Philips Essence
flat HDTV with Perfect
Pixel HD Engine

42"

LCD DVB-T/C MPEG4*

Essence

42PES0001H

Nothing but a picture on your wall

The Essence TV combines cutting-edge HD technology with an ultra-thin stylish design. The screen is connected with a single cable to the connectivity hub, preventing cable clutter around your screen.

Stylish and elegant design
- Super slim screen with minimalist design
- Single-cable connectivity hub to avoid cable clutter

Breathtaking perfect pictures
- Perfect Pixel HD Engine for unrivalled sharpness and clarity
- HD ready 1080p for highest quality display of Full HD images
- Perfect Natural Motion for ultra smooth Full HD movies
- 100Hz Clear LCD, 2ms performance for superb motion sharpness
- 2250 trillion colors processing
- Dynamic contrast 66000:1 for incredible rich black details

Easy to connect and enjoy
- Hassle free wall hanging with smart leveling bracket
- DLNA PC network link to browse PC and Home network content

Ready for digital
- MPEG4 HDTV reception via DVB-T and DVB-Cable tuner*

PHILIPS

sense and simplicity

Product highlights

Perfect Pixel HD Engine

Perfect Pixel HD Engine offers the unique combination of ultimate sharpness, natural detail, vivid colors and smooth natural motion on all qualities of HD, standard TV signals and multimedia content, for high definition displays. Each pixel of the incoming picture is enhanced to better match the surrounding pixels, resulting in a more natural picture. Artifacts and noise in all sources from multimedia to standard TV and also in highly compressed HD content are detected and reduced ensuring that the picture is clean and razor sharp.

Full HD LCD display 1920x1080p

Enjoy the exceptional picture quality of Full High Definition TV signals of HD sources like HDTV broadcast, or Blu-ray DVD. HD ready 1080p is a protected label that offers picture quality far beyond that of ordinairy HD Ready. It conforms to strict standards laid out by EICTA to offer a Full HD screen that displays the benefits of resolution and picture quality of a Full HD 1920x1080p High Definition TV signal. It has a universal connection for both analog YPbPr and uncompressed Digital connection of DVI or HDMI, supporting

HDCP. It can display 1080p progressive signals at 24, 50 and 60Hz.

100Hz Clear LCD (2ms)

100Hz Clear LCD creates extreme motion sharpness for clear and vibrant images even with fast on-screen motion. The Double Frame Rate Insertion works with a high 100Hz refresh rate. It increases the sharpness of motion reproduction to more than twice that of conventional LCD, resulting in a performance with a response time of 2 milliseconds (measured in Perceived Blur-Edge-Width; BEW). This unique Philips technology brings motion sharpness of LCD displays to an unprecedented level.

Essence smart leveling bracket

The Essence smart leveling bracket allows hassle free mounting of the screen on the wall. The Essence smart leveling bracket has a curved shape and is easy to mount on the wall. The screen can be easily hooked into the bracket via the connectors on the back of the screen. The screen can be easily leveled, even when the bracket is not mounted straight.

Essence screen

The Essence screen is a super slim screen with minimalist design and real materials. The thinness of the screen makes the picture hug onto your wall. The frame around the pictures is so small that it does only what it is intended for: framing the picture.

Single-cable connectivity hub

There is only a single cable between the connectivity hub and screen. All cable clutter can be placed out of sight and connected through the connectivity hub. The cable includes power to the screen, so no additional power input is required to the screen.

Specifications

Picture/Display
- Aspect ratio: Widescreen
- Brightness: 500 cd/m²
- Dynamic screen contrast: 66000:1
- Response time (typical): 2 (BEW equiv.) ms
- Viewing angle: 176° (H) / 176° (V)
- Diagonal screen size: 42 inch / 107 cm
- Display screen type: LCD Full HD W-UXGA Act. matrix
- Panel resolution: 1920x1080p
- Picture enhancement: Perfect Pixel HD Engine, Perfect Natural Motion, Perfect Contrast, 3/2 - 2/2 motion pull down, 3D Combfilter, 100Hz Clear LCD, Jagged Line Suppression, Progressive Scan, 1080p 24/25/30Hz processing, 1080p 50/60Hz processing
- Screen enhancement: Anti-Reflection coated screen
- Color processing: 2250 trillion colors 17bit RGB

Supported Display Resolution
- Computer formats

Resolution	Refresh rate
640 x 480	60Hz
800 x 600	60Hz
1024 x 768	60Hz
1280 x 768	60Hz
1360 x 768	60Hz
1920 x 1080i	60Hz
1920 x 1080p	60Hz

- Video formats

Resolution	Refresh rate
480i	60Hz
480p	60Hz
576i	50Hz
576p	50Hz
720p	50, 60Hz
1080i	50, 60Hz
1080p	50Hz, 60Hz
1080p	24Hz, 25Hz, 30 Hz

Sound
- Output power (RMS): 2 x 15W
- Sound Enhancement: Auto Volume Leveller, Digital Signal Processing, Dynamic Bass Enhancement, Graphic Equaliser, Smart Sound
- Sound System: Virtual Dolby Digital, BBE

Loudspeakers
- Loudspeaker types: 2 integrated subwoofers, 2x Dome tweeter, Detachable speaker bar

Convenience
- Child Protection: Child Lock+Parental Control
- Ease of Installation: Auto Program Naming, Automatic Channel Install(ACI), Automatic Tuning System (ATS), Autostore, Fine Tuning, PLL Digital Tuning, Plug & Play
- Ease of Use: 4 favorite lists, Auto Volume Leveller (AVL), Delta Volume per preset, Graphical User Interface, On Screen Display, Program List, Settings assistant Wizard, Side Control
- Electronic Program Guide: Now + Next EPG, 8 day Electronic Program Guide
- Picture in Picture: Text dual screen
- Remote Control: Universal
- Remote control type: RC4480
- Screen Format Adjustments: 4:3, Auto Format, Movie expand 14:9, Movie expand 16:9, Subtitle and Heading Shift, Super Zoom, Widescreen, unscaled (1080p dot by dot)
- Teletext: 1200 page Hypertext
- Teletext enhancements: Habit Watch, Program information Line
- Firmware upgradeable: Firmware auto upgrade wizard, Firmware upgradeable via USB
- Multimedia: Digital media reader (browser), USB autobreak-in
- Smart mode: Game, Movie, Personal, Power saver, Standard, Vivid

Multimedia Applications
- Multimedia connections: USB
- Playback Formats: MP3, Slideshow files (.alb), JPEG Still pictures, MPEG1, MPEG2

Tuner/Reception/Transmission
- Aerial Input: 75 ohm coaxial (IEC75)
- TV system: DVB COFDM 2K/8K
- Video Playback: NTSC, SECAM, PAL
- DVB: DVB Terrestrial *, DVB-T MPEG4*
- Tuner bands: Hyperband, S-Channel, UHF, VHF

Connectivity
- Ext 1 Scart: Audio L/R, CVBS in/out, RGB
- Ext 2 Scart: Audio L/R, CVBS in/out, RGB
- Ext 3: YPbPr, Audio L/R in, VGA PC-in
- Ext 4: HDMI v1.3
- Ext 5: HDMI v1.3
- EasyLink (HDMI-CEC): One touch play, System audio control, System standby
- Front / Side connections: HDMI v1.3, S-video in, CVBS in, Audio L/R in, Headphone out, USB
- PC network link: DLNA certified
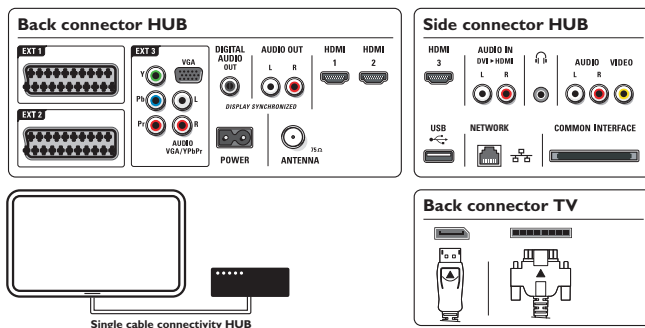- Other connections: Analog audio Left/Right out, S/PDIF out (coaxial), Common Interface

Power
- Ambient temperature: 5 °C to 35 °C
- Mains power: AC 220 - 240 V +/- 10%
- Power consumption: 236 W
- Power (Energy saving mode): 164 W
- Standby power consumption: 0.40 W

Dimensions
- Screen dimensions (W x H x D): 982 x 662.5 x 38* mm
- Screen weight: 16.5 kg
- Screen dimensions with stand (W x H x D): 982 x 685 x 240 mm
- Screen weight (with stand): 20 kg
- Hub dimensions (W x H x D): 320 x 84 x 320 mm
- Hub weight: 4.7 kg
- Diameter Essence single-cable: 14 mm
- Length Essence single-cable: 4 m
- Weight incl. Packaging: 38 kg
- Box dimensions (W x H x D): 1163 x 813 x 320 mm
- Color cabinet: Black metal decofront with black backcover
- VESA wall mount compatible: 300 x 300 mm

Accessories
- Included Accessories: Table top stand, Essence single-cable, Smart leveling wall bracket, Power cord, Quick start guide, User Manual, Warranty certificate, Remote Control, Batteries for remote control

Back connector HUB

EXT1 EXT2 EXT3 VGA DIGITAL AUDIO OUT DISPLAY SYNCHRONIZED AUDIO OUT L R HDMI 1 HDMI 2 AUDIO VGA/YPbPr POWER ANTENNA 75Ω

Single cable connectivity HUB

Side connector HUB

HDMI 3 AUDIO IN DVI+HDMI L R AUDIO L R VIDEO USB NETWORK COMMON INTERFACE

Back connector TV

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TELEVISION

11 mm

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* DVB-T, supported in selected countries only
* DVB-T MPEG4 only for: France, Spain, Denmark, Norway, Finland, Sweden. DVB-C MPEG4 only for selected providers: Denmark, Norway, Finland, Sweden Most up to date information is available on the type plate of the TV, or via www.philips.com/support under the specific type number.
* Maximum depth of the screen: 49.8 mm