

# Benutzerhandbuch

19HFL5114W/12

**PHILIPS**

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# TV-Tour

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## Profimodus

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### Anwendungsmöglichkeiten

Im Profimodus EIN haben Sie Zugriff auf eine Vielzahl von Experteneinstellungen, die eine erweiterte Steuerung des Zustands des Fernsehers ermöglichen oder zusätzliche Funktionen bieten.

Dieser Modus ist für die Installation von Fernsehern an Orten wie Hotels, Kreuzfahrtschiffen, Stadien oder anderen kommerziellen Bereichen vorgesehen, an denen eine solche Steuerung erforderlich ist.

Wenn Sie den Fernseher zu Hause verwenden, wird empfohlen, ihn im Profimodus AUS zu verwenden.

Weitere Informationen finden Sie im Professional Installationshandbuch.

# Konfigurieren

## 2.1

### Lesen der Sicherheitshinweise



Lesen Sie die Sicherheitshinweise, bevor Sie den Fernseher zum ersten Mal verwenden.

## 2.2

### Standfuß und Wandmontage

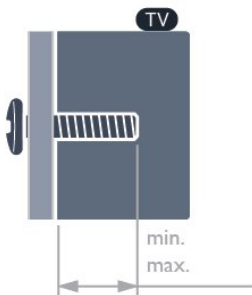
#### Standfuß

Die Montageanweisungen für den Standfuß finden Sie in der mitgelieferten Kurzanleitung. Falls diese Anleitung abhanden gekommen ist, können Sie sie unter [www.philips.com](http://www.philips.com) herunterladen.

Geben Sie zum Herunterladen des Guide die Typennummer des Fernsehers in das Suchfeld ein.

#### Wandmontage

Ihr Gerät kann mit einer VESA-kompatiblen Wandhalterung verwendet werden (separat erhältlich). Nutzen Sie den folgenden VESA-Code, um die Wandhalterung zu erwerben. . .



- 19HFL5114W
- VESA MIS-F 75x75, M4 (min.: 8 mm, max.: 10 mm)

## Vorsicht

Die Wandmontage des Fernsehers erfordert Fachkenntnisse und sollte nur von qualifiziertem Personal durchgeführt werden. Bei der Wandmontage des Fernsehers sollten die dem Gewicht des Geräts entsprechenden Sicherheitsstandards beachtet werden. Lesen Sie zudem die Sicherheitshinweise, bevor Sie den Fernseher aufstellen.

TP Vision Europe B.V. übernimmt keine Haftung für eine unsachgemäße Montage oder aus der Montage resultierende Unfälle oder Verletzungen.

## 2.3

### Tipps zum Aufstellen

- Stellen Sie den Fernseher so auf, dass kein direktes Licht auf den Bildschirm fällt.
- Der ideale Abstand zum Fernseher beträgt das Dreifache der Bildschirmdiagonale. Im Sitzen sollten Ihre Augen auf derselben Höhe sein wie die Mitte des Bildschirms.

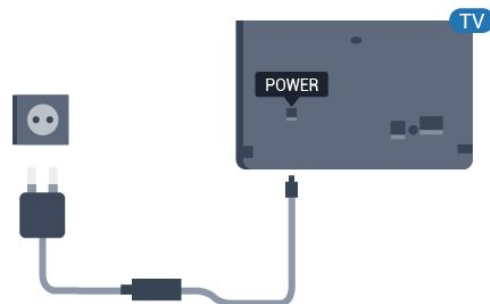
#### Hinweis:

Halten Sie den Fernseher von stauberzeugenden Quellen wie Öfen fern. Wir empfehlen, Staub regelmäßig zu entfernen, um zu vermeiden, dass dieser in den Fernseher eindringt.

## 2.4

### Netzkabel

- Schließen Sie das Netzkabel an den Anschluss **POWER** auf der Rückseite des Fernsehers an.
- Stellen Sie sicher, dass das Netzkabel fest in den Anschluss gesteckt ist.
- Achten Sie darauf, dass der Netzstecker in der Steckdose jederzeit zugänglich ist.
- Um das Stromkabel vom Netzanschluss zu trennen, ziehen Sie niemals am Kabel, sondern immer am Stecker.

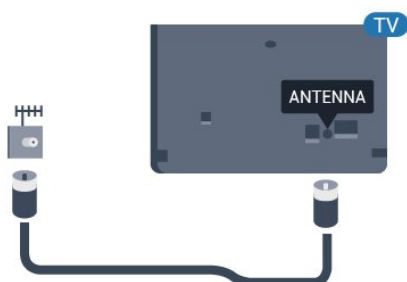


## Antennenkabel

Stecken Sie den Antennenstecker fest in die **Antennenbuchse** auf der Rückseite des Fernsehers.

Sie können Ihre eigene Antenne anschließen oder eine Verbindung zu einem Antennensignal von einem Antennenverteilersystem herstellen. Verwenden Sie ein HF-Koaxialkabel (75 Ohm) mit IEC-Stecker.

Verwenden Sie diese Antennenverbindung für DVB-T- und DVB-C-Eingangssignale.



# Armmontage

## 3.1

### Griff

Anweisungen zur Montage des Griffs finden Sie in der Schnellstartanleitung unter [www.philips.com](http://www.philips.com).

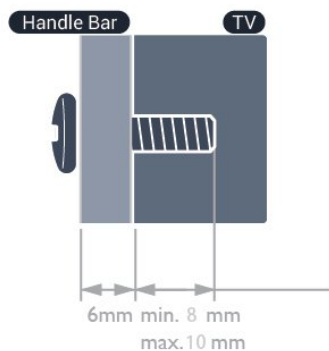
Geben Sie zum Herunterladen der Kurzanleitung die Typennummer des Fernsehers in das Suchfeld ein.

## 3.2

### Armmontage

Ihr Gerät kann mit einer VESA-kompatiblen Armhalterung verwendet werden (separat erhältlich). Nutzen Sie den folgenden VESA-Code, um die Armhalterung zu erwerben. . .

Um die Halterung sicher anzubringen, verwenden Sie eine Schraube mit der in der Abbildung dargestellten Länge.



• 19HFL5114W – VESA MIS-F 75x75, M4

Mit Griffstange installiert: (mindestens 14mm, maximal 16mm)

Installiert ohne Griffstange: (mindestens 8mm, maximal 10mm)

#### Vorsicht

Die Montage des Fernsehers an einem Arm erfordert Fachkenntnisse und sollte nur von qualifiziertem Personal durchgeführt werden. Bei der Montage des Fernsehers an einem Arm sollten die dem Gewicht des Geräts entsprechenden Sicherheitsstandards beachtet werden. Lesen Sie zudem die Sicherheitshinweise, bevor Sie den Fernseher aufstellen.

TP Vision Europe B.V. übernimmt keine Haftung für eine unsachgemäße Montage oder aus der Montage resultierende Unfälle oder Verletzungen.

#### Hinweis

Entfernen Sie vor der Montage des Fernsehers am Arm die VESA-Schrauben an der Rückseite des

Geräts.

#### Warnung

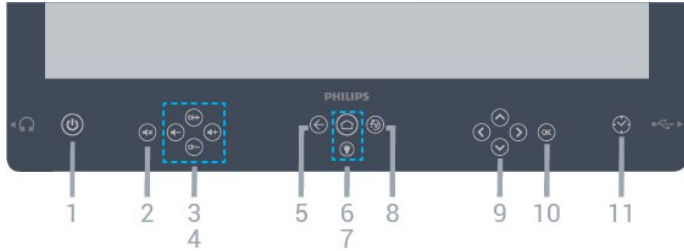
Befolgen Sie alle Anweisungen, die im Lieferumfang der TV-Halterung enthalten sind. TP Vision Europe B.V. übernimmt keine Haftung für unsachgemäße Montage oder daraus resultierende Unfälle, Schäden oder Verletzungen.

Lassen Sie etwa 5,5 cm Abstand zwischen der Rückseite des Fernsehers und der Wand, um Beschädigungen von Kabeln und Steckern zu vermeiden.

Bevor Sie den Fernseher am Arm montieren, suchen Sie die richtige Schraubenlänge. Um die Länge der Schraube zu ermitteln, addieren Sie die Stärke der Armhalterung zur Schraubenlänge.

# Tasten am Fernseher

Verwenden Sie die vordere Tastatur, um die Bildschirmbedienung zu steuern. Das Tastenfeld besteht aus den folgenden Tasten:



1. Leistung: Einschalten des Fernsehers oder Umschalten in den Standby-Modus.
2. Stummschalten: Aus-/Einschalten des Tons.
3. Sender CH+/-: Wechseln zum vorherigen oder nächsten Sender in der Senderliste.
4. Lautstärke : Einstellen der Lautstärke.
5. Zurück: Umschalten zum zuletzt ausgewählten Sender. Zurück zum vorherigen Menü.
6. Home : Öffnen des Home-Menüs.
7. Helligkeit: Zum Einstellen der Helligkeit an der Unterseite des Fernsehers.
8. Verlassen: Umschalten zur Wiedergabe des Fernsehprogramms.
9. Pfeil-/Navigationstasten: Navigieren nach oben , nach unten , nach links oder nach rechts .
10. OK: Bestätigen einer Auswahl oder Einstellung.
11. Uhr: Zeigt die aktuelle Uhrzeit an. Einstellen des Weckers.

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# Ein- und Ausschalten

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## 5.1

### Einschalten oder Standby

Vergewissern Sie sich, dass der Fernseher an die Stromversorgung angeschlossen ist. Schließen Sie das im Lieferumfang enthaltene Netzkabel an den **AC-Eingang** auf der Rückseite des Fernsehers an.




#### Einschalten

Drücken Sie  am Fernseher, um ihn einzuschalten.

#### Umschalten in den Standby-Modus

Schalten Sie den Fernseher in den Standby-Modus, während Sie ihn nicht verwenden.

Drücken Sie zum Umschalten in den Standby-Modus  am Fernseher.

Im Standby-Modus ist der Fernseher weiterhin an die Stromversorgung angeschlossen, verbraucht jedoch nur sehr wenig Energie.

Um den Fernseher vollständig auszuschalten, ziehen Sie den Netzstecker heraus.

Ziehen Sie dazu niemals am Kabel, sondern immer am Stecker. Stellen Sie sicher, dass der Zugang zum Netzstecker, Netzkabel und zur Steckdose jederzeit frei ist.

Verwenden Sie das Netzteil, das mit Ihrem Fernseher geliefert wurde.

Marke: FSP

Modell: FSP065M-DHA (Ausgang: 12 VDC, max. 5,42 A)



# Technische Daten

## 6.1

### Umweltschutz

#### Produktdatenblatt

##### 19HFL5114W

- Energieeffizienzklasse: A
- Größe des sichtbaren Bildschirms: 47 cm/19 inch
- Energieverbrauch im eingeschalteten Zustand (W): 15 W
- Jährlicher Energieverbrauch (kWh)\*: 22 kWh
- Energieverbrauch Standby (W)\*: 0,5 W
- Bildschirmauflösung (Pixel): 1366 x 768p
- Nennwerte: 12 V DC, Max. 24 W

\* Energiebedarf in kWh/Jahr, basierend auf einem Betrieb des Fernsehers von 4 Stunden pro Tag, 365 Tage im Jahr. Der tatsächliche Wert ist abhängig von der Verwendung des Fernsehers.

- EPREL-Registrierungsnummer: 341539

#### Nutzungsende

##### Entsorgung von Altgeräten und Akkus

Ihr Gerät wurde unter Verwendung hochwertiger Materialien und Komponenten entwickelt und hergestellt, die recycelt und wiederverwendet werden können.



Befindet sich dieses Symbol (durchgestrichene Abfalltonne auf Rädern) auf dem Gerät, bedeutet dies, dass für dieses Gerät die Europäische Richtlinie 2012/19/EU gilt.



Informieren Sie sich über die örtlichen Bestimmungen zur getrennten Sammlung elektrischer und elektronischer Geräte.

Beachten Sie die geltenden regionalen Bestimmungen, und entsorgen Sie Altgeräte nicht mit dem normalen Hausmüll. Die korrekte Entsorgung des nicht mehr benötigten Produkts hilft, negative Auswirkungen auf Umwelt und Gesundheit zu vermeiden.

Ihr Produkt enthält Akkus, die der Europäischen Richtlinie 2006/66/EG unterliegen. Diese dürfen nicht mit dem normalen Hausmüll entsorgt werden.



Informieren Sie sich über die getrennte Sammlung von Batterien in Ihrem Land. Die korrekte Entsorgung der Batterien hilft, negative Auswirkungen auf Umwelt und Gesundheit zu vermeiden.

## 6.2

### Betriebssystem

Android OS:

Android Pie 9

## 6.3

### Displaytyp

Bildschirmdiagonale:

- 47 cm/19 inch

Bildschirmauflösung

- 1366 x 768

## 6.4

### Bildschirmauflösung (Eingang)

Videoformate

Auflösung – Bildwiederholfrequenz

- 480i – 60 Hz
- 480p – 60 Hz
- 576i – 50 Hz
- 576p – 50 Hz
- 720p – 50 Hz, 60 Hz
- 1080i – 50 Hz, 60 Hz
- 1080p – 24 Hz, 25 Hz, 30 Hz

Computerformate

Auflösungen (u. a.)

- 640 x 480 – 60 Hz
- 800 x 600 – 60 Hz
- 1024 x 768 – 60 Hz
- 1280 x 768 – 60 Hz
- 1360 x 765 – 60 Hz
- 1360 x 768 – 60 Hz
- 1280 x 1024 – 60 Hz
- 1920 x 1080 – 60 Hz

## Anschlüsse

### TV-Rückseite

- HDMI-Eingang, ARC, Ultra HD
- Antenne (75 Ohm)
- Netzwerk-LAN: RJ45
- 8 **Ω** Ausgang für Badezimmer
- RJ-48-Datenanschluss

### Seite des Fernsehers

- USB – USB 2.0
- Kopfhörer: 3,5 mm Stereo-Miniklinkenbuchse

## Abmessungen und Gewichte

### 19HFL5114W

- Ohne TV-Standfuß:

Breite: 468,8 mm, Höhe: 326,4 mm, Tiefe: 38,9 mm,

Gewicht: ± 3,35 kg

- Mit TV-Standfuß:

Breite: 468,8 mm, Höhe: 370,2 mm, Tiefe: 44,9 mm,

Gewicht: ± 3,65 kg

## Ton

- Ausgangsleistung (RMS): 5 W (2,5 W/\*2)
- Dolby Audio
- DTS HD

# Anschließen von Geräten

## 7.1

## Anschließen von Geräten

### Verbindungsleitfaden

Verwenden Sie zum Verbinden eines Geräts mit dem Fernseher immer die hochwertigste Verbindung. Verwenden Sie außerdem qualitativ hochwertige Kabel, um eine gute Bild- und Tonübertragung sicherzustellen.

Wenn Sie ein Gerät anschließen, erkennt der Fernseher den entsprechenden Typ und ordnet dem Gerät die richtige Typenbezeichnung zu. Bei Bedarf können Sie den Typennamen ändern. Wenn eine richtige Typenbezeichnung für ein Gerät festgelegt wird, wechselt der Fernseher automatisch zu den idealen Fernsehereinstellungen, wenn Sie im Quellenmenü dieses Gerät auswählen.




### Antennenanschluss




Wenn Sie über eine Set-Top-Box (einen Digitalreceiver) oder einen Recorder verfügen, verbinden Sie die Kabel so, dass das Antennensignal zunächst durch die Set-Top-Box bzw. den Recorder läuft, bevor es zum Fernseher gelangt. Dadurch können die Antenne und die Set-Top-Box zur Aufnahme mögliche zusätzliche Kanäle an den Recorder senden.

### HDMI-Anschlüsse

#### Steuern von Geräten

Um ein über HDMI angeschlossenes Gerät zu steuern und EasyLink zu konfigurieren, wählen Sie das Gerät – oder dessen Aktivität – aus der Liste der Fernseheranschlüsse aus.

Profimodus AUS – Drücken Sie  Home, wählen Sie  Apps, und wählen Sie dann  SOURCES. Wählen Sie ein über HDMI angeschlossenes Gerät aus, und drücken Sie OK.

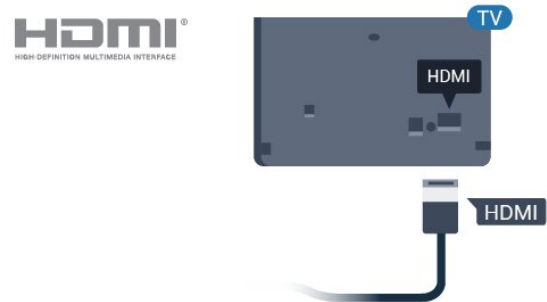
Profimodus EIN – Drücken Sie  Home, wählen Sie  TV-Sender, und wählen Sie dann  Quellen. Wählen Sie ein über HDMI

angeschlossenes Gerät aus, und drücken Sie OK.

#### HDMI-Qualität

Ein HDMI-Anschluss bietet die beste Bild- und Tonqualität. Ein einzelnes HDMI-Kabel kombiniert Video- und Audiosignale. Verwenden Sie ein HDMI-Kabel für das Fernsehsignal.

Verwenden Sie ein High Speed-HDMI-Kabel für optimale Signalqualitätsübertragung, und verwenden Sie kein HDMI-Kabel, das länger als 5 Meter ist.



#### Kopierschutz

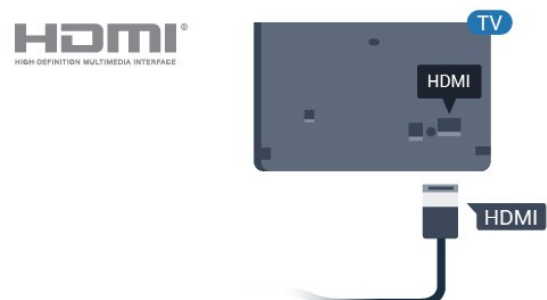
HDMI-Kabel unterstützen HDCP (High-Bandwidth Digital Content Protection). HDCP ist ein Kopierschutzsignal, das verhindert, dass Inhalte von einer DVD oder Blu-ray Disc kopiert werden. Es wird auch DRM (Digital Rights Management) genannt.

#### HDMI ARC

Alle HDMI-Anschlüsse am Fernseher verfügen über HDMI ARC (Audio Return Channel).

Wenn das Gerät, in der Regel ein Home Entertainment-System (HES), ebenfalls über einen HDMI ARC-Anschluss verfügt, schließen Sie es an einen HDMI-Anschluss an diesem Fernseher an. Durch die HDMI ARC-Verbindung benötigen Sie kein separates Audiokabel zur Übertragung des Tons an das HES. Über HDMI ARC werden sowohl Video- als auch Audiosignale übertragen.

Zum Anschluss des HES am Fernseher können Sie einen beliebigen HDMI-Anschluss verwenden, ARC steht jedoch für jeweils nur ein Gerät bzw. eine Verbindung zur Verfügung.

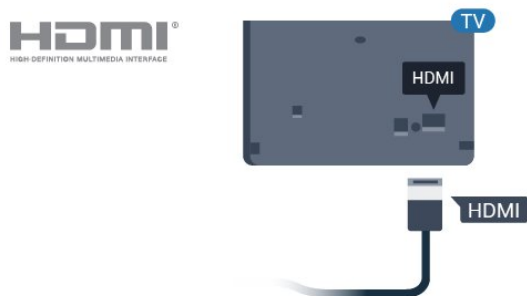


## HDMI CEC – EasyLink

Ein HDMI-Anschluss bietet die beste Bild- und Tonqualität. Ein einzelnes HDMI-Kabel kombiniert Video- und Audiosignale. Verwenden Sie ein HDMI-Kabel für Fernsehsignale im HD-Format (High Definition). Verwenden Sie ein High Speed-HDMI-Kabel für optimale Signalqualitätsübertragung, und verwenden Sie kein HDMI-Kabel, das länger als 5 Meter ist.

Verbinden Sie HDMI CEC-kompatible Geräte mit Ihrem Fernseher.

Dazu muss EasyLink HDMI CEC auf dem Fernseher und dem angeschlossenen Gerät eingeschaltet sein.



### Hinweis:

- EasyLink funktioniert unter Umständen nicht mit Geräten anderer Hersteller.
- Die HDMI-CEC-Funktionalität wird bei verschiedenen Marken unterschiedlich benannt. Einige Beispiele sind: Anynet, Aquos Link, Bravia Theatre Sync, Kuro Link, Simplink und Viera Link. Nicht alle Marken sind vollständig mit EasyLink kompatibel. Als Beispiel genannte HDMI-CEC-Marken sind Eigentum der jeweiligen Inhaber.

## EasyLink Ein/Aus

Sie können EasyLink ein- oder ausschalten. Standardmäßig sind alle EasyLink-Einstellungen des Fernsehers aktiviert.

So schalten Sie EasyLink vollständig aus:

Profimodus AUS – Drücken Sie / Home. Drücken Sie (nach unten), wählen Sie **Einstellungen** aus und drücken Sie OK.

Wählen Sie **Quellen** > **EasyLink** aus, und drücken Sie OK.

Wählen Sie **EasyLink** aus, und drücken Sie OK.

Wählen Sie **Aus**, und drücken Sie die Taste OK.

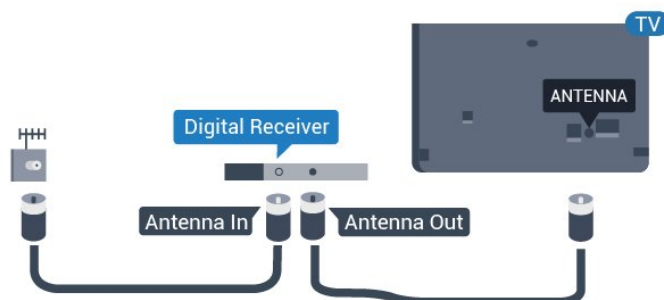
Drücken Sie gegebenenfalls mehrmals BACK, um das Menü zu beenden.

Profimodus EIN – Bitte lesen Sie im Installationshandbuch nach.

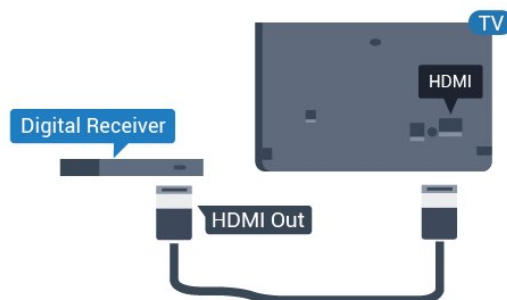
## 7.2

### Receiver – Set-Top-Box

Schließen Sie die Antenne mit zwei Antennenkabeln an die Set-Top-Box (einen Digitalreceiver) und den Fernseher an.



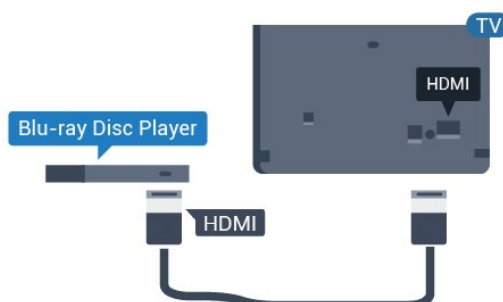
Zusätzlich zu den Antennenverbindungen benötigen Sie ein HDMI-Kabel zum Anschließen der Set-Top-Box an den Fernseher.



## 7.3

### Blu-ray Disc-Player


Verbinden Sie den Blu-ray Disc-Player über ein High Speed-HDMI-Kabel mit dem Fernseher.

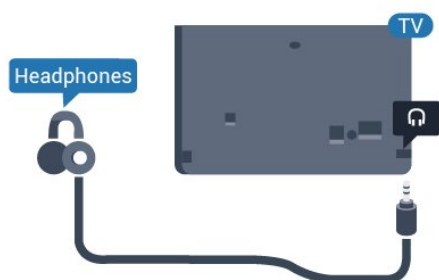


Wenn der Blu-ray Disc-Player über EasyLink HDMI-CEC verfügt.

7.4

## Kopfhörer

Sie können Kopfhörer an der Rückseite des Fernsehers am Anschluss  anschließen. Dies ist ein Anschluss für einen 3,5 mm Miniklinkenstecker. Sie können die Lautstärke der Kopfhörer getrennt einstellen.

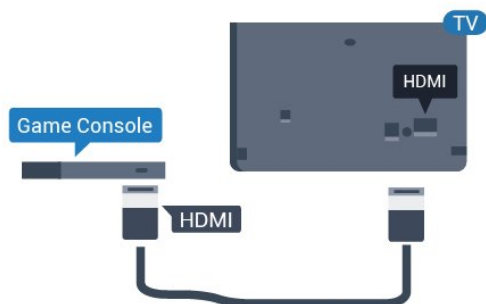


7.5

## Spielekonsole

### HDMI

Beste Qualität erzielen Sie, wenn Sie ein High Speed-HDMI-Kabel zum Anschließen der Spielkonsole an den Fernseher verwenden.



7.6





## USB-Flashlaufwerk





Sie können Fotos, Musik oder Videos von einem angeschlossenen USB-Flashlaufwerk wiedergeben.


Stecken Sie ein USB-Flashlaufwerk in einen der USB-Anschlüsse des eingeschalteten Fernsehers.



Der Fernseher erkennt das Flashlaufwerk und öffnet eine Liste mit dessen Inhalten. Wenn die Inhaltsliste nicht automatisch angezeigt wird...

Profimodus AUS – Drücken Sie  /  Home und wählen Sie  Apps und dann  Quellen aus. Wählen Sie USB aus, und drücken Sie OK.

Profimodus EIN – Drücken Sie  /  Home und wählen Sie **Fernsehsender**  und dann  SOURCES aus. Wählen Sie USB aus, und drücken Sie OK.

Um die Wiedergabe der Inhalte auf dem USB-Flashlaufwerk zu beenden, drücken Sie , oder wählen Sie eine andere Aktivität aus. Wenn Sie das USB-Flashlaufwerk vom Fernseher trennen möchten, können Sie es jederzeit herausziehen.

7.7

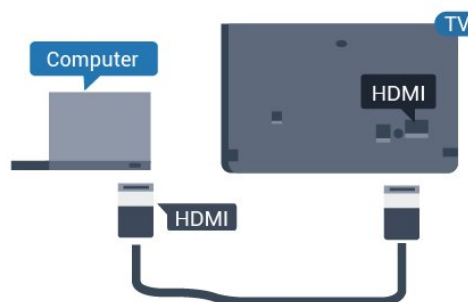
## Computer

### Verbinden

Sie können Ihren Computer an den Fernseher anschließen, und den Fernseher als Computerbildschirm verwenden.

#### Über HDMI

Verbinden Sie den Computer über ein HDMI-Kabel mit dem Fernseher.







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## Ideale Einstellung


Bei der Verbindung eines Computers sollten Sie dem Anschluss, an den der Computer angeschlossen ist, den richtigen Gerätetyp im Menü "Quelle" zuzuweisen. Wenn Sie im Menü Quelle zu **Computer** wechseln, wird der Fernseher automatisch auf die ideale Computer-Einstellung eingestellt.






So legen Sie auf dem Fernseher die ideale Einstellung fest:

Profimodus AUS – Drücken Sie  /  Home.  
Drücken Sie , wählen Sie **Einstellungen**, und drücken Sie **OK**.

Wählen Sie **Bild** aus, und drücken Sie , um das Menü zu öffnen. Wählen Sie **Bildeinstellung** > **Computer**, und drücken Sie **OK**.

Wählen Sie **Ein** oder **Aus**, und drücken Sie **OK**.

Drücken Sie gegebenenfalls mehrmals , um das Menü zu schließen.

Profimodus EIN – Drücken Sie  /  Home >  Mehr >   
**Einstellungen** >  **Bild**. Drücken Sie **OK**.

Wählen Sie **Bildeinstellung** > **Computer**, und drücken Sie **OK**.

Wählen Sie **Ein** oder **Aus**, und drücken Sie **OK**.

Drücken Sie gegebenenfalls mehrmals , um das Menü zu schließen.

(Informationen zum Profimodus finden Sie in der Installationsanleitung)

# Videos, Fotos und Musik

## Über eine USB-Verbindung

Sie können Ihre Fotos, Musik oder Videos von einem angeschlossenen USB-Flashlaufwerk oder eine USB-Festplatte wiedergeben.

Schließen Sie bei eingeschaltetem Fernseher ein USB-Flashlaufwerk oder eine USB-Festplatte an einen der USB-Anschlüsse an. Das Gerät wird vom Fernseher erkannt, und eine Liste Ihrer Mediendateien wird angezeigt.

Wenn die Liste der Dateien nicht automatisch angezeigt wird:

- 1 - Drücken Sie Home, und wählen Sie **TV-Sender** .
- 2 - Wählen Sie **USB**, und drücken Sie **OK**.
- 3 - Sie können Ihre Dateien in der Ordnerstruktur auf dem Laufwerk durchsuchen.
- 4 - Zum Stoppen der Wiedergabe von Videos, Fotos und Musik drücken Sie .

## Wiedergeben Ihrer Videos

### Wiedergeben von Videos

Öffnen eines Videoordners

- 1 - Drücken Sie / Home und wählen Sie **Fernsehsender** aus.
- 2 - Wählen Sie **USB** und **Videos**, und drücken Sie **OK**.

Um zurück zum Ordner zu wechseln, drücken Sie .

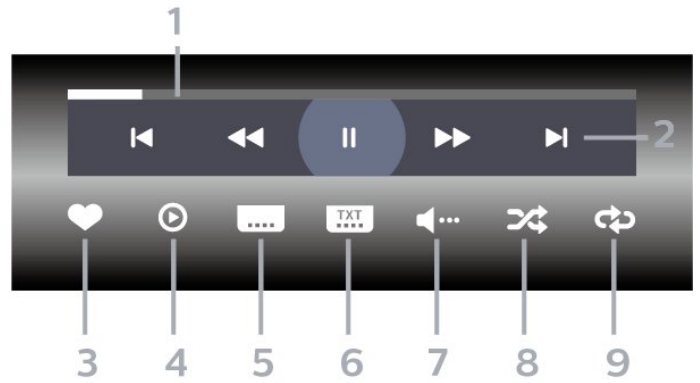
Wiedergeben eines Videos

- 1 - Drücken Sie / Home und wählen Sie **Fernsehsender** aus.
- 2 - Wählen Sie **USB** und **Videos**, und drücken Sie **OK**.
- 3 - Wählen Sie eines der Videos aus.

Um das Video zu unterbrechen, drücken Sie **OK**. Drücken Sie **OK** erneut, um die Wiedergabe fortzusetzen.

### Steuerleiste

Um die Steuerleiste ein- oder auszublenden, wenn ein Video abgespielt wird, drücken Sie **OK**.



- 1 - Fortschrittsanzeige
- 2 - Steuerleiste für die Wiedergabe
  - : Zum vorherigen Video in einem Ordner springen
  - : Zum nächsten Video in einem Ordner springen
  - : Rücklauf
  - : Schnellvorlauf
  - : Pausieren der Wiedergabe

- 3 - Als Favorit markieren
- 4 - Wiedergeben aller Videos
- 5 - Untertitel: Ein- oder Ausschalten der Untertitel und Aus- oder Einschalten der Untertitel bei einer Tonunterbrechung
- 6 - Untertitelsprache: Wählen Sie eine Untertitelsprache aus (nicht verfügbar für den Profimodus EIN).
- 7 - Audiosprache: Auswählen einer Audiosprache
- 8 - Zufallswiedergabe: Wiedergeben Ihrer Dateien in zufälliger Reihenfolge
- 9 - Wiederholen: Einmaliges oder wiederholtes Wiedergeben aller Videos in diesem Ordner

## Anzeigen Ihrer Fotos

### Anzeigen von Fotos

Öffnen eines Fotoordners

- 1 - Drücken Sie / Home und wählen Sie **Fernsehsender** aus.
- 2 - Wählen Sie **USB**, und **Fotos** und drücken Sie **OK**.

### Anzeigen von Fotos

- 1 - Drücken Sie / Home und wählen Sie **Fernsehsender** aus.
- 2 - Wählen Sie **USB**, und **Fotos** und drücken Sie **OK**.
- 3 - Wählen Sie **Fotos** und wählen Sie eines der Fotos aus.

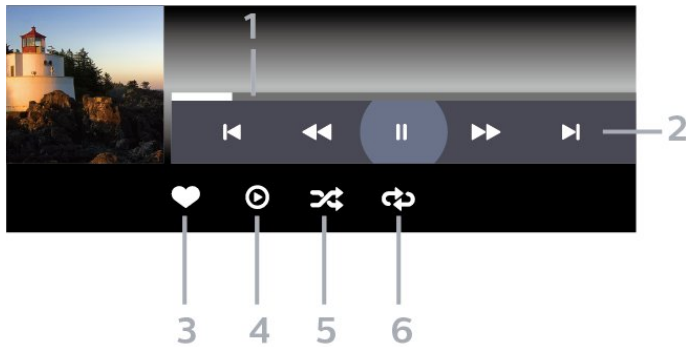
### Steuerleiste





3 – Über die Klassifizierung können Sie Musiktitel ganz einfach finden: Genres, Künstler, Alben, Tracks.

### Steuerleiste



1 – Fortschrittsanzeige

2 – Steuerleiste für die Wiedergabe

– ◀◀: Zum vorherigen Musiktitel in einem Ordner springen

– ▶▶: Zum nächsten Musiktitel in einem Ordner springen

◀◀: Rücklauf

▶▶: Schnellvorlauf

||: Pausieren der Wiedergabe

3 – Als Favorit markieren

4 – Wiedergeben aller Musiktitel

5 – Zufallswiedergabe: Wiedergeben Ihrer Dateien in zufälliger Reihenfolge

6 – Wiederholen: Einmaliges oder wiederholtes Wiedergeben aller Musiktitel in diesem Ordner

# Spiele




## 9.1

### Spiele



#### Von einer Spielkonsole

So starten Sie ein Spiel über eine Spielkonsole:

Schalten Sie die Spielkonsole ein.



Profimodus AUS – Drücken Sie  /  Home und wählen Sie  Apps aus. Wählen Sie Quellen, und drücken Sie OK.

Starten Sie das Spiel.

Drücken Sie wiederholt  BACK oder drücken Sie  EXIT, oder beenden Sie die App mit der zugehörigen Schaltfläche zum Beenden/Stoppen.


Profimodus EIN – Drücken Sie  /  Home und wählen Sie **Fernsehsender**  und dann eine Spielekonsole oder den Namen der Verbindung aus.

Starten Sie das Spiel.



Drücken Sie wiederholt  BACK oder drücken Sie  EXIT, oder beenden Sie die App mit der zugehörigen Schaltfläche zum Beenden/Stoppen.



#### Durch Apps

So starten Sie ein Spiel über eine Spiele-App:



Profimodus Aus – Drücken Sie  /  Home und wählen Sie  Apps gefolgt von Google Play Games aus.

Melden Sie sich bei Ihrem Google-Konto an, und starten Sie ein Spiel.

Drücken Sie wiederholt  BACK, oder drücken Sie  EXIT, oder beenden Sie die App mit der zugehörigen Schaltfläche zum Beenden/Stoppen.

Profimodus EIN – Drücken Sie  /  Home. Wählen Sie  Spiele.

Melden Sie sich bei Ihrem Google-Konto an, und starten Sie ein Spiel.

Drücken Sie wiederholt  BACK, oder drücken Sie  EXIT, oder beenden Sie die App mit der zugehörigen Schaltfläche zum Beenden/Stoppen.

# Professional-Menü-App

10.1






## Info zur Professional-Menü-App

In der Professional-Menü-App können Sie alle Aktivitäten starten, die sich über den Fernseher ausführen lassen.

Der linke Teil der Professional-Menü-App ist in Zeilen organisiert...

- Empfohlen 
- Fernsehsender 
- Cast 
- Apps 
- Spiele 
- Mehr 

Der obere rechte Teil der Professional-Menü-App ist in Zeilen angeordnet.

- Konto verwalten
- Nachrichten  (Dies ist eine optionale Funktion, die von den internen Einstellungen des Hotels abhängig ist.)
- Rechnung  (Dies ist eine optionale Funktion, die von den internen Einstellungen des Hotels abhängig ist.)
- Einstellen des Alarms 
- Wetter 
- Menüsprache 
- Aktuelle Zeit

10.2


## Professional-Menü-App öffnen

Profimodus AUS – Siehe Kapitel "Android TV-Startbildschirm".

Profimodus EIN – Zum Öffnen der Professional-Menü-App und Öffnen eines Elements...

1 – Öffnen Sie die Professional-Menü-App durch Drücken von Home .

2 – Wählen Sie mit den Pfeiltasten eine Aktivität aus, und drücken Sie OK, um die Aktivität zu starten.

3 – Um die Professional-Menü-App ohne Änderung der aktuellen Aktivität zu schließen, drücken Sie .




Wenn Sie die Professional-Menü-App öffnen, wird die im Hintergrund ausgeführte Anwendung/Inhaltswiedergabe angehalten. Wählen Sie zum Fortsetzen die Anwendung bzw. den Inhalt über die Professional-Menü-App aus.

10.3

## Fernsehsender

### Anzeigen von Sendern


#### Einschalten eines Senders

Um Fernsehsender anzuzeigen, drücken Sie . Der Fernseher schaltet automatisch auf den Sender, den Sie zuletzt gesehen haben.

#### Umschalten der Sender

– Um umzuschalten, drücken Sie CH +/-.

#### Vorheriger Sender

– Wenn Sie zurück zum zuvor wiedergegebenen Sender wechseln möchten, drücken Sie  BACK.

10.4

## Spiele

So öffnen Sie die Professional-Menü-App und die Spiele...

1 – Drücken Sie  /  Home, um die Professional-Menü-App zu öffnen.

2 – Wählen Sie Spiele , und drücken Sie OK.

#### Ideale Spieleinstellung







Für einige Spiele, bei denen Geschwindigkeit und Präzision wichtig sind, können Sie den Fernseher vor Beginn des Spiels mit den idealen Einstellungen für Spiele einrichten.

Wenn Ihre Spielkonsole als Gerät des Typs **Spiel** im Quellenmenü (Liste aller Anschlüsse) hinzugefügt

wurde, werden am Fernseher automatisch die idealen Spieleinstellungen vorgenommen.

Wenn für die Spielkonsole der Typ **Player** festgelegt wurde und Sie sie die meiste Zeit als Disc-Player verwenden, sollten Sie die Einstellung **Player** nicht ändern.

So stellen Sie die idealen Einstellungen manuell auf dem Fernseher ein: . .

- 1 - Wählen Sie  /  Home >  Mehr >  Einstellungen >  Bild > Bildeinstellung.
- 2 - Wählen Sie **Spiel**, und drücken Sie die Taste OK.
- 3 - Drücken Sie gegebenenfalls mehrmals , um das Menü zu beenden. Achten Sie darauf, die Einstellung "Spiel" oder "Computer" wieder auf Aus zu setzen, wenn Sie mit dem Spielen fertig sind.

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10.5

## Professional Settings


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### Bildeinstellung

#### Auswählen einer Einstellung

Drücken Sie  /  Home >  Mehr >  Einstellungen >  Bild > Bildeinstellung.

Zur einfachen Anpassung des Bildes können Sie eine vordefinierte Bildeinstellung auswählen.

- Persönlich – Die Bildoptionen, die Sie beim ersten Öffnen ausgewählt haben.
- Lebhaft – Ideal für die Wiedergabe bei Tageslicht
- Natürlich – Natürliche Bildeinstellungen
-  Standard – Die energieeffizienteste Einstellung – Werksvoreinstellung
- Film – Ideal für die Wiedergabe von Filmen
- Spiel – Ideal für Spiele
- Computer – Ideal für den Anschluss an den Computer

---

### Bildformat

#### Bildformat wählen

Wenn das Bild nicht den gesamten Bildschirm ausfüllt, wenn schwarze Streifen oben oder unten oder an den Seiten angezeigt werden, können Sie das Bild so anpassen, dass der Bildschirm vollständig ausgefüllt wird.

So wählen Sie eine der Basiseinstellungen zum Ausfüllen des Bildschirms aus:

Drücken Sie  /  Home >  Mehr >  Einstellungen >  Bildformat.

Die folgenden Formate stehen je nach Bild auf dem Bildschirm zur Verfügung.

- • Breitbild

- Bildschirm ausfüllen
- Vollbild
- • Nicht skaliert

---

### Toneinstellung

#### Auswählen einer Einstellung

Drücken Sie  /  Home >  Mehr >  Einstellungen >  Ton > Toneinstellung.

Zur einfachen Anpassung des Tons können Sie über "Toneinstellung" eine vordefinierte Einstellung auswählen.

- Persönlich – Ihre persönliche Auswahl, die Sie unter "Bild + Ton personalisieren" getroffen haben
- Original – Die neutralste Toneinstellung
- Film – Ideal für die Wiedergabe von Filmen
- Musik – Ideal für die Wiedergabe von Musik
- Spiel – Ideal für Spiele
- Nachrichten – Ideal für Nachrichten/Dokumentationen

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### Sprache

Ändern der Sprache des TV-Menüs und der Meldungen






Drücken Sie  /  Home >  Mehr >  Einstellungen >  Menüsprache.

Wählen Sie Ihre Sprache aus, und drücken Sie OK.

---

### Energiespareinstellungen



Ausschalten des Bildschirms, um Energie zu sparen

Drücken Sie  /  Home >  Mehr >  Funktionen >  Sleep-Timer > Bild ausgeschaltet.

Wenn Sie auf Ihrem Fernseher nur Musik hören, können Sie den Fernsehbildschirm ausschalten. Nur der Fernsehbildschirm wird ausgeschaltet.

#### Einstellen des Ausschalt-Timers

Drücken Sie  /  Home >  Mehr >  Funktionen >  Sleep-Timer > Sleep-Timer.

Drücken Sie den Pfeil  (nach oben) oder  (nach unten), um den Wert anzupassen. Beim Wert 0 (Aus) wird das automatische Ausschalten deaktiviert.

Wenn Sie "Ausschalt-Timer" auswählen, schaltet sich der Fernseher automatisch aus, um Energie zu

sparen.

\* Wenn Sie den Fernseher als Monitor nutzen oder zum Fernsehen einen Digitalreceiver verwenden (eine Set-Top-Box, STB), deaktivieren Sie das automatische Ausschalten, indem Sie den Wert auf 0 setzen.

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10.6

## Google-Konto

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### Anmelden

Um alle Funktionen Ihres Philips Android TV zu genießen, können Sie sich mit Ihrem Google-Konto bei Google anmelden.

Durch die Anmeldung können Sie Ihre Lieblingsspiele auf dem Telefon, Tablet und Fernseher spielen. Sie erhalten außerdem auf dem TV-Startbildschirm maßgeschneiderte Video- und Musikempfehlungen sowie Zugriff auf YouTube, Google Play und andere Apps.

Verwenden Sie Ihr bestehendes **Google-Konto**, um sich auf Ihrem Fernseher bei Google anzumelden. Ein Google-Konto besteht aus einer E-Mail-Adresse und einem Kennwort. Wenn Sie noch kein Google Konto haben, verwenden Sie Ihren Computer oder Ihr Tablet, um eines zu erstellen ([accounts.google.com](https://accounts.google.com)). Wenn Sie sich bei der Ersteinrichtung des Fernsehers nicht angemeldet haben, können Sie das jederzeit später nachholen.

### Anmelden

Drücken Sie  /  > Öffnen Sie den Bildschirm der Professional-Menü-App.

Wählen Sie oben rechts im Bildschirm der Professional-Menü-App die Option "Konto verwalten" aus, und drücken Sie **OK**. Geben Sie über die Bildschirmtastatur Ihre E-Mail-Adresse und Ihr Passwort ein, und drücken Sie zum Anmelden dieselbe **OK**-Taste.

# Android TV-Home-Bildschirm

## Informationen zum Android TV-Home-Bildschirm

Um von allen Vorteilen, die Ihr Android-Fernseher bietet, profitieren zu können, ist eine Verbindung des Fernsehers mit dem Internet erforderlich.

Wie auf Ihrem Android-Smartphone oder -Tablet ist der Startbildschirm die Steuerzentrale des Fernsehers. Über den Startbildschirm können Sie entscheiden, was Sie sehen möchten, indem Sie Unterhaltungsmöglichkeiten in der App und im Live-TV durchsuchen. Ihre Startseite verfügt über Sender, mit denen Sie tolle Inhalte aus Ihren Lieblings-Apps entdecken können. Sie können auch weitere Kanäle hinzufügen oder neue Apps suchen, um noch mehr Inhalte zu nutzen.

## Öffnen des Android TV-Home-Bildschirms

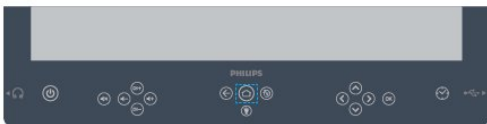
Profimodus EIN – siehe Installationshandbuch.

Profimodus AUS – So öffnen Sie den Android TV-Home-Bildschirm und öffnen ein Element...

1 – Drücken Sie die Taste Menü, navigieren Sie zu "Philips Collection", und drücken Sie dann OK.

2 – Wählen Sie mit den Pfeiltasten eine Aktivität aus, und drücken Sie OK, um die Aktivität zu starten.

3 – Um das die Home-Menü ohne Änderung der aktuellen Aktivität zu schließen, drücken Sie .



Wenn Sie den Android TV-Home-Bildschirm öffnen, wird die im Hintergrund ausgeführte Anwendung/Inhaltswiedergabe angehalten. Wählen Sie zum Fortsetzen die Anwendung bzw. den Inhalt über den Android TV-Home-Bildschirm aus.




## Android-TV-Einstellungen

### Bild


#### Bildeinstellungen

##### Bildeinstellung

##### Auswählen einer Einstellung

Drücken Sie  /  >  Einstellungen > Bild > Bildeinstellung.



Zur einfachen Anpassung des Bildes können Sie eine vordefinierte Bildeinstellung auswählen.

- Persönlich – Die Bildoptionen, die Sie beim ersten Öffnen ausgewählt haben.
- Lebhaft – Ideal für die Wiedergabe bei Tageslicht
- Natürlich – Natürliche Bildeinstellungen
-  Standard – Die energieeffizienteste Einstellung – Werksvoreinstellung
- Film – Ideal für die Wiedergabe von Filmen
- Spiel – Ideal für Spiele
- Computer – Ideal für den Anschluss an den Computer






#### Farbe, Kontrast, Schärfe, Helligkeit

##### Anpassen der Bildfarbe

Drücken Sie  /  Home >  Einstellungen > Bild > Farbe.




Drücken Sie die Pfeiltasten  (nach oben) oder  (nach unten), um den Wert der Farbsättigung des Bilds anzupassen.



##### Anpassen des Bildkontrasts

Drücken Sie  /  Home >  Einstellungen > Bild > Kontrast. Drücken Sie die Pfeiltasten  (nach oben) oder  (nach unten), um den Kontrastwert des Bilds anzupassen.

Wenn Sie den Kontrastwert verringern, wird weniger Energie verbraucht.



##### Anpassen der Bildschärfe

Drücken Sie  /  Home >  Einstellungen > Bild > Schärfe.

Drücken Sie den Pfeil  (nach oben) oder  (nach unten), um den Schärfewert des Bilds anzupassen.

## Helligkeit einstellen

Drücken Sie  /  Home >  Einstellungen > Bild > Helligkeit.

Drücken Sie den Pfeil  (nach oben) oder  (nach unten), um den Wert für die Helligkeit des Bildsignals anzupassen.

Hinweis: Wenn Sie die Helligkeit stark abweichend vom Referenzwert (50) einstellen, ergibt sich möglicherweise ein geringerer Kontrast.

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## Erweiterte Bildeinstellungen




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### Farbeinstellungen

---




#### Erweiterte Farbeinstellungen

##### Anpassen der Farboptimierung

Drücken Sie  /  Home >  Einstellungen > Bild > Erweitert > Farbe > Farboptimierung.




Wählen Sie Maximum, Mittel oder Minimum aus, um die Farbintensität und die Details mit leuchtenden Farben einzustellen.



##### Auswählen der voreingestellten Farbtemperatur

Drücken Sie  /  Home >  Einstellungen > Bild > Erweitert > Farbe > Farbtemperatur.

Wählen Sie Normal, Warm oder Kühl aus, um die Farbtemperatur nach Ihren Vorlieben festzulegen.

##### Anpassen der Farbtemperatur

Drücken Sie  /  Home >  Einstellungen > Bild > Erweitert > Farbe > Personalisierte Farbtemperatur.




Wählen Sie im Menü "Farbtemperatur" die Option "Personalisiert" aus, um selbst eine Farbtemperatur festzulegen. Drücken Sie den Pfeil  (nach oben) oder  (nach unten), um den Wert anzupassen. WP ist der Weißpunkt, BL ist der Schwarzwert. Sie können auch eine der Voreinstellungen in diesem Menü auswählen.

---

## Erweiterte Kontrasteinstellungen

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### Kontrastmodi

Drücken Sie  /  Home >  Einstellungen > Bild > Erweitert > Kontrast > Kontrastmodus.

Wählen Sie Normal, Optimiert für Bilder oder Optimiert für Energieeinsparung aus, um den Fernseher so einzustellen, dass er automatisch den Kontrast reduziert und so am wenigsten Energie verbraucht bzw. das beste Bilderlebnis liefert, oder wählen Sie "Aus", um die Anpassung auszuschalten.

---

## Dynamic Contrast




Drücken Sie  /  Home >  Einstellungen > Bild > Erweitert > Kontrast > Dynamischer Kontrast.



Wählen Sie "Maximum", "Mittel" oder "Minimum" aus, um den Wert festzulegen, bei dem der Fernseher automatisch Details in dunklen, mittelhellen und hellen Bereichen des Bildes optimiert.

---




## Videokontrast, Gamma



### Videokontrast

Drücken Sie  /  Home >  Einstellungen > Bild > Erweitert > Kontrast > Videokontrast.

Drücken Sie den Pfeil  (nach oben) oder  (nach unten), um den Wert für den Videokontrast anzupassen.

### Gamma

Drücken Sie  /  Home >  Einstellungen > Bild > Erweitert > Kontrast > Gamma.

Drücken Sie den Pfeil  (nach oben) oder  (nach unten), um eine nicht lineare Einstellung für die Bildhelligkeit und den Kontrast festzulegen.

---




## Verbesserte Schärfeeinstellungen

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### Scharfe Bilder

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#### Rauschunterdrückung


Drücken Sie  /  Home >  Einstellungen > Bild > Erweitert > Scharfe Bilder > Rauschunterdrückung.

Wählen Sie Maximum, Mittel oder Minimum aus, um den Wert für die Rauschunterdrückung bei Videoinhalten festzulegen.

Rauschen zeigt sich meist als sich bewegende Punkte im angezeigten Bild.

---

## MPEG-Artefaktunterdrückung

Drücken Sie  /  Home >  Einstellungen > Bild > Erweitert > Scharfe Bilder > MPEG-Artefaktreduzierung.





Wählen Sie Maximum, Mittel oder Minimum aus, um die Glättung von Artefakten in digitalen Videoinhalten entsprechend einzustellen. MPEG-Artefakte zeigen sich meist als Klötzchen oder gezackte Ränder in den angezeigten Bildern.

---

## Bildformat

Wenn das Bild nicht den gesamten Bildschirm ausfüllt, wenn schwarze Streifen oben oder unten oder an den Seiten angezeigt werden, können Sie das Bild so anpassen, dass der Bildschirm vollständig ausgefüllt wird.

So wählen Sie eine der Basiseinstellungen zum Ausfüllen des Bildschirms aus:

- 1 – Drücken Sie während der Wiedergabe eines Fernsehsenders  /  Home >  Einstellungen > Bild > Bildformat.
- 2 – Wählen Sie aus der Liste ein Format aus, und drücken Sie die Taste OK.
- 3 – Drücken Sie gegebenenfalls mehrmals  BACK, um das Menü zu beenden.

Die folgenden Formate stehen je nach Bild auf dem Bildschirm zur Verfügung. . .


- • Breitbild
- Bildschirm ausfüllen
- Vollbild
- • Nicht skaliert

---

## Ton

### Toneinstellung

#### Auswählen einer Einstellung

Drücken Sie  /  Home >  Einstellungen > Ton > Toneinstellung.




Zur einfachen Anpassung des Tons können Sie über "Toneinstellung" eine vordefinierte Einstellung auswählen.

- Persönlich – Ihre persönliche Auswahl, die Sie unter "Bild + Ton personalisieren" getroffen haben
- Original – Die neutralste Toneinstellung
- Film – Ideal für die Wiedergabe von Filmen
- Musik – Ideal für die Wiedergabe von Musik
- Spiel – Ideal für Spiele
- Nachrichten – Ideal für Nachrichten/Dokumentationen

---

## Soundmanagement

### Wählen Sie ein Gerät.

Drücken Sie  /  Home >  Einstellungen > Ton > Soundmanagement.

Audio-Ausgabegeräte konfigurieren.




- TV-Lautsprecher – Stellen Sie den Fernseher so ein, dass der Ton über den Fernseher oder das angeschlossene Audiosystem wiedergegeben wird.
- Kopfhörer-/Badezimmerlautsprecher – Ein/Aus.
- Feste Lautstärke für Kopfhörer/Badezimmerlautspr. – Ist

diese Funktion aktiviert, wird der Lautstärkepegel des Kopfhörers/Badezimmerlautsprechers auf die Standardeinstellung fixiert.

- Kopfhörererkennung – Ein/Aus.

---

## Aufstellungsort

Drücken Sie  /  Home >  Einstellungen > Ton > Aufstellungsort.

Wählen Sie "Auf Tischfuß" oder "An der Wand" aus, um die optimale Tonwiedergabe entsprechend der Aufstellungsart zu erhalten.




---

## Erweitert



---

## Energiespareinstellungen

### Sleeptimer

Drücken Sie  /  Home >  Einstellungen > Energiespareinstellungen > Sleep-Timer.

Stellen Sie den Fernseher so ein, dass er nach einer voreingestellten Zeit automatisch in den Standby-Modus wechselt. Um diese Funktion zu deaktivieren, stellen Sie die Zeit auf Null.




Drücken Sie den Pfeil  (nach oben) oder  (nach unten), um den Wert anzupassen. Beim Wert 0 (Aus) wird das automatische Ausschalten deaktiviert.

Wenn Sie "Ausschalt-Timer" auswählen, schaltet sich der Fernseher automatisch aus, um Energie zu sparen.

\* Wenn Sie den Fernseher als Monitor nutzen oder zum Fernsehen einen Digitalreceiver verwenden (eine Set-Top-Box, STB), deaktivieren Sie das automatische Ausschalten, indem Sie den Wert auf 0 setzen.

---

## Bild ausgeschaltet

Drücken Sie  /  Home >  Einstellungen > Energiespareinstellungen > Bild ausgeschaltet.

Wenn Sie auf Ihrem Fernseher nur Musik hören, können Sie den Fernsehbildschirm ausschalten. Nur der Fernsehbildschirm wird ausgeschaltet.






---

## Region und Sprache

---

### Sprachen




Drücken Sie  /  Home >  Einstellungen > Region und Sprache > Sprachen.

Nehmen Sie Regions- oder Spracheinstellungen vor.

- Androidsystem/Menüsprache – Ändern Sie die Sprache für Menüs und Meldungen.
- Bevorzugte Audiosprache – Legen Sie die bevorzugte Einstellung für die Audiosprache in Sendungen fest.
- Alternative Audiosprache – Legen Sie die nächste bevorzugte Einstellung für die Audiosprache in Sendungen fest.
- Bevorzugte Untertitelsprache – Legen Sie die höchste bevorzugte Einstellung für die Untertitelsprache in Sendungen fest.
- Alternative Untertitelsprache – Legen Sie die nächste bevorzugte Einstellung für die Untertitelsprache in Sendungen fest.
- Bevorzugte Videotextsprache – Legen Sie die erste bevorzugte Einstellung für die Videotextsprache in Sendungen fest.
- Alternative Videotextsprache – Legen Sie die nächste bevorzugte Einstellung für die Videotextsprache in Sendungen fest.




---




## Einstellungen zu Seh- und Hörhilfen

Drücken Sie  /  Home >  Einstellungen > Seh -und Hörhilfen > Universalzugriff.

Wenn die Seh- und Hörhilfen aktiviert sind, eignet sich der Fernseher zur Verwendung durch Personen mit Seh- und Hörbeeinträchtigungen.

### Einschalten der Seh- und Hörhilfen




Drücken Sie  /  Home >  Einstellungen > Seh -und Hörhilfen > Universalzugriff > Ein.

Seh- und Hörhilfen für hörbehinderte Menschen  
Drücken Sie  /  Home >  Einstellungen > Seh -und Hörhilfen > Universalzugriff

> Hörbehindert > Ein.


- Einige digitale Fernsehsender senden ein besonderes Audiosignal und Untertitel für hörbehinderte und taube Menschen.
- Wenn Hörhilfen eingeschaltet sind, wechselt der Fernseher automatisch in den Modus mit angepasstem Audiosignal und Untertiteln, sofern verfügbar.



### Seh- und Hörhilfen für Menschen mit Sehbeeinträchtigungen

Drücken Sie  /  Home >  Einstellungen > Seh -und Hörhilfen > Universalzugriff

> Audiobeschreibung > Audiobeschreibung > Ein.

Digitale Fernsehsender können spezielle Audiokommentare übertragen, die das Geschehen auf dem Bildschirm beschreiben.

 Einstellungen > Seh- und Hörhilfen > Universal zugriff > Audiobeschreibung > Kombin. Lautst., Soundeffekte, Sprache.




- Wenn Sie "Kombin. Lautst." auswählen, können Sie die Lautstärke des normalen Tons mit den Audiokommentaren kombinieren. Drücken Sie den Pfeil  (nach oben) or  (nach unten), um den Wert anzupassen.
- Wenn Sie die Soundeffekte einschalten, erhalten Sie zusätzliche Soundeffekte im Audiokommentar, wie Stereo oder Ausklingen.
- Wählen Sie "Sprache", um die bevorzugte Spracheinstellung (Beschreibend oder Untertitel) auszuwählen.

---

## Sendung themenabh. sperren




---

### Einstufung

Drücken Sie  /  Home >  Einstellungen > Inhaltseinstufung.

Damit Kinder keine Sendungen sehen, die für ihr Alter ungeeignet sind, können Sie eine Altersfreigabe festsetzen. Digitale Sender haben eine Altersfreigabe in ihre Sendungen integriert. Wenn die Freigabe gleich oder höher als das eingegebene Alter Ihres Kindes ist, wird die entsprechende Sendung gesperrt. Um eine gesperrte Sendung wiederzugeben, müssen Sie zuerst den Code eingeben.



So setzen Sie eine Altersfreigabe fest

Drücken Sie  /  Home >  Einstellungen > Inhaltseinstufung > Einstufung.

Wählen Sie das Alter, und drücken Sie OK. Um die Altersfreigabe zu deaktivieren, wählen Sie als Alterseinstellung Keine aus. In einigen Ländern ist es jedoch vorgeschrieben, eine Altersfreigabe festzulegen.

---




### Code festlegen und Code ändern

Drücken Sie  /  Home >  Einstellungen > Inhaltseinstufung.

Der Kindersicherungs-Code wird zum Sperren und

Entsperren von Sendern und Sendungen verwendet.

Legen Sie einen neuen Code fest, oder ändern Sie den Code.

Drücken Sie  /  Home >  Einstellungen > Inhaltseinstufung > Code ändern.

Hinweis:

Wenn Sie Ihren PIN-Code vergessen haben, können Sie den aktuellen Code durch Eingabe von **8888** umgehen und einen neuen Code eingeben.

11.4

## Anschließen Ihres Android TV

### Netzwerk und Internet

#### Heimnetzwerk

Damit Sie alle Funktionen Ihres Philips Android TV genießen können, muss Ihr Fernseher mit dem Internet verbunden sein.

Verbinden Sie den Fernseher mit einer High-Speed-Internetverbindung mit einem Heimnetzwerk. Sie können den Fernseher kabellos oder per Netzwerkkabel mit Ihrem Netzwerkrouter verbinden.

#### Mit Netzwerk verbinden

#### Kabellose Verbindung

#### Was Sie benötigen





Zur kabellosen Verbindung des Fernsehers mit dem Internet benötigen Sie einen WiFi-Router mit Zugang zum Internet.

Verwenden Sie einen Router mit einer Hochgeschwindigkeits-Internetverbindung (Breitband).




### Herstellen der Verbindung

#### Herstellen der Verbindung – KABELLOS

Drücken Sie  /  Home >  Einstellungen >  Kabellos und Netzwerke > Mit Netzwerk verbinden > KABELLOS.

- 1 - Wählen Sie in der Liste der gefundenen Netzwerke Ihr kabelloses Netzwerk aus. Wenn Ihr Netzwerk nicht in der Liste angezeigt wird, weil der Netzwerkname ausgeblendet ist (Sie haben die SSID-Übertragung des Routers deaktiviert), wählen Sie Neues Netzwerk hinzufügen aus, um den Netzwerknamen manuell einzugeben.
- 2 - Geben Sie abhängig vom Routermodell Ihren Verschlüsselungscode ein (WEP, WPA oder WPA2). Wenn Sie den Verschlüsselungscode für dieses Netzwerk bereits eingegeben haben, können Sie durch Auswahl von OK die Verbindung direkt herstellen.
- 3 - Sobald die Verbindung hergestellt wurde, wird eine Nachricht angezeigt.





#### Herstellen der Verbindung – WPS

Drücken Sie  /  Home >  Einstellungen >  Kabellos und Netzwerke > Mit Netzwerk verbinden > WPS.

Wenn Ihr Router WPS unterstützt, können Sie ohne Netzwerksuche direkt eine Verbindung zum Router herstellen. Wenn Geräte in Ihrem WLAN-Netzwerk das WEP-Verschlüsselungssystem verwenden, ist die Verwendung von WPS nicht möglich.

- 1 - Gehen Sie zum Router, drücken Sie die WPS-Taste, und kehren Sie innerhalb von 2 Minuten zum Fernseher zurück.
- 2 - Wählen Sie zum Herstellen der Verbindung Verbinden.
- 3 - Sobald die Verbindung hergestellt wurde, wird eine Nachricht angezeigt.

#### Herstellen der Verbindung – WPS MIT PIN-Code

Drücken Sie  /  Home >  Einstellungen >  Kabellos und Netzwerke > Mit Netzwerk verbinden > WPS MIT PIN-Code.

Wenn Ihr Router WPS mit PIN-Code unterstützt, können Sie ohne Netzwerksuche direkt eine Verbindung zum Router herstellen. Wenn Geräte in Ihrem WLAN-Netzwerk das WEP-Verschlüsselungssystem verwenden, ist die Verwendung von WPS nicht möglich.

- 1 - Notieren Sie sich den achtstelligen PIN-Code, der auf dem Bildschirm angezeigt wird, und geben Sie ihn in der Router-Software auf Ihrem PC ein. Im Handbuch zu Ihrem Router erfahren Sie, wo Sie den PIN-Code in der Router-Software eingeben müssen.

- 2 – Wählen Sie zum Herstellen der Verbindung Verbinden.
- 3 – Sobald die Verbindung hergestellt wurde, wird eine Nachricht angezeigt.

---

## Probleme

### Kabelloses Netzwerk wurde nicht gefunden oder ist gestört

- Mikrowellenherde, DECT-Telefone oder andere Geräte mit WiFi 802.11b/g/n/ac in der Nähe können möglicherweise Störungen im WLAN-Netzwerk verursachen.
- Stellen Sie sicher, dass Sie über die Firewalls im Netzwerk Zugriff auf die kabellose Verbindung mit dem Fernseher erlauben.
- Wenn das kabellose Netzwerk nicht ordnungsgemäß funktioniert, testen Sie die kabelgebundene Netzwerkinstallation.

### Das Internet funktioniert nicht

- Prüfen Sie, falls die Verbindung zum Router ordnungsgemäß funktioniert, die Verbindung des Routers mit dem Internet.

### Der PC und die Internetverbindung sind langsam

- Informieren Sie sich in der Bedienungsanleitung des kabellosen Routers über die Reichweite in Innenräumen, die Übertragungsrate und über die anderen Faktoren zur Signalqualität.
- Sie benötigen für den Router eine Hochgeschwindigkeitsverbindung (Breitband) zum Internet.

### DHCP

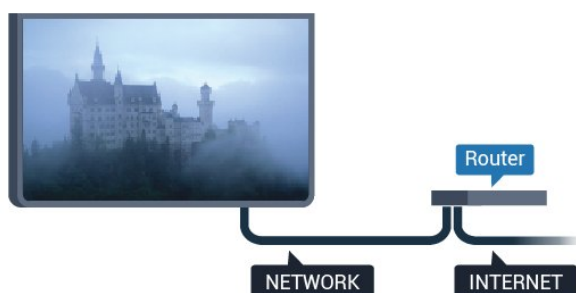
- Wenn keine Verbindung hergestellt werden kann, überprüfen Sie die DHCP-Einstellung (Dynamic Host Configuration Protocol) des Routers. DHCP sollte aktiviert sein.

---

## Kabelgebundene Verbindung

### Was Sie benötigen

Zur Verbindung des Fernsehers mit dem Internet benötigen Sie einen Router mit Zugang zum Internet. Verwenden Sie einen Router mit einer Hochgeschwindigkeits-Internetverbindung (Breitband).



---

## Herstellen der Verbindung

### Herstellen der Verbindung – KABELGEBUNDEN

Drücken Sie / Home > Einstellungen > Kabellos und Netzwerke > Mit Netzwerk verbinden > KABELGEBUNDEN.

- 1 – Verbinden Sie den Router über ein Netzkabel (Ethernet-Kabel\*\*) mit dem Fernseher.
- 2 – Prüfen Sie, ob der Router tatsächlich eingeschaltet ist.
- 3 – Der Fernseher sucht kontinuierlich nach der Netzwerkverbindung.
- 4 – Sobald die Verbindung hergestellt wurde, wird eine Nachricht angezeigt.

Wenn keine Verbindung hergestellt werden kann, überprüfen Sie die DHCP-Einstellung des Routers. DHCP sollte aktiviert sein.

\*\*Verwenden Sie ein abgeschirmtes FTP-Cat. 5E-Ethernetkabel, um den EMC-Anforderungen zu entsprechen.

---

## Google-Konto

### Anmelden

Um alle Funktionen Ihres Philips Android TV zu genießen, können Sie sich mit Ihrem Google-Konto bei Google anmelden.

Durch die Anmeldung können Sie Ihre Lieblingsspiele auf dem Telefon, Tablet und Fernseher spielen. Sie erhalten außerdem auf dem TV-Startbildschirm maßgeschneiderte Video- und Musikempfehlungen sowie Zugriff auf YouTube, Google Play und andere Apps.

Verwenden Sie Ihr bestehendes **Google-Konto**, um sich auf Ihrem Fernseher bei Google anzumelden. Ein Google-Konto besteht aus einer E-Mail-Adresse und einem Kennwort. Wenn Sie noch kein Google Konto haben, verwenden Sie Ihren Computer oder Ihr Tablet, um eines zu erstellen ([accounts.google.com](https://accounts.google.com)). Um Spiele mit Google Play zu spielen, benötigen Sie ein Google+-Profil. Wenn Sie sich bei der Ersteinrichtung des Fernsehers nicht angemeldet haben, können Sie das jederzeit später nachholen.

### Anmelden

Drücken Sie Home > Apps > Google Play.




Geben Sie über die Bildschirmtastatur Ihre E-Mail-Adresse und Ihr Passwort ein, und drücken Sie zum Anmelden dieselbe OK-Taste.

---

## Android-Einstellungen

Sie können verschiedene Android-spezifische Einstellungen oder Informationen einstellen bzw. anzeigen. Sie können die Liste mit Apps aufrufen, die auf Ihrem Fernseher installiert sind, und prüfen, wie viel Speicherplatz diese einnehmen. Sie können die Sprache einstellen, die Sie für die Sprachsuche verwenden möchten. Sie können die Bildschirmtastatur konfigurieren oder Apps erlauben, Ihren Standort zu verwenden. Erkunden Sie die verschiedenen Android-Einstellungen. Besuchen Sie [www.support.google.com/androidtv](http://www.support.google.com/androidtv), um weitere Informationen zu diesen Einstellungen zu erhalten.

### So öffnen Sie diese Einstellungen

Drücken Sie  /  Home >  Einstellungen > Einstellungen > Android-Einstellungen.

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11.5

## Programme

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### Anzeigen von Sendern

#### Einschalten eines Senders

Um Fernsehsender anzuzeigen, drücken Sie . Der Fernseher schaltet automatisch auf den Sender, den Sie zuletzt gesehen haben.

#### Umschalten der Sender

- Um umzuschalten, drücken Sie CH+ oder CH-.

#### Vorheriger Sender

Wenn Sie zurück zum zuvor wiedergegebenen Sender wechseln möchten, drücken Sie  BACK.

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11.6

## Einstellung der Sender

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### Installieren von Sendern

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#### Antennen-/Kabelinstallation

#### Sendersuche

Sie können alle Sender neu installieren und alle anderen Fernsehereinstellungen beibehalten.

Wenn ein PIN-Code festgelegt wurde, müssen Sie diesen Code vor dem erneuten Einstellen der Sender eingeben.

So suchen Sie nach Sendern...

- 1 - Drücken Sie  /  Home >  Einstellungen > Sender installieren und drücken Sie dann OK.
- 2 - Wählen Sie **RF Senderinstallation** aus, und

drücken Sie **OK**.

3 - Geben Sie Ihren PIN-Code ein, falls erforderlich. Wählen Sie **Nach Sendern suchen** aus, und drücken Sie **OK**.

Wählen Sie **Start** aus, und drücken Sie **OK**.

Wählen Sie das Land aus, in dem Sie sich gerade befinden, und drücken Sie **OK**.

Wählen Sie **Start** aus, und drücken Sie **OK**.



Wählen Sie die gewünschte Installationsart aus, **Antenne (DVB-T)** oder **Kabel (DVB-C)**, und drücken Sie **OK**.

Wählen Sie **Weiter** aus, und drücken Sie **OK**.

Wählen Sie die gewünschte Senderart aus, **Digitale und analoge Sender** oder **Nur digitale Sender**, und drücken Sie **OK**.

Wählen Sie **Weiter** aus, und drücken Sie **OK**.


Wählen Sie **Start** aus, und drücken Sie **OK**, um die digitalen Sender zu aktualisieren. Dies kann einige Minuten in Anspruch nehmen.

Drücken Sie  (links), um einen Schritt zurückzugehen, oder drücken Sie  BACK, um das Menü zu schließen.






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### Autom.Senderaktualisierung

Wenn Sie digitale Sender empfangen, können Sie den Fernseher so einstellen, dass diese Sender automatisch aktualisiert werden.

Täglich um 6 Uhr morgens aktualisiert der Fernseher die Sender und speichert neu hinzugekommene Sender. Neue Sender werden in der Senderliste gespeichert und mit einem  gekennzeichnet. Sender ohne Signal werden entfernt. Der Fernseher muss sich im Standby-Modus befinden, um Sender automatisch zu aktualisieren. Sie können die automatische Senderaktualisierung jedoch auch deaktivieren.

So deaktivieren Sie die automatische Aktualisierung:

- 1 - Drücken Sie  /  Home >  Einstellungen > Sender installieren und drücken Sie dann **OK**.
- 2 - Wählen Sie **RF Senderinstallation** aus, und drücken Sie **OK**.
- 3 - Geben Sie Ihren PIN-Code ein, falls erforderlich.
- 4 - Wählen Sie **Autom. Senderaktualisierung** aus, und drücken Sie **OK**.
- 5 - Legen Sie **Aus** fest, und drücken Sie **OK**.
- 6 - Drücken Sie  (links), um einen Schritt zurückzugehen, oder drücken Sie  BACK, um das Menü zu schließen.






---

### Senderaktualisierungsnachricht

Wenn neue Sender gefunden oder vorhandene Sender aktualisiert oder entfernt werden, wird beim Einschalten des Fernsehers eine Nachricht eingeblendet. Wenn diese Nachricht nicht nach jeder

Senderaktualisierung angezeigt werden soll, können Sie sie deaktivieren.

So deaktivieren Sie die Nachricht:

- 1 - Drücken Sie  /  Home >  Einstellungen > Sender installieren und drücken Sie dann **OK**.
- 2 - Wählen Sie **RF Senderinstallation** aus, und drücken Sie **OK**.
- 3 - Geben Sie Ihren PIN-Code ein, falls erforderlich.
- 4 - Wählen Sie **Autom. Senderaktualisierung** aus, und drücken Sie **OK**.
- 5 - Legen Sie **Aus** fest, und drücken Sie **OK**.
- 6 - Drücken Sie  (links), um einen Schritt zurückzugehen, oder drücken Sie  BACK, um das Menü zu schließen.





In einigen Ländern erfolgt die automatische Senderaktualisierung während der Programmwiedergabe oder wenn sich der Fernseher im Standby-Modus befindet.

---

### Digital: Manuelle Installation

Digitale Fernsendeder können nacheinander manuell installiert werden.

So installieren Sie digitale Sender manuell:




- 1 - Drücken Sie  /  Home >  Einstellungen > Sender installieren und drücken Sie dann **OK**.
- 2 - Wählen Sie **RF Senderinstallation** aus, und drücken Sie **OK**.
- 3 - Wählen Sie **Digital: Manuelle Installation** aus, und drücken Sie **OK**.
- 4 - Wählen Sie **Suchen** aus, und drücken Sie **OK**. Sie können selbst eine Frequenz eingeben, um einen Sender zu suchen, oder Sie lassen den Fernseher nach einem Sender suchen. Drücken Sie  (rechts), um **Suchen** auszuwählen, und drücken Sie **OK**, um automatisch nach einem Sender zu suchen. Der gefundene Sender wird auf dem Bildschirm angezeigt. Wenn der Empfang schlecht ist, drücken Sie erneut **Suchen**. Wenn Sie den Sender speichern möchten, wählen Sie **Fertig** aus, und drücken Sie **OK**.

---

### Analog: Manuelle Installation

Analoge Fernsendeder können nacheinander manuell eingestellt werden.

So installieren Sie analoge Sender manuell:


- 1 - Drücken Sie  /  Home >  Einstellungen > Sender installieren und drücken Sie dann **OK**.
- 2 - Wählen Sie **RF Senderinstallation** aus, und drücken Sie **OK**.
- 3 - Wählen Sie **Analog: Manuelle Installation** aus, und drücken Sie **OK**.

- System

Um das Fernsehsystem einzurichten, wählen Sie **System** aus.

Wählen Sie Ihr Land oder das Gebiet aus, in dem Sie sich derzeit befinden, und drücken Sie **OK**.

#### • Sender suchen

Um einen Sender zu suchen, wählen Sie **Sender suchen** aus, und drücken Sie **OK**. Sie können selbst eine Frequenz eingeben, um einen Sender zu suchen, oder Sie lassen den Fernseher nach einem Sender suchen. Drücken Sie  (rechts), um **Suchen** auszuwählen, und drücken Sie **OK**, um automatisch nach einem Sender zu suchen. Der gefundene Sender wird auf dem Bildschirm angezeigt. Wenn der Empfang schlecht ist, drücken Sie erneut **Suchen**. Wenn Sie den Sender speichern möchten, wählen Sie **Fertig** aus, und drücken Sie **OK**.

#### • Speichern

Sie können den Sender unter der aktuellen Sendernummer oder mit einer neuen Sendernummer speichern.

Wählen Sie **Aktuellen Sender speichern** oder **Als neuen Sender speichern** aus, und drücken Sie **OK**. Die neue Sendernummer wird kurz angezeigt.

Sie können diese Schritte wiederholen, bis alle verfügbaren analogen Fernsendeder eingestellt sind.

---

11.7

## Internet









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### Starten des Internets

Sie können auf Ihrem Fernseher im Internet surfen. Prinzipiell können Sie jede beliebige Internet-Website aufrufen, die meisten sind jedoch nicht auf das Bildschirmformat zugeschnitten.

- Einige Plug-ins (z. B. zur Anzeige von Seiten oder Videos) sind auf dem Fernseher nicht verfügbar.
- Sie können keine Dateien senden oder herunterladen.
- Internet-Seiten werden seitenweise und als Vollbild angezeigt.

So starten Sie den Internet-Browser:





- 1 - Drücken Sie  /  HOME.
- 2 - Blättern Sie nach unten, wählen Sie  Apps >  Internet, und drücken Sie **OK**.
- 3 - Geben Sie eine Internetadresse ein, wählen Sie  aus, und drücken Sie **OK**.
- 4 - Um das Internet zu schließen, drücken Sie  /  HOME oder .

# Software

## Software aktualisieren

### Softwareversion

So zeigen Sie die aktuelle Version der Fernsehersoftware an:

- 1 - Drücken Sie  / , wählen Sie **Einstellungen**  aus und drücken Sie **OK**.
- 2 - Wählen Sie **Software aktualisieren** > **Momentane Firmware**, und drücken Sie **OK**.
- 3 - Die Version, Versionshinweise und das Erstelltdatum werden angezeigt.
- 4 - Drücken Sie gegebenenfalls mehrmals  (links), um das Menü zu schließen.

### Update von der Website

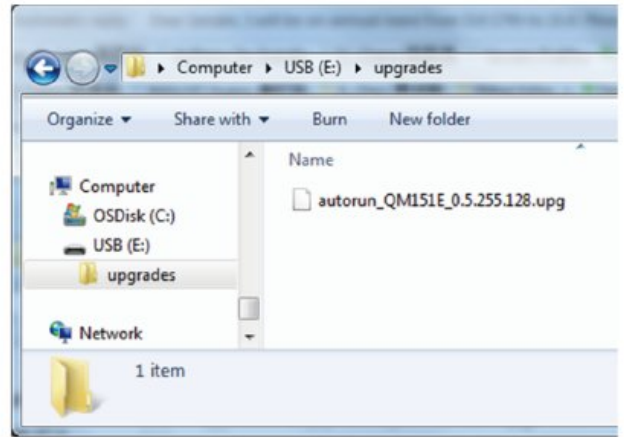
Die aktuelle Firmware-Version Ihres Fernsehers finden Sie im Einstellungsmenü unter "Software aktualisieren" > "Momentane Firmware".

Besuchen Sie regelmäßig [www.philips.com/support](http://www.philips.com/support), um neue Firmware-Updates zu erhalten.

Befolgen Sie die nachstehenden Anweisungen, um die Firmware Ihres Fernsehers zu aktualisieren.

Herunterladen der neuesten Software...

- 1 - Starten Sie den Internet Explorer.
- 2 - Rufen Sie die Philips Support-Website unter <http://www.philips.com/support> auf.
- 3 - Geben Sie die Modellnummer ein. (Die Modellnummer finden Sie auf dem Etikett auf der Rückseite des Fernsehers.)
- 4 - Rufen Sie die Produktseite Ihres Fernsehers und dort Support auf.
- 5 - Wählen Sie "Software-Aktualisierungen" aus, und klicken Sie auf "Datei herunterladen", um die Software herunterzuladen. (Die Software ist als ZIP-Datei verfügbar.)
- 6 - Wenn die Softwareversion höher ist als die auf Ihrem Fernseher installierte Version, klicken Sie auf den Link zum Herunterladen der Software.
- 7 - Akzeptieren Sie die Lizenzvereinbarung/Geschäftsbedingungen, wählen Sie "Ich stimme zu", und die ZIP-Datei wird automatisch heruntergeladen.
- 8 - Entpacken Sie die Zip-Datei mit einem Archivierungstool in einem beliebigen Verzeichnis.
- 9 - Erstellen Sie den Ordner "Upgrades" im Stammverzeichnis Ihres USB-Flashlaufwerks.
- 10 - Kopieren Sie die zuvor extrahierte upg-Datei in den erstellten Ordner "Upgrades" (wie auf der Abbildung unten dargestellt).
- 11 - Trennen Sie Ihr USB-Flash-Laufwerk vom Computer.



Software aktualisieren...

- 1 - Schließen Sie das USB-Flashlaufwerk (mit der Software-Aktualisierung) an den USB-Anschluss des Fernsehers an. Warten Sie 30 Sekunden (ggf. auch länger), bis der Fernseher das USB-Laufwerk erkennt.
- 2 - Der Fernseher lädt die Software automatisch.
- 3 - Nachdem der Fernseher die Software geladen hat, drücken Sie "Start", um das Upgrade zu aktivieren.

# Open-Source-Software

## Open-Source-Lizenz

### Informationen zur Open-Source-Lizenz

README für den Quellcode der Teile der Fernsehersoftware von TP Vision Netherlands B.V., die unter Open-Source-Lizenzen fallen.

In diesem Dokument wird die Verteilung des Quellcodes beschrieben, der im TP Vision Netherlands B.V.-Fernseher verwendet wird. Für diese Quellcodes gilt entweder die GNU General Public License (die GPL) oder die GNU Lesser General Public License (die LGPL) oder eine weitere Open Source-Lizenz. Anweisungen zum Erhalt von Kopien dieser Software finden Sie in der Bedienungsanleitung.

TP Vision Netherlands B.V. LEHNT DIE GEWÄHRUNG SÄMTLICHER AUSDRÜCKLICHER ODER STILLSCHWEIGENDER GARANTIEN JEGLICHER ART AB, AUCH GARANTIEN DER MARKTFÄHIGKEIT ODER DER EIGNUNG FÜR EINEN BESTIMMTEN ZWECK IN BEZUG AUF DIESE SOFTWARE. TP Vision Netherlands B.V. bietet keinen Support für diese Software. Die vorangegangenen Informationen haben keinerlei Auswirkungen auf Ihre Garantien und rechtlichen Ansprüche bezüglich der von Ihnen erworbenen TP Vision Netherlands B.V.-Produkte. Dies gilt nur für den für Sie zugänglich gemachten Quellcode.

### Open Source

#### Android (9.0.0)

This tv contains the Android Pie Software. Android is a Linux-based operating system designed primarily for touchscreen mobile devices such as smartphones and tablet computers. This software will also be reused in TPVision Android based TV's. The original download site for this software is : <https://android.googlesource.com/> This piece of software is made available under the terms and conditions of the Apache license version 2, which can be found below. Android APACHE License Version 2 (<http://source.android.com/source/licenses.html>) This includes all external sources used by official Android AOSP.

#### linux kernel (4.9)

This tv contains the Linux Kernel. The original download site for this software is : <http://www.kernel.org/>. This piece of software is made available under the terms and conditions of the GPL v2 license, which can be found below. Additionally, following exception applies : "NOTE! This copyright does \*not\* cover user programs that use kernel services by normal system calls - this is merely considered normal use of the kernel, and does \*not\* fall under the heading of "derived work". Also note that the GPL below is copyrighted by the Free Software Foundation, but the instance of code that it refers to (the linux kernel) is copyrighted by me and others who actually wrote it. Also note that the only valid version of the GPL as far as the kernel is concerned is \_this\_ particular version of the license (ie v2, not v2.2 or v3.x or whatever), unless explicitly otherwise stated. Linus Torvalds"

#### mbed TLS (2.6.0)

Cryptographic and SSL/TLS capabilities used in Hue Streaming feature. The original download site for this software is : <https://tls.mbed.org/>. This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### aacenc (3.3.3)

Encoder AAC Bitstream. The original download site for this software is : <http://c-ares.haxx.se/>. This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

#### alsa (1.0.24.1)

Advanced Linux Sound Architecture (ALSA). The original download site for this software is : <http://www.alsa-project.org>. This piece of software is made available under the terms and conditions of the LGPL 2.0.1, which can be found below.

#### appweb (4.3.5)

The original download site for this software is : <http://www.appwebserver.org/>. This piece of software is made available under the terms and conditions of the GPL 2.0, which can be found below.

#### atf (1.3)

Arm-Trusted-Firmware. The original download site for this software is : <https://github.com/ARM-software/arm-trusted-firmware>. This piece of software is made available under the terms and conditions of the BSD, which can be found below.

#### bash (3.2.48)

The shell, or command language interpreter. The original download site for this software is : <http://www.gnu.org/software/bash/>. This piece of software is made available under the terms and



conditions of the GPL 2.0 license, which can be found below.

#### bluetooth\_mw (1.0)

BT Stack. The original download site for this software is : <https://android.googlesource.com/platform/system/bt> .This piece of software is made available under the terms and conditions of the Apache 2.0 license, which can be found below.

#### bluetooth\_stack (1.0)

BT Stack. The original download site for this software is : <https://android.googlesource.com/platform/system/bt> .This piece of software is made available under the terms and conditions of the Apache 2.0 license, which can be found below.

#### bluetooth\_tool (1.0)

BT Stack. The original download site for this software is : <https://android.googlesource.com/platform/system/bt> .This piece of software is made available under the terms and conditions of the Apache 2.0 license, which can be found below.

#### boost (1.15.0)

Mainly use for encfs. The original download site for this software is : <http://www.boost.org/> .This piece of software is made available under the terms and conditions of the Boost Software License - Version 1.0, which can be found below.

#### busybox (1.15.3)

BusyBox combines tiny versions of many common UNIX utilities into a single small executable. The original download site for this software is : <http://www.busybox.net/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### c-ares (1.12.0)

c-ares is a C library that performs DNS requests and name resolves asynchronously. The original download site for this software is : <http://c-ares.haxx.se/> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

#### cJSON (1.7.7)

The original download site for this software is : <http://sourceforge.net/projects/cjson> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

#### coreutils (6.9)

Command like cp dd cat chroot. The original download site for this software is : <http://www.gnu.org/software/coreutils/> .This piece of software is made available under the terms and conditions of the MIT license, which can be found

below.

#### libcurl (7.59.0)

libcurl is a free and easy-to-use client-side URL transfer library, supporting DICT, FILE, FTP, FTPS, Gopher, HTTP, HTTPS, IMAP, IMAPS, LDAP, LDAPS, POP3, POP3S, RTMP, RTSP, SCP, SFTP, SMTP, SMTPS, Telnet and TFTP. libcurl supports SSL certificates, HTTP POST, HTTP PUT, FTP uploading, HTTP form based upload, proxies, cookies, user+password authentication (Basic, Digest, NTLM, Negotiate, Kerberos), file transfer resume, http proxy tunneling and more!The original download site for this software is : <http://curl.haxx.se/libcurl/COPYRIGHT> AND PERMISSION NOTICECopyright (c) 1996 - 2010, Daniel Stenberg, daniel@haxx.se.All rights reserved.Permission to use, copy, modify, and distribute this software for any purposewith or without fee is hereby granted, provided that the above copyrightnotice and this permission notice appear in all copies.THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

#### dfb (1.5.3)

The original download site for this software is : <http://www.directfb.org> .This piece of software is made available under the terms and conditions of the LGPL 2.0 license, which can be found below.

#### dibbler (1.0.1)

Dibbler is for implement dhcpv6 client. The original download site for this software is : <http://klub.com.pl/dhcpv6/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### dosfstools (2.9)

Create an MS-DOS file system under Linux. The original download site for this software is : <http://daniel-baumann.ch/files/software/dosfstools> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### e2fsprogs (1.41.14)



The original download site for this software is : <http://e2fsprogs.sourceforge.net> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### electric-fence (2.1.13)

Used for memory corruption detection. The original download site for this software is : [http://perens.com/FreeSoftware/ElectricFence/electric-fence\\_2.1.13-0.1.tar.gz](http://perens.com/FreeSoftware/ElectricFence/electric-fence_2.1.13-0.1.tar.gz) .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### encfs (1.3.2)

Use to encrypt file or dir. The original download site for this software is : <http://www.arg0.net/encfs> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### expat (2.1.0)

Xml paser; Expat is an XML parser library written in C. It is a stream-oriented parser in which an application registers handlers for things the parser might find in the XML document (like start tags). An introductory article on using .The original download site for this software is : <http://expat.sourceforge.net/> .

#### findutils (4.2.31)

The original download site for this software is : <http://www.gnu.org/software/findutils/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### freetype (2.7.1)

FreeType 2 is a software font engine that is designed to be small, efficient, highly customizable, and portable while capable of producing high-quality output (glyph images). The original download site for this software is : <http://freetype.sourceforge.net> .

#### fuse (2.8.4)

Fuse is a simple interface for userspace programs to export a virtual filesystem to the linux kernel. The original download site for this software is : <http://sourceforge.net/projects/fuse> .This piece of software is made available under the terms and conditions of the GPL 2.0/LGPLv2 license, which can be found below.

#### fusion (8.7.0)

The original download site for this software is : <https://www.openhub.net/p/linuxfusion> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### gawk (3.1.5)

The original download site for this software is : <http://www.gnu.org/software/gawk/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### gdisk (0.8.1)

The original download site for this software is : <http://www.rodsbooks.com/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### glibc (2.18)

The original download site for this software is : <http://www.gnu.org/software/libc> .This piece of software is made available under the terms and conditions of the LGPL 2.0.1 license, which can be found below.

#### googletest (1.7.0)

The original download site for this software is : <https://github.com/google/googletest> .This piece of software is made available under the terms and conditions of the BSD-3 license, which can be found below.

#### grep (2.5.1a)

The original download site for this software is : <http://www.gnu.org/software/grep/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### gzip (1.3.12)

The original download site for this software is : <http://www.gnu.org/software/gzip/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### harfbuzz (1.4.2)

Libpng, a text shaping library. The original download site for this software is : <http://harfbuzz.org/> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

#### icu (51.1)

ICU is a mature, widely used set of C/C++ and Java libraries providing Unicode and Globalization support for software applications. The original download site for this software is : <http://site.icu-project.org> .This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

#### inetutils (1.4.2)

The original download site for this software is : <http://www.gnu.org/software/inetutils/> .This piece of software is made available under the terms and

conditions of the GPL 2.0 license, which can be found below.

#### iptables (1.4.15)

Iptables is a user space application program that allows a system administrator to configure the tables provided by the Linux kernel firewall (implemented as different Netfilter modules) and the chains and rules it stores. Different kernel modules and programs are currently used for different protocols; iptables applies to IPv4. The original download site for this software is : <https://android.googlesource.com/> . This piece of software is made available under the terms and conditions of the GPL 2.0.

#### iputils (s20101006)

Set of small useful utilities for Linux networking. The original download site for this software is : <http://www.skbuff.net/iputils/> . This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### jansson (2.4)

set of small useful utilities for Linux networking. The original download site for this software is : <http://www.digip.org/jansson/> . This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

#### jpeg (6b)

The 'libjpeg' library used for jpeg image decode. The original download site for this software is : <http://www.ijg.org/> . This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

#### jsonrpc (2.0)

Jsonrpc implements the parsing and validation of the jsonrpc/2.0 request before handing it over to user-defined methods. The original download site for this software is : <https://github.com/pijyoi/jsonrpc> . This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

#### libdwarf

Libdwarf is a library and a set of command-line tools for reading and writing DWARF2 and later debugging information. Libdwarf handles the details of the actual format so coders can focus on the content. The original download site for this software is : <https://sourceforge.net/projects/libdwarf/> . This piece of software is made available under the terms and conditions of the LGPL v2.1 license, which can be found below.

#### libelf (0.8.1.3)

The original download site for this software is : <http://www.mr511.de/software/> . This piece of software is made available under the terms and

conditions of the LGPL v2 license, which can be found below.

#### libiconv (1.11.1)

GNU libiconv is a conversion library. To convert between a given text encoding and the users encoding, or to convert between internal string representation (Unicode) and external string representation (a traditional encoding). The original download site for this software is : <http://www.gnu.org/software/libiconv> . This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### libnl (v3.2.29)

The original download site for this software is : <http://www.infradead.org/~tgr/libnl/> . This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### libusb (1.0.9)

The original download site for this software is : <http://libusb.sourceforge.net/> . This piece of software is made available under the terms and conditions of the LGPLv2.1 license, which can be found below.

#### libuv (libuv-v1.20.3)

The original download site for this software is : <https://libuv.org> . This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

#### libwebsockets (3.0)

The original download site for this software is : <https://libwebsockets.org/> . This piece of software is made available under the terms and conditions of the LGPL 2.1 license, which can be found below.

#### libxml2 (2.7.8)

Libxml2 is the XML C parser and toolkit developed for the Gnome project. The original download site for this software is : <http://www.xmlsoft.org/> . This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

#### lighttpd (1.4.35)

The original download site for this software is : <http://www.lighttpd.net/download/> . This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

#### liveMedia (2011.06.12)

The original download site for this software is : <http://www.live555.com> . This piece of software is made available under the terms and conditions of the LGPLv2.1 license, which can be found below.

#### lvm2 (2.02.89)

The original download site for this software is : <ftp://sources.redhat.com/pub/lvm2/releases/> .This piece of software is made available under the terms and conditions of the GPL 2.0/LGPLv2.1 license, which can be found below.

#### lz4 (1.8.1.2)

The original download site for this software is : [lz4.github.io/lz4/](http://lz4.github.io/lz4/) .This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

#### lzma (4.65)

The original download site for this software is : <http://www.7-zip.org/sdk.html/> .

#### mng (1.0.10)

Libmng -THE reference library for reading, displaying, writing and examining Multiple-Image Network Graphics.MNG is the animation extension to the popular PNG image-format. The original download site for this software is : <http://sourceforge.net/projects/libmng/files/> .This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

#### module-init-tools (3.12)

Linux userspace module loading utilities. The original download site for this software is : [https://modules.wiki.kernel.org/index.php/Main\\_Page](https://modules.wiki.kernel.org/index.php/Main_Page) .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### mtp (1.1.6)

The original download site for this software is : <http://libmtp.sourceforge.net/> .This piece of software is made available under the terms and conditions of the LGPLv2.1 license, which can be found below.

#### ncurses (5.7)

Provide character terminal processing library. The original download site for this software is : <http://www.gnu.org/software/ncurses/> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

#### net-tools (1.60)

A program contains network command. The original download site for this software is : <http://www.linuxfromscratch.org/blfs/view/6.3/basicnet/net-tools.html> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### nghttp2 (1.21.1)

nghttp2 is an implementation of Hypertext Transfer

Protocol version 2 in C. The original download site for this software is : <http://nghttp2.org> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

#### ntfs-3g (2010.5.22)

[ntfs-3g-1.5012.tgz/ntfs-3g-1.5012/libntfs-3g/attrib.c](http://ntfs-3g-1.5012.tgz/ntfs-3g-1.5012/libntfs-3g/attrib.c). The original download site for this software is : <http://www.tuxera.com/community/ntfs-3g-download/> .This piece of software is made available under the terms and conditions of the GPL 2.0/LGPLv2 license, which can be found below.

#### ntfsprogs (2.0.0)

C runtime library. The original download site for this software is : <http://sourceforge.net/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### ogg (1.3.2)

Libogg: a library for audiomixer, that can provide audio mixer. The original download site for this software is : <http://www.vorbis.com> .This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

#### openh264 (1.7.0)

Openh264 is a codec library which supports H.264 encoding and decoding. It is suitable for use in real time applications such as WebRTC. The original download site for this software is :<http://www.openh264.org> .This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

#### openssh (6.3p1)

Openssh is secure shell protocol version. The original download site for this software is : <ftp://ftp.openbsd.org/pub/OpenBSD/OpenSSH/portable/openssh-6.3p1.tar.gz> .This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

#### openssl (1.0.2g)

The original download site for this software is : <http://www.openssl.org/> .This piece of software is made available under the terms and conditions of the Apache License 1.0 / BSD License, which can be found below.

#### png (1.2.43)

libpng -THE reference library for reading, displaying, writing and examining png Image Network Graphics. The original download site for this software is : <http://sourceforge.net/projects/libpng/files/> .This piece of software is made available under the terms and conditions of the BSD license, which can be

found below.

#### popt (1.16)

The original download site for this software is : <http://packages.debian.org/> .This piece of software is made available under the terms and conditions of the Red Hat Software.

#### procmem (2.0)

The original download site for this software is : [https://github.com/babuneelam/procmem\\_linux\\_x86\\_port](https://github.com/babuneelam/procmem_linux_x86_port) .This piece of software is made available under the terms and conditions of the Apple Public Source License.

#### procps (3.2.8)

Command for watch system process. The original download site for this software is : <http://procps.sourceforge.net/index.html> .This piece of software is made available under the terms and conditions of the LGPLv2 license, which can be found below.

#### procrank (2.0)

The original download site for this software is : [https://github.com/csimmonds/procrank\\_linux](https://github.com/csimmonds/procrank_linux) .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### psmisc (22.13)

The original download site for this software is : <http://psmisc.sourceforge.net/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### pugixml (1.8)

The original download site for this software is : <http://pugixml.org/> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

#### python (2.7.9)

The original download site for this software is : <http://www.python.org/> .

#### qrencode (3.4.2)

The original download site for this software is : <https://fukuchi.org/works/qrencode/> .This piece of software is made available under the terms and conditions of the LGPLv2 license, which can be found below.

#### rlog (1.4)

The original download site for this software is : <http://www.arg0.net/rlog> .This piece of software is made available under the terms and conditions of the GPL 2.1 license, which can be found below.

#### rng-tools (5)

The original download site for this software is : <http://sourceforge.net/projects/gkernel/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### samba (3.0.37)

Samba is the standard Windows interoperability suite of programs for Linux and Unix. The original download site for this software is : <http://www.samba.org/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### sawman (1.5.3)

The original download site for this software is : <http://www.directfb.org> .This piece of software is made available under the terms and conditions of the LGPLv2 license, which can be found below.

#### sed (4.1.5)

The original download site for this software is : <http://www.gnu.org/software/sed/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### simple-mtpfs (0.2)

The original download site for this software is : <http://freecode.com/projects/simple-mtpfs> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### sqlite (3.8.4.3)

Implements a self-contained, serverless, zero-configuration, transactional SQL database engine. The original download site for this software is : <http://www.sqlite.org/> . This piece of software is made available under the terms and conditions of the LGPLv2.1 license, which can be found below.

#### sqlite3 (3.7.2)

Implements a self-contained, serverless, zero-configuration, transactional SQL database engine. The original download site for this software is : <http://www.sqlite.org/> . This piece of software is made available under the terms and conditions of the LGPLv2.1 license, which can be found below.

#### tar (1.17)

The original download site for this software is : <http://www.gnu.org/software/tar/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### thttpd (2.25b)

The original download site for this software is : <http://acme.com/software/thttpd/> .This piece of

software is made available under the terms and conditions of the BSD license, which can be found below.

#### toybox (0.4.0)

The original download site for this software is : <http://www.landley.net/toybox/downloads/toybox-0.4.0.tar.bz2> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### ttxfont (1.0)

The original download site for this software is : <http://linux.bytesex.org/xawtv/tvfonts/html> [Http://zapping.sourceforge.net/ZVBI/index.html](http://zapping.sourceforge.net/ZVBI/index.html) .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### uboot (2011.12)

The uboot will load the linux kernel to dram, and jump to run . The original download site for this software is : <http://www.denx.de> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### udhcp (0.9.9-pre)

Terminal device as a DHCP client. The original download site for this software is : <http://udhcp.sourceforge.net/downloads/0.9.8cvs20050303-3/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### unicode (3.2)

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#### uriparser (0.7.7)

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#### util-linux-ng (2.18)

util-linux is a random collection of Linux utilities. The original download site for this software is : <http://userweb.kernel.org/~kzak/util-linux-ng/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### webp (0.2.1)

libwebp: a library for browser, that can improve the performance of downloading image webp.txt's directory <http://teams.mediatek.inc/dtv/SSD/SS3/Tas/k%20Forces/Forms/AllItems.aspx?RootFolder=%2fdtv>

<http://code.google.com/p/webp/> .This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

#### wget (1.10.2)

Check network for http/https .The original download site for this software is : <http://ftp.gnu.org/gnu/wget/wget-1.10.2.tar.gz> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### wireless\_tools (v29)

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#### wpa\_supplicant (v0.8(wext)/v2.3(cfg80211))

Library used by legacy HAL to talk to wpa\_supplicant daemon.The original download site for this software is : [https://w1.fi/wpa\\_supplicant/](https://w1.fi/wpa_supplicant/) .This piece of software is made available under the terms and conditions of the LGPLv2.1 license, which can be found below.

#### xerces (3.1.1)

C runtime library. The original download site for this software is : <http://xerces.apache.org/> .This piece of software is made available under the terms and conditions of the Apache License Version 2.0, which can be found below.

#### zlib(1.2.3)

The 'zlib' compression library provides in-memory compression and decompression functions, including integrity checks of the uncompressed data. The original download site for this software is : <http://www.zlib.net/> .

#### Hue SDK (1.8.1)

TV ambihue app uses Philips SDK to find the hue bridge nameThe original download site for this software is : <https://developers.meethue.com/documentation/java-multi-platform-and-android-sdk>

#### Opera Web Browser (SDK 4.8.0)

This TV contains Opera Browser Software.  
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#### WebKit

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Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it  
possible they might get  
adopted in future versions?

Yes. The contract between the Gnome  
Foundation and Bitstream has  
provisions for working with Bitstream to ensure  
quality additions to  
the Bitstream Vera font family. Please contact  
us if you have such

additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see [www.fontconfig.org](http://www.fontconfig.org)) to handle font configuration, selection and substitution; it has provisions for overriding font names and substituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.

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<http://www.google.com/fonts/specimen/Open+Sans>

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libcurl  
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libcurl - lib/krb5.c  
URL: <https://github.com/bagder/curl/blob/master/lib/krb5.c>

/\* GSSAPI/krb5 support for FTP - loosely based on old krb4.c

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libcurl - lib/security.c  
URL: <https://github.com/bagder/curl/blob/master/lib/security.c>

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David M. Gay's floating point routines  
URL: <http://www.netlib.org/fp/>

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dynamic annotations  
URL: <http://code.google.com/p/data-race-test/wiki/DynamicAnnotations>

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Paul Hsieh's SuperFastHash

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google-glog's symbolization library

URL: <https://github.com/google/glog>

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URL: <https://github.com/google/open-vcdiff>

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License

Version 2.0,

January 2004

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ICU uses the public domain data and code derived  
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 for its time zone support. The ownership of the TZ  
 database is explained  
 in BCP 175: Procedure for Maintaining the Time  
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boxes and the like:

```
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```

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Glenn Randers-Pehrson  
glennrp at users.sourceforge.net  
November 12, 2015

libsrtp  
URL: <https://github.com/cisco/libsrtp>

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libvpx

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LZ4 - Extremely fast compression

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LZ4 Library

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That's all there is to it!

modp base64 decoder

URL: <https://github.com/client9/stringencoders>

\* MODP\_B64 - High performance base64  
encoder/decoder

\* Version 1.3 -- 17-Mar-2006

\* <http://modp.com/release/base64>

\*

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mt19937ar  
 URL: <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>

A C-program for MT19937, with initialization  
 improved 2002/1/26.

Coded by Takuji Nishimura and Makoto  
 Matsumoto.

Before using, initialize the state by using  
 init\_genrand(seed)  
 or init\_by\_array(init\_key, key\_length).

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Netscape Plugin Application Programming Interface  
 (NPAPI)

URL: <http://mxr.mozilla.org/mozilla-central/source/modules/plugin/base/public/>

Version: MPL 1.1/GPL 2.0/LGPL 2.1

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OpenMAX DL

URL: <https://silver.arm.com/download/Software/Graphics/OX000-BU-00010-r1p0-00bet0/OX000-BU-00010-r1p0-00bet0.tgz>

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opus

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OTS (OpenType Sanitizer)  
URL: <https://github.com/khaledhosny/ots.git>

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PLY (Python Lex-Yacc)  
URL: <http://www.dabeaz.com/ply/ply-3.4.tar.gz>

PLY (Python Lex-Yacc)  
Version 3.4

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Protocol Buffers  
URL: <http://protobuf.googlecode.com/svn/trunk>

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Quick Color Management System  
URL: <https://github.com/jrmuizel/qcms/tree/v4>

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re2 - an efficient, principled regular expression library

URL: <https://github.com/google/re2>

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sfntly

URL: <https://github.com/googlei18n/sfntly>

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Snappy: A fast compressor/decompressor

URL: <http://google.github.io/snappy/>

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x86inc  
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zlib  
URL: <http://zlib.net/>

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.4, March 14th, 2010

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url\_parse  
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

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12.2

## Meldungen

Sie können Meldungen erhalten, die Sie über neue, zum Download zur Verfügung stehende Fernsehersoftware oder über andere softwarebezogene Themen informieren.

So lesen Sie diese Meldungen:

- 1 - Drücken Sie , wählen Sie **Alle Einstellungen Settings** aus, und drücken Sie **OK**.
- 2 - Wählen Sie **Software aktualisieren > Ansage** aus, und drücken Sie **OK**.
- 3 - Wenn eine Ansage verfügbar ist, können Sie sie lesen oder eine der verfügbaren Ansagen auswählen.
- 4 - Drücken Sie gegebenenfalls mehrmals  (links), um das Menü zu schließen.

# Hilfe und Support

## 13.1

## Fehlerbehebung

### Einschalten

Der Fernseher lässt sich nicht einschalten.

- Trennen Sie das Stromkabel vom Netzanschluss. Warten Sie eine Minute, und schließen Sie das Stromkabel wieder an.
- Prüfen Sie, ob das Stromkabel sicher angeschlossen ist.

Es ertönt ein Knackgeräusch beim Ein- oder Ausschalten.

Beim Ein-/Ausschalten des Fernsehers oder beim Schalten in den Standby-Modus hören Sie ein Knackgeräusch im Gehäuse. Die Knackgeräusche sind normal und entstehen, wenn sich der Fernseher beim Aufwärmen oder Abkühlen dehnt. Dies hat keinen Einfluss auf die Leistung des Geräts.

Nach der Anzeige des Philips Startbildschirms wechselt der Fernseher wieder in den Standby-Modus.

Wenn sich der Fernseher im Standby-Modus befindet, wird ein Philips Startbildschirm angezeigt, und der Fernseher kehrt anschließend in den Standby-Modus zurück. Das ist normal. Wenn der Fernseher von der Stromversorgung getrennt und dann wieder angeschlossen wird, wird beim nächsten Einschalten des Geräts der Startbildschirm angezeigt.

Die Standby-Anzeige blinkt dauerhaft.

Trennen Sie das Stromkabel vom Netzanschluss. Warten Sie fünf Minuten, bevor Sie das Netzkabel wieder anschließen. Kontaktieren Sie das Philips Kundendienstzentrum, falls das Blinken erneut auftritt.

### Bild

Kein Bild/verzerrtes Bild.

- Prüfen Sie, ob die Antenne korrekt mit dem Fernseher verbunden ist.
- Prüfen Sie, ob das korrekte Gerät als Quelle für die Anzeige ausgewählt wurde.
- Prüfen Sie, ob das externe Gerät bzw. die externe Quelle korrekt angeschlossen ist.

Ton, aber kein Bild.

- Prüfen Sie, ob die Bildeinstellungen korrekt sind.

Schlechter Antennenempfang.

- Prüfen Sie, ob die Antenne korrekt mit dem

Fernseher verbunden ist.

- Lautsprecher, nicht geerdete Audiogeräte, Neonlicht, hohe Gebäude und andere große Objekte können die Empfangsqualität beeinträchtigen. Versuchen Sie, die Bildqualität zu verbessern, indem Sie die Ausrichtung der Antenne ändern oder den Abstand zu anderen Geräten vergrößern.

- Falls die Empfangsqualität nur bei einem Sender schlecht ist, nehmen Sie für diesen Sender eine Feinabstimmung vor.

Schlechtes Bild über ein Gerät.

- Stellen Sie sicher, dass das Gerät ordnungsgemäß angeschlossen ist.
- Prüfen Sie, ob die Bildeinstellungen korrekt sind.

Das Bild passt nicht auf den Bildschirm.

Wechseln Sie zu einem anderen Bildformat.

Die Position des Bilds ist nicht korrekt.

Die Bildsignale mancher Geräte passen u. U. nicht richtig auf den Bildschirm. Überprüfen Sie den Signalausgang des angeschlossenen Geräts.

Das Computerbild ist nicht stabil.

Prüfen Sie, ob Ihr PC die unterstützte Auflösung und die Wiederholrate verwendet.

### Ton

Kein Ton oder schlechte Tonqualität.

Falls kein Audiosignal erkannt wird, schaltet der Fernseher den Ton automatisch aus.

- Prüfen Sie, ob die Toneinstellungen korrekt sind.
- Prüfen Sie, ob alle Kabel korrekt angeschlossen sind.
- Prüfen Sie, ob die Lautstärke stummgeschaltet oder auf Null eingestellt ist.
- Prüfen Sie, ob der Audioausgang des Fernsehers mit dem Audioeingang am Home Entertainment-System verbunden ist.

Sie sollten Ton aus den HTS-Lautsprechern hören.

- Bei einigen Geräten müssen Sie die HDMI-Audioausgabe möglicherweise manuell aktivieren. Falls HDMI-Audio bereits aktiviert wurde, Sie aber immer noch kein Audiosignal hören, versuchen Sie, das digitale Audioformat des Geräts zu PCM (Pulse Code Modulation) zu ändern. Anweisungen hierzu finden Sie in der Dokumentation Ihres Geräts.

### Anschlüsse

#### HDMI

- Bitte beachten Sie, dass es bei HDCP-Unterstützung zu Verzögerungen bei der Anzeige von Inhalten von HDMI-Geräten über den Fernseher kommen kann.
- Falls der Fernseher das HDMI-Gerät nicht erkennt

und kein Bild angezeigt wird, schalten Sie erst auf ein anderes Gerät und anschließend wieder auf das ursprüngliche Gerät um.

- Wenn Tonunterbrechungen auftreten, prüfen Sie, ob die Ausgabeeinstellungen des HDMI-Geräts korrekt sind.

- Wenn Sie einen HDMI-auf-DVI-Adapter oder ein HDMI-auf-DVI-Kabel verwenden, muss ein zusätzliches Audiokabel an AUDIO IN (nur Minibuchse) angeschlossen sein.

**EasyLink funktioniert nicht.**

- Prüfen Sie, ob Ihre HDMI-Geräte HDMI-CEC-kompatibel sind. Die EasyLink-Funktionen können nur mit HDMI-CEC-kompatiblen Geräten verwendet werden.

**Es wird kein Lautstärkesymbol angezeigt.**

- Wenn ein HDMI-CEC-Audiogerät angeschlossen ist, ist dieses Verhalten normal.

**Fotos, Videos und Musik von einem USB-Gerät werden nicht angezeigt.**

- Stellen Sie das USB-Speichergerät wie in der Bedienungsanleitung beschrieben so ein, dass es mit der Klasse der Massenspeicher kompatibel ist.
- Prüfen Sie, ob das USB-Speichergerät mit Ihrem Fernseher kompatibel ist.
- Prüfen Sie, ob die Audio- und Bilddateiformate von Ihrem Fernseher unterstützt werden.

**USB-Dateien werden abgehackt wiedergegeben.**

- Die Übertragungsleistung des USB-Speichergeräts kann die Datenübertragungsrate zum Fernseher einschränken, was eine schlechte Wiedergabequalität zur Folge hat.

---

## WiFi, Internet und Bluetooth

**WiFi-Netzwerk wurde nicht gefunden oder ist gestört**

- Mikrowellenherde, DECT-Telefone oder andere Geräte mit WiFi 802.11b/g/n/ac in der Nähe können möglicherweise Störungen im WLAN-Netzwerk verursachen.
- Stellen Sie sicher, dass Sie über die Firewalls im Netzwerk Zugriff auf die kabellose Verbindung mit dem Fernseher erlauben.
- Wenn das kabellose Netzwerk nicht ordnungsgemäß funktioniert, testen Sie die kabelgebundene Netzwerkinstallation.

**Das Internet funktioniert nicht**

- Prüfen Sie, falls die Verbindung zum Router ordnungsgemäß funktioniert, die Verbindung des Routers mit dem Internet.

**Der PC und die Internetverbindung sind langsam**

- Informieren Sie sich in der Bedienungsanleitung des kabellosen Routers über die Reichweite in

Innenräumen, die Übertragungsrate und über die anderen Faktoren zur Signalqualität.

- Sie benötigen für den Router eine Hochgeschwindigkeitsverbindung (Breitband) zum Internet.

**DHCP**

- Wenn keine Verbindung hergestellt werden kann, überprüfen Sie die DHCP-Einstellung (Dynamic Host Configuration Protocol) des Routers. DHCP sollte aktiviert sein.

**Bluetooth-Verbindung unterbrochen**

- Orte mit hoher kabelloser Aktivität – Wohnungen mit vielen kabellosen Routern – können die kabellose Verbindung beeinträchtigen.

---

## Netzwerk

**WiFi-Netzwerk wurde nicht gefunden oder ist gestört**

- Mikrowellenherde, DECT-Telefone oder andere Geräte mit WiFi 802.11b/g/n/ac in der Nähe können möglicherweise Störungen im WLAN-Netzwerk verursachen.
- Stellen Sie sicher, dass Sie über die Firewalls im Netzwerk Zugriff auf die kabellose Verbindung mit dem Fernseher erlauben.
- Wenn das kabellose Netzwerk nicht ordnungsgemäß funktioniert, testen Sie die kabelgebundene Netzwerkinstallation.

**Das Internet funktioniert nicht**

- Prüfen Sie, falls die Verbindung zum Router ordnungsgemäß funktioniert, die Verbindung des Routers mit dem Internet.

**Der PC und die Internetverbindung sind langsam**

- Informieren Sie sich in der Bedienungsanleitung des kabellosen Routers über die Reichweite in Innenräumen, die Übertragungsrate und über die anderen Faktoren zur Signalqualität.
- Sie benötigen für den Router eine Hochgeschwindigkeitsverbindung (Breitband) zum Internet.

**DHCP**

- Wenn keine Verbindung hergestellt werden kann, überprüfen Sie die DHCP-Einstellung (Dynamic Host Configuration Protocol) des Routers. DHCP sollte aktiviert sein.

---

13.2

## Online-Hilfe

Um Probleme mit Ihrem Fernseher von Philips zu lösen, können Sie sich an unseren Online-Support wenden. Sie können Ihre Sprache auswählen und Ihre Produkt-/Modellnummer eingeben.

Besuchen Sie [www.philips.com/support](http://www.philips.com/support).

Auf der Support-Website finden Sie nicht nur Antworten auf häufig gestellte Fragen (FAQs), sondern auch die für Ihr Land relevante Telefonnummer, über die Sie uns kontaktieren können. In einigen Ländern können Sie sich mit Fragen direkt per Chat an einen unserer Partner wenden oder eine E-Mail schreiben.

Sie können neue Fernsehersoftware oder die Anleitung herunterladen und diese auf dem Computer lesen.

---

13.3

## Support und Reparatur

Support und Reparaturen erhalten Sie unter der Hotline des Service-Centers in Ihrem Land. Unsere Servicetechniker kümmern sich um eine Reparatur, falls erforderlich.

Die Telefonnummer finden Sie in der gedruckten Dokumentation, die Sie gemeinsam mit dem Fernseher erhalten haben.

Besuchen Sie alternativ unsere Website unter [www.philips.com/support](http://www.philips.com/support), und wählen Sie bei Bedarf Ihr Land aus.

### TV-Modellnummer und Seriennummer

Sie werden eventuell nach der Modell-/Seriennummer Ihres Geräts gefragt. Diese Nummern finden Sie auf dem Verpackungsetikett oder auf dem Typenschild an der Unter- oder Rückseite des Fernsehers.

### Warnung

Versuchen Sie nicht, den Fernseher selbst zu reparieren. Dies kann zu schweren Verletzungen, irreparablen Schäden an Ihrem Fernseher oder dem Verfall Ihrer Garantie führen.

# Sicherheit und Sorgfalt

## 14.1

### Sicherheit

#### Stellungnahme zur ESD-Deklaration

Während des Tests treten Flimmerstörungen auf dem Bildschirm auf, aber nach dem Test wird die automatische Wiederherstellung durchgeführt. Dieser zulässige Leistungsverlust wird vom Hersteller angegeben, und dieses Phänomen wird als klare Aussage im Benutzerhandbuch beschrieben, um Missverständnisse zu vermeiden.

#### Wichtig!

Lesen Sie alle Sicherheitsanweisungen gründlich durch, bevor Sie den Fernseher verwenden. Für Schäden, die durch Nichtbeachtung der Anweisungen verursacht wurden, haben Sie keinen Garantieanspruch.

Keine Änderung dieses Geräts ohne Genehmigung des Herstellers.

#### Risiko von Stromschlägen und Brandgefahr

- Setzen Sie den Fernseher niemals Regen oder Wasser aus. Platzieren Sie niemals Behälter mit Flüssigkeiten, wie z. B. Vasen, in der Nähe des Fernsehers. Wenn der Fernseher außen oder innen mit Flüssigkeit in Kontakt kommt, trennen Sie den Fernseher sofort vom Stromnetz. Kontaktieren Sie das Philips Service-Center, um den Fernseher vor der erneuten Nutzung überprüfen zu lassen.
- Setzen Sie den Fernseher niemals übermäßiger Hitze aus. Platzieren Sie sie nie in der Nähe von brennenden Kerzen, offenem Feuer oder anderen Wärmequellen. Dies schließt auch direkte Sonneneinstrahlung ein.
- Führen Sie keine Gegenstände in die Lüftungsschlitze oder andere Öffnungen des Fernsehers ein.
- Stellen Sie niemals schwere Objekte auf das Netzkabel.
- Stellen Sie sicher, dass der Netzstecker keinen mechanischen Belastungen ausgesetzt wird. Lockere

Netzstecker können Funkenüberschlag oder Feuer verursachen. Stellen Sie sicher, dass keine Zuglast auf das Netzkabel ausgeübt wird, wenn der Bildschirm gedreht wird.

- Um den Fernseher von der Stromversorgung zu trennen, muss der Netzstecker aus der Steckdose gezogen werden. Ziehen Sie dazu niemals am Kabel, sondern immer am Stecker. Stellen Sie sicher, dass der Zugang zum Netzstecker, Netzkabel und zur Steckdose jederzeit frei ist.

#### Verletzungsgefahr oder Beschädigungsgefahr für den Fernseher

- Stellen Sie bei einer Wandmontage sicher, dass die Wandhalterung für das Gewicht des Fernsehers geeignet ist. TP Vision übernimmt keine Haftung für unsachgemäße Wandmontage oder daraus resultierende Unfälle oder Verletzungen.
- Teile dieses Produkts sind aus Glas. Seien Sie vorsichtig, um Verletzungen oder Beschädigungen zu vermeiden.

#### Gefahr der Beschädigung des Fernsehers

Bevor Sie den Fernseher mit dem Stromnetz verbinden, sollten Sie sicherstellen, dass die Stromspannung dem auf der Rückseite des Geräts angegebenen Wert entspricht. Schließen Sie den Fernseher nicht an die Steckdose an, wenn die Spannung einen anderen Wert aufweist.

#### Stabilitätsgefahren

Der Fernseher kann herunterfallen und schwere Verletzungen oder Todesfälle verursachen. Viele Verletzungen, insbesondere bei Kindern, können durch einfache Vorsichtsmaßnahmen wie die Folgenden verhindert werden:

- Stellen Sie JEDERZEIT sicher, dass das Fernsehgerät nicht über den Rand der tragenden Möbel hinausragt.
- Verwenden Sie IMMER die vom Hersteller empfohlenen Gehäuse, Standfüße oder Befestigungen.
- Verwenden Sie IMMER Möbel, die den Fernseher sicher stützen können.
- Weisen Sie Kinder IMMER auf die Gefahren des Kletterns auf Möbelstücke hin, um den Fernseher oder die dazugehörigen Fernbedienungen zu erreichen.
- Verlegen Sie mit dem Fernseher verbundene Netzkabel und Kabel IMMER so, dass nicht an ihnen gezogen oder nach ihnen gegriffen werden kann und keine Stolpergefahr besteht.
- Stellen Sie den Fernseher NIE an einem instabilen Ort auf.

- Stellen Sie den Fernseher NIE auf hohe Möbelstücke (z. B. einen Schrank oder ein Bücherregal), ohne sowohl das Möbelstück als auch den Fernseher durch geeignete Hilfsmittel zu sichern.
- Stellen Sie den Fernseher NIE auf ein Tuch oder andere Materialien, die sich zwischen dem Fernseher und den entsprechenden Möbeln befinden.
- Stellen Sie NIE Spielzeug oder Fernbedienungen, die Kinder zum Klettern verleiten können auf das Fernsehgerät oder das Möbelstück, auf dem sich der Fernseher befindet.

Wenn Sie den Fernseher aufbewahren oder verlagern wollen, sollten die oben beschriebenen Maßnahmen berücksichtigt werden.

---

## Gefahr durch Batterien

- Verschlucken Sie die Batterie nicht. Verätzungsgefahr!
- Die Fernbedienung enthält möglicherweise eine Knopfzellenbatterie. Wenn die Knopfzelle verschluckt wird, kann sie in nur zwei Stunden zu schweren Verätzungen und zum Tod führen.
- Bewahren Sie neue und gebrauchte Batterien außerhalb der Reichweite von Kindern auf.
- Wenn sich das Batteriefach nicht sicher verschließen lässt, verwenden Sie das Produkt nicht mehr und bewahren Sie es außerhalb der Reichweite von Kindern auf.
- Wenn Sie denken, dass Batterien verschluckt oder in Körperöffnungen gesteckt wurden, suchen Sie umgehend einen Arzt auf.
- Es besteht Explosions- oder Brandgefahr, wenn die Batterie durch einen falschen Batterietyp ersetzt wird.
- Der Austausch einer Batterie durch einen falschen Batterietyp kann eine Sicherung außer Kraft setzen (z. B. bei einigen Lithiumbatterien).
- Die Entsorgung einer Batterie in einem Feuer oder heißen Ofen oder mechanisches Zerstoßen oder Schneiden einer Batterie kann zu einer Explosion führen.
- Wenn Sie eine Batterie in einer Umgebung mit extrem hohen Temperaturen aufbewahren, kann dies zu einer Explosion oder dem Austritt von brennbaren Flüssigkeiten oder Gasen führen.
- Wenn eine Batterie einem extrem niedrigen Luftdruck ausgesetzt ist, kann dies zu einer Explosion oder dem Austritt von brennbaren Flüssigkeiten oder Gasen führen.

---

## Risiko der Überhitzung

Platzieren Sie den Fernseher nie in einem geschlossenen Bereich. Der Fernseher benötigt einen Lüftungsabstand von mindestens 10 cm um das Gerät herum. Stellen Sie sicher, dass Vorhänge und andere Gegenstände die Lüftungsschlitze des Fernsehers nicht abdecken.

---

## Gewitter

Trennen Sie den Fernseher vor Gewittern vom Netz- und Antennenanschluss. Berühren Sie den Fernseher, das Netzkabel oder das Antennenkabel während eines Gewitters nicht.

---

## Gefahr von Hörschäden

Vermeiden Sie den Einsatz von Ohrhörern oder Kopfhörern bei hohen Lautstärken bzw. über einen längeren Zeitraum.

---

## Niedrige Temperaturen

Wenn der Fernseher bei Temperaturen unter 5 °C transportiert wird, packen Sie den Fernseher aus, und warten Sie, bis er Zimmertemperatur erreicht hat, bevor Sie ihn mit dem Netzanschluss verbinden.

---

## Luftfeuchtigkeit

In seltenen Fällen kann es je nach Temperatur und Luftfeuchtigkeit zu einer geringfügigen Kondensation an der Innenseite der Glasfront Ihres Fernsehers (bei einigen Modellen) kommen. Um dies zu vermeiden, setzen Sie den Fernseher weder direktem Sonnenlicht noch Hitze oder extremer Feuchtigkeit aus. Tritt dennoch eine Kondensation auf, geht sie von selbst zurück, wenn Sie den Fernseher einige Stunden verwenden.

Die Kondensationsfeuchtigkeit führt nicht zu Beschädigungen oder Fehlfunktionen des Fernsehers.

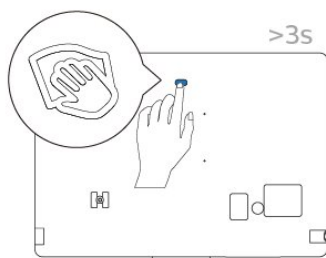
---

14.2

## Bildschirmpflege

- Berühren Sie den Bildschirm nicht mit Gegenständen, drücken oder streifen Sie nicht mit Gegenständen über den Bildschirm.
- Drücken Sie die Reinigungstaste an der Rückseite des Fernsehers. Sie muss 3 Sekunden lang gedrückt werden, um die Bedienelemente an der Vorderseite

des Fernsehers vor der Reinigung zu deaktivieren.



- Reinigen Sie den Fernseher und den Rahmen vorsichtig mit einem weichen feuchten Tuch. Verwenden Sie keine Substanzen wie Alkohol, Chemikalien oder Haushaltsreiniger.
- Um Verformungen und Farbausbleichungen zu vermeiden, müssen Wassertropfen so rasch wie möglich abgewischt werden.
- Vermeiden Sie nach Möglichkeit die Wiedergabe von Standbildern. Standbilder sind Bilder, die über einen längeren Zeitraum auf dem Bildschirm verbleiben. Dazu gehören beispielsweise Bildschirmmenüs, schwarze Balken und Zeitanzeigen. Wenn Sie Standbilder wiedergeben möchten, verringern Sie den Kontrast und die Helligkeit des Bildschirms, um ihn vor Beschädigungen zu schützen.

---

#### 14.3

## Erklärung zur Strahlenbelastung (nur bei integriertem WLAN)

Dieses Gerät entspricht den CE-Grenzwerten für die Strahlenbelastung in einer unkontrollierten Umgebung. Dieses Gerät sollte mit einem Mindestabstand von 20 cm zwischen der Strahlungsquelle und Körpern installiert und betrieben werden.

Die Frequenz, der Modus und die maximale Sendeleistung in der EU sind im Folgenden aufgeführt:

-2.400 bis 2.483,5 MHz: < 20 dBm (EIRP), nur für 2,4 G-Produkte.

-5150 bis 5250 MHz: < 23 dBm (EIRP)

-5250 bis 5350 MHz: < 23 dBm (EIRP)

-5470 bis 5725 MHz: < 27 dBm (EIRP)

-5725 bis 5825 MHz: < 13,98 dBm (EIRP)

# Nutzungsbedingungen

## Nutzungsbedingungen – Fernseher

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Versuchen Sie keinesfalls, den Fernseher selbst zu reparieren. Verwenden Sie Fernseher und Zubehör

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### Pixeleigenschaften

Dieser Fernseher verfügt über eine hohe Anzahl von Farbpixeln. Obwohl der Prozentsatz der funktionsfähigen Pixel mindestens 99,999 % beträgt, können auf dem Bildschirm permanent dunkle oder helle Lichtpunkte (rot, grün oder blau) vorhanden sein. Hierbei handelt es sich um eine bauartbedingte Eigenschaft der Anzeige (innerhalb allgemeiner Industriestandards) und nicht um eine Fehlfunktion.

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### Kensington

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