



Philips  
5000 series Smart Ultra  
HDTV with NetTV and  
High Dynamic Range

50" class/po  
4K Ultra HD 2160p  
HDR  
Wireless LAN 802.11ac MIMO



50PFL5602

## Smart 4K UltraHDTV

Your favorite online content in UltraHD

Enjoy true 4K streaming performance with built-in HEVC and VP9 decoders enabling 4K streaming on Netflix, YouTube and more services in the future. With a 4K upscaling engine, even your HD videos have never looked better.

### Enjoy the beauty of 4K Ultra HD

- The beauty of 4K UltraHD TV is in savoring every detail
- Pixel Plus UltraHD for vivid, natural, and real pictures
- 120 Perfect Motion Rate for increased pixel response times
- An intelligent dimming backlight for dynamic contrast
- Enjoy HD content in 4K UHD with a 4K upscaling engine
- Expanding the possibilities of visual perception

### Authentic and clear sound experience.

- 20 Watts RMS of rich surround sound to complement 4K images
- Immersive sound with clear voice designed by sonic emotion
- Dolby Audio for the ultimate movie experience

### Complete digital TV connectivity made simple.

- Wireless LAN 802.11ac with MIMO for seamless streaming of 4K
- Wirelessly mirror the screen of smart device on your TV
- NetTV with Wireless access to online services on your TV



**PHILIPS**

# Highlights

## 4K UltraHD



4 times the resolution of Full HD brings your viewing experience to the whole new level. Enjoy every detail and the breathtaking beauty of the pictures.

## Pixel Plus Ultra HD



Experience Ultra-HD sharpness from Philips. Now you can enjoy your favorite action films and sporting events in stunning 4K Ultra HD resolution. And whether you stream online or watch a DVD, Philips' Pixel Plus Ultra-HD Engine delivers sharper images with brighter whites and blacker blacks.

## 120 Perfect Motion Rate



120 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.

## Macro dimming



Using a proprietary video processing algorithm which measures average luminance level of each video frame, Philips' Macro Dimming intelligent backlight dims the backlight to match every video frame to ensure you have a strain-free life-like viewing experience with bright whites, vivid colors and dark blacks.

## High Dynamic Range



High Dynamic Range is a technology lets you experience more detail and captivating colors for an even more engaging television experience. More perceivable shades of blacks, whites and all other colors. This boils down to greater perceived brightness and contrast with darker shadows creating a breathtaking image.

## sonic emotion



Immersive sound with clear voice designed by sonic emotion. Absolute3D sound fills your surroundings with the right ambience, clarifies voice, and details the sound stage, making your experience more immersive and enjoyable.

## Wireless LAN 802.11ac w/ MIMO

Wireless LAN 802.11ac with MIMO antennas for seamless streaming of online 4K content.

## Wireless Screencasting



Watch and surf anything and everything wirelessly from your smart phone, tablet or PC to your Philips TV. Imagine the ability to have unlimited access to every web destination like shopping, email, videos, social networking, as well as your favorite TV shows and sporting events. With Wireless Screencasting your source device screen is wirelessly projected on your TV, so sharing content and surfing the internet on your TV has truly become limitless.

## NetTV



Experience a rich selection of online services with Net TV wirelessly. Enjoy movies, pictures, infotainment and other online content directly on your TV whenever you like. Wirelessly navigate and select what you want to watch with the TV remote control. The Philips menu gives you access to popular Net TV services fitted for your TV screen.



# Specifications

## Picture/Display

- Aspect ratio: Widescreen(16:9)
- Contrast ratio (typical): 5000:1
- Response time (typical): 9.5 ms
- Viewing angle: 178° (H) / 178° (V)
- Diagonal screen size: 50 inch / 127 cm
- Visible screen diagonal (inch): 49.5 inch
- Display screen type: LED UltraHD Display
- Panel resolution: 3840x2160p
- Picture enhancement: Pixel Plus UltraHD, Black stretch, Digital Noise Reduction, MPEG artifact reduction, 120 PMR, Color Enhancement, Dynamic contrast, Gamma, Macro Dimming

## 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         |
| 1280 x 1024 | 60Hz         |
| 1360 x 768  | 60Hz         |
| 1440 x 900  | 60 Hz        |
| 1920 x 1080 | 60Hz         |
| 1680 x 1050 | 60Hz         |
| 1400 x 1050 | 60Hz         |
| 3840 x 2160 | 60Hz         |
| 4096 x 2160 | 60Hz         |

### Video formats

| Resolution | Refresh rate |
|------------|--------------|
| 480i       | 60Hz         |
| 480p       | 60Hz         |
| 720p       | 60Hz         |
| 1080i      | 60Hz         |
| 1080p      | 24,30,60Hz   |
| 2160p      | 24, 30, 60Hz |

## Sound

- Equalizer: 5-bands
- Output power (RMS): 2 x 10W
- Sound System: Sonic Emotion Premium, Stereo, SAP, Dolby Audio

## Loudspeakers

- Built-in speakers: 2

## Convenience

- Child Protection: Child Lock+Parental Control
- Clock: Sleep Timer
- Ease of Installation: Autostore
- Ease of Use: AutoPicture, AutoSound, Settings assistant Wizard, Auto Volume Leveling
- Remote Control: TV
- Screen Format Adjustments: 4:3, Movie expand 14:9, Movie expand 16:9, Super Zoom, Widescreen, unscaled (1080p dot by dot), Full, Automatic
- Multimedia: auto slideshow, USB media browser

## Multimedia Applications

- Multimedia connections: USB memory class device
- Playback Formats: MP3, JPEG Still pictures, MPEG1, MPEG2, H.264/MPEG-4 AVC, H.265/HEVC, AAC, WAVE, AC3, MPEG4

## Tuner/Reception/Transmission

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

## Connectivity

- AV 1: Shared audio L/R in, CVBS/YPbPr
- Audio Output - Digital: Optical (TOSLINK)
- Other connections: Ethernet, Headphone out, Wireless LAN 802.11ac MIMO
- USB: USB
- HDMI 1: Shared audio L/R in, HDMI
- HDMI 2: Shared audio L/R in, HDMI (Audio Return Channel)
- HDMI 3: HDMI, Shared audio L/R in
- 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: 120V/60Hz
- Power consumption: 125 W
- Standby power consumption: < 0.5W

## Dimensions

- Set dimensions in inch (W x H x D):

- 44.2 x 26.1 x 3.5 inch
- Product weight (lb): 21.6 lb
- Set dimensions with stand in inch (W x H x D): 44.2 x 27.6 x 9.0 inch
- Product weight (+stand) (lb): 22.3 lb
- Box dimensions in inch (W x H x D): 51.2 x 29.4 x 6.4 inch
- Weight incl. Packaging (lb): 29.8 lb
- VESA wall mount compatible: 300 x 200 mm

## Accessories

- Included accessories: Table top stand, Quick start guide, User Manual, Remote Control, Batteries for remote control, Screws
- Power cord: 59.05 inch

## Network Services

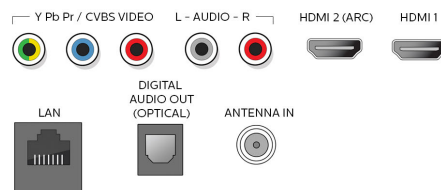
- NetTV Apps: Netflix, Pandora, Vudu, YouTube, Hotlist, Samba, Xumo, Cinema Now
- Network Features: Home Network, Wireless Screencasting

## Connections

### Side



### Rear



Issue date 2017-04-22

Version: 4.0.1

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UPC: 6 09585 25043 7

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