



Philips  
4000 series LED-LCD TV  
with Pixel Plus HD and  
DTS TruSurround

23" class/po  
HD 720p



23PFL4509



## LED Performance

### LED Brilliance with HD picture performance

Get sleek styling and crystal clear 720p HD from this LED television. With the ultimate in sharpness, detail and vivid colors, your favorite shows will look better in Philips LED brilliance.

#### See brilliant picture quality

- HD LCD display, with a 1366 x 768p resolution
- Pixel Plus HD for better details, depth and clarity

#### Easy to connect and enjoy

- 2 HDMI inputs with Easylink for HD connection
- USB for fantastic multimedia playback
- PC-input allows you to use your TV as a PC monitor

#### Greener every day

- Energy Star rated for low power consumption

#### Enlarge your viewing experience

- Enjoy rich sound and clear dialog with DTS TruSurround
- Brilliant LED images with low power consumption
- Advanced Picture Settings for ultimate calibration control
- 120 Hz PMR for the ultimate in motion sharpness

# PHILIPS

# Highlights

## LCD display, 1366 x 768p

This WXGA display with state-of-the-art LCD screen technology gives you widescreen HD resolution of 1366 x 768p pixels. It produces brilliant flicker-free progressive scan pictures with optimum brightness and superb colors. This vibrant and sharp image will provide you with an enhanced viewing experience.

## USB (multimedia)



The USB connector allows access to jpeg photos, mp3 music and video files of most USB-sticks (USB memory-class device). Plug the USB into the slot at the side of the TV and access the multimedia content using the easy on screen content browser. You can now view and share your videos, photos and music.

## Pixel Plus HD



Pixel Plus HD is a picture processing technology that enables viewers to watch content that is vivid, natural, and real. The result means superbly life-like pictures with

incredible details and depth from any HD source.

## LED with low power consumption



LED lighting technology is the most advanced available. In this TV it combines an eye-catching minimalistic design with stunning image quality, as well as being the lowest power consumption in its category. Another environmental benefit is that LED lighting technology does not contain hazardous materials. With an LED backlight you can enjoy low power consumption, high brightness, incredible contrast and sharpness and vibrant colors.

## Advanced Picture Settings



Advanced Picture Settings gives you access to more granular control over the picture performance of your TV. Discrete RGB Gain and Offset controls let you adjust the brightness and contrast of individual Red, Green and Blue pixels of your LCD TV to achieve a perfectly calibrated picture.

## 120 Hz PMR



120 Hz Perfect Motion Rate (PMR) creates extreme motion sharpness for clear and vibrant images in fast action movies. The new Philips PMR standard reduces response time of the HDTV to produce faster picture transitions and reduces motion artifacts.

## DTS TruSurround



DTS TruSurround creates an immersive, feature-rich surround sound experience from two speakers, complete with rich bass, high frequency detail and clear dialog. Extremely broad sweet spot for maximum realism and enjoyment, sculpted bass to optimize low frequency performance of small drivers and enclosures, dialog enhancement to ensure clear and intelligible vocals and definition control for maximum high-frequency realism and clarity.

# Specifications

## Picture/Display

- Aspect ratio: Widescreen
- Brightness: 250 cd/m<sup>2</sup>
- Contrast ratio (typical): 4000:1
- Response time (typical): 6.5 ms
- Viewing angle: 178° (H) / 178° (V)
- Diagonal screen size: 23 inch / 58.30 cm
- Visible screen diagonal (inch): 23 inch
- Display screen type: LED WXGA Display
- Panel resolution: 720p, 1366 x 768 pixels
- Picture enhancement: Pixel Plus HD, Digital Noise Reduction, Dynamic contrast enhancement, Scanning backlight

## Supported Display Resolution

### Computer formats

Resolution	Refresh rate
640 x 480	60Hz
720 x 480	60Hz
800 x 600	60Hz
1024 x 768	60Hz
1280 x 768	60Hz
1360 x 768	60Hz

### Video formats

Resolution	Refresh rate
480i	60Hz
480p	60Hz
720p	60Hz
1080i	60Hz

## Sound

- Equalizer: 5-bands
- Output power (RMS): 2 x 2.5W RMS
- Sound Enhancement: DTS TruSurround, Balance
- Sound System: Dolby Digital (AC-3), Stereo, SAP

## Convenience

- User convenience: Vchip and parental lock, Sleep Timer, Closed Captioning
- Ease of Installation: Autostore
- Ease of Use: Auto Volume Leveller (AVL), AutoPicture, AutoSound, Settings assistant Wizard, EasyLink, Favorite program selection
- Remote Control: TV
- Screen Format Adjustments: 4:3, Auto Format, Normal, Zoom, Movie Expand, Wide
- Multimedia: auto slideshow, USB media browser

## Multimedia Applications

- Multimedia connections: USB memory class device
- Playback Formats: MP3, JPEG Still pictures, MPEG1, MPEG2, MPEG 4 SP/ASP

## Tuner/Reception/Transmission

- Aerial Input: 75 ohm F-type
- TV system: ATSC, NTSC
- Video Playback: NTSC
- Cable: Unscrambled Digital Cable QAM
- Tuner bands: UHF, VHF

## Connectivity

- AV 1: CVBS in, YPbPr in, Shared audio L/R in
- Audio Output - Digital: Coaxial (cinch)
- Other connections: Headphone out, PC-In VGA, Shared audio mini-jack
- USB: USB(photo,music,movie)
- HDMI 1: HDMI (Audio Return Channel), Shared audio mini-jack
- HDMI 2: HDMI
- EasyLink (HDMI-CEC): One touch play, Power status, System info (menu language), Remote control pass-through, System audio control, System standby

## Power

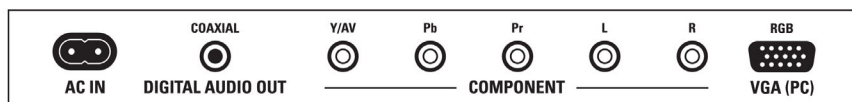
- Ambient temperature: 5°C to 40°C (41°F to 104°F)
- Mains power: 110V, 60Hz
- Power consumption: 31 W
- Standby power consumption: < 0.5W

## Dimensions

- Set dimensions in inch (W x H x D): 21.46 x 13.39 x 1.89 inch
- Set dimensions with stand in inch (W x H x D): 21.46 x 15.26 x 5.72 inch
- Weight incl. Packaging (lb): 9.26
- Product weight (lb): 6.88
- Product weight (+stand) (lb): 7.39 lb
- Box dimensions in inch (W x H x D): 24.60 x 16.46 x 4.29 inch
- VESA wall mount compatible: 75 x 75 mm

## Accessories

- Included accessories: Table top stand, Power cord, Quick start guide, User Manual, Remote Control, Batteries for remote control



Issue date 2014-10-28

Version: 4.3.5

12 NC: 8670 001 17984  
UPC: 6 09585 24394 1

© 2014 Koninklijke Philips N.V.  
All Rights reserved.

Specifications are subject to change without notice.  
Trademarks are the property of Koninklijke Philips N.V.  
or their respective owners.

[www.philips.com](http://www.philips.com)