



Philips
Flat TV with Crystal Clear
III

58 cm (23")
LCD
HDTV monitor

23PF8946A



Enhanced picture and sound

Get optimal picture quality with DCDi technology by Faroudja, Digital Comb Filter and a LCD panel with wide viewing angles. On top you also get built-in FM radio and a compact design, for the best value.

Vivid, natural and razor sharp images

- High-definition LCD WXGA display, 1280 x 768p
- Crystal Clear III for natural images with enhanced quality
- Progressive Scan component video for optimized image quality
- 3D digital filter separates colors for a razor-sharp image
- Active Control with Light Sensor optimizes picture quality

Superb sound reproduction

- Virtual Dolby Surround for a cinema-like audio experience

Multi-purpose convenience

- The FM radio tuner enhances your personal enjoyment
- HDTV Monitor for the highest quality display of HDTV signals
- VGA input so that you can also use your TV as a PC monitor
- View PC content in a second window on your TV

PHILIPS

Highlights

LCD WXGA display, 1280 x 768p

This WXGA display with state-of-the-art LCD screen technology gives you HD resolution of 1280 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.

Crystal Clear III

Crystal Clear III combines a whole range of enhancements to provide a better picture. They include a 2D Comb filter, Dynamic contrast, Blue stretch and Green enhancement so that you always get the most natural looking colors.

Progressive Scan

Progressive Scan doubles the vertical resolution of the image resulting in a noticeably sharper picture. Instead of sending a field comprising the odd lines to the screen first, followed by the field with the even lines, both fields are written at one time. A full image is created instantaneously, using the maximum resolution. At such a speed, your eye perceives a sharper picture with no line structure.

3D Digital Combfilter

The 3D digital Combfilter performs field-by-field comparisons of the television image to accurately separate the color from the black-and-white information and remove both horizontally and vertically hanging dots, as well as dot crawl. This eliminates cross-color, cross-luminance and dot-crawl distortion. Diagonal Resolution is enhanced and Motion Compensation provides for an exacting performance. This 3D digital Combfilter will give you a razor sharp picture with breathtaking clarity.

Active Control + Light Sensor

Active Control is a unique and intelligent way of optimizing picture quality by measuring and analyzing the incoming signal to automatically adjust picture quality settings. Active Control with Light Sensor uses a sensor to adjust the picture brightness depending on the room light conditions.

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.

FM-radio

A small FM radio is integrated into the headphone so you always have a music source with you.

HDTV Monitor

HDTV is the latest and best television signal available. It produces picture quality more than twice that of traditional analog broadcasts. In order to effectively maximize the HDTV signal, a television must incorporate advanced signal input connectivity

VGA input

The TV set has a VGA input which is compatible with the display output signal from your PC. This means you can use the set both as a TV and PC Monitor at your convenience.

Picture in Graphics

Picture-in-Graphics is a small window in the main picture, allowing to watch data/graphics in your main TV screen. It provides the ability to simultaneously watch data/graphics and the TV.



Specifications

Picture/Display

- Aspect ratio: Widescreen
- Brightness: 450 cd/m²
- Contrast ratio (typical): 400:1
- Diagonal screen size: 23 inch / 58 cm
- Visible diagonal screen size: 58 cm
- Display screen type: LCD WXGA Active Matrix TFT
- Picture enhancement: 3D Combfilter, 3/2 - 2/2 motion pull down, Active Control + Light sensor, Color Transient Improvement, Color Temperature Adjustment, Contrast Plus, Crystal Clear III, Jagged Line Suppression, Luminance Transient Improver, Progressive scan, Sharpness Adjustment
- Screen enhancement: Anti-Reflection coated screen
- Viewing angle (H / V): 170 / 170 degree
- Panel resolution: 1280 x 768p
- Response time (typical): 25 ms

Supported Display Resolution

- **Computer formats**

Resolution	Refresh rate
1024 x 768	60Hz
1280 x 768	60Hz
640 x 480	60, 72, 75, 85Hz
800 x 600	56, 60, 72, 75,85Hz
- **Video Formats**

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

Sound

- Sound Enhancement: Ultra Bass
- Sound System: Mono, Nicam Stereo, Virtual Dolby Surround
- Total Sound Power (RMS): 20 W

Convenience

- Ease of Installation: Auto Program Naming, Autostore, Fine Tuning, Plug & Play, Program Name, Sorting
- Ease of Use: 9-channel smart surf list, Auto Volume Leveller (AVL), FM Radio, Graphical User

- Interface, Program List, Smart Picture, Smart Sound
- Remote control type: RCAU039
- Picture in Picture: Picture in graphics
- Remote Control: DVD, TV, Universal, VCR
- Screen Format Adjustments: Full screen, Subtitle and Heading Shift, Superwide, Widescreen, Zoom 14:9, Zoom 16:9
- Clock: Wake up Clock, Sleep Timer
- VESA Mount: 100 x 100 mm
- Child Protection: Child Lock

Tuner/Reception/Transmission

- Tuner bands: FM, VHF, UHF, S-Channel, Hyperband
- TV system: NTSC
- Video Playback: NTSC
- Aerial Input: 75 ohm coaxial (IEC75)
- Tuner Display: PLL
- Number of Preset Channels: 100

Connectivity

- Number of AV connections: 3
- Other connections: PC-in VGA + Audio L/R in, Antenna IEC75, FM Antenna, Audio constant level out
- AV 1: CVI, CVBS in
- AV 2: S-Video Y/C, CVBS, Monitor out
- AV 3: YPbPr (2Fh)
- Front / Side connections: Audio in, CVBS in, Headphone Out, S-video in

Power

- Power consumption: 96 W Normal Operation W W
- Standby power consumption: < 3 W
- Ambient temperature: 5 °C to 40 °C
- Power supply: AC 90-240

Dimensions

- Product weight: 11.2 kg
- Dimensions (with base) (W x H x D): 704 x 373 x 80 mm

Accessories

- Included accessories: Power cord, Registration card, Remote Control, RF antenna cable, User Manual, Quick start guide
- AC/DC Adaptor/Charger: Multi-voltage



Issue date 2014-02-06

Version: 1.0.2

12 NC: 8670 000 20937

© 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