

Operating Instructions LCD TV Model No. TX-32LX80A



VIECA



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.

> GD TQB4GC0061

Dear Panasonic Customer

Welcome to the Panasonic family of customers. We hope that you will have many years of enjoyment from your new LCD TV.

Contents

Warnings and Cautions	2 External Equipment18 ~ 23
Accessories / Options	3 Aspect Ratio
Identifying Controls	4 HDMI Connection
Basic Connection	5 PC Connection
Initial Setup	5 Control with VIERA Link
Auto Tuning	Input signal that can be displayed
Watching TV	3 Stereo / Bilingual Sound Selection
Watching Videos and DVDs	D Licence
Viewing Teletext10 ~ 1	FAQs
How to use Menu Functions	Troubleshooting
Editing and Setting Channels16	Specifications
Displaying PC Screen on TV17	,

Warnings and Cautions

The second s				
	TV operating voltage: AC SINGLE 230V, 50Hz		To prevent damage which might result in electric shock or fire, do not expose this TV set to rain or excessive moisture. This TV must not be exposed to dripping or splashing water, and objects filled with liquid, such as vases, must not be placed on top of or above the TV.	
- Jang	Do not use at a voltage other than indicated. Take care not to damage the power cord. Do not use if the power cord or power plug is damaged, or if the plug does not fit tightly into the socket. Do not twist the lead, bend it excessively, or stretch it.		 Keep the unit away from these equipment Electronic equipment Do not place video equipment near the unit. It may distort images/sound. Equipment with an infrared sensor This TV also emits infrared rays. 	
X	Do not touch the power plug if your hands are wet.		Do not place the TV on an unstable surface.	
X	Do not remove the rear cover as live parts are accessible when it is removed. There are no user serviceable parts inside.		Remove the plug from the wall outlet (Power point) when the TV set is not used for a prolonged period of time. The mains plug is used as the disconnecting device.	
C X	Avoid exposing the TV set to direct sunlight and other sources of heat. To prevent fire, never place any type of candle or naked flame on top or near the TV set.	Maintenance First, remove the Wipe the surface with clean water, wipe the surface	e mains plug from the socket outlet. e clean using a soft cloth dampened . Then, using a soft dry cloth, evenly, e clean until it is dry.	
10 cm	Allow sufficient space around the unit for radiated heat. Do not block the rear air vents.	 Caution Do not tap or scratch the surface with your fingernail or other hard object. Use care not to subject the surface to bug repellent, solvent, thinner, or other volatile substances (this may degrade surface quality) 		

Accessories / Options



- the edge of the base even if the TV swivels to the full rotation range.
- Do not place any objects or hands within the full rotation range.

the rotation angle.

a: 463.5 mm / b: 380 mm

(View from the top)

Identifying Controls



Basic Connection

External equipments and cables shown are not supplied with this TV. Please ensure that unit is disconnected from the mains socket before attaching or disconnecting any leads.

Connecting aerial



interference might happen.

Note

- Do not put the Coaxial cable close to the mains lead to avoid noise.
- Do not place the Coaxial cable under the TV.
- To obtain optimum quality picture and sound, an Aerial, the correct cable (75 Ω coaxial) and the correct terminating plug are required.
- If a communal Aerial system is used, you may require the correct connection cable and plug between the wall Aerial socket and the TV.
- Your local Television Service Centre or dealer may be able to assist you in obtaining the correct Aerial system for your particular area and the accessories required.
- Any matters regarding Aerial installation, upgrading of existing systems or accessories required, and the costs incurred, are the responsibility of you, the customer.

Initial Setup

These steps are not necessary if the setup has been completed by your local dealer.



Auto Tuning MENU Main menu TERA Link men Display the menu (2) access Setuo menu Access Select and access 1) select "Setup menu" Select and access Selup menu (2) access "Tuning menu" Select the item (Sys select / Auto tuning) ① select Tuning menu Access ewing envi Change or access Tuning menu Auto tuning Access To exit s etra-EXIT select To return to the previous screen MENU RETURN or Sys select (System selection) (1) select Select the system of your area. ②change (China / HK/UK / Asia/M.East / NZ/INDONES / Australia / E.Europe / SPECL Ver / America / CATV / Japan) Auto tuning 3)store Automatically set the channels received in your area. Auto tuning is now complete and your TV is ready for viewing. select "Auto tuning" 2) access The TV will search for, locate, store and then sort into Once Auto tuning is completed the order your local stations. TV will display the programme now stored on programme position1. If it is not the first time to perform Auto tuning, all previous tuning data will be erased. To edit channels is "Editing and Setting Channels" on page 16. • Press the **EXIT** button at any time to go back to watching TV. EXIT For Auto tuning using the buttons on the unit To return to TV ① [1] (Press until "Tuning mode" appears) TV AV ② or Access Tuning menu) ③ (Press until "Auto tuning" is reached) (4) when or the searching channels) (Exit Tuning mode)

Watching TV

Turn power on

ØØ.

- Mains power On/Off switch should be On.
- If "Shop" is displayed on the top right of the screen, select "Home" in "Viewing Environment". (p. 6)

Select a programme number







To select a 2 or 3-digit programme number, eg. 39

 3

 9
 (in a short time)

Other Useful Functions (Operate after 🙆)

Picture Still	Freeze / unfreeze picture HOLD	Press the HOLD button to freeze the picture. (TV/VIDEO input only. Component / HDMI / PC input does not freeze.) Press again to return to watching the current programme.
Display the current programme status	Check or change the current programme status instantly OPTION	 To change To change Teletext Language Selects teletext language CH colour set Adjusts colour density variation between broadcasting channels.
		Note Also possible to change the settings in Menu list (page 14 and 15).
Display status information	Recall status information	Displayed information: For example, Programme number, Channel number, Stereo mode, Aspect mode, Sound menu, Picture menu, Sound system.
	Change the aspect ratio ASPECT	 Each press changes the mode. (16:9 / Just / 4:3 / Zoom1 / Zoom2 / Zoom3) While the bar is displayed
Change aspect ratio	10 : 9 Marine	JUST
	Z00M1	ZOOM2

Watching Videos and DVDs

Once the equipment is connected, use the following procedure to view the input. (For connection, see "External Equipment" on page 22.)



- "DVD" means DVD player, DVD recorders and home theatre recorders.
- Some operations may not be possible on some equipment models.

Viewing Teletext

- In FASTEXT mode, four differently coloured subjects are situated at the bottom of the display. To access more information about one of these subjects, press the corresponding coloured button. This facility enables fast access to information on the subjects shown.
- In List mode, four differently coloured page numbers are situated at the bottom of the screen. Each of these numbers can be altered and stored in the TV's memory.

To change mode Select "Teletext" in Setup menu



Using teletext conveniently



Viewing Teletext (continued)



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 in your own way.





How to use Menu Functions (continued)

Menu		ltem	Adjustment / Configurations				
	Paus	e Live TV	Pause the live TV programme and resume later (page 19)				
(menu	Direct TV Rec		Control the connected DIGA recorder to start or stop recording current TV programme (page 19)				
84 Linl	VIER	A Link Control	Controls the connected Panasonic equipment Easy control only with VIERA remote control"(page 20)				
VIEF	Speaker Selection		 You can also access VIERA Link Menu directly using the VIERA Link button on the remote control. 				
nu	Menu		 Basic picture mode (Dynamic / Standard / Cinema / Eco) Picture mode will be memorized for each TV, AV1, AV2, AV3, PC, HDMI1 and HDMI2 mode. C.A.T.S is in effect when picture mode is set to Eco. 				
	t by each menu	Contrast, Brightness, Colour, Sharpness	Adjusts colour, brightness, etc. for each picture mode to suit your taste				
		NTSC-Tint	 Adjust tint of image For NTSC signal reception only. Item will be changed to 'Tint' when receiving YUV (60Hz) or HDMI (60Hz) signal. 				
nre me		Colour temperature	Chooses the colour balance of the entire image (Cool / Standard / Warm)				
Pict		Ch colour set	Colour density varying between broadcast channels can be adjusted to three levels for each reception channel Select the channel you want to adjust and set this function.				
	Adjus	D. PNR	Automatically reduces image noise (Off / Strong / Weak / Auto) Set to Off when receiving a strong signal.				
		3D-COMB	If colour patterning is seen while watching still or slow moving pictures, set this function to On to obtain sharper and more accurate colours (Off / On) Displayed only when receiving PAL or NTSC signal. Not displayed				
		Reset to Default	Press the OK, \triangleleft or \triangleright button to reset the present Picture Menu to the default settings.				
Jenu	Menu Equalizer		 Basic sound mode (Music / News / Cinema) Sound mode will be memorized for each TV, AV1, AV2, AV3, PC, HDMI1 and HDMI2 mode. 				
Sound I			 Adjust the equalizer for each sound mode. Press the ⊲ or ⊳ button to select frequency band. Then, press the △ or ⊽ button to adjust the level. Applicable for speakers only. (Does not apply for Headphone.) 				

How to use Menu Functions (continued)

Menu	ltem	Adjustment / Configurations				
	Balance	Adjusts volume level of right and left speakers				
	Headphone volume	Adjusts the volume level of the headphones				
d menu	Surround	 Gives a greater spatial effect by using dynamic enhancer (Off / On) Switching is also possible by SURROUND button on the remote control. 				
Soun	HDMI1 input	Chooses according to the signal when HDMI is connected (Auto / Digital / Analogue) HDMI2 terminal is for digital signal only.				
	Reset to Default	Press the OK button to reset the present Sound Menu to the default settings.				
	VIERA Link	VIERA Link function (Off / On) (page 18)				
	Teletext	Teletext display mode (FASTEXT / List)				
	Off timer	Sets the time the unit automatically turns Off (Off / 15 / 30 / 45 / 60 / 75 / 90) (minutes)				
	Child lock	Child lock can be set for each channel and each AV mode Image and sound are not available during Child lock On (Black screen will appear) Select the channel or AV mode you want to lock and set this function.				
	Blue back	Blue back display (Off / On) On: Blue back display when there are no signals Off: Blue back display off				
	VCR/GAME	Reproduction of irregular signals, such as certain TV games and rental video tapes, may be improved. (Off / On)				
enu	Tuning menu	Edits or sets channels (page 16)				
Setup m	Colour system	 Displayed during AV mode. If a clear picture with current colours cannot be obtained when a Broadcast or AV signal is received, this function is used. (Auto / PAL / SECAM / NTSC 4.43 / NTSC 3.58) PAL, SECAM and NTSC 3.58 are different colour signal broadcast transmission systems applicable to different countries. NTSC 4.43 is a trick playback mode used in special VCRs to playback NTSC recorded video tapes through PAL television equipment. 				
	Colour matrix	Displayed during AV mode. Available only with 480p or 576p input signals in a natural colour from digital equipment connected to AV2 Component terminals. Select SD or HD to adjust suitable colour parameters for SD (Standard definition) or HD (High definition) • SD: Input signal is a normal TV system. • HD: Input signal is a High-Definition system.				
	View Environment	 Set the appropriate picture mode based on viewing environment. Home: Picture mode is set as "Standard" (for optimal picture/power consumption for home viewing. Shop: Picture mode is set as "Dynamic" (for in-store display). 				

Editing and Setting Channels

The current channel settings can be changed according to your needs and reception conditions.

	Io treely change settings after Auto setup ① Select the programme number and search through the channel						
	Programme number 2 Store 3 Repeat 1 - 2						
	Salect - Channel Channel Salect - Channel Salect - Channel Sal						
	For Manual tuning using the buttons on the unit						
Set manually	① 💽 (Press until "Tuning mode" appears)						
Manual tuning	 ② v or ··· (Access Tuning menu) ③ ··· (Press until "Manual tuning" is reached) 						
	 (Access Manual tuning) (Programme, Channel (select), Sound system) 						
	 (change programme or start searching channels) (change programme or start Programme number (Blinks) (channel number (Blinks)) (channel number (Blinks)) (channel number (Blinks)) (channel system (Blinks)) 						
Edit Sound system	Allows you to change the sound system used for a programme channel. (4.5MHz / 5.5MHz / 6.0MHz / 6.5MHz) Select the channel you want to adjust 🛸 Set this function 🖈 💿						
Edit	Lets you select the correct transmission standard for the transmission signal being received (Auto / PAL / SECAM / NTSC 4.43 / NTSC 3.58)						
Colour system	Select the channel you want to adjust ➡ Set this function ➡ ● Normally, select "Auto"						
Small adjustment Fine tuning	For the small adjustments to the tuning of an individual channel (useful for example when weather conditions are affecting reception quality of a programme) Select the channel you want to adjust ➡ Set this function ➡ • To cancel Fine tuning, tune again by Manual tuning						
Skip the programme Skip	For skipping the programme numbers on which no TV stations are tuned Select the programme numbers you want to skip 🍬 Set "Skip" to "On" 🖈 💿						

Displaying PC Screen on TV

The screen of the PC connected to the TV can be displayed on the TV. You can also listen to PC sound with the audio cable connected. To connect PC (page 22)



PC menu setting (changed as desired)

To make settings . "How to Use Menu Functions" (1) to (4) (page 12)

Menu	lt	em	Adjustment / Configurations (options)				
		R-Gain	Adjusts the white balance for red areas				
a	Advonced	G-Gain	Adjusts the white balance for green areas				
ţ,	PC	B-Gain	Adjusts the white balance for blue areas				
<u> </u>	Settings	Gamma	(2.0 / 2.2 / 2.5)				
		Reset to default	Press the OK button to reset to the default setting.				
	PC Setup	Input Resolution	 Switches to a wide view VGA (640 × 480 pixels), WVGA (852 × 480 pixels), SVGA (600 x 600 pixels), XGA (1,024 × 768 pixels), WXGA (1,366 × 768 pixels) Options change depending on signals If "H-freq." or "V-freq." is shown in red, the signals may not be supported. 				
		Clock	Set to the minimum level if noise occurs				
Setup		H-pos	Adjusts horizontal position				
			Adjusts vertical position				
		V-pos					
		Clock Phase	Eliminates flicker and distortion Adjust after Clock adjustment Set to the minimum level if noise occurs				
		Reset to default	Press the OK button to reset to the default setting.				

External Equipment

VIERA Link "HDAVI Control"

Enjoy additional HDMI Inter-Operability with Panasonic products which have "HDAVI Control" function. HDMI connections to some Panasonic equipment (Panasonic DVD Recorder DIGA) allow you to enjoy easy playback.

Connections for VIERA Link

- Use fully wired HDMI compliant cable.
- Easy control only with VIERA remote control.
- Read the manuals of the equipment too.



After connections turn the equipment on and then, switch the TV unit on.



Display the menu

Select and access "Setup menu"



Default setting is "On". If no HDMI equipment are connected or standard HDMI (non-"VIERA Link") are used, set to "Off".



Easy playback	Automatic Input switching - When the connected HDAVI control compatible equipment is operated, input mode is switched automatically.
Power on link	When "VIERA Link" is set to "On", the TV is automatically turned on and switched to the appropriate HDMI input whenever HDAVI control compatible equipment is initially turned on and Play mode is selected.
Power off link	When "VIERA Link" is set to "On" and the TV is turned off, the connected HDAVI control compatible equipment is also automatically turned off.

The TV remains on even if the "VIERA Link" compatible equipment is turned off.

Using VIERA Link menu

Pause Live TV	 This function is available with DIGA Recorder which has HDD and "HDAVI Control" function when watching TV programme or input from DIGA Recorder. If you cannot operate, check the "VIERA Link" setting in "Setup menu" (page 18) and the equipment. Display "VIERA Link menu" Select "Pause Live TV" and press OK to pause tive TV programme is recorded on HDD from the point it was paused.
Pause Live TV	Select "Pause Live TV" and press OK. About the operation after resuming, refer to the manual of the equipment.
	To return to Live TV (cancel pause or resume playback) Change the input mode or programme number.
	If you cancel pause or resume playback, the recorded programme will be deleted from HDD.
Direct TV	 This function is available with DIGA Recorder which has HDD and "HDAVI Control" function when watching TV programme. If you cannot operate, check the "VIERA Link" setting in "Setup menu" (page 18) and the equipment. The recording is performed using the tuper of DIGA Recorder. During recording
recording	you can change the programme number, input mode or turn off the TV.
Direct TV Rec	 Display "VIERA Link menu" Select "Start" in "Direct TV Rec", and press OK to start recording Select "Direct TV Rec"
	Select "Stop" in "Direct TV Rec", and press OK.





Note

- This function may not work properly depending on the connected equipment.
- Image or sound may not be available for the first few seconds when playback starts or input mode is switched.
- Volume function will be displayed when adjusting the volume of the equipment.
- Easy playback is also available when using the remote control for Amplifier or Player theatre. Read the manual of the equipment.
- About HDMI cable for connecting Panasonic HD Video Camera, read the manual of the equipment.
- If more than one equipment of the same type are connected to the TV by HDMI cables, for example two DIGA Recorders to HDMI1 and HDMI2, VIERA Link will only be available for the lower terminal number, in this case HDMI1.
- "HDAVI Control 3" is the latest standard (current as of December, 2007) for HDAVI Control compatible equipment. This standard is compatible with conventional HDAVI equipment.

These diagrams show our recommendations for how to connect the TV unit to your various equipment.





DVD recorder / VCR

Types of connectable equipment to each connector

Connector Recording/ Playback (equipment)	⊙ AV1 ⊙ IN ⊙	○ ○ AV2 ○ ○ IN ○ ○	⊕	 MONITOR OUT ○ 	 ○ HDMI1 ○ AUDIO IN Homi1 	
To record / playback (VCR / DVD recorder)	0	0	0	0		
To watch DVDs	0	0	0		0	0
To watch camcorder images (Video camera)	0	0	0		0	0
To watch satellite broadcasts (Set top box)		0			0	
To play games	0	0	0			
VIERA Link					0	0

O Recommended Connection

Connect the S-VIDEO or VIDEO terminal when using AV3 IN terminals.
 Connect the COMPONENT or VIDEO terminal when using AV2 IN terminals.

Aspect Ratio

The	optimum siz	e and	aspect	can be	chosen,	and you	can enjoy	finer images	3,
								<u> </u>	

	Signal name	Aspect modes							
	orginal name	16:9	JUST	4:3	ZOOM1	ZOOM2	ZOOM3		
	PALI	0	0	0	0	0	0		
AV AV	PAL 525/60	0	0	0	0	0	0		
N2N N2N	M.NTSC	0	0	0	0	0	0		
	NTSC	0	0	0	0	0	0		
	525(480)/60i	0	0	0	0	0	0		
IWC	525(480)/60p	0	0	0	0	0	0		
IHI	625(576)/50i	0	0	0	0	0	0		
EN.	625(576)/50p	0	0	0	0	. 0	0		
NO	750(720)/50p	0	0	0	0	0	0		
MP	750(720)/60p	0	0	0	0	0	0		
8	1125(1080)/50i	0	0	0	0	0	0		
	1125(1080)/60i	0	0	0	0	0	0		
PC in	put	0	-	0	-	-	-		

Note

The ratio varies depending on the programme, etc. If the ratio is greater than the standard "16:9" black bands may appear at the top and bottom of the screen.

- If the screen size looks unusual when a widescreen-recorded programme is played back on a VCR, adjust the tracking of the VCR.
- To select the ratio manually : (Only "16:9" or "4:3" in PC mode).

16:9



4:3

Directly displays the image at "16:9" without distortion (anamorphic).

Displays the image at the

standard "4:3" without

distortion.



Displays a "4:3" image full-screen. Stretching is only noticeable at the left and right edges.

ZOOM1



Displays a "16:9" letterbox or "4:3" image without distortion.

ZOOM2



Displays a "16:9" letterbox (anamorphic) image full-screen without distortion.



Displays a "21:9" letterbox (anamorphic) image full-screen without distortion. At "16:9", displays the image at its maximum (with slight enlargement).



4:3

HDMI Connection

HDMI (High-Definition Multimedia Interface) allows you to enjoy high-definition digital images and high quality sound by connecting the TV and the equipment.

HDMI-compatible equipment (*1) with a HDMI or DVI output terminal, such as a set top box or a DVD player, can be connected to the HDMI terminal using a HDMI compliant (fully wired) cable. About connections see "External Equipment" on page 22.

Note

- HDMI is the world's first complete digital consumer AV interface complying with a non-compression standard.
- If the external equipment has only a DVI output, connect to the HDMI1 terminal via a DVI to HDMI adapter cable (*2).
- When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal (HDMI1: use AUDIO IN terminals).
- Audio setting can be made on the "HDMI1 Input" menu screen.
- Applicable audio signal sampling frequencies (2ch L.PCM) : 48 kHz, 44.1 kHz, 32 kHz.
- HDMI2 terminal is for digital audio signal only.
- Use with a PC is not assumed.
- If the connected equipment has an aspect adjustment function, set the aspect ratio to "16:9".
- These HDMI connectors are "type A".
- An equipment having no digital output terminal may be connected to the input terminal of either "Component", "S-VIDEO", or "Video" to receive analogue signals.
- The HDMI input terminal can be used with only following image signals : 480i, 480p, 576i, 576p, 720p and 1080i. Match the output setting of the digital equipment.
- For details of the applicable HDMI signals, see page 26.

(*1) : The HDMI logo is displayed on an HDMI-compliant equipment.

(*2) : Enquire at your local digital equipment retailer shop.

PC connection

A PC may be connected to this TV so that the PC screen is displayed and sound is heard from the TV. A PC adapter is not necessary for the DOS/V-compliant D-sub 15-pin connector.

Note

- Some PC models cannot be connected to this TV.
- When using PC, set the colour display quality of PC to the highest position.
- For details of the applicable PC signals, see below.
- Max. display resolution

Aspect 4:3	1,024 x 768 pixels
16:9	1,366 x 768 pixels

D-sub 15-pin connector signal



Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
1	R	6	GND (Ground)	1	NC (not connected)
2	G	\bigcirc	GND (Ground)	(12)	NC (not connected)
3	В	8	GND (Ground)	(13)	HD
4	NC (not connected)	9	NC (not connected)	14	VD
5	GND (Ground)	10	GND (Ground)	(15)	NC (not connected)

Control with VIERA Link

HDMI connections to some Panasonic equipment allow you to enjoy the easy playback.

- Setup the equipment to enable this function. Read the manual of the equipment.
- Switch the TV until on again with the equipment on when connection or setup is changed.
- This function may not work normally depending on the equipment condition.
- The equipment can be operated by TV's remote control with this function on even if TV is in Standby mode.
- Image or sound may not be available for the first few seconds when the playback starts.
- Image or sound may not be available for the first few seconds when the input mode is switched.
- Easy playback is also available by using the remote control from Amplifier or Player Theatre. Read the manual of the equipment.

Input signal that can be displayed

Mark : Applicable input signal for Component (Y, PB/CB, PR/CR) and HDMI

Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)	Component	HDMI
525 (480) / 60i	15.73	59.94	*	*
525 (480) / 60p	31.47	59.94	*	*
625 (576) / 50i	15.63	50.00	*	*
625 (576) / 50p	31.25	50.00	*	*
750 (720) / 60p	45.00	60.00	sk	*
750 (720) / 50p	37.50	50.00	*	*
1,125 (1,080) / 60i	33.75	60.00	*	*
1,125 (1,080) / 50i	28.13	50.00	*	*

PC (D-sub 15P)

Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)
640 × 480 @60 Hz	31.47	59.94
800 × 600 @60 Hz	37.88	60.32
852 × 480 @60 Hz	31.47	59.94
1,024 × 768 @60 Hz	48.36	60.00
1,366 × 768 @60 Hz	48.39	60.04

Note

Signals other than the above may not be displayed properly.

The above signals are reformatted for optimal viewing on your display.

Applicable input signal for PC is basically compatible to VESA standard timing.

PC signal is magnified or compressed for display, so that it may not be possible to show fine detail with sufficient clarity.

Stereo / Bilingual Sound Selection

∞/⊽

When you receive stereo / bilingual sound system, sound output modes can be selected by pressing the Stereo / Bilingual Sound Selection button.

Audio Signal	Mode Indicator
STEREO	\bigcirc
MONO	\bigtriangledown
MAIN I	
SUB II	П

Note

- If the stereo signal is poor or the receiving conditions are not optimum or if STEREO : MONO automatic switching occurs, it is recommended you switch from STEREO to MONO.
- Even when the contents of the receiving signal undergo changes, selection mode is kept intact.
- When the receiving conditions deteriorate, listening will be easier if the mode is set to the MONO position using the stereo / bilingual sound selection button.
- DUAL, also known as DUAL MONO or as BILINGUAL is not currently transmitted in some countries.

	Type of broadcast	Mode Indicator		
	Regular broadcast			
	(Standard Audio)	muicator		
	(Regular)			
2	+	T 57		
Å	NICAM MONO I			
NIC	(MAIN I)			
	NICAM STEREO	$\bigcirc \dashrightarrow \bigtriangledown$		
	NICAM DUAL MONO	I II		
	(MAIN I / SUB II)			
(1	Regular broadcast	No 😽		
nal	(Standard Audio)	Indicator 🔷 V		
еп	BILINGUAL or DUAL			
(C	MONO : MAIN I / SUB II	I 🔶 II		
A2	STEREO	$\bigcirc \frown \bigtriangledown$		

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FAQs

Before requesting service or assistance, please follow these simple guides to resolve the problem. If problem still persists, please contact your local Panasonic dealer or Panasonic Customer Care Centre for assistance.

TP I







Check the position, direction, and connection of the aerial.

The main unit is hot

The main unit radiates heat and some of the parts may become hot. This is not a problem for performance or quality. Setup in a location with good ventilation.

Do not cover the ventilation holes of the TV with a tablecloth, etc., and do not place on top of other equipment.

There may be red spots, blue spots, green spots and black spots on the screen.

This is a characteristic of liquid crystal panels and is not a problem. The liquid crystal panel is built with very high precision technology giving you fine picture details. Occasionally, a few non-active pixels may appear on the screen as fixed points of red, blue, green or black.

Please note this does not affect the performance of your LCD.

The LCD panel moves slightly when it is pushed with a finger Clattered sound might be

heard

There are some looseness around the panel to prevent the damage to the panel.

The panel might move slightly when it is pushed with a finger, and clattered sound might be heard.

This is not a malfunction.



Troubleshooting

	Symp Picture	toms	Sound	Checks		
	Snowy Picture		Noisy Sound	Aerial location, direction or connection		
Multiple Image			Normal Sound	Aerial location, direction or connections		
	D Interference		Noisy Sound	Electrical appliances Cars, motorcycles Fluorescent lights		
	Normal Picture		No Sound	Volume level Sound mute switched on.		
	? No Picture		No Sound	Is the unit in "AV mode"?, Is the mains lead plugged into the socket outlet?, Is the TV unit turned On? Check Picture menu and volume.		
	No Colour	(°)	Normal Sound	Colour Control set at minimum levels. Colour system		
	Poor or Distorted Picture		Weak or No sound	Retune Channel(s).		
Normal Picture			Weak or Distorted sound	Sound reception may have deteriorated. Sound system.		
There may be red spots, blue spots, green spots and black spots on the screen		ول	Normal Sound	This is a characteristic of liquid crystal panels and is not a problem. The liquid crystal panel is built with very high precision technology giving you fine picture details. Occasionally, a few non-active pixels may appear on the screen as fixed points of red, blue, green or black. Please note this does not affect the performance of your LCD.		
	"VIERA Link" function de	bes not	work	Switch the TV unit on again with the equipment on. Set "VIERA Link" to "Off", then set to "On" again.		
H D M I	Poor Video. (Snow noise, no picture	e, pictur	e runs, etc.)	HDMI cable is not connected securely. Turn OFF the power supply of the TV and connected equipment OFF then turn on again. Check compatibility of input signal from the connected equipment. The connected equipment must be EIA/CEA-861/861B compliant.		
	Poor Audio			Change the audio setting of the connected equipment to L.PCM Check the "HDMI1 input" setting in the Sound menu. If digital sound connected has a problem, select analogue sound (DVI) connected.		
The error message appears.				Please consult an Authorized Service Center.		

Specifications

Powe	r Source		AC SINGLE 230V 50Hz				
5	Averag	18 USE Not decided					
Power	Standb	y condition	Not decided				
	Aspect	Ratio	16:9				
CD	Visible	screen size	94.0 cm (diagonal) 819.6 mm (M) x 460.8 mm (H)				
-a	(110. 01	pixel3)	1,049,088 (1,366 (W) x 768 (H))	-		······	
Sound	Speake Audio Headpl	er Output Iones	Full range x 2 pcs, 8 Ω 20 W (10 W + 10 W), 10% THD M3 (3 E mm) look x 1				
PC sig	inals		VGA, SVGA, XGA		· · · · · · · · · · · · · · · · · · ·		
Recei	ving Sys	tems / Band	17 Systems Function	Ī	17 Systems	Function	
name			1 PAL B, G, H 2 PAL I 3 PAL D, K 4 SECAM B, G 5 SECAM D, K 6 SECAM K1 7 NTSC M		8 NTSC 4.43 / 5.5MHz 9 NTSC 4.43 / 6.0MHz 10 NTSC 4.43 / 6.5MHz 11 NTSC 3.58 / 5.5MHz 12 NTSC 3.58 / 6.0MHz 13 NTSC 3.58 / 6.5MHz 14 SECAM I	Playback from Special VCR's or DVD.	
			(NTSC 3.58 / 4.5MHZ)	٦Ľ	15 PAL 60Hz / 5.5MHz	Playback from	
					17 PAL 60Hz / 6.5MHz	Players and Special VCR's or DVD.	
(Regular TV)			VHF BAND UHF BAND CATV 2 - 12 PAL/SECAM B, K1 21 - 69 PAL G, H, I/SECAM G, K, K1 S1 - S20 (OSCAR) 0 - 12 PAL/SECAM B, K1 21 - 69 PAL G, H, I/SECAM G, K, K1 S1 - S20 (OSCAR) 1 - 12 PAL B (AUST.) 28 - 69 PAL B (AUST.) 1 - 125 (U.S.A.CATV) 1 - 9 PAL B (N.Z.) 13 - 57 PAL D, K C13 - C49 (JAPAN) 1 - 12 PAL/SECAM D 13 - 62 NTSC M (JAPAN) S21 - S41 (HYPER) 1 - 12 NTSC M (JAPAN) 14 - 69 NTSC M (U.S.A.) Z1 - Z37 (CHINA) 2 - 13 NTSC M (U.S.A.) 54 94 GUIST) S4				
Aerial	- Rear		VHF / UHF				
Opera	ting Con	ditions	Temperature : 0°C - 40°C Humidity : 20 % - 80 % RH (non-condensing)				
	AV1 Input	AUDIO L-R VIDEO	RCA PIN Type x 20.8RCA PIN Type x 11.0	5 \ 5 \	/ [rms] / [p-p] (75 Ω)		
	AV2 Input	AUDIO L-R VIDEO	RCA PIN Type x 2 0.5 V [rms] RCA PIN Type x 1 1.0 V [p-p] (75 Ω)				
minal		COMPONENT	Y 1.(Рв/Св, Рк/Ск ± () \).3	/ [p-p] (including synchroni: 35 V [p-p]	zation)	
tion Ter	AV3 Input	AUDIO L-R VIDEO S VIDEO	RCA PIN Type x 2 0.5 V [rms] RCA PIN Type x 1 1.0 V [p-p] (75 Ω) Mini DIN 4 - pin Y:1.0 V [p-p] (75 Ω) C:0.286 V [p-p] (75 Ω)				
nneci	Others	HDMI 1/2 Input	TYPE A Connectors				
Co		Audio Input for HDMI1	RCA PIN Type x 2 0.5	5 V	/ [rms]		
		PC Input	HIGH-DENSITY D-SUB 15PIN R, HE	R, G, B/0.7 V[p-p] (75 Ω) HD, VD/TTL Level 2.0 - 5.0 V[p-p] (high impedance)			
	Monitor Output	AUDIO L-R VIDEO	RCA PIN Type x 20.5RCA PIN Type x 11.0	0.5 V [rms] (High impedance) 1.0 V [p-p] (75 Ω)			
HxD)	Including TV stand		820 x 578 x 225 (mm)				
ĔŽ TV set only			820 x 539 x 107.5 (mm)				
Net We	ight		17 kg				

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Note

Design and Specifications are subject to change without notice. Weight and Dimensions shown are approximate.

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Customer's Record

The model number and serial number of this product may be found on its rear panel. You should note this serial number in the space provided 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