



Philips  
LED monitor with Digital  
TV tuner

T-line  
23" (58.4 cm)

231T1LSB



## Experience great TV viewing on your LED monitor

Experience brilliant multimedia performance with this stylish, glossy and stunning Full HD 1080p display with Digital TV tuner! Combined with HDMI and AV inputs along with powerful sound the 231T1 takes entertainment to a new height!

### Best picture quality

- LED technology ensures natural colours
- Full HD LCD display, with a 1920 x 1080p resolution
- SmartContrast 20,000,000:1 for incredible rich black details
- Smart mode selects a perfect mode for what you are watching
- Up to 5 ms response time for clear, fast-moving action

### Great convenience

- Built-in TV tuner for viewing TV programmes on your PC monitor
- Remote control for TV functions

### Experience true multimedia

- SmartSound selects a perfect mode for audio performance
- HDMI-ready for top quality, multimedia experience
- Incredible Surround for enhanced audio enjoyment

### Ready for digital

- MPEG4 HDTV reception via DVBT tuner

# PHILIPS

# Highlights

## LED technology

White LED's are solid state devices which light up to full, consistent brightness faster saving startup time. LED's are free from mercury content, which allows for eco-friendly recycling and disposal process. LED's allow for better dimming control of the LCD backlight, resulting in a super high contrast ratio. It also gives superior colour reproduction thanks to consistent brightness across the screen.

## MPEG4 HDTV

HDTV allows you to watch High Definition TV in the best picture and sound quality without an additional set-top box. With the built in DVBT tuner that can handle state-of-the-art MPEG-4 formats, you can now receive and watch High Definition TV programmes and other rich multimedia content in Digital Quality

## 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.

## HDMI Ready



An HDMI-ready device has all the required hardware to accept High-Definition Multimedia Interface (HDMI) input. An HDMI cable enables high-quality digital video and audio to be transmitted over a single cable from a PC or any number of AV sources (including set-top boxes, DVD players, A/V receivers and video cameras).

## Smart mode

The optimum picture and sound depends on various aspects like the video source, content type, surroundings of the room, type of display device etc. Smart Mode has predefined picture and sound settings conveniently pre-set by the way you use your TV. The 'Personal' setting, allows you to define the picture settings according to your preference, store it and gain easy access for future selection. All these conveniently built into your TV for optimal settings.

## SmartContrast ratio 20,000,000:1



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. SmartContrast 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.

## Incredible Surround



Incredible Surround is an audio technology from Philips that dramatically magnifies the sound field to immerse you in the audio. Using state-of-the-art electronic phase shifting, Incredible Surround mixes sounds from left and right in such a way that it expands the virtual distance between the two speakers. This wider spread greatly enhances the stereo effect and creates a more natural sound dimension. Incredible Surround allows you to experience total surround with greater depth and width of sound, without the use of additional speakers.

## 5 ms response time

Response time measures signal reaction speed in milliseconds. A faster response time is better as it eliminates visible image artefacts that could dampen your experience when viewing fast-moving images or objects. In this case, this LCD panel gives you a 5 ms response time so that you can watch your LCD TV with a clear, fast-moving action.

# Specifications

## Picture/Display

- Aspect ratio: Widescreen, 16:9
- Brightness: 250 cd/m<sup>2</sup>
- SmartContrast: 20,000,000:1
- Contrast ratio (typical): 1000:1
- Diagonal screen size: 23 inch / 58.42 cm
- Panel resolution: 1920 x 1080
- Picture enhancement: Progressive scan, TrueVision
- Response time (typical): 5 ms
- Screen enhancement: Anti-Reflection coated screen
- Viewing angle: 170° (H)/160° (V)

## Supported Display Resolution

### Computer formats

Resolution	Refresh rate
1920 x 1080	60 Hz

### Video formats

Resolution	Refresh rate
480i	60 Hz
480p	60 Hz
576i	50 Hz
576p	50 Hz
720p	50, 60 Hz
1080i	50, 60 Hz
1080p	50, 60 Hz

## Sound

- Output power (RMS): 2 x 5 W
- Sound Enhancement: Incredible Surround, Smart Sound
- Sound System: Mono, Stereo

## Convenience

- Ease of Installation: Automatic Tuning System (ATS), Plug and Play
- Ease of Use: Programme List, Side Control
- Remote control: 231T1 Remote control
- On-Screen Display languages: Bulgarian, Croatian, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Norwegian, Polish, Portuguese, Russian, Serbian, Simplified Chinese, Slovakian, Slovenian, Spanish, Swedish, Turkish
- Other convenience: VESA mount (100 x 100 mm)

- Screen Format Adjustments: Widescreen, Normal, Zoom 1, Zoom 2, Auto Format, Subtitle Zoom, Super Zoom
- Smart mode: Movie, Personal, Vivid, Standard, Eco
- SmartSound: Music, Speech, Personal
- Teletext: 1000-page Smart Text

## Tuner/Reception/Transmission

- Aerial Input: 75 ohm coaxial (IEC75)
- TV system: PAL I, PAL B/G, PAL D/K, SECAM B/G, SECAM D/K, SECAM L/L'
- Video Playback: NTSC, SECAM, PAL
- Tuner Display: PLL
- Digital TV: DVB Terrestrial\*
- Tuner bands: Hyperband, S-Channel, UHF, VHF

## Connectivity

- Signal Input: VGA (Analogue), HDMI, PC Audio in
- Ext 1: SCART in
- Ext 2: YPbPr in, Audio L/R in
- Ext 3: CVBS out, Audio L/R out
- Other connections: Common Interface, CVBS in, Audio L/R in, USB Service port, S/PDIF out (coaxial)

## Power

- On mode: 33.40 W (Typ.@monitor mode)
- Off mode: 0.18 W
- Ambient temperature: 0 °C to 40 °C
- Mains power: 100-240 V, 50/60 Hz

## Dimensions

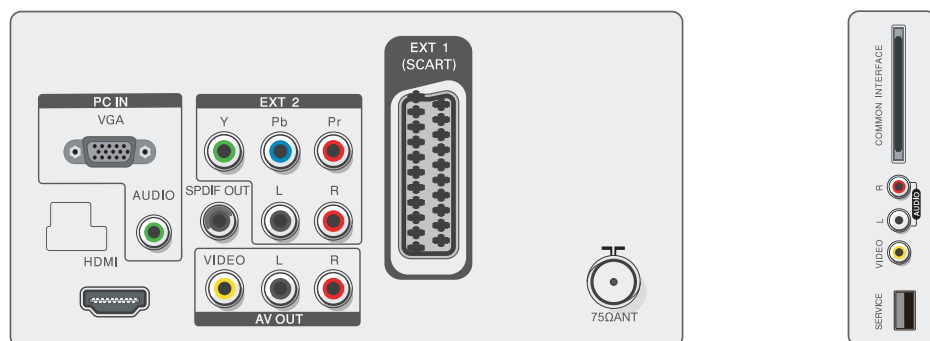
- Product with stand (mm): 399 x 560 x 176 mm
- Product without stand (mm): 364 x 560 x 65 mm
- Packaging in mm (W x H x D): 477 x 653 x 160 mm

## Weight

- Product with stand (kg): 5.53 kg
- Product without stand (kg): 5.35 kg
- Product with packaging (kg): 7.59 kg

## Accessories

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



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