Philips
5000 series Smart Ultra
HDTV

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

50PFL5603

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

Complete digital TV connectivity made simple.
• HDMI 2.0 with HDCP 2.2 for 4K on all HDMI ports
• Wireless LAN 802.11ac with MIMO for seamless streaming of 4K
• NetTV with Wireless access to online services on your TV
• Wirelessly mirror the screen of smart device on your TV

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

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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.

High Dynamic Range

High Dynamic Range (HDR10) 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.

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.
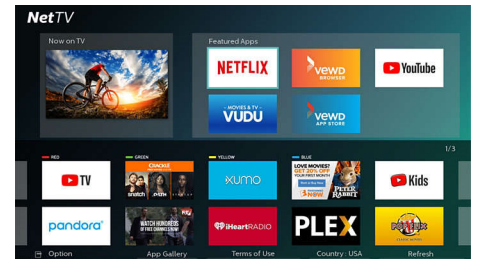
Macro dimming

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.

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.

Net TV

Philips NetTV is built for streaming. With a simple push of a button, gain instant access to popular streaming applications such as Netflix, Vudu, YouTube, all within a clutter-free, easy to use interface. Visit the App Store to download additional content from our extensive entertainment library, with entertainment options to suit everyone. Surf the web on your big screen TV, all without the need of connecting a computer. Enjoy smooth streaming of up-to 4K content with the powerful, built-in Wireless 802.11ac MIMO Dual-Band chipset.

Wireless LAN 802.11ac w/ MIMO

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

Specifications

Picture/Display
- Aspect ratio: Widescreen(16:9)
- Contrast ratio (typical): 5000:1
- Response time (typical): 9.5 ms
- Diagonal screen size (inch): 50 inch
- Diagonal screen size (metric): 127 cm
- 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
- Visible screen diagonal (inch): 49.5 inch
- Display screen type: LED UltraHD Display
- Viewing angle: 178° (H) / 178° (V)

Supported Display Resolution
- Computer formats: 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: 480i, 60Hz, 480p, 60Hz, 720p, 60Hz, 1080i, 60Hz, 1080p, 24,30,60Hz, 2160p, 24, 30, 60Hz

Sound
- Equalizer: 5-bands
- 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 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
- Ease of Installation: Autostore
- Multimedia: auto slideshow, USB media browser

Multimedia Applications
- Multimedia connections: USB Storage 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
- Other connections: Ethernet, Headphone out, Wireless LAN 802.11ac MIMO
- EasyLink (HDMI-CEC): One touch play, Power status, System info (menu language), Remote control pass-through, System audio control, System standby
- Audio Output - Digital: Optical (TOSLINK)
- AV 1: Shared audio L/R in, CVBS/YPbPr
- 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

Power
- Mains power: 120V/60Hz
- Power consumption: 125 W
- Standby power consumption: < 0.5W
- Ambient temperature: 5°C to 40°C (41°F to 104°F)

Dimensions
- Product weight (lb): 21.6 lb
- Box height (inch): 29.4 inch
- Box width (inch): 51.2 inch
- Box depth (inch): 6.4 inch
- Wall mount compatible: 300 x 200 mm
- Set Width (inch): 44.2 inch
- Set Height (inch): 25.6 inch
- Set Depth (inch): 3.7 inch
- Set width (with stand) (inch): 44.2 inch
- Set depth (with stand) (inch): 9.0 inch
- Set height (with stand) (inch): 27.6 inch

- Product weight (+stand) (lb): 22.1 lb
- Weight incl. Packaging (lb): 29.8 lb

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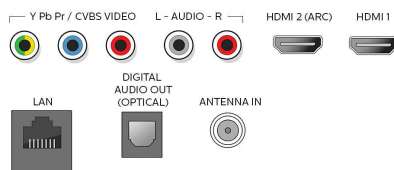- Power cord: 59.05 inch

Network Services
- NetTV Apps: Netflix, Vudu, Vewd browser, YouTube, Pandora, Vewd app store, Youtube TV, Showtime Streaming
- Network Features: Home Network, Wireless Screencasting

Connections

Side
USB 5V === 0.5A   HDMI 3   HEADPHONE

Rear
Y Pb Pr / CVBS VIDEO   L - AUDIO - R   HDMI 2 (ARC)   HDMI 1

LAN   DIGITAL AUDIO OUT (OPTICAL)   ANTENNA IN

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