PHILIPS



4K Ambilight TV

OLED

164 cm (65") Ambilight TV

4K OLED. 120 Hz

P5 AI perfect picture engine

Dolby Vision and Dolby Atmos



65OLED801

Cinematic TV feels like this

Lifelike picture. Smooth motion. Clear voices. Our most affordable OLED Ambilight TV does real so well, it feels like there's nothing between you and the action. Whatever you watch, whatever you play—Ambilight makes the thrill feel bigger.

Respond to the action. Full-room immersion

- AmbiScape -sync your smart bulbs to the action

4K OLED Ambilight TV. Where TV comes alive.

- Whatever you watch, a picture so real. P5 engine with AI
- Cinematic viewing for all you watch and play
- Detail and depth. Lifelike OLED picture
- Immersive surround sound technology
- Immerse yourself in what you love. Ambilight TV

Thoughtful design. Easy control.

- Thoughtful design. Responsible packaging
- Connect to smart home networks, voice assistants and more

Every show. Every film. Every game.

- Total Gaming Solution. Thrilling play for every gamer
- Titan OS. Find it easily.

Highlights

Ambilight TV



Ambilight TVs are the only TVs with integrated LED lights on the back that react to what you watch, immersing you in a halo of colourful light. This changes everything: your TV seems bigger, and you'll be drawn deeper into your favourite sports, films, music and games.

OLED Ambilight TV



The lifelike picture of your 4K (UHD) OLED Ambilight TV always looks incredible, even when viewed at an angle. Blacks are always black, not grey, and you'll see every detail in shadows or bright areas—you'll feel the full power of every scene. All major HDR formats are supported.

P5 AI perfect picture engine



Philips P5 processor with AI delivers a picture so real it feels like you could step right into it. A deep-learning AI algorithm processes images in a manner similar to the human brain. No matter what you're watching, you get lifelike detail and contrast, rich colour, and smooth motion.

Cinematic viewing



Hold onto the edge of your seat! With Dolby Vision on board, you'll see the picture the director wanted you to see, no more disappointing scenes that are too dark to make out! From movies to games, say hello to every glorious detail.

Surround sound technology



Compatibility with Dolby Atmos and DTS:X takes the sound of this TV to another level, in any room. The latest movies, the newest games, the biggest sports events: with sound effects placed in the space above and around you, you'll feel like you're right in the middle of the action.

Total Gaming Solution



HDMI 2.1, 120 Hz native refresh rate and an ultra-low input lag. Indie game or AAA title, this Ambilight TV gives you the specs you need to game how you want! For more control, the Game Bar 2.0 lets you customise how you play and you can connect a Bluetooth controller for cloud gaming.

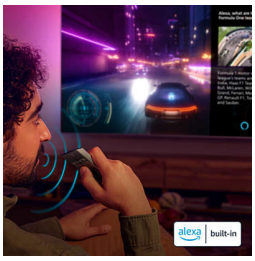
Philip TV Titan OS smart platform



It's quick and easy to find what you love with our Titan OS smart TV platform. You can continue watching a series straight from the home screen, get suggestions from the top streaming services and create watchlists. You can also reorganise the home screen, so your favourite apps and channels are right where you want them.

Highlights

Seamless control



Seamless compatibility with Matter means you can easily integrate this 4K Ambilight TV into your existing smart home network. You can also use the TV remote to control your satellite or cable box, or wake the TV's built-in Alexa—and the TV is compatible with Google smart speakers and Apple AirPlay, too.

Thoughtful design

The sleek design looks sophisticated in any room—and Ambilight creates mesmerising mood lighting when the screen is off. The slender TV remote is made from recycled plastic, our packaging uses FSC-certified recycled cardboard and the inserts are printed on recycled paper.

AmbiScape



Step into a new dimension of entertainment. AmbiScape extends Ambilight beyond the TV, syncing with your smart lights to transform your room into a living canvas. Feel every scene, every beat and every moment as your surroundings react in real time—pulling you deeper into the experience.

OLED

4K Ambilight TV

65OLED801/12

Specifications

Ambilight

Ambilight Features: Game Mode, Wall colour adaptive, Sunrise Alarm, Music Mode, Ambilight Suite
Ambilight Version: 3-sided

Picture/Display

Diagonal screen size (inch): 65 inch
Diagonal screen size (metric): 164 cm
Display: 4K Ultra HD OLED
Panel resolution: 3840 x 2160
Native refresh rate: 120 Hz
Picture engine: P5 AI Perfect Picture Engine
Picture enhancement: Auto Film & Filmmaker Mode, Calman, Calman Autocal Ready & Manual Calibration, Crystal Clear, ECO, Game, Home Cinema, MEMC / FRC Embedded, Micro Dimming Perfect, Monitor, Perfect Natural Motion

Display input resolution

Resolution-Refresh rate: 640x480-60Hz, 576p-50Hz, 720p-50Hz,60Hz, 1920 x 1080p -24/25/30/50/ 60/100/120Hz, 2560 x 1440 - 60/120Hz, 3840x2160p - 24/25/30/50/60/100/120Hz

Tuner/Reception/Transmission

Digital TV: DVB-T/T2/C/S/S2
Signal strength indication
Teletext: 1000 page Hypertext
HEVC support

Smart TV

SmartTV apps*: Disney+, HBO, Netflix*, YouTube, Amazon Prime Video, BBC iplayer, NFT app*
OS: TITAN OS
Memory size (Flash)*: 8GB

Smart TV Features

Interactive TV: HbbTV
Voice assistant*: Works with Google Home, Amazon Alexa built-in, RC with Mic.
Smart Home experience: MATTER, Home-automation system ready, please visit Control4 website, Works with Apple Home
Gaming Control Bar: Gamebar 2.0
TTS support

Multimedia Applications

Video Playback Formats: AVI, MKV, HEVC, H.264/MPEG-4 AVC, MPEG1, MPEG2, MPEG4, VP9, HEVC (H.265), AV1
Music Playback Formats: MP3, WAV, AAC, FLAC
Subtitles Formats Support: SRT, SMI, SSA, SUB, ASS, TXT
Picture Playback Formats: JPEG, GIF, PNG, BMP, HEIF

Sound

Audio: 2.0 Channel
Output power (RMS): 20 W
Speaker configuration: 2 x 10 W full-range speakers
Codec: Dolby Digital MS12 V2.6.2, Dolby Atmos, DTS:X
Sound Enhancement: All Sound Style, AVL Mode, Bass Enhancement, Dialogue, Dolby Media Intelligence, Entertainment, Equalizer, Hearing Profile, Music, Night mode, Room Calibration, Personal, Vocal Boost
Headphone Features: Dolby Atmos for Headphone
Sound Engine: IntelliSound
Main Speaker: Full Range Large Box

OLED

4K Ambilight TV

65OLED801/12

Specifications

Connectivity

Number of HDMI connections: 4
HDMI features: 4K, Audio Return Channel
EasyLink (HDMI-CEC): Remote control pass-through, System standby, System audio control, One touch play
Number of USBs: 2
Wireless connection: Wi-Fi 802.11ac, 2x2, Dual band, Bluetooth 5.2, Works with Apple AirPlay
HDCP 2.3: Yes on all HDMI
HDMI ARC: HDMI 2
HDMI 2.1 features: eARC on HDMI 2
EasyLink 2.0: External setting via TV UI, HDMI-CEC for Philips TV/SB

Supported HDMI video features

Gaming: HDMI VRR, ALLM and Auto Game, AMD FreeSync Premium, Nvidia G-Sync compatible
HDR: HDR10+ Adaptive, Dolby Vision, HLG, HGIG

EU Energy card

EPREL registration numbers: 2687067
Energy class for SDR: F
On mode power demand for SDR:
102 kWh/1000h
Energy class for HDR: F
On mode power demand for HDR:
89 kWh/1000h
Off mode power consumption: n.a
Networked standby mode: 2.0 W
Panel technology used: OLED

Power

Mains power: AC 100-240 V 50/60 Hz
Standby power consumption: less than 0.3 W
Power Saving Features: Auto switch-off timer, Eco mode, Light sensor, Picture mute (for radio)

Accessories

Included accessories: 2 x AAA Batteries, Power cord, Quick start guide, Safety & Legal Leaflet, Remote Control, Table top stand

Design

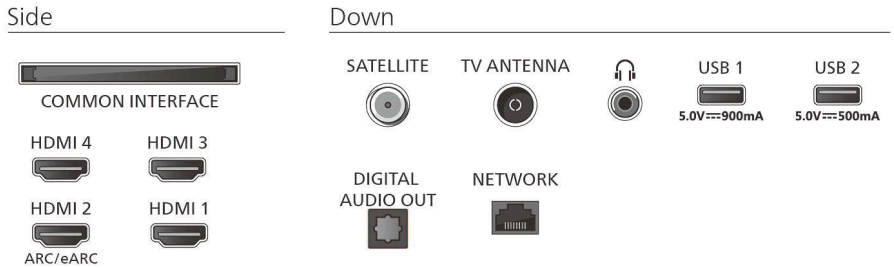
Colours of TV: Metal bezel frame
Stand design: Satin chrome stands

Dimensions

Distance between 2 stands: 793 mm
Wall-mount compatible: 300 x 300 mm
TV without stand (W x H x D):
1449 x 832 x 58 mm
TV with stand (W x H x D): 1449 x 852 x 248 mm
Package carton (W x H x D):
1660 x 995 x 170 mm
Weight of TV without stand: 23.22 kg
Weight of TV with stand: 23.515 kg
Weight incl. packaging: 29.5 kg



Connections



* This television contains lead only in certain parts or components where no technology alternatives exist in accordance with existing exemption clauses under the RoHS Directive.
* The TV supports DVB reception for 'Free to air' broadcast. Specific DVB operators may not be supported. An up-to-date list can be found in the FAQ section of the Philips support website. For some operators Conditional Access and subscription are required. Contact your operator for more information.
* Smart TV app availability varies by TV model and country. For more details, please visit: www.philips.com/smarttv
* Philips TV Remote app and related functionalities vary by TV model, operator and country, as well as smart device model and OS. For more details, please visit: www.philips.com/TVRemoteapp
* EPG and actual visibility (up to 8 days) is country- and operator-dependent.
* Netflix subscription required. Subject to terms on https://www.netflix.com
* Amazon Prime is available in selected languages and countries.
* Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates. Amazon Alexa is available in selected languages and countries.
* Over-the-top media services button on the remote control will be different in each country. Please refer to the actual product in the box.
* Scope of voice control services via the TV varies according to country and language. For the latest information, please contact our customer care.
* Google Assistant is available in different languages and countries specific to product types.
* Apple, AirPlay, Apple Home, HomeKit and iOS are trademarks of Apple Inc., registered in the U.S. and other countries and regions. IOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under licence.

© 2026 Koninklijke Philips N.V.
All Rights reserved.

Issue date 2026-07-10
Version: 3.3.1

Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips N.V. or their respective owners.

www.philips.com