



Philips  
Flat TV with Crystal Clear

58 cm (23")  
LCD  
HD Ready

23PF4310



## Turn up your viewing experience with Crystal Clear

Here is an LCD TV that not only enhances the décor of your home with its European styling and slim design, but also provides a great audio-visual experience with Crystal Clear and Virtual Dolby Surround.

### **Better quality images that reveal more detail**

- High-definition LCD WXGA display, 1280 x 768p
- HD Ready for the highest quality display of HD signals
- Crystal Clear improves picture depth
- Active Control optimizes picture quality whatever the source

### **Superb sound reproduction**

- Virtual Dolby Surround for a cinema-like audio experience

### **Stylish design**

- Compact design

### **Multi-purpose convenience**

- PC input lets you also use your TV as a PC monitor
- Smart Picture provides personalized image settings

### **Leading interface for digital quality audio/video**

- DVI-I provides the best picture and flexible connectivity

# PHILIPS

# Highlights

## HD Ready

Enjoy the exceptional picture quality of High Definition pictures and be fully prepared for HD sources like HDTV settop box or Blu-ray disc. HD Ready is a protected label that offers picture quality beyond that of progressive scan. It conforms to strict standards laid out by EICTA to offer a HD screen that displays the benefits of resolution and picture quality of a High Definition signal. It has a universal connection for both analog YPbPr and uncompressed Digital connection of DVI or HDMI, supporting HDCP. It can display 720p, and 1080i signals at 50 and 60Hz.

## Crystal Clear

Combining picture enhancements like Contrast plus and color improvement, Crystal Clear improves picture depth.

## Active Control

Active Control ensure that noise and sharpness improvements are continuously made at a rate of 60 times per second. By continually adjusting picture setting over 3,000 times per minute, Active Control Plus ensures that the viewing experience is optimized.

## Virtual Dolby Surround

Virtual Dolby Surround 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.

## PC input

With PC input you can connect your TV to a computer and use the TV as a PC monitor.

## Smart Picture

Smart Picture provides the optimum picture settings for color, brightness, saturation, contrast, sharpness, and so on, to enhance your overall viewing experience at all times.

## DVI-I Input

A DVI-I input connects the non-compressed high-bandwidth digital RGB signal from source to screen. By eliminating the conversion of the digital signals to analog, it delivers an unblemished and noise-free image, that is clear and flicker-free. The DVI input supports HDCP copy protection that allows viewing of copy protected programs from Digital Settop boxes, DVD players and HD recorders. DVI-I is future proof as it can be connected to all HDMI devices (a converter cable is required). The DVI-I input also supports analog PC-VGA signals.



# Specifications

## Picture/Display

- Aspect ratio: Widescreen
- Brightness: 450 cd/m<sup>2</sup>
- Contrast ratio (typical): 500:1
- Diagonal screen size: 23 inch / 58 cm
- Display screen type: LCD WXGA Active Matrix TFT
- Picture enhancement: Progressive scan, Sharpness Adjustment, Active Control, Color Temperature Adjustment, Crystal Clear
- Screen enhancement: Anti-Reflection coated screen
- Viewing angle (H / V): 170 / 170 degree
- Panel resolution: 1280 x 768p
- Response time (typical): 16 ms
- Color cabinet: Silver Frost

## Supported Display Resolution

### Computer formats

Resolution	Refresh rate
1280 x 768	60Hz
640 x 480	60, 67, 72, 75Hz
720 x 400	70Hz
800 x 600	56, 60, 72, 75Hz
1024 x 768	60, 70, 75Hz
832 x 624	75Hz

### Video Formats

Resolution	Refresh rate
1920 x 1080i	2Fh
1280 x 720p	3Fh
720 x 576p	2Fh
720 x 576i	1Fh
640 x 480p	2Fh
640 x 480i	1Fh

## Sound

- Sound Enhancement: Dynamic Bass Enhancement
- Sound System: Nicam Stereo, Virtual Dolby Surround, Mono
- Equalizer: 5-bands
- Output power (RMS): 2 x 5W

## Convenience

- Ease of Installation: Automatic Channel

- Install(ACI), Automatic Tuning System (ATS), Fine Tuning, PLL Digital Tuning, Plug & Play, Auto Program Naming, Program Name, Sorting, Autostore
- Ease of Use: Auto Volume Leveller (AVL), Program List, Smart Picture, Smart Sound, Menu Control, On Screen Display
- Remote control type: RCFE05ZAU00
- Teletext: 10 page Smart Text
- Screen Format Adjustments: 4:3, Subtitle Zoom, Super Zoom, Movie expand 14:9, Movie expand 16:9, Widescreen, Full screen
- Clock: Sleep Timer
- Picture in Picture: Twin page text
- Remote Control: TV
- VESA Mount: 100 x 100 mm

- 704 x 414 x 217 mm
- Box dimensions (W x H x D): 780 x 551 x 210 mm
- Set weight: 10.2 kg
- Weight incl. Packaging: 12.85 kg

## Accessories

- Included accessories: Table top stand, Power cord, Quick start guide, Registration card, Remote Control, User Manual
- Cables: DVI-I to YPbPr cable

## Tuner/Reception/Transmission

- Tuner bands: Hyperband, S-Channel, UHF, VHF
- TV system: PAL, PAL B/G, PAL D/K, PAL I, SECAM, SECAM B/G, SECAM D/K, SECAM L/L'
- Video Playback: NTSC, PAL, SECAM
- Aerial Input: 75 ohm coaxial (IEC75)
- Tuner Display: PLL
- Number of Preset Channels: 100

## Connectivity

- Ext 1 Scart: Audio L/R, CVBS in/out, RGB
- Other connections: Antenna IEC75, PC Audio in, DVI-I
- Front / Side connections: Audio in, Headphone Out, CVBS in, S-video in
- Number of Scarts: 1

## Power

- Power consumption: 84 W
- Standby power consumption: < 1W
- Ambient temperature: 5 °C to 40 °C
- Power supply: AC 90-240

## Dimensions

- Product weight: 10.2 kg
- Set dimensions (W x H x D): 704 x 373 x 92 mm
- Dimensions (with base) (W x H x D):

stereo system					transmission system					
2CS	NICAM	2CS	NICAM	NICAM	PAL	PAL	PAL	SECAM	SECAM	SECAM
DK	DK	B/G	I	LL'	B/G	DK	I	B/G	DK	LL'
o	o	o	o	o	o	o	o	o	o	o



Issue date 2019-06-28

Version: 7.0.8

12 NC: 8670 000 22967  
EAN: 87 10895 90440 7

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