



Philips  
LCD TV

42"  
DVB-T/C MPEG4\*

42PFL7423H



## Be part of the action.

Experience brilliant performance with a breathtaking full HD 1080p, 100Hz display. Combined with a powerful Pixel Plus 3HD engine, HD Natural Motion and exciting invisible sound, this Flat TV ensures you're always part of the action.

### Connect, install and enjoy

- 4 HDMI inputs for full digital HD connection in one cable
- EasyLink: easy control of TV and connected device via HDMI CEC

### See every detail of the action

- Pixel Plus 3 HD for most sharp and clear pictures
- Full HD LCD display, with a 1920 x 1080p resolution
- HD Natural Motion for ultra-smooth motion in Full HD movies
- 100 Hz LCD, 3 ms performance for superb motion sharpness
- 4 trillion colours processing for vivid and brilliant images
- Dynamic contrast 30000:1 for incredible rich black details

### Ready for digital

- HDTV with MPEG4 to enjoy true-to-life HD pictures
- Integrated Digital DVB-C/T Tuner for digital cable reception

### Exciting and powerful sound

- Virtual Dolby Digital for a true life audio experience

# PHILIPS

# Highlights

## Pixel Plus 3 HD

Pixel Plus 3 HD offers the unique combination of ultimate sharpness, natural detail, vivid colours and smooth natural motion on all qualities of HD, standard TV signals and multimedia content for high definition displays. Each pixel of the incoming picture is enhanced to better match the surrounding pixels, resulting in a more natural picture. Artefacts and noise in all sources from multimedia to standard TV and also in highly compressed HD are detected and reduced, ensuring that the picture is clean and razor sharp.

## Full HD LCD display 1920 x 1080p



The Full HD screen has the widescreen resolution of 1920 x 1080p. This is the highest resolution of HD sources for the best possible picture quality. It is fully future-proof as it supports 1080p signals from all sources, including the most recent sources such as Blu-ray and advanced HD game consoles. The signal processing is extensively upgraded to support this much higher signal quality and resolution. It produces brilliant flicker-free progressive scan pictures with superb brightness and colours.

## HD Natural Motion



Philips invented HD Natural Motion to minimise juddering effects that are visible with movie-based picture content. The award

winning algorithm estimates motion in the picture and corrects juddering movements in both broadcast and recorded movie material (such as DVD and Blu-ray Disc). The resulting smooth motion reproduction and excellent sharpness take the viewing experience to a higher level.

## 100 Hz LCD (3 ms)



100 Hz LCD creates extreme motion sharpness for clear and vibrant images even with fast on-screen motion. The Double Frame Rate Insertion works with a high 100 Hz refresh rate. It increases the sharpness of motion reproduction to more than twice that of conventional LCD, resulting in a performance with a response time of 3 milliseconds (measured in Perceived Blur-Edge-Width: BEW). This unique Philips technology takes motion sharpness of LCD displays to an unprecedented level.

## 4 trillion colours processing

Vibrant and natural images from the most advanced colour processing. The 3 colour channels (RGB) are optimised using 14-bit resolution, a total processing power of 4 trillion colours. It produces vibrant colours while retaining excellent sharpness. The advanced algorithms detect subtle colour shades and skin tones and process them to give the most natural colours.

## Dynamic contrast ratio 30000:1

You want the LCD flat display with the highest contrast and most vibrant images. Philips advanced video processing combined with unique extreme dimming and backlight-boosting technology results in vibrant images. Dynamic Contrast will increase the contrast with excellent black level and accurate

rendition of dark shades and colours. It gives a bright, lifelike picture with high contrast and vibrant colours.

## HDTV with MPEG4

HDTV allows you to receive high definition terrestrial broadcast content via an integrated DVB-T tuner for both MPEG-2 and MPEG-4 formats. You will get an exceptional picture and sound quality without an additional set-top box.

## Integrated DVB-C/T Tuner

The integrated Digital DVB-C/T tuner lets you receive digital cable and terrestrial TV without an additional set top box. Enjoy quality TV clutter free.

## Virtual Dolby Digital

Virtual Dolby Digital is a processing technology for enhancing surround sound effects. It will create the sensation of Dolby Pro Logic without the necessity of additional rear speakers. You become totally immersed in your television experience.

## 4 HDMI inputs

HDMI makes an uncompressed digital RGB connection from the source to the screen for the ultimate picture quality. HDMI intelligently communicates the highest output resolution with the source device. The HDMI input is fully backwards-compatible with DVI sources and includes digital audio. HDMI uses HDCP copy protection. With 3 HDMI inputs on the back and 1 HDMI on the side of the TV you can connect multiple HD sources, such as an HD set-top box, a Blu-ray player and game console or digital camcorder. Your TV is fully prepared for the HD future.

# Specifications

## Picture/Display

- Aspect ratio: Widescreen
- Diagonal screen size (inch): 42 inch
- Diagonal screen size (metric): 107 cm
- Panel resolution: 1920 x 1080p
- Brightness: 500 cd/m<sup>2</sup>
- Picture enhancement: Pixel Plus 3 HD, 3/2 - 2/2 motion pull down, 3D Combfilter, Active Control + Light sensor, Dynamic contrast enhancement, Progressive scan, 100 Hz LCD, 1080p 24/25/30 Hz processing, 1080p 50/60 Hz processing, HD Natural Motion
- Display screen type: LCD Full HD W-UXGA Act. matrix
- Dynamic screen contrast: 30.000:1
- Response time (typical): 3 (BEW equiv.) ms
- Viewing angle: 176° (H)/176° (V)
- Screen enhancement: Anti-Reflection coated screen
- Colour processing: 4 trillion colours (14-bit RGB)

## Supported Display Resolution

- Computer formats: 640 x 480, 60 Hz, 800 x 600, 60 Hz, 1024 x 768, 60 Hz, 1280 x 768, 60 Hz, 1360 x 768, 60 Hz, 1920 x 1080i, 60 Hz, 1920 x 1080p, 60 Hz
- Video formats: 480i, 60 Hz, 480p, 60 Hz, 576i, 50 Hz, 576p, 50 Hz, 720p, 50, 60 Hz, 1080i, 50, 60 Hz, 1080p, 24, 50, 60 Hz, 1080p, 24, 25, 30 Hz

## Tuner/Reception/Transmission

- Aerial Input: 75 ohm coaxial (IEC75)
- Tuner bands: Hyperband, S-Channel, UHF, VHF
- TV system: DVB COFDM 2K/8K
- Digital TV: DVB-T MPEG4\*, DVB-C MPEG4\*
- Video Playback: NTSC, SECAM, PAL

## Multimedia Applications

- Multimedia connections: USB
- Playback Formats: MP3, Slideshow files (.alb), JPEG Still pictures, MPEG1, MPEG2

## Convenience

- Child Protection: Child Lock+Parental Control
- Ease of Installation: Auto Programme Naming, Automatic Channel Install (ACI), Automatic Tuning System (ATS), Autostore, Fine Tuning, PLL Digital Tuning, Plug and Play
- Ease of Use: 4 favourite lists, Auto Volume Leveller (AVL), Delta Volume per preset, Graphical User Interface, On-Screen Display, Programme List, Settings assistant Wizard, Side Control
- Screen Format Adjustments: 4:3, Auto Format, Movie expand 14:9, Movie expand 16:9, Subtitle and Heading Shift, Super Zoom, Widescreen, unscaled (1080p dot by dot)
- Multimedia: Digital media reader (browser), USB autobreak-in
- Electronic Programme Guide: Now + Next EPG, 8-day Electronic Programme Guide
- Remote Control: TV
- Remote control type: RC4452

- Teletext: 1200-page Hypertext
- Firmware upgradeable: Firmware auto upgrade wizard, Firmware upgradeable via USB
- Picture in Picture: Text dual screen
- Teletext enhancements: Habit Watch, Programme information Line
- Smart mode: Game, Movie, Personal, Energy saving, Standard, Vivid

## Sound

- Output power (RMS): 2 x 15 W
- Sound System: Virtual Dolby Digital, BBE
- Sound Enhancement: Auto Volume Leveller, Digital Signal Processing, Dynamic Bass Enhancement, Graphic Equalizer, Smart Sound

## Loudspeakers

- Built-in speakers: 2

## Connectivity

- EasyLink (HDMI-CEC): One touch play, System audio control, System standby
- Front/Side connections: HDMI v1.3, S-video in, CVBS in, Audio L/R in, Headphones Out, USB
- Ext 1 Scart: Audio L/R, CVBS in/out, RGB
- Ext 2 Scart: Audio L/R, CVBS in/out, RGB
- Other connections: Analogue audio Left/Right out, Ethernet, PC Audio in, S/PDIF out (coaxial), Common Interface
- PC network link: DLNA 1.0 certified
- Ext 3: YPbPr, Audio L/R in, VGA PC-in
- Ext 4: HDMI v1.3
- Ext 5: HDMI v1.3
- Ext 6: HDMI v1.3

## Power

- Mains power: AC 220-240 V +/- 10%
- Ambient temperature: 5°C to 35°C
- Power consumption: 206 W
- Standby power consumption: 0.15 W
- Power (Energy-saving mode): 150 W

## Accessories

- Included accessories: Power cord, Quick start guide, User Manual, Warranty certificate, Remote Control, Batteries for remote control

## Dimensions

- Set Width: 1046 mm
- Set Height: 644 mm
- Set Depth: 88 mm
- Product weight: 21 kg
- Set height (with stand): 716 mm
- Set depth (with stand): 262 mm
- Product weight (+stand): 25.5 kg
- Box width: 1151 mm
- Box height: 793 mm
- Box depth: 333 mm
- Weight incl. Packaging: 42 kg
- Stand width: 590 mm
- Wall-mount compatible: 400 x 400 mm



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