

# PHILIPS



## 4K Ambilight TV

### OLED

194cm(77")AMBILIGHT tv

4K OLED. 120 Hz

P5 AI perfect picture engine

Dolby Vision and Dolby Atmos



77OLED820

## Incredible realism. Gorgeous design.

This sophisticated OLED Ambilight TV lets the beauty flow. From the minimalist design and lifelike picture to the surprisingly cinematic sound, you'll be captivated. Ambilight's immersive glow makes everything seem bigger and more...wow!

### Every show. Every movie. Every game.

- Whatever you watch, perfect TV sound. IntelliSound engine
- Entertainment you love, with a little help from Google
- Total Gaming Solution. Thrilling play for every gamer

### Seamless in every way

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

### 4K OLED Ambilight TV. Beautifully immersive.

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

OLED

4K Ambilight TV

77OLED820/12

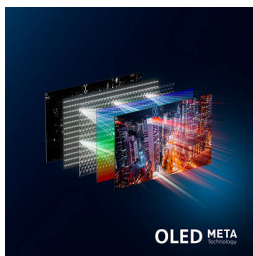
# Highlights

## Ambilight TV



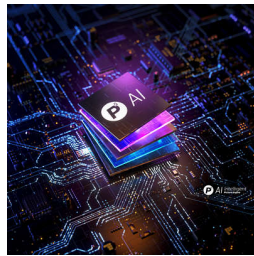
Ambilight TVs are the only TVs with integrated LED lights on the back that react to what you watch, immersing you in a halo of colorful light. It changes everything: your TV seems bigger, and you'll be drawn deeper into your favorite sports, movies, music, and games.

## Bright OLED screen



The lifelike picture of this bright OLED TV always looks superb, even if viewed at an angle. Any changes to ambient lighting in your room are automatically compensated for: whatever you're watching, blacks look black (not gray) and even the smallest details will leap from the shadows and bright areas. 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 color, 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! Movies to games, say hello to every glorious detail.

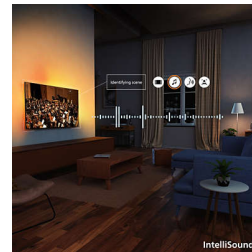
## Surround sound technology



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

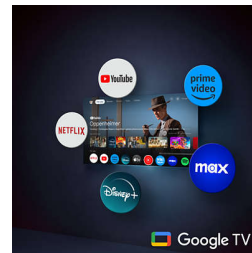
biggest sports events: with sound effects placed in the space above and around you, you'll feel like you're right in the middle of the action.

## IntelliSound



With our IntelliSound engine onboard, your Ambilight TV can use AI to give you the best possible sound! Whether it's shows and movies, music, or speech-heavy content like news, the TV will optimize settings automatically. Don't want to use AI? You can also select preset sound styles manually or customize settings yourself.

## Google TV™



What do you want to watch? Google TV brings together movies, shows, and more, from across your apps and subscriptions—and organizes them just for you. You'll get suggestions based on what you like, and you can even use the Google TV app on your phone to curate your watchlist on the go.

OLED

4K Ambilight TV

77OLED820/12

# Highlights

## 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, Game Bar 2.0 lets you customize how you play, and you

can connect a Bluetooth controller for cloud gaming. PC gamers can also enjoy 144 Hz VRR via HDMI.

## 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 Google Assistant—and the TV is compatible with Alexa-enabled devices and Apple AirPlay too.

## Thoughtful design

The sleek bezel-free screen looks sophisticated in any room—and Ambilight creates mesmerizing mood lighting when the screen's off. The slender metal TV remote recharges wirelessly and has motion-activated backlighting. Our packaging uses FSC-certified recycled cardboard, and the inserts are printed on recycled paper.

AMBILIGHT tv



Dolby Vision Atmos



# Specifications

## Ambilight

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

## Picture/Display

**Diagonal screen size (inch):** 77 inch  
**Diagonal screen size (metric):** 194 cm  
**Display:** 4K Ultra HD OLED  
**Panel resolution:** 3840x2160p  
**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, Filmmaker mode, Game, Home Cinema, MEMC / FRC Embedded, Micro Dimming Perfect, Monitor, Personal, Perfect Natural Motion  
**Variable Refresh Rate:** 144 Hz

## Display input resolution

**Resolution-Refresh rate:** 576p - 50Hz, 645 x 480 - 60Hz, 720p - 50/60Hz, 1920 x 1080p - 24/25/30/50/ 60/100/120/144Hz, 2560 x 1440 - 60/120/144Hz, 3840 x 2160p - 24/25/30/50/60/100/120/144Hz

## Tuner/Reception/Transmission

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

## Smart TV

**SmartTV apps\*:** Amazon Prime Video, Apple TV, Disney+, Netflix\*, NFT app\*, YouTube  
**OS:** Google TV™  
**Memory size (Flash)\*:** 32GB

## Smart TV Features

**Interactive TV:** HbbTV  
**Voice assistant\*:** RC with Mic., Works with Alexa, Hey Google  
**Smart Home experience:** Control4, MATTER, Works with Apple Home  
**Gaming Control Bar:** Gamebar 2.0

## 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:** 4.1 Channel  
**Output power (RMS):** Output power : 70 Watt (RMS)  
**Speaker configuration:** 10 W x 4 mid-high speaker, 30 W sub-woofer  
**Codec:** Dolby Atmos, Dolby Digital, DTS:X  
**Sound Enhancement:** A.I. EQ, AI mode, AVL Mode, Clear Dialogue, Dialogue, Dolby Media Intelligence, Dolby Atmos, Entertainment, Hearing Profile, Music, Night mode, Original, Personal, Spatial Music  
**Headphone Features:** Dolby Atmos for Headphone  
**Main Speaker:** 2-Way Mid + Tweeter  
**Woofer:** Triple Ring Balance Quad PR



# Specifications

## Connectivity

Number of HDMI connections: 4  
HDMI features: 4K, Audio Return Channel  
EasyLink (HDMI-CEC): One touch play, Remote control pass-through, System audio control, System standby  
Number of USBs: 2  
Wireless connection: Wi-Fi 802.11ax, 2x2, Dual band, Bluetooth 5.2, Works with Apple AirPlay  
HDCP 2.3: Yes on all HDMI  
HDMI ARC: Yes on HDMI2  
HDMI 2.1 features: eARC on HDMI 2, eARC/VRR/ ALLM supported, Max 48Gbps data rate  
EasyLink 2.0: External setting via TV UI, HDMI-CEC for Philips TV/SB

## Supported HDMI video features

HDMI 1/2: HDMI 2.1 full bandwidth 48Gbps, up to 4K 144Hz  
Gaming: AMD FreeSync Premium, ALLM, Dolby Vision Game, HDMI VRR, HGiG, Nvidia G-Sync compatible  
HDMI 3/4: HDMI 2.0  
HDR: Dolby Vision, HDR10, HDR10+ Adaptive, HLG

## EU Energy card

EPREL registration numbers: 2295028  
Energy class for SDR: F  
On mode power demand for SDR: 134 kWh/1000h  
Energy class for HDR: G  
On mode power demand for HDR: 141 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: 1x USB-C cable for remote control charging, Power cord, Remote Control with wireless charging, Quick start guide, Safety & Legal Leaflet, Table top stand

## Design

Colors of TV: Metal bezel frame  
Stand design: Metal satin chrome soap bar arch stand

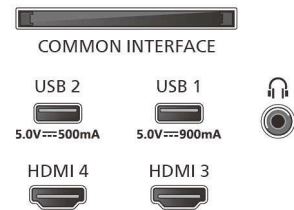
## Dimensions

Distance between 2 stands: 801 mm  
Wall mount compatible: 400 x 300 mm  
TV without stand (W x H x D): 1723 x 991 x 79 mm  
TV with stand (W x H x D): 1723 x 1059 x 316 mm  
Package carton (W x H x D): 1950 x 1170 x 200 mm  
Weight of TV without stand: 35.5 kg  
Weight of TV with stand: 36 kg  
Weight incl. packaging: 45.1 kg

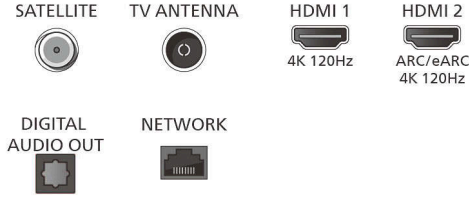


## Connections

Side



Down



\* 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.

\* Philips TV Remote app and related functionalities vary per TV model, operator and country, as well as smart device model and OS. For more details please visit: [www.philips.com/TVRemoteapp](http://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 remote control will be different per country. Please refer to the actual product in the box.

\* Google Assistant is available in different languages and countries specific to product types.

\* Availability and functionality of voice control services varies according to country and language.

\* Google TV is the name of this device's software experience and a trademark of Google LLC.

\* Google TV is the name of this device's software experience and a trademark of Google LLC. YouTube, OK Google and other marks are trademarks of Google LLC.

\* Availability of Apple TV app & Apple TV+ may vary by country or region, please check support pages of Google Play and Apple Inc.

\* 144 Hz HDMI VRR, G-sync, and FreeSync are achievable when gaming on a PC, connected to your OLED TV via HDMI

\* Matter / Control4: this feature will become available in 2025 via a software update.