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220TV4LB



EN

User manual

PHILIPS

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1 Notice

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Warranty

- Risk of injury, damage to monitor or void of warranty! Never attempt to repair the monitor yourself.
- Use the monitor and accessories only as intended by the manufacturer.
- Any operation expressly prohibited in this manual, or any adjustments and assembly procedures not recommended or authorised in this manual shall void the warranty.
- Warranty coverage begins from the day you purchase your monitor. For two years thereafter, your monitor will be replaced by at least an equivalent monitor in case of defects provided by the warranty coverage.

Pixel characteristics

This monitor product has a high number of color pixels. Although it has effective pixels of 99.999% or more, black dots or bright points of light (red, green or blue) may appear constantly on the screen. This is a structural property of the display (within common industry standards) and is not a malfunction. Please refer to the Pixel Policy section in this manual for details.

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2 Important

Read and understand all instructions before you use your Monitor. If damage is caused by failure to follow instructions, the warranty does not apply.

Safety

Risk of electric shock or fire!

- Never expose the Monitor to rain or water. Never place liquid containers, such as vases, near the Monitor. If liquids are spilt on or into the Monitor, disconnect the Monitor from the power outlet immediately. Contact Philips Consumer Care to have the Monitor checked before use.
- Never place the Monitor, remote control or batteries near naked flames or other heat sources, including direct sunlight. To prevent the spread of fire, keep candles or other flames away from the Monitor, remote control and batteries at all times.



- Never insert objects into the ventilation slots or other openings on the Monitor.
- When the Monitor is swivelled ensure that no strain is exerted on the power cord. Strain on the power cord can loosen connections and cause arcing.

Risk of short circuit or fire!

- Never expose the remote control or batteries to rain, water or excessive heat.
- Avoid force coming onto power plugs. Loose power plugs can cause arcing or fire.

Risk of injury or damage to the Monitor!

- Two people are required to lift and carry a Monitor that weighs more than 25 kg or 55 lbs.

- When stand mounting the Monitor, use only the supplied stand. Secure the stand to the Monitor tightly. Place the Monitor on a flat, level surface that can support the combined weight of the Monitor and the stand.
- When wall mounting the Monitor, use only a wall mount that can support the weight of the Monitor. Secure the wall mount to a wall that can support the combined weight of the Monitor and wall mount. Philips Electronics Ltd bears no responsibility for improper wall mounting that result in accident, injury or damage.

Risk of injury to children!

Follow these precautions to prevent the Monitor from toppling over and causing injury to children:

- Never place the Monitor on a surface covered by a cloth or other material that can be pulled away.
- Ensure that no part of the Monitor hangs over the edge of the surface.
- Never place the Monitor on tall furniture (such as a bookcase) without anchoring both the furniture and Monitor to the wall or a suitable support.
- Educate children about the dangers of climbing on furniture to reach the Monitor.

Risk of swallowing batteries!

- The product/remote control may contain a coin-type battery, which can be swallowed. Keep the battery out of reach of children at all times!

Risk of overheating!

- Never install the Monitor in a confined space. Always leave a space of at least 4 inches or 10 cm around the Monitor for ventilation. Ensure curtains or other objects never cover the ventilation slots on the Monitor.

Risk of damage to the Monitor!

- Before you connect the Monitor to the power outlet, ensure that the power voltage matches the value printed on the back of the Monitor. Never connect

the Monitor to the power outlet if the voltage is different.

Risk of injury, fire or power cord damage!

- Never place the Monitor or any objects on the power cord.
- To easily disconnect the Monitor power cord from the power outlet, ensure that you have full access to the power cord at all times.
- When you disconnect the power cord, always pull the plug, never the cable.
- Disconnect the Monitor from the power outlet and antenna before lightning storms. During lightning storms, never touch any part of the Monitor, power cord or antenna cable.

Risk of hearing damage!

- Avoid using earphones or headphones at high volumes or for prolonged periods of time.

Low temperatures

- If the Monitor is transported in temperatures below 5°C or 41°F, unpack the Monitor and wait until the Monitor temperature matches room temperature before connecting the Monitor to the power outlet.

Screen care

- Avoid stationary images as much as possible. Stationary images are images that remain on-screen for extended periods of time. Examples include: on-screen menus, black bars and time displays. If you must use stationary images, reduce screen contrast and brightness to avoid screen damage.
- Unplug the Monitor before cleaning.
- Clean the Monitor and frame with a soft, damp cloth. Never use substances such as alcohol, chemicals or household cleaners on the Monitor.
- Risk of damage to the Monitor screen! Never touch, push, rub or strike the screen with any object.

- To avoid deformations and colour fading, wipe off water drops as soon as possible.

Disposal of your old product and batteries



Your product is designed and manufactured with high quality materials and components, which can be recycled and reused.

Waste Electrical and Electronic Equipment- WEEE



This marking on the product or on its packaging illustrates that, under European Directive 2002/96/EC governing used electrical and electronic appliances, this product may not be disposed of with normal household waste. You are responsible for disposal of this equipment through a designated waste electrical and electronic equipment collection. To determine the locations for dropping off such waste electrical and electronic, contact your local government office, the waste disposal organization that serves your household or the store at which you purchased the product.

Your new monitor contains materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and to minimize the amount to be disposed of.

All redundant packing material has been omitted. We have done our utmost to make the packaging easily separable into mono materials.

Please find out about the local regulations on how to dispose of your old monitor and packing from your sales representative.

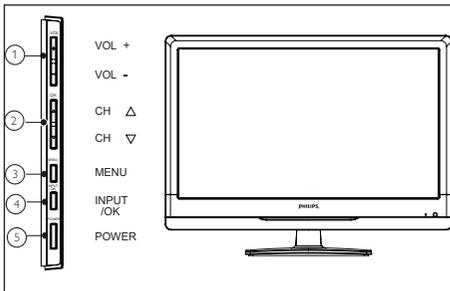
Recycling Information for Customers
Your display is manufactured with high quality materials and components which can be recycled and reused.

To learn more about our recycling program please visit www.philips.com/about/sustainability/recycling.

3 Your Monitor

Congratulations on your purchase, and welcome to Philips! To fully benefit from the support that Philips offers, register your Monitor at www.philips.com/welcome.

Monitor controls



- ① VOL +/-: Press to increase or decrease the sound volume level.
- ② CH Δ/▽: Press to select the next higher or lower program number.
- ③ MENU: Press to open or exit the OSD menu.
- ④ INPUT/OK: Press to select the input source.
- ⑤ Power: Switches the product on/standby or off. The product is not powered off completely unless it is physically unplugged.

Remote Control



- ① (Power)
 - Press to turn on and off the Monitor. The Monitor will not completely power off unless Monitor power cord is physically unplugged from the AC power supply.
- ② (TV)
 - Press to select TV source mode.
- ③ (AV/Ypbpr)
 - Press repeatedly to choose AV or Ypbpr source mode.
- ④ (HDMI/PC)
 - Press repeatedly to choose HDMI or PC source mode.
- ⑤ (USB)
 - Press to select USB source mode.
- ⑥ (0-9)
 - Press any number key among 0-9 to select desired Monitor channel.

- ⑦  (-/--)
- Toggle the channel number bits to - (1 digit) / - (2 digits) / - - (3 digits) for faster switching of channels.
- ⑧  (Back)
- Press to return back and display the previous channel or source.
- ⑨  (Source)
- Press to show the list of available input sources, Press to turn on the while the Monitor is in standby mode.
- ⑩  (VOL+/-)
- Press this key to adjust the volume.
- ⑪  (CH+/-)
- Press to scroll through the Monitor channels, also the Monitor will be turned on while the Monitor is in standby mode.
- ⑫  (Mute)
- Press this key to mute Monitor sound. Press it again or press the volume + key to cancel mute.
- ⑬  (Display)
- Press to show the information about the input source or Monitor channel.
- ⑭  (Sleep)
- Press to automatically turn off the Monitor to stand by mode after a preset period of time. Sleep timer can be set to off, 15, 30, 60, 90 & 120 minutes.
- ⑮  (Navigation buttons)
- Press to navigate through OSD menu.
- Press DOWN arrow key to enter into Sub menu from OSD Main menu.
 - TV mode: RIGHT/LEFT arrow keys function are the same as VOL+/-, and UP /DOWN arrow keys function are the same as CH+/-.
 - USB Media: Used for fast forward or rewind when music/video playback.
- ⑯  (OK)
- Press to confirm the setting/ selection of OSD menu unctions.
 - TV mode: Press OK key to Display channel list or favorite channel.
 - USB mode: Press OK key to dispaly media setting function menu while playing Video/Music/Photo/Text files.
- ⑰  (Zoom)
- Press to resize the aspect ratio of the picture or optimum viewing Available aspect ratio are: wide mode, normal mode, zoom 1, zoom 2; For computer input: normal mode and wide modes.
- ⑱  (Menu)
- Press to activate/exit OSD menu or return back to previous level of OSD.
- ⑲  (Red Green Yellow Blue)
- Hotkeys, these keys can execute the action according to the OSD info.
 - TV mode: Channel menu.
 - Red: Press to mark selected channel as Favorite.
 - Green: Press to Skip the selected channel from the list.
 - Yellow: Press to Lock the selected channel from the list.

- Blue: Press to Delete the selected channel from the list.
- USB mode:
- Photo play: Press Red/Green key to rotate image, Yellow key to display image info and Blue key to set slide time. Music/Video play: Press Red key to change repeat mode.

20  **(Freeze)**

- Press to freeze the current picture frame while the Monitor is operating in Monitor AV, Component, HDMI input source.

21  **(Picture)**

- Press repeatedly to select required pre-defined picture modes.

22  **(MTS)**

- Select mono or stereo if stereo broadcast is available. Note: Effective only when RF input is selected.

23  **(Audio)**

- Press repeatedly to select required pre-defined sound modes.

24  **(Previous)**

- USB mode: Press to play back to the previous music track/photo slide/video.

25  **(Play/Pause)**

- USB mode: Press to START/PAUSE playing photo slideshow/ music/video playback.

26  **(Stop)**

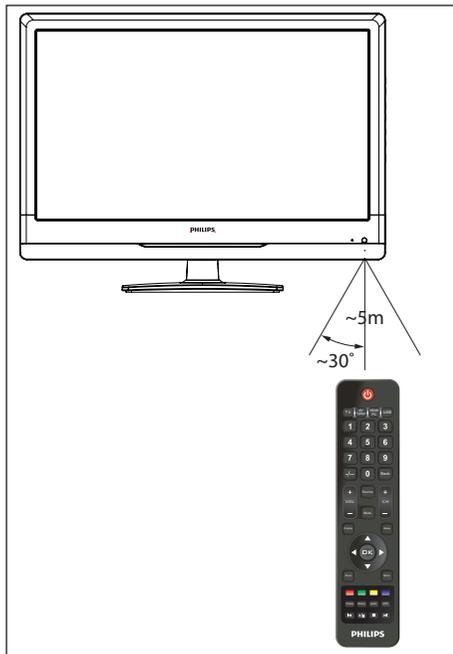
- USB mode: Press to STOP playing photo slideshow/ music playback/video play and go back to the previous menu.

27  **(Next)**

- USB mode: Press to play the next music track/photo slide/video file.

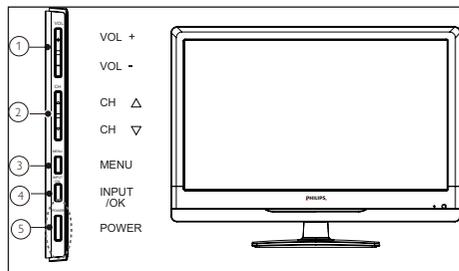
Remote control usage

When you use the remote control, hold it close to the Monitor and point it at the remote control sensor. Make sure that the line-of-sight between the remote control and Monitor is not blocked by furniture, walls or other objects.



4 Use your Monitor

This section helps you perform basic Monitor operations.



Switch your Monitor on

- Press the power switch on the Monitor.

Switch your Monitor to standby

- Press **⏻** (Standby-On) on the remote control again.
- The remote control sensor on the Monitor switches to red.

Switch your Monitor off

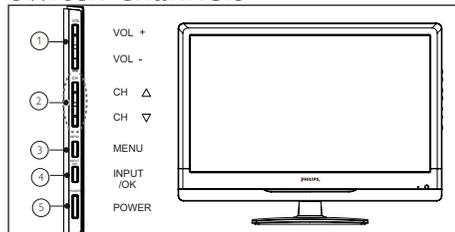
- Press the power switch on the Monitor again.

- The remote control sensor on the Monitor switches off.

Tip

- Your product consumes very little power in standby mode, but it will still consume a little power. Unplug the power plug of your Monitor from the wall socket if it is not to be used for long time.

Switch channels



- Press CH +/- on the Monitor.



- Press CH+ or CH- on the remote control.

Other ways to switch channels

- Enter a channel number using the **Numeric buttons**.
- Press **↩ (BACK)** on the remote control to return to the previous channel.

Watch connected devices

Note

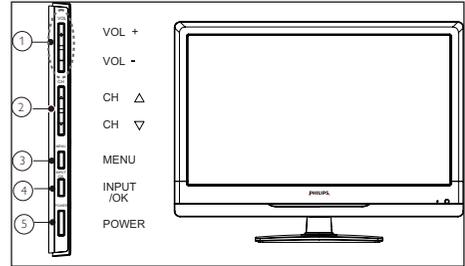
- Before you select a device as a source, switch the device on.

Select a device from the source list



- 1 Press **SOURCE**
↳ The source list appears.
- 2 Press **▲▼** to select a device.
- 3 Press **OK** to confirm your choice.
↳ The Monitor switches to the selected device.

Adjust Monitor volume



- Press **VOL+/-** on the Monitor.



- Press Vol +/- on the remote control.

To mute or unmute sound

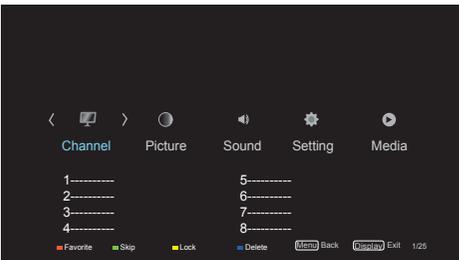
- Press mute to mute the sound.
- Press mute again to restore the sound.

5 Use more of your Monitor

Access Monitor menus

Menus help you to install channels, change picture and sound settings and access other features.

- 1 Press Menu.
↳ The menu screen appears.



Picture Setting

- 2 Select one of the following, then press OK.
 - **[Standard]**: For standard picture settings. Recommended for home entertainment.
 - **[Cinema]**: For viewing film-based content. Most suitable for viewing in a theater like environment.
 - **[Vivid]**: For Enhancing picture contrast and sharpness.
 - **[Mild]**: Optimizes video for viewing more mild.
 - **[Sport]**: Optimizes video for watching sports event.
 - **[Game]**: Optimizes video for playing game and entertainment content.

- **[Personal]**
 - **[Brightness]**: Brightens or darkens the picture.
 - **[Contrast]**: Brightens or darkens the picture.
 - **[Color]**: To add or reduce color.
 - **[Tint]**: Video tint adjustment ,Can only select with NTSC signal.
 - **[Sharpness]**: To improve details. Not available in PC mode.
 - **[Backlight]**: Control the brightness of the backlight from 0 to 100. Lower the backlight value brightness is low and Higher the backlight value higher the brightness.
 - **[Color Temp]**: Select the color temperature.

Sound Setting

- 3 Select one of the following, then press OK.
 - **[Standard]**: For standard quality sound with treble and bass at medium level.
 - **[Voice]**: Suitable for spoken dialog.
 - **[Music]**: Enhance treble and bass and optimizes sound for listening to music.
 - **[Theatre]**: Optimizes sound for watching movie content.
 - **[Personal]**
 - **[Balance]**: Adjust the balance between left and right speakers to adapt to your listening position.
 - **[300Hz]/[1KHz]/[3KHz]/[8KHz]/[15KHz]**: Adjusts the level of specific bandwidth frequencies to get customized sound quality. Increase 300Hz bandwidth frequency bar increases Bass in sound. Increase in 15KHz bandwidth frequency increases Treble in sound. Change middle frequency bandwidth (3KHz) to vary Voice content in sound.

Settings Menu

- 4 Select one of the following, then press OK.

- **[Channel Search]:** Auto Search, Update Search, Manual Search.
↳ Please refer to "Channel Search" (p12) for details.
- **[Other Adjustments]:** Password Setting ,TV Lock, Blue Screen,Sleep Time, Zoom, Noise Reduction, DCR, DCC, HDMI/DVI Switch.
↳ Please refer to "Other Adjustments" (p13) for details.
- **[Sound and OSD]:** Language, Menu Transparency, Menu Timeout, DSS Effect, AVL, Sound Mode.
↳ Please refer to "Sound and OSD" (p14) for details.
- **[PC]:** Auto Adjust, H.Position, V.Position, Phase and Clock.
↳ Please refer to "PC setup" (p14) for details.
- **[System Reset]**
↳ You can restore the factory default picture and sound settings of your Monitor.The channel settings and TV lock remains the same.

Channel Search

- 5** This setting is only available in TV mode.
- **[Auto Search]:** Monitor automatically searches for the channel in the available frequency band and stores sequentially.
- 1 Select Channel Search menu.
 - 2 Select Auto Search and press OK key or ► arrow key to tune channels automatically and store.
 - 3 During auto searching Press Menu key to stop search.
- **[Update Search]:** Updates your channel list by adding new/missed channels to the end of the list without disturbing previously stored channels. Updated Search can be done when Auto Search is interrupted

before searching all channels. It takes same time as auto search.

- **[Manual Search]:** Search for the channels manually and store it to the desired channel number. It can also be used for editing of channels searched by auto search if required. Please refer to "Manual Search description" in next page for details.
- 1 Select **Channel Search** menu.
 - 2 Select **Manual Search** and press OK key or ► arrow key to get Manual search sub-menu.
- **[Channel No.]:** Press the ◀/▶ arrow button to select desired channel number.
 - **[Channel Name]:** To Enter a name for the selected channel.Press ► arrow button and then press ▲/▼ arrow button to select a character.Press ► arrow to move the cursor to next position.Program Name can be a word of maximum 10 characters.To confirm the name press Menu button.
 - **[Fine Tune]:** Press numeric buttons on remote to manually enter the frequency if the desired channel frequency is known.If the desired channel frequency is unknown then simply press hold ► button for 3 second to enter into Manual search mode. If the desired channel is found press Menu button to store the channel found to the specified channel number else press ► button till desired channel is found.
 - **[Color System]:** Press the ◀/▶ button to select the required Color system. Available color systems are [Auto], [PAL], [NTSC] and [SECAM].India region: Auto or PAL must be selected as the color system.



Tip

- Skip this step if your system setting is correct.

- **[Sound System]:** Press the ◀/▶ button to select the required Sound system.Available sound systems are

[Auto], [M], [BG], [I] and [DK]. India region: Auto or BG must be selected as the sound system.



Tip

- Skip this step if your system setting is correct.

- **[AFC]:** Automatic Frequency Control: Reduces the tuning error of a TV tuner by automatically fine tuning the TV tuner to desired channel. By default AFC is On.

Channel Edit Menu

In these case the shortcut key like Red key, Green key, Yellow key, Blue key action as below.

- **[Red key]:** To set the channel as user's favourite channel.
- **[Green key]:** To skip the channel and you will not find this channel by press ch+/- key to change channel.
- **[Yellow key]:** To lock the channel and user will get the channel only by entering the password.
- **[Blue key]:** To delete the channel and user will get the channel only by re-searching the channel.

Other Adjustments

- **[Password Setting]:** The initial password is 0000. You can change the password to any 4-digit number of your choice. A super password 3448 is pre-defined to enter into child lock setup function in case you have forgotten the password. The super password cannot be used as a normal password. It is used for setting up user password only.



Note

- All the passwords are cleared after a valid password is entered once in power on mode.
- **[TV Lock]:** You can restrict to access of the Channel Search menu, so that initial tuned channels are not disturbed by the unauthorized users. Access to locked channels in channel edit menu will be denied only when TV lock is On. How to enable the TV lock?
 - 1 Select the TV lock ON.
 - 2 Turn off the Monitor.
 - 3 Turn ON the Monitor, now TV lock is enabled.
- **[Blue Screen]:** To select the transition type required while changing from one channel to another.
 - Select **[off]** : Blank signal will appear while changing the channel.
 - Select **[on]** : Blue screen will appear while changing the channel.
 - Select **[freeze]** : Picture get frozen while changing the channel.
- **[Sleep Time]:** Set a time period after which the Monitor will be turned off and enter stand by mode automatically. Sleep timer can be set to off, 15, 30, 60, 90 & 120 minutes.



Tip

- The Monitor switches to standby after the specified time.
- This can also be set by using the Sleep button on the remote control.
- **[Zoom]:** To resize the aspect ratio of the picture for optimum viewing. Available aspect ratio are : Wide, Normal, Zoom 1, Zoom 2. For PC mode: Normal and Wide mode. Picture size can also be accessed by Zoom button on remote control.
- **[Noise Reduction]:** To resize the aspect ratio of the picture for optimum viewing. Available aspect ratio are : Wide, Normal, Zoom 1, Zoom 2. For PC

mode: Normal and Wide mode. Picture size can also be accessed by Zoom button on remote control.

- **[DCR]:** Dynamic contrast ratio: Setup the contrast of the Monitor set to vary in accordance with the brightness and darkness of the picture.
- **[DCC]:** To strengthen the contrast ratio of Monitor picture. (Not support in PC source mode).
- **[HDMI/DVI Switch]:** Setting HDMI/DVI switch, available only in HDMI source.
- **[Color System]:** Select the required color system. Available only in AV source.

Note

- Passwords Setting, TV Lock, Blue Screen functions are available only in TV mode.
- Noise Reduction, DCR, DCC will be enable only when the Picture mode is Personal.
- Press Red key on remote control to reset Blue screen, Sleep time, Zoom, Noise Reduction, DCR, DCC, HDMI/DVI Switch, Color System functions to the default settings.

Sound and OSD

- **[Language]:** Select required Language. English will be the default OSD language.
- **[Menu Transparency]:** To set Menu Transparency(0%~100%).
- **[Menu Timeout]:** Set time duration for OSD display.
- **[Surround Effect]:** It can create the perception that there are many more sources of sound than are actually present.
- **[AVL]:** Automatically reduces sudden volume changes, for example, when switching between the channels.
- **[Sound Mode]:** Select sound mode: Mono or Stereo. It is default FM mono for India region. It can also be accessed by pressing MTS on the remote control to directly toggle the modes. Only support in Monitor source mode.

PC setting

- **[Auto Adjust]:** Press ► arrow button to adjust the screen automatically to the optimal position of the picture.
- **[H.Position]:** Adjusts the horizontal position of the picture.
- **[V.Position]:** Adjusts the vertical position of the picture.
- **[Phase]:** Eliminate the vertical interfering lines.
- **[Clock]:** Eliminate the vertical interfering lines by adjusting clock frequency.

Note

- If the PC is connected to the Monitor and no signal has been input from the PC for more than 30 seconds, the Monitor enters the standby mode automatically.
- This setting is only available in VGA source.

Media Functions (USB)

Monitor USB port can be used to view JPEG photos, play mp3 music and Video files, and read text present in USB devices.

Entering to USB Media

- Press the  Direct USB key on remote to get USB Media menu as shown above Or Press the Source key and ▲/▼/◀/▶ keys on remote and select USB source to get USB Media menu as shown above.
- Select the Media type (Photo/ Music/ Video/ Text) to be viewed and press OK key to enter into USB Media and When USB drive is detected by the Monitor, USB drive is displayed as a folder on the screen as shown below. If more than one USB is plugged to the Monitor two folders will be displayed. Select the required

drive and press OK key to view subfolder or files in the USB drive.

Note

- If USB storage device is plug-in to Monitor USB port, Media menu will pop up on Monitor screen irrespective of Input Source.
- Files of selected Media type can only be viewed through USB. Media type can be any one among Photo / Music / Video / Text.

Viewing Photos

- 1 Thumbnail of the available images will be displayed on the screen. If no images are displayed then select the folder containing the Photos.
- 2 To select a particular image and to display it in fullscreen press key and press OK key. Slide show starts automatically when image is viewed in full screen.
- 3 Press  key to play/pause slideshow. Press  to view previous or next image. Press  key to stop slideshow.

USB menu settings for Photo Slide show

Press OK key to get following Menu setup shown above.

- 1 **[Transition Effect]** : Select the slide transition as None, Top To Bottom, Bottom To Top, Left To Right, Right To Left, Random.

- 2 **[Rotate]** : Rotate the select photo by 90° clock wise direction.
- 3 **[Play Time]** : Select the duration of time a photo is to be displayed.
- 4 **[Information]** : Display the information of the file.

Playing Music files

- 1 Thumbnail of the available music files will be displayed on the screen. If no files are displayed then select the folder containing the music files.
- 2 To play particular music file select the required file and press OK key.
- 3 Press  key to play/pause music. Press  to play previous or next track. Press  key to stop Music play.

USB menu settings for Music play

Press OK key to get following Menu setup shown above.

- 1 **[Repeat Mode]** : Select the repeat mode as None, Single, Random, All.
- 2 **[Sound Mode]** : Select sound mode like Pop, Rock, Classical, Dance, Music, Personal.
- 3 **[Surround Effect]** : Turn on or off Monitor Surround effect.
- 4 **[Background Music]** : Select it to on to turn off display and to get only sound from Monitor.
- 5 **[Information]** : Display the information of the file.

Playing Video files

- 1 Thumbnail of the available video files will be displayed on the screen. If no files are displayed then select the folder containing the video files.

- 2 To play particular video file select the required file and press OK key.
- 3 Press  key to play/pause video. Press   to play previous or next video. Press  key to stop video play.

USB menu settings for Video play

Press OK key to get following Menu setup shown above.

- 1 **[Repeat Mode]** : Select the repeat mode as None, Single, All, Random.
- 2 **[Information]** : Display the information of the file.

Reading Text files

- 1 **[Next Page]** : Select the duration of time a page is to be displayed.
- 2 **[Display Mode]** : Select the text display mode as 4:3 and 16:9.
- 3 **[Font Size]** : Select the text font size.

Formats supported to multimedia mode: Photo, Music, and Video.

Picture	Format	Resolution	Type	Note
	JPEG	16128x16128	Baseline JPEG	
Audio	Format	Sample Rate	Date Rate	Channel
	MP3	8-48 KHz	8-320 Kbps	Mono/ Stereo
Video	Format	File Extension	Codec	Data Rate
	Real media	RM/RMVB	RealVideo 8/9	Max 1200Kbps
	MPEG1/2	DAT/MPG	MPEG-1/2 Video	Max 3000Kbps
	MPEG4	AVI /MP4	DIVX3/4/5/6/ XviD/H.264	Max 1500Kbps

Tip

- USB interface of digital multimedia player is not all-purpose. So when some USB devices could not be recognized, the problem is usually not the performance failure but due to device driver.
- Because USB devices and memory capability are different, the time needs for multimedia player to read information are also different. So the information reading speed of the player temporarily getting slow are not the performance failure.
- The voltage supplied to USB interface is 5V, and the most electrical current is 500mA. When some interface criteria of USB devices are different from standard USB protocol, digital multimedia player may be unable to recognize USB devices correctly, which is normal status.
- USB could be used as an interface to update software.
- If some files source could not play because of the parameter decoding-limitation, the problem is not performance failure.
- The system only applies to memory medium with FAT format.
- The system can not support dynamic Gif format.

6 Product information

Product information is subject to change without notice. For detailed product information, go to www.philips.com/support.

Supported display resolutions

Computer formats

- Resolution - refresh rate:
 - 640 × 480 - 60Hz
 - 800 × 600 - 60Hz
 - 1024 × 768 - 60Hz
 - 1360 × 768 - 60Hz
 - 720 × 400 - 70Hz
 - 1920 × 1080 - 60Hz

Video formats

- Resolution - refresh rate:
 - 480i - 60Hz
 - 480p - 60Hz
 - 576i - 50Hz
 - 576p - 50Hz
 - 720p - 50Hz, 60Hz
 - 1080i - 50Hz, 60Hz
 - 1080p - 50Hz, 60Hz.

Multimedia

- Supported storage device: USB (Only FAT or FAT 32 USB storage devices are supported)
- Supported multimedia file formats:
 - Images: JPEG
 - Audio: MP3, WMA
 - Video: MPEG 2/MPEG 4, H.264, WMV

Tuner/Reception/Transmission

- Antenna input: 75ohm coaxial (IEC75)
- Monitor system: PAL,B/G
- Video playback: NTSC, SECAM, PAL
- Tuner Bands: UHF, VHF

Remote control

- Type: RL76E-1
- Batteries: 2 × AAA (LR03 type)

Power

- Mains power: 100-240V, 50Hz-60Hz
- Standby power: ≤1W
- Ambient temperature: 5 to 40 degrees Celsius
- Power consumption
 - 220TV4LB: 50W

Supported Monitor mounts

To mount the Monitor, purchase a Philips Monitor mount or a compatible Monitor mount. To prevent damage to cables and connectors, leave a clearance of at least 2.2 inches or 5.5cm from the back of the Monitor.



Warning

- Follow all instructions provided with the Monitor mount. PE Electronics Ltd bears no responsibility for improper Monitor mounting that results in accident, injury or damage.

Monitor screen size (inches)	Required pitch (mm)	Required mounting bolts
21.5	75 × 75	4 × M6 (Suggested length 18mm)

Product specification

Design and specifications are subject to change without notice.

220TV4LB

- Without Monitor stand
- Dimension(WxHxD): 520 × 340 × 38 (mm)
- Weight: 3.62 kg
- With Monitor stand
- Dimension(WxHxD): 520 × 380 × 144 (mm)
- Weight: 3.8 kg

7 Troubleshooting

This section describes commonly encountered issues and accompanying solutions.

Picture issues

No picture:

- Check the Power Saving settings.

Cannot receive any channels:

- Make sure the power cord is connected securely. Turn on the power of the Monitor.
- Check antenna/cable connections. Make sure the Cable setting is correct for your Monitor signal source.

Monitor is locked to one channel:

- Perform Auto Program to add receivable channels that are not present in the Monitor's memory.

Cannot receive or select:

- Perform Auto Program to add receivable channels that are not present in the channels Monitor's memory.
- To receive or select cable channels, make sure that Cable in the Channel settings is set to On.
- To receive or select UHF channels over an antenna, make sure Cable is set to Off.

The Monitor turns off:

- Check if Sleep Timer is activated, or confirm the Duration setting of Timer automatically.
- Check PC Power Management in General Settings.

No picture from some video:

- Check the connection between the optional video equipment and the Monitor Sources.
- Press INPUT on the remote control.
- Select your desired input from the External Inputs list.

The quality of the images is not as good as what I saw at the store:

- Picture quality depends on the signal content. See Quick Start Guide (supplied) to display the best possible picture for that signal.

Double images or ghosts:

- Check antenna/cable connections.
- Check the antenna location and direction.

Only snow and noise appear on the screen.

- Check if the antenna is broken or bent; Check if the antenna has reached the end of its serviceable life. (3-5 years in normal use, 1-2 years at the seaside.)

Dotted lines or stripes:

- Keep the Monitor away from noise sources such as cars, motorcycles, or hair-dryers.
- If using 300 ohm twin lead, move the excess lead away from the Monitor or try using 75 ohm coaxial cable instead.

No color/Dark picture/Color is not correct/ The picture is too bright:

- Press PICTURE to select the desired Picture Mode; Adjust the Picture Mode options in the Picture settings.

Noisy picture:

- Make sure that the antenna is connected using a 75-ohm coaxial cable.
- Keep the antenna cable away from other connecting cords.
- To avoid Monitor interference, make sure to use an undamaged antenna cable.

Sound issues

Good picture, no sound:

- Check the volume control. Press MUTE or VOL + so that  disappears from the screen.
- Disconnect your headphones.
- For HDMI equipment, confirm that the audio output setting of the connected equipment is set to PCM.

- This Monitor's HDMI inputs support PCM 32, 44.1 and 48kHz.

Audio noise:

- Make sure that the antenna is connected using a 75-ohm coaxial cable.
- Keep the antenna cable away from other connecting cords.
- To avoid Monitor interference, make sure to use an undamaged antenna cable.

Computer connection issues

No Picture / No Signal:

- Confirm the PC is correctly connected to the Monitor with either the PC IN (with an HD15 cable) or with the HDMI IN.
- Ensure the output signal from the PC is one of the formats listed on page 15.
- Turn the PC off. Confirm the PC connection and restart the PC. Plug and play will auto-detect the Monitor and correctly set up PC timing.
- Verify PC Power Management is activated.

Poor Picture:

- Adjust the resolution. Adjust Pitch and Phase.

Suddenly the picture gets smaller:

- The picture gets smaller during the commercials, this is due to the method the provider broadcasts their contents. When HD content channels switch to SD definition content (commercials), the picture may be small with a black border.

Black bands appear at the edges of the screen:

- Some wide screen programs are filmed in aspect ratios that are greater than 16:9 (this is especially common with theatrical releases). Your Monitor will show these programs with black bands at the top and bottom of the screen. For more details, check the documentation that came with your DVD (or contact your program provider). Programs in 4:3 aspect ratio will have bands on left and right sides of the screen.

Certain programs on DVD or other digital sources display a loss of detail, especially during fast-motion or dark scenes:

- This is due to the digital compression of the source content used by certain digital broadcasts and DVDs which may cause your Monitor's screen to display less detail than usual, or cause artifacts (small blocks or dots, pixilation) to appear on your screen. These signal compressions are more visible and are dependent on the clarity and resolution of the Monitor.

Remote control does not operate:

- Check the polarity of the batteries or replace the batteries.
- Point the remote control at the remote control sensor located at the front of the Monitor.
- Fluorescent lamps can interfere with your remote control operation; try turning off the fluorescent lamps.
- Keep the remote control sensor area clear from obstacles.

Contact us

If you cannot resolve your problem, refer to the FAQs for this product at www.philips.com support.

If the problem remains unresolved, contact Philips Consumer Care in your country as listed in the Addendum.



Warning

- Do not attempt to repair the product yourself. This may cause severe injury, irreparable damage to your product or void your warranty.



Note

- Make a note of your Monitor model and serial number before you contact Philips. These numbers are printed on the back of the Monitor and on the packaging.



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