, resulting in injury and product damage. Any damage resulting from not having a professional installer mount your unit will void your warranty. Do not mount the unit directly below ceiling lights (such as spotlights, floodlights or halogen lights) which typically give off

high heat. Doing so may warp or damage plastic cabinet parts. Take care when fixing wall brackets to the wall. Always ensure that there are no electrical cables or pipes in the wall before

hanging bracket. When using an angled-type wall hanging bracket, please ensure that there is sufficient space for the connecting cables so that they do not press against the wall when the TV is tilted forward.

For safety reasons, remove units no longer being used from their wall-mounted locations.

Connection Panels

DEO O PR O <u></u> I O

A To use HDMI terminals

Back of the TV

When using a Cable box, external equipment and

video cables shown in this manual are not supplied For additional assistance, visit us at:

1 Video IN / COMPONENT IN

4 ANTENNA / CABLE IN

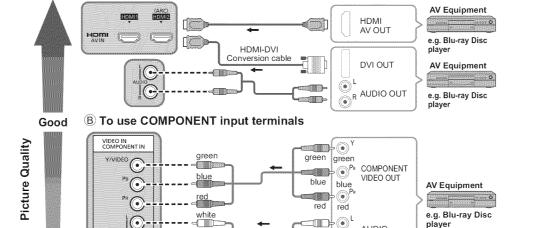
5 DIGITAL AUDIO OUT

2 HDMI 1 - 2

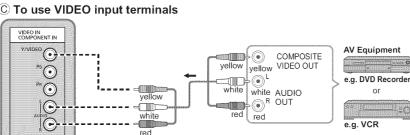
3 USB port

www.panasonic.com/heln

AV cable connection



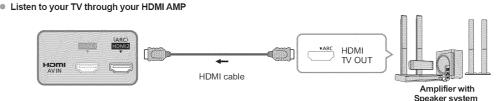
Basic © To use VIDEO input terminals HD)

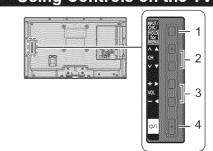


white white OUT

Audio connection Listen to your TV through your stereo

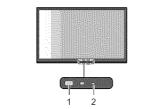
Optical cable e.g. Amplifier





1 Changes the input mode hold down for MENU function)

Indicators on the TV

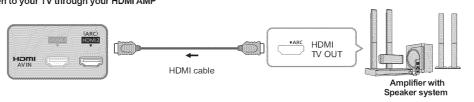


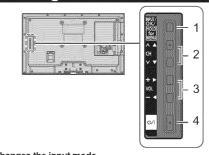
1 Remote control signal receiver Remote control sensor range is about 23 feet (7 meters) in

2 Power LED ON: red OFF: no light

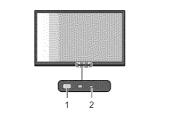
The TV consumes a small amount of electric energy even when turned off.



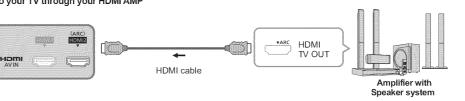


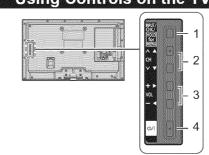


2 Channel up/down 3 Volume up/down



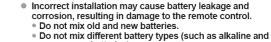
front of the TV set





ses menu and submenu entries, and returns (Press and

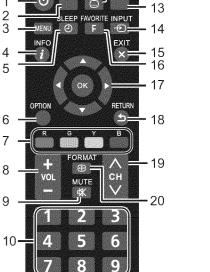
4 Power button



manganese batteries).

Hook

Remote control



= **─ O** LAST =

Panasonic

MEDIA PLAYER - Viewing media contents from a USB.

OPTION - Displays Options menu for special functions

COLOR KEY - Red/Green/Yellow/Blue key for various

Volume Up / Down (VOL+ / -) - Press to decrease or

INFO - Displays TV status information as well as

POWER - Switches TV On or Off.

SLEEP - Accesses the sleep timer

increase the audio volume.

MUTE - Turns off/on the sound.

■ - Use for digital channels.

15 EXIT - Exit from the menu screen.

on Remote Control.

MENU - Press to display the menu screen

Channel Numbers - Directly tune channels.

12 CC - Switches the Closed Caption mode On or Off.

'HDMI 2", "Component", "Video" by pressing INPUT button

13 SAP - Select the Audio mode for watching TV. (SAP : Secondary Audio Programming).

14 INPUT - Select input sources "ANT/Cable in", "HDMI 1"

button and select the appropriate input.

the unit.

respectively.

defaults" in the "Setup" menu.

About broadcasting systems

Analog (NTSC): Conventional broadcasting

dressers, bookcases, shelves, desks, speakers, chests

Follow the manufacturer's

Carefully read and understand all enclosed instructions for

or play with furniture and television sets. Don't place flat panel displays on furniture that can easily

the display where it cannot be pushed, pulled over, or knocked down.

YOUR FLAT PANEL DISPLAY, ALWAYS: Use a mount that has been recommended by the display manufacturer and/or listed by an independent laboratory

manufacturers. If you have any doubts about your ability to safely install your flat panel display, contact your retailer about

First Time Setup

■ Turn the TV On with the "POWER" button

■ Select your language

Set viewing mode

the OK button If you select "Store demonstration" by mistake in "Set viewing

demonstration mode.

To display the "Set viewing mode" screen again as shown above and select "Home use", perform "Reset to defaults"

in the "Setup" menu.

• If you perform "Reset to defaults", please do not unplug the AC Cord while the TV is being reset.

1 Select signal type "Over-the-Air" or "Cable service" 2 Select "Auto program" and start scanning, the channel

If you turn the TV off before completing "First time setup", the initial setup will not launch again the next time you power on

the proper stands or installed according to the manufacturer's

or carts may fall over and cause injury.

TUNE INTO SAFETY One size does NOT fit all.

panel display.

Don't allow children to climb on

watching a program, especially on a "larger than life" flat panel display. Care should be taken to place or install

Some wall mounts are not designed to be mounted to walls with steel studs or old cinder block construction. If

First time setup screen is only displayed automatically after the power cord is inserted into a wall outlet and the TV is turned on for the first time

English/Español/Français

mode", confirmation screen will be displayed.

• If you select "Yes", screen enters the store

o watch TV via a Cable box, Satellite receiver, or any other source (DVD, DVR, gaming device, etc.), press the INPUT

You can repeat "First time setup" by selecting "Reset to

experience is a growing trend and larger flat panel displays are popular purchases. However, flat panel displays are not always supported on

The consumer electronics industry is committed to making home entertainment enjoyable and safe.

recommendations for the safe nstallation and use of your flat

oper use of this product.

Care should be taken to route all cords and cables connected to the flat panel display so that they cannot be pulled or grabbed by curious children WALL MOUNTING: IF YOU DECIDE TO WALL MOUNT

(such as UL, CSA, ETL). Follow all instructions supplied by the display and mount

you are unsure, contact a professional installer.

A minimum of two people are required for installation. Flat

Select "No" and return to previous screen "Set viewing

Finished First time setup. Congratulations! Setup is complete.

After "First time setup", you can also change "Language" and "ANT/Cable setting" from the "Setup" and "TV" menus

Digital (ATSC): Digital TV Standards include digital highdefinition television (HDTV), standard-definition television

(SDTV), data broadcasting, multi-channel surround sound

CHILD SAFETY: It Makes A Difference How and Where You Use Your Flat Panel Display Congratulations on your purchase! As you enjoy your new



Flat panel displays that are improperly situated on

THIS MANUFACTURER CARES!

be used as steps, such as a chest of drawers. Remember that children can become excited while

professional installation.

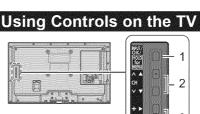
Select your viewing mode (Be sure to select "Home use") 2 Please confirm your selection (Home use) before pressing

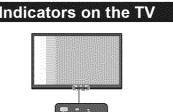
■ ANT/Cable setup (Auto channel setup)

canning starts

audio and interactive television.

Customer Services Directory (for U.S.A. and Puerto Rico) Accessory Purchases (United States and Puerto Rico) ...





Do not place any objects between the TV remote control sensor and remote control.

Note the correct polarity

Power cord connection

Installing the remote's batteries

 Do not use rechargeable (Ni-Cd) batteries Do not burn or break batteries

FAVORITE - Accesses the favorite channels. 17 OK / ▲ ▼ ◀ ▶ - Selects/OK/Change.

18 RETURN - Press to return to previous menu.
 19 Channel Up / Down (CH ^ / Y) - Press to switch to the

20 FORMAT - To cycle through the aspect ratio modes

21 LAST - Switches to previously viewed channel or input

7

Watching TV

Turn power on Select correct input

Select a channel number

To directly enter the digital channel number

Also press CH ∧ / CH ∨ buttons on Side Controls or CH ∧ / CH v buttons on Remote Controls to select programs. Press CH ∧ button to select next channel.

■ Press CH v button to select previous channel For Cable/Satellite box connection-Use your connected box's remote control

Reselect "Cable" or "Antenna" in "ANT in" of "TV" settings menu to switch the signal reception between cable TV and antenna. The channel number and volume level remain the same even after the TV is turned off.

Listen with SAP (Secondary **Audio Programming)**

■ Select the Audio mode for watching TV Digital mode

Press [SAP] to select next Audio track (if available) when receiving a digital channel.

Analog mode
Press [SAP] to select the desired Audio mode.

Each press of [SAP] will change the Audio mode. ("Stereo" / "SAP" / "Mono")

The selected mode is only set for the program you are

watching at the moment.

SAP is not available when watching TV with a Cable or

Satellite box connected via HDMI Contact your Cable or Satellite operator for instructions on enabling SAP with their box.

Closed Caption (CC)

■ Press [CC] to select the CC1/CC2/CC3/ CC4, receiving mode and CC setting in The selected mode is only set for the program you are

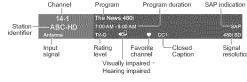
watching at the moment. Closed Caption is not available when watching TV with a

Cable or Satellite box connected via HDMI Contact your Cable or Satellite operator for instructions on enabling CC with their box.

The CC service is depend on the input signal

Displaying information

■ Displays or hides information. Shows the channel banner when watching programs via the Antenna/Cable input.



Display the "Options menu" ■ Press [OPTION] to show the "Options menu"

This menu consists of shortcuts to convenient functions. This menu is only available when the TV is using the Antenna/ Cable input, not when using Cable or Satellite box. Channel surf mode

Specify favorites or type of channels to view when pressing the [◀/▶ Left / Right] button. • "All" / "Favorite" / "Digital only" / "Analog only"

"Favorite": Only channels registered as FAVORITE. Signal meter Check the signal strength if interference is found or freezing

occurs on a digital image.

If the signal is weak, check the antenna. If a problem is found, consult your local dealer

Call up a Favorite channel

■ FAVORITE

Channel numbers registered in Favorite are displayed on the "Favorite list" screen. Select the desired channel with the up/down cursor.

To set Favorite channels

While viewing the channel that you want to set: • "All" / "Favorite" / "Digital only" / "Analog only"

"Favorite": Only channels registered as FAVORITE. When watching a Favorite channel, the icon "\vert\" will be displayed on the channel banner.

You can set up to 10 channels as Favorite

If you set a new channel in a used slot, the original Favorite

channel will be deleted first then you can add a new one.

You can set Favorite channels when using Cable or Satellite

To delete Favorite channels Select the channel you want to remove, then press OK button.

The icon "w" will be removed from the channel banner

Password setting/entering

You need to enter the password when you access locked channel or inputs.

■ Input your 4-digit password

If it is your first time entering the password, please enter "1234" This is the default password. To change password - Input the new 4-digit password twice.

Make a note of your password. Do not forget it. (If you have

forgotten your password, consult your local dealer.) When you select a locked channel, a message will be displayed that allows you to view the channel after you input your password.

Set the "Sleep timer"

The TV automatically goes into Standby after the selected

■ Press [SLEEP] repeatedly until the desired time appears.

It is also possible to set the time from "Sleep timer" in the "Setup"

To cancel, set to "Off" or turn off the TV. When the remaining time is within 3 minutes, the remaining time

will flash on screen • "Off" / "15" / "30" / "60" / "90" (minutes)

How to Use Menu Functions Various menus allow you to make settings for the picture, sound, and other functions so that you can enjoy watching TV best suited for you. Press MENU button, the menu will be displayed.

Press ▲▼ buttons to select item desired.

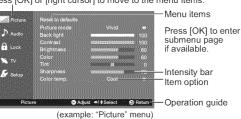
Press ▲▶ buttons to adjust value.

Press RETURN button return to the previous menu.

■ Display the menu Shows the functions that can be adjusted. Some functions will be disabled depending on the type of input signal.

Menu structure

Press [OK] or [right cursor] to move to the menu items.



Picture settings · Audio settinas — Lock settings
— hannel, Program, etc.) (Channel, Program, etc.)

• **TV settings**(Tuning, Audio language, Preferred audio type)

Adjust or select a menu item

Some items have submenus, press the [OK] button to enter



Settings Items Option Picture Reset to defaults Resets all picture adjustments Picture mode Vivid/Standard/Cinema/Game Back light [Adjusts the luminance of the back light.] Contrast, [Adjusts the color, brightness, etc. Brightness, for each picture mode to suit your preference] Cool/Normal/Warm Color temp. · Selects a choice of Cool (blue) ormal, or Warm (red) color. A.I. picture Off/On · Controls dark areas withou affecting the black level or rightness in the overall picture Video NR Off/Weak/Medium/Strong (DOT NOISE · Reduces noise, commonly ca snow. Leave it off when receiving a REDUCTION) Some menus are grayed out depending on the input Advanced 3D Y/C Filter : Minimizes noise picture and cross-color in the picture. Color matrix : Selects image Lock SD: Standard-Definition HD: High-Definition
Only used with 480p video signal Black level : Selects Dark or Light. Valid only for external input MPEG NR : Reduces picture noise in MPEG-compressed video. • For Digital TV only

3:2 pulldown : (Off/Auto) Adjusts the picture recorded in 24 fps for Motion picture setting : (Off/ motion picture quality by reducing Aspect adjustments: Screen format (FULL/4:3/JUST/ ZOOM/H-FILL) Changes the format (aspect ratio). Lets you choose the aspect depending on the format of

Settings Items Option Reset to defaults Resets all audio adjustments to factory default settings. [Increases or decreases the pass response.] [Increases or decreases the Treble treble response.] [Emphasizes the left / right Balance speaker volume.] Off/On Enhances audio L/R response when Surround istening to stereo. Off/On Switches to "Off" when using TV speakers external speakers.Off: "Surround" does not work if "Off" is selected. Auto: Bypass DTS signal if input source is DTS format, or fixed output Digital audio to Dolby Digital besides DTS source. PCM: Digital output signal is fixed HDMI1-2 in : Digital/Analog Select audio input terminal when Audio input DVI cable is connected. (Analog audio input signal) You will be asked to enter your password each time you display the "Lock" menu Off: Unlocks all the Lock settings of "Channel", "Program" and "Input" All: Locks all the inputs regardless of the Lock settings of "Channel".

Custom: Locks specified inputs of (These channels will be blocked [Select a channel to lock.] regardless of the program rating.) Mode: (Off/On)Set program lock status. "V-chip" technology enables estricted shows to lock according to TV ratings.
On: Set each rating level (U.S.TV (To set a rating Ratings, U.S. Movie Ratings

Canadian English ratings., Canadian French ratings.) U.S.TV ratings/U.S. Movie ratings/Canadian English ratings/Canadian French ratings HDMI1/HDMI2/Component/ Input Locks external inputs accordingly Change [Changes the password. Input the new 4-digit password twice.]

Region Rating System" when available.(Available only in the U.S.A.) The Off rating is independent of other ratings. · When placing a lock on a specific-age-based-rating level, the Off

• This television is designed to support the "Downloadable U.S.

rating and any other more restrictive ratings will also be blocked.

 The television includes a built-in decoder that is capable of providing a text display of the audio. The program being viewed must be transmitting the Closed Caption (CC) information. The settings in "Analog" or "Digital" depend on the broadcaster.

Settings Items

ANT in

Auto program

Manual Program

Preferred

audio type

Language

HDMI control

About

Reset to

TV

Option

Automatically retune the channels

Set Analogue channel manually

after Automatic Channel Search.

Main audio/Hearing impaired/

Narration settings for impaired users Hearing Impaired: Activates closed

narration soundtrack when available

captioning when available on

Visual Impaired: Activates the

English/Español/Français

Sleep Timer : (Off/15/30/60/90

No signal for 10 minutes : (Stay

on/ Power TV off)
To conserve energy, the TV automatically turns

offwhen NO SIGNAL and NO OPERATION

No activity for 3 hours : (Stay

To conserve energy, the TV automatically

turns off when no operation of remote and side panel key continues for more than 3 hours.

You can label the terminal with the

type of equipment connected to it

CEC function: (Off/On) On: The

TV is turned on automatically and switches to the appropriate HDMI

the Play mode is selected.

automatically turned off.

software license.

power on the TV.

settings.

turn off if it is still in Rec mode

Power off link : (No/Yes)

On: When the TV is turned off, a

HDMI connected equipment is also

• A Panasonic DVD Recorder will not

• The TV remains on even if the HDMI

connected equipment is turned off

Performing reset will clear all

settings made in the "Setup"

After reset, "First time setup"

10

will launch when you next

Displays TV version and

menu, such as channel

input whenever an HDMI connected

equipment is initially turned on and

continue for more than 10 minutes.

Closed Caption Displays subtitles (Closed caption)

Cable/Antenna

received in the area.

Stereo/SAP/Mono

Visually impaired

Audio Language English/Spanish/French

broadcasts.

Using Media player Media player allows you to enjoy photos, videos or music recorded on a USB Flash Memory.

The picture may not appear correctly on this TV depending on the recording equipment used.

Display may be delayed when there are many files and folders. Partly degraded files might be displayed at a reduced resolution

Picture settings may not take effect depending on the conditions.

The folder and file names may be different depending on the digital camera or digital video camera used.

Starting Media Player

■ Insert the USB Flash Memory to the TV

Insert the device Remove the device

straight in Pull straight out Media player only supports USB Mass storage class devices.

COMPLIANCE: - Supports only USB1.1 or USB2.0 standard.

Supports file format of FAT16 or FAT32. Maximum USB capacity supported is 32GB.

- USB Hub or card adapter is not supported.

Viewing Contents Start Media Player



■ Select the contents



How to view the data 1 Select Title/Folder

Select file ■ View or play

> Thumbnail / Playback view image and operation differ depending on selected contents.

Photos view

Supported file format * (p.14) The thumbnail of all the photos in the USB Flash

Memory will be displayed

Operation guide

Features Slideshov * View select Drive select ★ □

 Media select : Error display

Displays data information (file name, date, size, etc.) and differs depending on selected data.

[View select]

1 Display the viewing mode selection screen

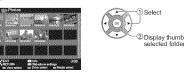
2 Select the view type

11

⇒ B

Folder view: Displays the thumbnails grouped by folders

3 Select folder view to display the thumbnails of the selected



. To return to the thumbnail of all photos



[Slideshow settings]

1 Display the "Slideshow settings" screen



■ Transition effect

Effect for photo switching during slideshow. [None] / [Dissolve] / [Wipe \rightarrow] / [Wipe \leftarrow] / [Wipe \uparrow] / [Wipe \downarrow] / [Box in] / [Box out] / [Random]

Selects enlarged or normal viewing mode on Single view and Slideshow. [Normal] / [Zoom] Depending on the photo size, the photo may not be

■ Photo size

■ Display interval Sets the interval for each image to be displayed in the Slideshow mode. [5] / [10] / [15] / [30] / [60] / [90] / [120]

Repeat Turn the slideshow repeat (cycle) function on or off. [Off] / [On]

■ Background music Selects the background music during Photo mode

[Off] / [Type1] / [Type2] / [Type3]

installed in this TV. Picture quality may suffer depending on the slideshow settings. Picture setting may not work depending on the slideshow

• [Type1], [Type2] and [Type3] are the fixed music each

Videos view

settings.

Supported file format (p.14) The thumbnail of all the Videos in the USB Flash Memory will be displayed.

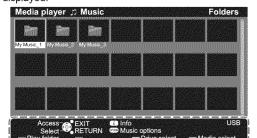


Operation guide

Features Play folder ⇒ → □ Drive select Media select ⇒ (iii)



Music folders in the USB Flash Memory will be displayed.



 Play folder ⇒ (iii) Drive select

1 Display the "Music options" screen

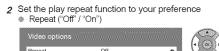


Set the play repeat mode to your preference Repeat

[Other settings in Media player]

 Aspect change

[Video options] 1 Display the "Video options" screen



Supported file format (p.14)



Operation guide

***** Media select **⇒** 📩

[Music options]



([Off] / [One] / [Folder])

12

1 Display the menu MENU

2 Select the "Picture" item



3 Set Adjust the Picture and Audio

Some items are grayed out to indicate that these items are not available. Availability depends on the contents you are enjoying.

Power rating

Standby condition

39" class: 38.5 inch (98cm) 50" class: 49.5 inch (127cm)

39" / 50" FHD (1920X1080)

50": 47.4lb. (21.5 kg) (Including Stand) 50": 40.8lb. (18.5 kg) (TV only) Sound System

VHF/UHF: 2 - 69, CATV: 1 - 135 **Sound Output**

Maximum Visible Range 39": 33.8" × 19.0" (857 mm x 482 mm)

Temperature: 32° F - 95° F(0°C to 35°C) Humidity: 20 % - 80 % RH (non-condensing)

USB Flash Memory format: FAT16, FAT32 (no support

• Some USB devices (USB HUB or card adapter) or some USB

Specifications

eceived signal.

edges of the screen.

2: Full image.

H size (Size1/Size2) Adjusts the

Size 2: Adjusts the image size

according to the aspect mode to

reduce noise. HD size (Size1/Size2) 1: Display

Zoom adjustments (V-position

V-size) Adjusts vertical alignment

and size when aspect setting is

horizontal display range to reduce noise of both side edges of an image.

95% of HD signal, to trim noise at the

AC 110-127 V, 60 Hz Rated Power Consumption 39": 70 Watts; 50": 105 Watts

39": 0.3 Watts; 50": 0.3 Watts Visible screen size (diagonal)

Number of pixels

<u>Dimensions (W × H × D)</u> (Including Stand) 39": 35.1" × 23.4" × 8.6" (890 mm × 593 mm × 217 mm) 50": 44.6" × 28.7" × 10.9" (1131 mm × 729 mm × 275 mm)

Net Weight 39": 27.6lb. (12.5 kg) (Including Stand) 39": 24.3lb. (11 kg) (TV only)

1-way 2 bottom SP System Channel Capability-ATSC/NTSC (Digital/Analog)

39" / 50" : 10W+10W

slightly from the product.

stick may not be used with this TV.

exFAT or NTFS).

50": 43.3" × 24.4" (1099 mm x 619 mm) Operating Conditions

· Specifications are subject to change without notice. The On-Screen Menu and figures in this manual may differ

| aseline jpeg: | |
|-----------------------|---|
| x 4 to 15,360 x 8,640 | DCF and EXIF standards Sub-sampling: 4:4:4, 4:2:2, 4:2:0 Progressive JPEG is not supported. |
| 0 | gressive jpeg: |

Supported file format in Media Player

■ Photos

| Container | File extension | Video codec | Audio codec | Details / Restrictions |
|---------------------|-------------------------------|-------------------------------|--|--|
| AVI <4 ref frame | .avi | H.264 BP/MP/HP | MP3 MPEG1 Layer1/2 AC3 | |
| MKV | .mkv | H.264 BP/MP/HP | MP3 MPEG1 Layer1/2 DTS Core AC3 | |
| MP4 | .mp4 .m4v | H.264 BP/MP/HP | MP3 | This TV supports this container recorded by Panasonic products. For details read the manual of the products |
| TS | .ts .tp .trp | MPEG2 MP@HL H.264 BP/MP/HP | MP3 AC3 | |
| PS | .mpg .mpeg .vro .vob | MPEG1 MPEG2 MP@HL | MPEG1 Layer1/2 DVD LPCM AC3 | |
| WAV | .wav | | DTS CD | |
| | - | 1 | 1 | |

| = 1114310 | - 114515 | | | | | | | |
|-----------|----------------|--|--|--|--|--|--|--|
| Codec | File extension | Restrictions | | | | | | |
| MP3 | .mp3 | Compatible con tasa de bits • 32/40/48/56/64/80/96/112/128/160/192/224/256/320kbits/s • VBR no support | | | | | | |

Some files may not be played back even if they fulfill these conditions. Do not use two-byte characters or other special codes for data.

The function cannot display Motion JPEG and still image not DCF formatted (i.e. TIFF, BMP). Data modified with a PC may not be displayed.

Images imported from a PC must be compatible with EXIF 2.0, 2.1 and 2.2.

13

The device may become unusable with this TV if the file or folder names are changed The picture may not appear correctly on this TV depending on the recording equipment used. Display may take some time when there are many files and folders.

Partly degraded files might be displayed at a reduced resolution.
 All ".JPG" extension data in the USB flash memory will be read in Photo viewer Mode.

The folder and file names may be different depending on the digital camera used.

H.264 BP/MP/HP

Customer Services Directory (for U.S.A. and Puerto Rico)

npcparts@us.panasonic.com

You may also contact us directly at:

Obtain Product Information and Operating Assistance; locate your nearest Dealer or Service Center; purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at http://www.panasonic.com/help

or, contact us via the web at: http://www.panasonic.com/contactinfo

You may also contact us directly at: 1-877-95-VIERA (958-4372) Monday-Friday 9 am-9 pm; Saturday-Sunday 10 am-7 pm, EST.

For hearing or speech impaired TTY users, TTY: 1-877-833-8855 Accessory Purchases (United States and Puerto Rico)

Purchase Parts, Accessories and Instruction Books on line for all Panasonic Products by visiting our Web Site at: http://www.pstc.panasonic.com or, send your request by E-mail to

1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only) (Monday - Friday 9 am to 9 pm, EST.) Panasonic National Parts Center 20421 84th Ave. S., Kent, WA 98032

■ For hearing or speech impaired TTY users, TTY: 1-866-605-1277

(We Accept Visa, MasterCard, Discover Card, and American Express)

Customer's Record

The model number and serial number of this product can be found on its back cover. You should note this serial number in the space led below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes.

| Model Number | Serial Number | |
|--|--|---------|
| Panasonic Consumer Marketing Company of North America, Division of Panasonic Corporation of North America One Panasonic Way, Secaucus New Jersey 07094 U.S.A. | Panasonic Canada Inc. 5770 Ambler Drive Mississauga, Ontario L4W 2T3 CANADA | |
| | | M0212-0 |
| © 2013 Panasonic Corporation of North America. All Rights Reserved. | Printed in China | 15 |

© 2013 Panasonic Corporation of North America, All Rights Reserved.