

PHILIPS

Automotive lighting

Catalog 2025-2026



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Safety you can see!

Our advanced light engine technology has been on the forefront of automotive lighting for more than 100 years.

As a **leading supplier** of lamps and lighting products to the automotive industry and after market, we combine technical innovations with a genuine concern for **safety** and driving comfort.

Our automotive lighting is today the choice of many consumers and major automobile manufacturers.

Our mission is to introduce **innovative products that** constantly improve road safety and increase workshop productivity. Our

products are designed to perform efficiently and durably for continuous **customer satisfaction**.

Many garages and workshops already appreciate our new range of professional LED work lights for their outstanding light output and robustness.

High-quality lighting really does make a difference.

That's safety you can see!



Original equipment quality

We are committed to producing **best-in-class products** and services in the Original Equipment Manufacturer (OEM) market and automotive aftermarket. Our products are manufactured from **high-quality materials** and tested

to the highest specifications to maximize **safety** and driving **comfort** of our customers.

- We are the **choice** of major car manufacturers

- Our lighting equips **one in two cars** in Europe and one in three in the world

- Manufacturing processes that **exceed** current industry **specifications**

Philips anti-UV-quartz glass for optimal lighting performance

All Philips quartz-glass lamps also offer a UV shield to protect your modern plastic optics from harmful UV rays.

- **More powerful light**

Quartz glass high resistance allows for increased pressure inside the lamp and thus generates more powerful light.

- **Better resistance**

Philips quartz glass lamps (filament at 2800°C and glass up to 800°C) are capable of withstanding severe thermal shocks.

- **Optimal protection**

against ultraviolet rays

All Philips quartz-glass lamps also offer a UV shield to protect your modern plastic optics from harmful UV rays.

Halogen



12V Car lighting



Which **car lamp** do you need?

Enhanced brightness



Up to **200%**
more brightness*

**RacingVision
GT200**



Beam
up to
+80 m***



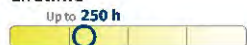
Beam performance *



Light color**



Lifetime**



Available in
H4, H7

Up to **150%**
brighter light*

**X-tremeVision
Pro150**



Beam
up to
+70 m***



Beam performance *



Light color**



Lifetime**



Available in
**H1, H4, H7, H11, HB3,
HB4**

Bright white
4000K
light

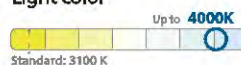
EssentialVision



Beam performance *



Light color**



Lifetime**



Available in
H4

Images for illustration purposes only.

* Compared to the minimum legal standard.

** Lifetime and color temperature differ per type, indication for H7 only.

*** Compared to derived minimum after ECE regulation, based on 1 Lux. farthest distance from car, applies to H4 and H7.

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Enhanced Brightness

Up to **30%**
more vision*

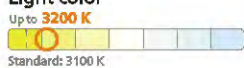
PremiumVision



Beam performance *



Light color**



Lifetime



Available in H1, H3, H4,
H7, HB3, HB4

Unique style



Bright white
4300K
light

CrystalVision



Beam performance *



Light color**



Lifetime**



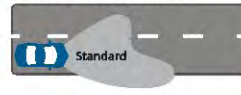
Available in
H1, H4, H7, H8, H11,
HB3, HB4

Ultimate white
5000K
light

DiamondVision



Beam performance *



Light color**



Lifetime**



Available in
H1, H3, H4, H7, H8, H11

12V car lighting

Halogen



RacingVision GT200

Incredible performance in a road-legal bulb

- Up to 200% brighter light* to transform your drive
- Extends your beam by 80 meters**
- Fully road-legal for an enjoyable drive

If you're passionate about driving, let Philips RacingVision GT200 car bulbs elevate your automotive experience. Up to 200% brighter light that shines over 80 meters longer means better vision and faster reactions for a more exciting drive.

* Compared to minimum legal standard.

** Compared to derived minimum after ECE regulation, based on 1 Lux. Farthest distance from the car.



Standard



RacingVision GT200



Available in B1



Available in



H4



H7



X-tremeVision Pro150

The best blend of high performance and lifetime

- See the road better with up to 150% brighter light*
- Longer lasting for a lifetime of safety**
- High-performance beam throws light 70 meters further***
- More contrast and visibility with cool light

Combining striking brightness with the kind of lifespan previously unavailable in such a high-performance bulb, Philips X-tremeVision Pro150 provides the visibility to keep you and your loved ones even safer on the road

* Compared to minimum legal standard. Applies to headlight bulbs.
 ** Lifetime differs per type. Indication for H7: up to 450 hours.
 *** Compared to derived minimum after ECE regulation, based on 1 Lux. Farthest distance from the car. Applies to H4, H7.



Standard



X-tremeVision Pro150



12V car lighting

Halogen

Available in B1



Available in



H1

H4

H7

H11

HB3

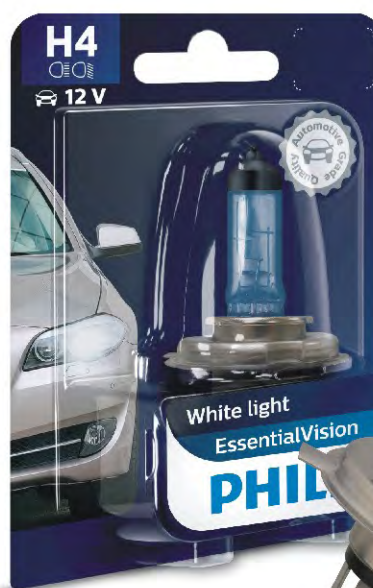
HB4



EssentialVision

Essential Vision

- Bright white light to stand out
- Longer beam than standard vision bulbs
- Ideal for all purpose driving
- UV blocking quartz glass



Standard



EssentialVision

Available in B1 packaging



Available in



H4

Images for illustration purposes only



PremiumVision

Up to 30%
more vision*

- **Competitive price-performance ratio**
- **High-quality and ultra-resistant car lamp**

Philips PremiumVision headlamps ensure excellent light-beam performance at a very **competitive price**.

*Compared to the minimum legal standard



12V car lighting

Halogen



Standard



PremiumVision

Available in C1 packaging



Available in



H1

H3

H4

H7

HB3

HB4

CrystalVision

4300K bright white light

- Bright white (4,300K) light to stand out
- Ideal for all-purpose driving
- No wiring / relays needed
- UV-blocking quartz glass

*Compared to the minimum legal standard



Standard



CrystalVision

Available in S2 packaging



Available in



DiamondVision

5000K ultimate white light

- Ultimate white (5,000K) light to stand out
- Ideal for city driving
- Easy Installation, plug and play
- No wiring / relays needed
- UV-blocking quartz glass

*Compared to the minimum legal standard



Standard



DiamondVision

Available in S2 and B1 packaging



Available in



Images for illustration purposes only



12V car lighting



Halogen

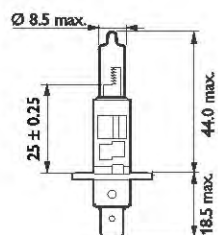
Which lamp for which **function**?





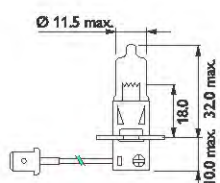
*Combines stop and rear parking light function

12V Halogen Range Index



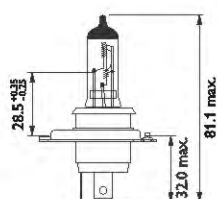
H1

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	QTY
Rally	12454RAC1	12V	100W	P14.5s	3200K	Box	1
PremiumVision	12258PRC1	12V	55W	P14.5s	3200K	Box	1
X-tremeVision Pro150	12258XVPB1	12V	55W	P14.5s	3400K	Blister	1
CrystalVision	12258CVSM	12V	55W	P14.5s	4300K	Twin	2
DiamondVision	12258DVB1	12V	55W	P14.5s	5000K	Blister	1



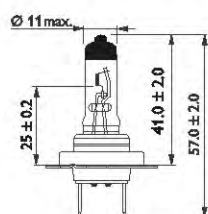
H3

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	QTY
Rally	12455RAC1	12V	100W	PK22S	3200K	Box	1
PremiumVision	12336PRC1	12V	55W	PK22S	3200K	Box	1
DiamondVision	12336DVB1	12V	55W	PK22S	5000K	Blister	1



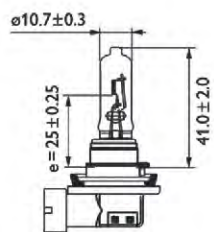
H4

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	QTY
Rally	12568RAC1	12V	100/90W	P45t-41	3200K	Box	1
	12569RAC1	12V	100/90W	P43t-38	3200K	Box	1
	12459RAC1	12V	130/100W	P43t-38	3200K	Box	1
EssentialVision	12569EVB1	12V	100/90W	P42t-38	3200K	Blister	1
PremiumVision	12343PRC1	12V	60/55W	P43t-38	3200K	Box	1
X-tremeVision Pro150	12342XVPB1	12V	60/55W	P43t-38	3400K	Blister	1
RacingVision GT200	12342RGTB1	12V	60/55W	P43t-38	3500K	Blister	1
CrystalVision	12342CVS2	12V	60/55W	P43t-38	4300K	Twin	2
DiamondVision	12342DVS2	12V	60/55W	P43t-38	5000K	Twin	2



H7

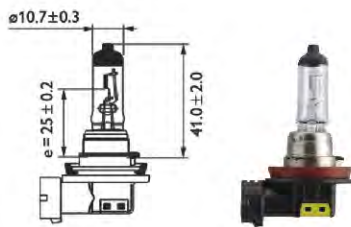
Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	QTY
Rally	12035RAC1	12V	80W	PX26d	3200K	Box	1
PremiumVision	12972PRC1	12V	55W	PX26d	3200K	Box	1
X-tremeVision Pro150	12972XVPB1	12V	55W	PX26d	3400K	Blister	1
RacingVision GT200	12972RGTB1	12V	55W	PX26d	3500K	Blister	1
CrystalVision	12972CVSM	12V	55W	PX26d	4300K	Twin	2
DiamondVision	12972CVB1	12V	55W	PX26d	5000K	Blister	1



H8

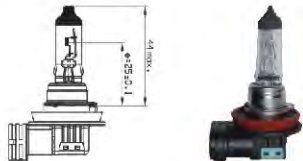
Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	QTY
Standard	12360C1	12V	35W	PGJ19-1	3200K	Box	1
CrystalVision	12360CVB1	12V	35W	PGJ19-1	4300K	Blister	1
DiamondVision	12360DVB1	12V	35W	PGJ19-1	5000K	Blister	1

12V Halogen Range Index



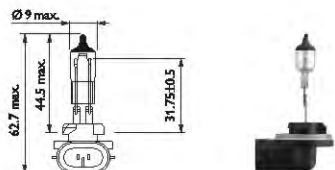
H11

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	QTY
Standard	12362C1	12V	55W	PGJ19-2	3200K	Box	1
X-tremeVslon Pro150	12362XVPB1	12V	55W	PGJ19-2	3400K	Blister	1
CrystalVslon	12362CVSM	12V	55W	PGJ19-2	4300K	Twin	2
DiamondVision	12362DVB1	12V	55W	PGJ19-2	5000K	Blister	1



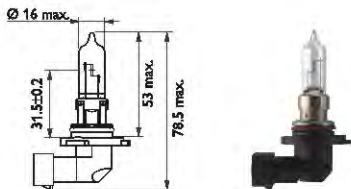
H16

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	QTY
Standard	12366C1	12V	19W	PGJ19-3	3200K	Box	1



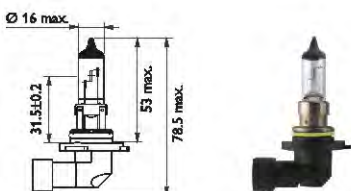
H27W/2

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	QTY
Standard	12060C1	12V	27W	PGJ13	3200K	Box	1



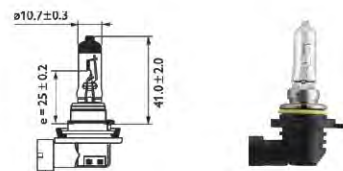
HB3

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	QTY
Rally	12359RAC1	12V	100W	P20d	3200K	Box	1
PremiumVision	9005PRC1	12V	65W	P20d	3200K	Blister	1
X-tremeVslon Pro150	9005XVPB1	12V	60W	P20d	3400K	Blister	1
CrystalVslon	9005CVB1	12V	65W	P20d	4300K	Blister	1



HB4

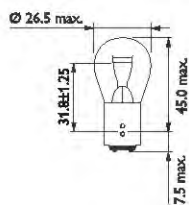
Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	QTY
Rally	12358RAC1	12V	70W	P22d	3200K	Box	1
PremiumVision	9006PRB1	12V	55W	P22d	3200K	Blister	1
X-tremeVslon Pro150	9006XVPB1	12V	51W	P22d	3350K	Blister	1
CrystalVslon	9006CVB1	12V	55W	P22d	4300K	Blister	1



HIR2

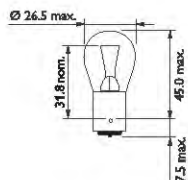
Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	Qty
X-tremeVslon Pro150	9012XVPB1	12V	55W	PX22D	3350K	Blister	1

12V Signalling Range Index



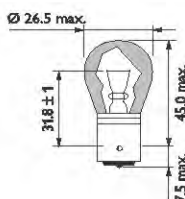
P21/5W

Range	Part No.	Volts	Watts	Base	Pack	Qty
Standard	12499CP	12V	21/5W	BAY15d	Box	10



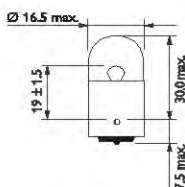
P21W

Range	Part No.	Volts	Watts	Base	Pack	Qty
Standard	12498CP	12V	21W	BA15s	Box	10



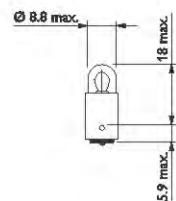
PY21W

Range	Part No.	Volts	Watts	Base	Pack	Qty
Standard	12496NACP	12V	21W	BAU15s	Box	10



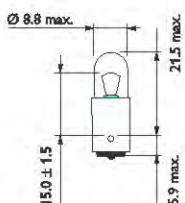
R10W

Range	Part No.	Volts	Watts	Base	Pack	Qty
Standard	12814CP	12V	10W	BA15s	Box	10



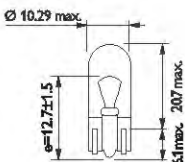
T2W

Range	Part No.	Volts	Watts	Base	Pack	Qty
Standard	12913CP	12V	2W	BA9s	Box	10



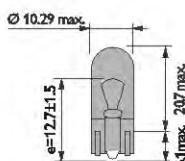
T4W

Range	Part No.	Volts	Watts	Base	Pack	Qty
Standard	12929CP	12V	4W	BA9s	Box	10



W5W

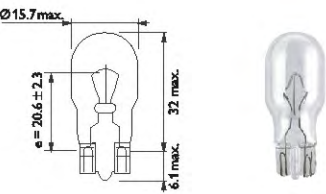
Range	Part No.	Volts	Watts	Base	Pack	Qty
Standard	12961CP	12V	5W	W2.1x9.5d	Box	10



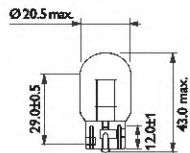
WY5W

Range	Part No.	Volts	Watts	Base	Pack	Qty
Standard	12396CP	12V	5W	W2.1x9.5d	Box	10

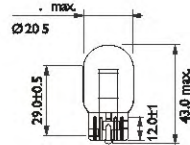
12V Signalling Range Index



W16W						
Range	Part No.	Volts	Watts	Base	Pack	Qty
Standard	12067CP	12V	16W	W2.1x9.5d	Box	10



W21W						
Range	Part No.	Volts	Watts	Base	Pack	Qty
Standard	12065B2	12V	21W	W3x16d	Blister	2



W21/5W						
Range	Part No.	Volts	Watts	Base	Pack	Qty
Standard	12066B2	12V	21/5W	W3x16d	Blister	2



12V car lighting

Halogen

Halogen



Two-wheeler lighting



Which **two-wheeler lamp** do you need?



Philips two-wheeler lighting is designed to resist **extreme vibration** - up to **10G**.

Enhanced brightness



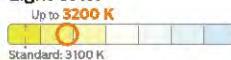
PremiumVision



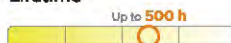
Beam performance



Light color



Lifetime**



Available in
HS1, M5

Unique style



Ultimate white **5000K** light

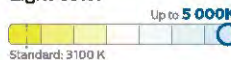
DiamondVision



Beam performance



Light color



Lifetime**



Available in
HS1

White light **3700K** upgrade

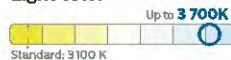
BlueVision



Beam performance



Light color



Lifetime**



Available in
HS1



Philips two-wheeler lighting is designed to resist extreme vibration - up to 10 G.

Images for illustration purposes only.

* Compared to the minimum legal requirement.

** Lifetime differs per type, indication for HS1 only.

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BlueVision

3700K white light upgrade with style

- Stylish blue coating
- Up to 3700K bright white light on the road
- Exclusive Gradient Coating™ technology
- Ultimate style

For riders seeking ultimate style, discover Philips BlueVision with its **3700K white light**.

This is the stylish lamp your customers have been waiting for!



Standard



BlueVision

Available in B1 packaging



Available in



HS1

PremiumVision

- Better performance*
- High-quality and ultra-resistant motorcycle lamp

Philips PremiumVision allows riders to see farther with improved light-beam performance at a very **competitive price**.

For greater safety, choose Philips Vision!

*Compared to the minimum legal standard



Standard



PremiumVision

Available in C1 packaging



Available in



HS1



BA20d



Two-wheeler lighting

Halogen

DiamondVision

5000K ultimate white light

- White light to be seen
- Vibration resistant
- UV-blocking quartz glass



Standard



DiamondVision

Available in B1 packaging



Available in



HS1



Which lamp for which function?



PremiumVision



BlueVision



DiamondVision



12342 12972 12636

H4 H7 HSI



Low beam - high beam



12961 12067 12065 12071

W5W W16W W21W WY21W



12814 12498 12496 12499

R10W P21W PY21W P21/5W



Front indicators



12929 12814

T4W R10W



12961 12067 12913

W5W W16W T2W



Front position light



12067 12066 12498 12499

W16W W21/5W P21W P21/5W



Stop light



12961 12066 12929 12814 12498 12499

W5W W21/5W T4W R10W P21W P21/5W



Rear position light



12961 12929 12814

W5W T4W R10W



Licence plate light



12961 12067 12065

W16W W21W WY21W



12814 12498 12496

R10W P21W PY21W



Rear indicators



Two-wheeler lighting

Halogen

LED Two-wheeler

lighting





Ultinon Essential moto LED

  Low/high beam

Stylish LED lighting that's easy to fit

- +100% brighter* light
- 6500 Kelvin sharp white light
- Effective heat management
- Excellent cooling performance
- Reliable Philips quality
- 1 years warranty

* Compared to the ECE minimum legal standard for halogen bulbs



1
year
warranty

Two-wheeler lighting

LED



Standard



Ultinon Essential moto LED



Available in X1 packaging



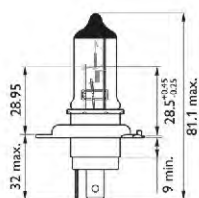
Available in



HS1

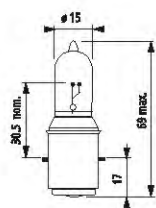
Images for illustration purposes only

12V Halogen Motorcycle Range Index



HS1

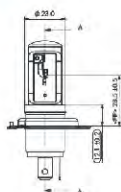
Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	QTY
PremiumVision	12636C1	12V	35/35W	PX43t	3200K	Box	1
BlueVision	12636BV81	12V	35/35W	PX43t	3700K	Blister	1
DiamondVision	12636DVB1	12V	35/35W	PX43t	5000K	Blister	1



M5

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	QTY
PremiumVision	12152C1	12V	35/35W	BA20d	3200K	Box	1

12V LED Motorcycle Range Index



HS1

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	Qty
Uttinon Essential moto LED	11636UEMX1	12V	6W	PX43T-38	6500K	Single	1

Halogen

24V

Bus and truck lighting



24V Standard

Built to last

- Longer life for greater reliability
- Vibration resistant
- Trusted OE quality
- UV-blocking quartz glass
- Comprehensive signaling range available



Available in C1 and CP packaging



Available in



24V EssentialPower

Original quality

- High wattage for better vision
- Vibration resistant
- UV-blocking quartz glass



Available in C1 packaging



Available in



Images for illustration purposes only



24V truck lighting

Halogen

Which lamp for which function?



24V Standard



24V
EssentialPower



24V Rally

philips.com/trucklight



H1 H3 H4 H7 D1S/R D2S D2R



Low beam - high beam



H1 H2 H3 H7



Front fog lights



T4W W5W



Interior lights



P21W PY21W



Front Indicators



R10W W5W



Side Indicators



R5W R10W T4W W5W



Running lights



R10W W5W



License plate lights



P21W P21/5W



Stop lights



P21W



Reversing light



P21/5W R10W



Rear position lights



P21W PY21W



Rear indicators



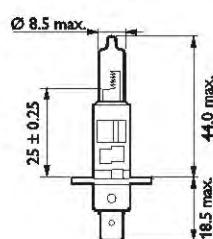
P21W



Rear fog lights

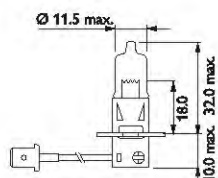


24V Halogen Range Index



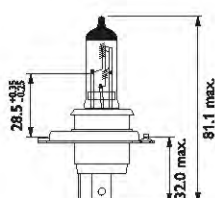
H1

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	QTY
24V Standard	13258C1	24V	70W	P14.5s	3200K	Box	1



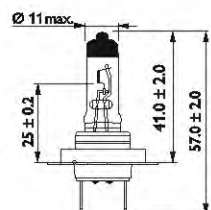
H3

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	QTY
24V Standard	13336C1	24V	70W	PK22s	3200K	Box	1



H4

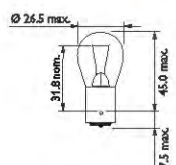
Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	QTY
24V Standard	13543C1	24V	100/90CP	P45t-41	3200K	Box	1
Rally	24568RAC1	24V	100/90W	P45t-41	3000K	Box	1
	24569RAC1	24V	100/90W	P43t-38	3000K	Box	1
Essential Power	24569ESC1	24V	100/90W	P43t-38	3000K	Box	1



H7

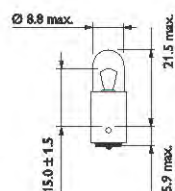
Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	Qty
24V Standard	13972C1	24V	70W	PX26d	3200K	Box	1

24V Signalling Range Index



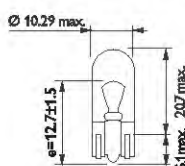
P21W

Range	Part No.	Volts	Watts	Base	Pack	Qty
24V Standard	13498CP	24V	21W	BA15s	Box	10



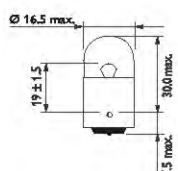
T4W

Range	Part No.	Volts	Watts	Base	Pack	Qty
24V Standard	13929CP	24V	4W	BA9s	Box	10



W5W

Range	Part No.	Volts	Watts	Base	Pack	Qty
24V Standard	13961CP	24V	5W	W2.1x9.5d	Box	10



R10W

Range	Part No.	Volts	Watts	Base	Pack	Qty
24V Standard	13814CP	24V	10W	BA15s	Box	10

*All kelvin figures quoted are up to and including the figure. Kelvin numbers may vary depending on bulb type

Xenon



Car lighting



Experience more light

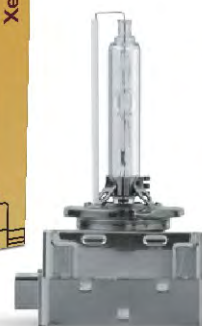
Xenon Standard

Ideal for replacement

- **Single-lamp replacement technology:** new lamp matches color temperature of the unchanged one
- Ideal economical solution for a single-lamp replacement
- **Homologated 4300 K**

Philips Xenon Standard allows drivers to replace a single burned-out lamp while **matching** the **color** of the unchanged one.

The Xenon Standard innovative replacement technology is the ideal economical solution for a single-lamp replacement.



Standard



Xenon Standard

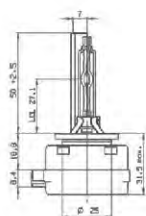
Available in C1 packaging



Available in

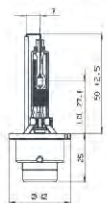


Xenon Range Index



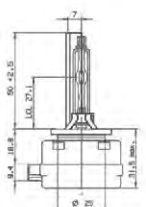
D1S

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	QTY
Standard	85415C1	85V	35W	PK32d-2	4300K	Box	1



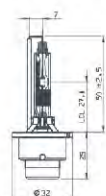
D2R

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	QTY
Standard	85126C1	85V	35W	P32d-3	4300K	Box	1



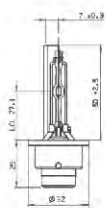
D3S

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	QTY
Standard	42403C1	42V	35W	PK32d-5	4300K	Box	1



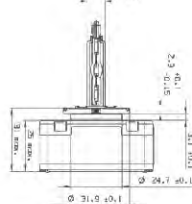
D4R

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	QTY
Standard	42406C1	42V	35W	P32d-6	4300K	Box	1



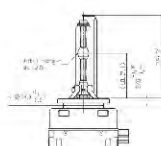
D4S

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	QTY
Standard	42406C1	42V	35W	P32d-6	4300K	Box	1



D5S

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	QTY
Standard	12410C1	12V	25W	PK32d-7	4300K	Box	1



D8S

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	QTY
Standard	12411C1	42V	25W	-	-	Box	1



LED

Car and truck

lighting



Which **LED Headlights** do you need?

Leading
innovation



Build around
long-life and
easy-to-install design

Ultinon Pro3021 HL



Beam performance *



Light color
Up to **6000 K**
Standard: 3100 K

Lifetime
Up to **2000 h**

Available in
LED-HL [≈H1], [≈H3], [≈H4],
[≈H7], [≈HB3/4],
[≈H11], [≈H8/H11/H16]

Experience **extremely**
powerful brightness

Ultinon Rally3550 HL

50 W



Beam performance *



Light color
Up to **6500 K**
Standard: 3100 K

Lifetime
Up to **1500 h**

Available in
LED-HL [≈H4/H19], [≈H7/H18],
[≈HB3/4], [≈H11],
[≈HIR2]

Direct-fit design
Plug-and-play
installation

Ultinon Access

6000
Kelvin



Beam performance *



Light color
Up to **6000 K**
Standard: 3100 K

Lifetime
Up to **1500 h**

Available in
LED-HL [≈H1], [≈H3], [≈H4/H19],
[≈H7/H18], [≈H11],
[≈HB3/4], [≈HIR2]
[≈H8/H9/H16]

Drive safely through
any weather

Ultinon WeatherVision

3500
Kelvin



Beam performance *



Light color
Up to **3500 K**
Standard: 3100 K

Lifetime
Up to **1500 h**

Available in
LED-HL [≈H1], [≈H3],
[≈H4/H19], [≈H7],
[≈H11], [≈HB3/4],
[≈HIR2], [≈H8/H9/H16]

Images for illustration purposes only.

* Compared to the minimum legal standard for halogen bulbs.

**Except for H1 and H3



It is your own responsibility to ensure
that the use of the LED retrofit lights complies
with applicable local legal requirements.

Which **LED Signalling** do you need?

Leading
innovation



Stunning illumination
**Brighter. Whiter.
Stronger.**

Ultinon Pro3100 SI



Comply with
ECE R37 lumen output
requirement

Light color

Up to **6000 K**



Lifetime

Up to **3000 h**



Available in
T10 [≈W5W]

LED car lighting

LED

Images for illustration purposes only.

* Compared to the minimum legal standard for halogen bulbs.

**Except for H1 and H3



It is your own responsibility to ensure
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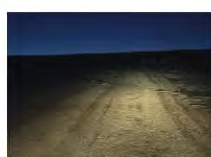


Ultinon Pro3021

Show the way forward with LED light



- Up to **6,000 K** white light
- Lifetime up to **2,000 hours**
- See and be seen
- **Lumileds LED chips** inside
- **SafeBeam technology** for glare-free driving
- Compact **all-in-one** design
- Powerful brightness
- **Plug-and-play** solution



Standard halogen



Ultinon Pro3021

Available in X2 packaging



Available in





Ultinon Rally 3550

Unleash the power of light High power for better vision

- High brightness with up to strong 50 W & 4500 lm*
- Stylish bright white light with up to 6,500 K
- Compact all-in-one design for plug-and-play use
- Reliable performance over strong lifetime of 1500 hours
- Disperse heat effectively with AirCool+
- Compatibility with cars and trucks

* Applies to H7, H11, HIR2, HB3/HB4. H4: 2600 / 4000 lm



Standard halogen



Ultinon Rally 3550

Available in X2 packaging



Available in



HL [≈H4/H19]



HL [≈H7/H18]



HL [≈H11]



HL [HB3/4]



HL [≈HIR2]

LED car lighting

LED



It is your own responsibility to ensure that the use of the LED retrofit lights complies with applicable local legal requirements.

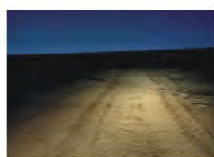


Ultinon Access

Upgrade. Drive. Enjoy.

- **Plug-and-play installation:**
as simple and fast to install as halogen bulbs
- **Direct-fit design:**
very compact body and integrated IEC 60061 compatible base
- **Better light performance:** up to +80% brighter light*
- Lifetime up to 1,500 hours
- Up to 6000 K color temperature for a cool white look

* Compared to the minimum legal standard for halogen bulbs.



Standard halogen



Ultinon Access

Available in X2 packaging



Available in





Ultinon WeatherVision

Drive safely through any weather



- Intelligent compact design, **easy to install / plug & play**
- **Better light-beam performance** than halogen
- **3500K** warmth of classic light
- **Reliable durability** helps to disperse heat effectively with **AirCool**
- **Lifetime up to 1,500 hours**



Halogen H4



Ultinon WeatherVision LED H4



Halogen H7



Ultinon WeatherVision LED H7



Philips Ultinon WeatherVision LED is designed to fit where halogen lamps fit: Same Mechanical footprint including the connector, and center ring. **Polarity free design.**



Standard halogen



Ultinon WeatherVision

Available in X2 packaging



Available in



HL [≈H1]



HL [≈H3]



HL [≈H4/H19]



HL [≈H7/H18]



HL [≈H8/H11/H16]



HL [≈H11]



HL [≈HB3/HB4]



HL [≈HIR2]



It is your own responsibility to ensure that the use of the LED retrofit lights complies with applicable local legal requirements.

LED car lighting

LED

Which **LED** for which function?



Headlights



Front fog lights



Front position/
parking lights



Dashboard lights



Interior lights

Uitdron Pro3021 HL



Uitdron Rally3550



Uitdron Access



Uitdron WeatherVision



Uitdron Pro3000SI



It is your own responsibility to ensure that the use of the LED retrofit lights complies with applicable local legal requirements.



Glove compartment lights



Trunk lights



License plate lights



SL-WHITE
[~W5W]

8000K



SL-WHITE
[~W5W]

8000K



SL-WHITE
[~W5W]

8000K



LED Headlight Range Index



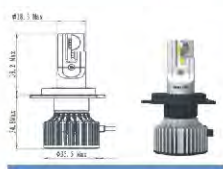
H1

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	Qty
Ultion Pro3021 HL	11258U3021X2	12V	18W	P14,5s	6000K	Twin	2
Ultion WeatherVision	11258U2510X2	12V	13W	P14,5s	3500K	Twin	2
Ultion Access	11258U2500CX	12V	20W	P14,5s	6000K	Twin	2



H3

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	Qty
Ultion Pro3021 HL	11336U3021X2	12V	18W	PK22s	6000K	Twin	2
Ultion WeatherVision	11336U2510X2	12V	13W	PK22s	3500K	Twin	2
Ultion Access	11336U2500CX	12V	13W	PK22s	6000K	Twin	2



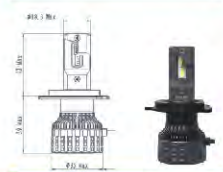
H4

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	Qty
Ultion Pro3021 HL	11342U3021X2	12V	20W	P43t	6000K	Twin	2



H4/19

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	Qty
Ultion WeatherVision	11342U2510X2	12/24V	20W	P43t	3500K	Twin	2
Ultion Access	11342U2500CX	12V	20W	P43t	6000K	Twin	2
Ultion Rally3550	11342U3550X2	12V	50W	P43t	6500K	Twin	2



H7

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	Qty
Ultion Pro3021 HL	11972U3021X2	12V	20W	PX26d	6000K	Twin	2



H7/18

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	Qty
Ultion WeatherVision	11972U2510X2	12	16W	PX26d	3500K	Twin	2
Ultion Access	11972U2500CX	12V	20W	PX26d	6000K	Twin	2
Ultion Rally3550	11972U3550X2	12V	50W	PX26d	6500K	Twin	2



LED Headlight Range Index



H11

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	Qty
Ultinon Rally3550	11362U3550X2	12V	50W	PGJ19-2	6500K	Twin	2
Ultinon Pro3021 HL	11362U3021X2	12V	20W	PGJ19-2	6000K	Twin	2
Ultinon WeatherVision	11362U2510X2	12V	20W	PGJ19-2	3500K	Twin	2
Ultinon Access	11362U2500CX	12V	20W	PGJ19-2	6000K	Twin	2



HB3/4

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	Qty
Ultinon Rally3550	11005U3550X2	12V	50W	P20d/P22d	6500K	Twin	2
Ultinon Pro3021 HL	11005U3021X2	12V	20W	P20d/P22d	6000K	Twin	2
Ultinon WeatherVision	11005U2510X2	12V	20W	P20d/P22d	3500K	Twin	2
Ultinon Access	11005U2500CX	12V	20W	P20d/P22d	6000K	Twin	2



HIR2

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	Qty
Ultinon Rally3550	11012U3550X2	12V	50W	PX22d	6500K	Twin	2
Ultinon WeatherVision	11012U2510X2	12V	20W	PX22d	3500K	Twin	2
Ultinon Access	11012U2500CX	12V	20W	PX22d	6000K	Twin	2



Fog - H8/11/16

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	Qty
Ultinon Pro3021 HL	11366U3021X2	12V	20W	PGJ19-1/3/5	6000K	Twin	2



Fog - H8/9/16

Range	Part No.	Volts	Watts	Base	Kelvin*	Pack	Qty
Ultinon WeatherVision	11366U2510X2	12V	20W	PGJ19-1/3/5	3500K	Twin	2
Ultinon Access	11366U2500CX	12V	20W	PGJ19-1/2/3	6000K	Twin	2

Signalling

**Ultinon
Pro3100 SI**



Ultinon Pro3100 SI



Stand out from the crowd

Signal your intent with brighter exterior lighting

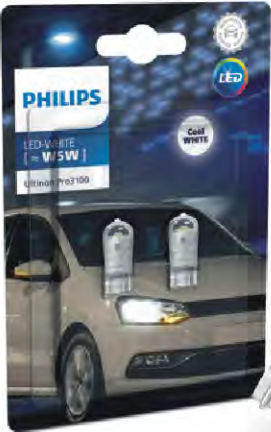
- 6000 K daylight effect
- Good light distribution
- Extremely durable with lifetime of 3,000 hours
- Simple plug-and-play replacement



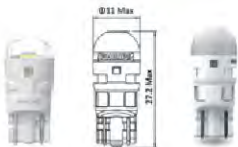
Available In B2 packaging



Available in



LED Signalling Range Index



T10 (W5W)

Range	Part No.	Volts	Watts	Base	Kelvin	Pack	Qty
Ultinon Pro3100 SI	11961CU31B2	12V	0.7W	W2.1x9.5D	6500K	Blister	2

LED car lighting

LED

Car Smart Aroma Diffuser



OlfaPure7000





OlfaPure7000 Series

Philips Car Smart Aroma Diffuser OP700/710

Select your scent
Enhance your mood



- Smart scent release avoids nose blindness
- Safer dry-air diffusion technology
- Portfolio of French-designed fragrances
- App controlled smart diffuser
- IFRA compliant functional scents
I.e, ANTI-V, Malodor removal and
relieving motion sickness.
- Stylish design, Easy maintenance
- Load 4 different scents at a time



Package Available in X1



OP700/OP710



Available in

Type	Part No.
OP700	OP700BLKX1
OP710	OP710BLKX1



OlfaPure7000 Series

Philips Aroma cartridge for OlfaPure 7000

Quality French-designed fragrances

Safe to breathe and use in car

The fragrances used by the OlfaPure 7000 have been tested to ensure compliance with the International Fragrance Association (IFRA) standards. This means the aroma ingredients were tested and the volume of essential oils is correctly controlled for safe use. Unlike many other synthetic disinfectants on the market, or topical application of pure oil, you can use the aromas with peace of mind, safely driving while enjoying beautiful aromatic scents.

All OlfaPure fragrances have an IFRA certificate.



Car Smart Aroma Diffuser

Aroma Cartridge Available in X1



Available in

Type	Part No.	Type	Part No.
BLACK CHERRY	AC100BLKX1	SOLARIUM	AC105BLKX1
JASMIN	AC101BLKX1	OCEAN BLISS	AC106BLKX1
CITRUS GARDEN	AC102BLKX1	MALODOR REMOVAL	AC107BLKX1
LAVENDER	AC103BLKX1	MOTION SICKNESS	AC108BLKX1
ORCHARD	AC104BLKX1	ANTI-V	AC109BLKX1

Car Air Purifier



Go*Pure*



Find the right **GoPure** for the car

GoPure Style series



	GoPure S7611	GoPure 5611 / 5612 / 5613	GoPure S3601/3602
Types of pollutants			
Air quality indication			
Filter type	SaniFilter Plus 130	SaniFilter Plus 100	SaniFilter Plus 60
Filter replacement indication			
App control			
Handy air quality display			
Fragrance dispenser			
HESA MAX for treatment of gases			
UVC module for anti-microbial			

GoPure 9000 series	GoPure 5000 series			GoPure 3000 series
--------------------	--------------------	--	--	--------------------



GoPure 9311	GoPure 5311	GoPure 5212	GoPure 5211	GoPure 3211
SelectFilter Plus 160*2	SelectFilter 120	SelectFilter 120	SelectFilter 120	SelectFilter 120

GoPure Car Air Purifier

GoPure Style





GoPure Style

GoPure style Car Air Purifier S7611

The stylish way to breathe clean air

- Captures 99.9% of particles as small as 0.004um*
- Compact design yet powerful dual fan filtration
- Natural essential oils deactivate 99% of airborne virus**
- Control device from an app
- Real-time air quality display
- Active antiviral aromas comply with IFRA safety standard
- Easy to use and install, with stylish design



Aroma Cartridge Available In



Forest Ocean Paperback Black Cherry



GPS7611



Available In

Type	Part No.
GPS7611	GPS7611BLKX1

* Tested SaniFilter Plus's particle 1-pass removal efficiency at IUTA laboratory in Germany

** Tested S7611 according to GB 21551.3-2010 and Technical Disinfection Standard at independent laboratory on virus (Phi-X174) removal at CHEARI laboratory, product installed with Aroma Forest

GoPure Car Air Purifier



GoPure Style

GoPure style Car Air Purifier 5611, 5612, 5613



Destroy airborne microbes Breathe healthy air

- Captures 99% of particles as small as 0.004um*
- UVC light destroys 99.9% of bacteria in 49s**
Destroys 99.999%* H1N1 virus***
- Toxin-free LED technology
- HESAMax neutralizes chemicals
- Neutralize formaldehyde & odor 24/7
- Filter replacement indicator
- Easy to use and install, with stylish design



GP5611



GP5612



GP5613



Available in

Type	Part No.
GP5611	GP561X1
GP5612	GP561SLX1
GP5613	GP561PNX1

* Tested in Germany on the SaniFilter Plus particle 1-pass removal efficiency

** Tested bacteria destroy rate at 3rd party lab according to GB15981-1995

*** Tested at 3rd party lab for H1N1 according to National Ministry of Health "Technical Standard For disinfection" 2002 version



GoPure Style

GoPure style Car Air Purifier S3601, S3602

Goodbye airborne microbes, Breathe healthy air



- Captures airborne particles, as small as 0.004um.*
- UVC eliminates 99.9% viruses**
- Toxin-free LED technology
- Cleans the air in just 30 mins***
- Easy to use and install, with stylish design



GPS3601



GPS3602



Available in

Type	Part No.
GPS3601	GPS360PTCX1
GPS3602	GPS360PTCX1

* Tested In Germany on the SaniFilter Plus particle 1-pass removal efficiency

** Tested virus removal rate (Influenza A and EV71), and bacteria germicidal effect (Escherichia coli and Staphylococcus aureus) at independent laboratory according to National Ministry of Health "Technical Standard For disinfection" 2002

*** It is a theoretical time for one-time cleaning calculated by dividing its airflow of 6m³/h by a mid-sized sedan car Interior air volume (3m³).



GoPure 9000 series





GoPure 9000 series

GoPure Power GP9311

The ultimate protection for your family



Advanced 4-way air sensing detects PM1, PM2.5, PM10 and gaseous pollutants.

- Laser particle sensor precisely detects harmful particles
- Smart sensor detects small changes in gases and smells

Powerful double-speed air purification

- Dual fan and filter design cleans the air in just 2 minutes*
- Advanced HESA technology effectively removes chemicals

Operates automatically

- Siri voice activated controls (iOS users only)
- Adjust filtration speed depending on the air



App enabled smart air purifier



- AirMatters app displays inside and outside air quality.
- Video guidance for installation, how to set up siri, how to replace and reset filters
- Display the status of the filter
- Get notified when it needs replacement
- Purchase replacement filters with just one click via the AirMatters smartphone app.
- Multiple language
- User manual

Compatibility:

- IOS - Requires iOS 9.0 or later. Compatible with iPhone 5s and above
- Android - For Android phone, Android 5.0 and above, Bluetooth 4.0 and above supported



Available in

Type	Part No.
GP9311	GP931X1



GoPure 5000 series

GoPure 5311

Removes 125 pollutants from the air you breathe

- Powerful and effective air filtration
- Real-time air quality tracking with 3-level color AQI
- Filter replacement indicator
- Stylish design, simple to install and easy to use



GP5311



Available in

Type	Part No.
GP5311	GP531BLKX1
GP5301	GP530BLPTCX1

* Tested according to GB/T18801:2015 in 3m³ chamber at 3rd party lab;
based on particle filtration speed to remove >50% of pollutants



GoPure 5000 series

GoPure 5211 and 5212

Enjoy healthy air cleaned from 100 pollutants

- Powerful and effective air filtration
- Real-time air quality tracking with 3-level color AQI
- Filter replacement Indicator
- Stylish design, simple to install and easy to use

8 min.
clean air*



Removes up to
125
Pollutants



GoPure 5212

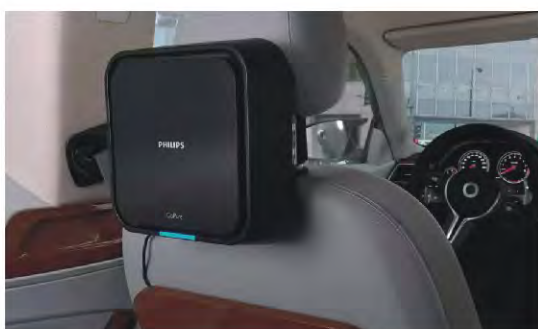
GoPure 5211



Available in

Type	Part No.
GP5211	GP521BLKX1
GP5212	GP523BLKX1

* Tested according to GB/T18801:2015 in 3m³ chamber at 3rd party lab;
based on particle filtration speed to remove >50% of pollutants





GoPure 3000 series

GoPure 3211

As essential as fresh air

- High air purification power
- Automatic switch on/off
- Easy operation
- Easy installation



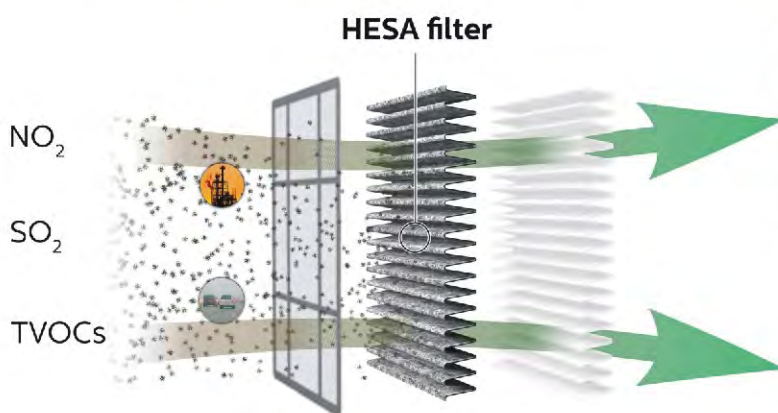
Available in

Type	Part No.
GP3211	GP321BLKX1

* Tested according to GB/T18801:2015 in 3m³ chamber at 3rd party lab; based on particle filtration speed to remove >50% of pollutants

Advanced HESA technology

What is HESA technology?



The High Efficiency Selective Absorption(HESA) is a unique, high-performance air purification technology that reduces the effect of unhealthy chemicals in the air for you and your family.

Philips HESA filter technology is designed to specifically target harmful gases and odors within your car. When air passes through the filter, the unique activated carbon treatment neutralizes even small molecule chemicals at very high efficiency. HESA was invented and applied to all GoPure air purifiers since 2009.

Why is HESA more effective?

More efficient

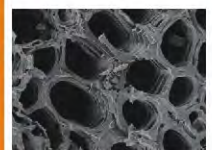
HESA technology specifically targets harmful gases and odor. It maximizes the absorption speed and capacity to purify harmful chemicals.

No 2nd chance pollution

HESA neutralizes even small molecule chemicals at very high efficiency. Harmful gases can not escape from the filter to cause 2nd chance pollution.

Higher capacity

HESA applies on premium grade porous material, at >1000°C pre-treatment. It forms more uniform structure for high capacity air filtration.

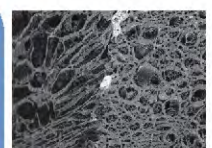


HESA technology

The common activated carbon technology absorbs a wide spectrum of gases. Thus, the efficiency and absorption capacity is not ideal.

When normal activated carbon comes to full capacity or at high temperature, the toxic gases will emit out to air again.

Common gas absorption material has non-uniform structure, low capacity and may contain heavy metals which is harmful for health.



Common activated carbon

ChemicalFilter Plus series

Breathe clean air, free from chemicals

- Quickly neutralizes toxic chemicals
- 2x faster formaldehyde removal
- Advanced HESA technology
- ChemicalFilter Plus 120-for GP 7000 series, GP6 GP5000 series and GP3000 series
- ChemicalFilter Plus 160- GP 9000 series



Available in



Available In

Type	Part No.
CFP120	CFP120X1
CFP160	CFP160X1

AllergyFilter Plus series

Breathe clean air, free from harmful allergens

- Removes 99.97% of allergens
- Inhibits growth of microorganisms
- Cleans the air 30% faster
- AllergyFilter Plus 120-for GP 7000 series, GP6000 series, GP5000 series and GP3000 series
- AllergyFilter Plus 160-for GP 9000 series



Available in



Available in

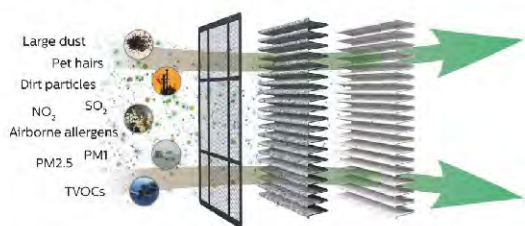
Type	Part No.
AFP120	AFP120X1
AFP160	AFP160X1

SelectFilter series

Breathe only healthy air in your car



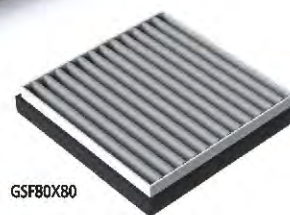
- HEPA/HESA dual filtration technology
- SelectFilter 80-for SlimLine series
- SelectFilter Plus 120-for GP7000 series, GP6000 series, GP5000 series and GP3000 series
- SelectFilter Plus 160-for GP9000 series



GSF160P135



GSF120P110



GSF80X80

Available In



GSF160P135



GSF120P110



GSF80X80

Available In

Type	Part No.
GSF160P	GSF160P135X1
GSF120P	GSF120P110X1
GSF80	GSF80X80X1

SaniFilter Plus 130

Advanced Filtration removes even tiny particles

- Captures 99.9% of ultrafine particles floating in the air inside your car, as small as 0.004um*
- For GoPure Style 7000 series

* SaniFilter Plus tested In Germany with particle 1-pass removal efficiency. Sizes of SARS-causing coronavirus and bacteria published by the World Health Organization (WHO) In Its 2008 Microbiological Risk Assessment Report.



Available in



Available in

Type	Part No.
SaniFilter Plus 130	SNF130X1

SaniFilter Plus 100/60

Advanced Filtration removes even tiny particles

- Captures 99% of ultrafine particles floating in the air inside your car, as small as 0.004µm*.
- **SaniFilter Plus 100 for GoPure 5611/5601**
SaniFilter Plus 60 for GoPure Style 3611/3601

* SaniFilter Plus tested in Germany with particle 1-pass removal efficiency. Sizes of SARS-causing coronavirus and bacteria published by the World Health Organization (WHO) in its 2008 Microbiological Risk Assessment Report.



SaniFilter Plus 60



SaniFilter Plus 100



Available in



Available in

Type	Part No.
SaniFilter Plus 100	SNF100X1
SaniFilter Plus 60	SNF60X1

Aroma cartridge

Choose your perfect scent

Ocean- the scent of a coastal drive
Forest- the scent of healthy air
Paperback-the scent of sophistication

- IFRA compliant for safe use
- Natural ingredients safe to use



Available in



Forest Ocean Paperback Black Cherry

Available in

Type	Part No.
Ocean	ARMO40X1
Forest	ARMF40X1
Paperback	ARMP40X1
Black Cherry	ARMB40X1



Car Thermal Box





Thermal box Adventure Range 7000 series

Philips Thermal box TB7501/TB7301/TB7101

Dual cooling and freezing on the go



Powerful temperature control

- Two compartments provide dual cooling and freezing
- Choose the proper temperature from a wide range
- Fast cooling and freezing keeps the item fresh
- Keeps items cool for 48 hours even with the power off

Versatile easy-to-use design

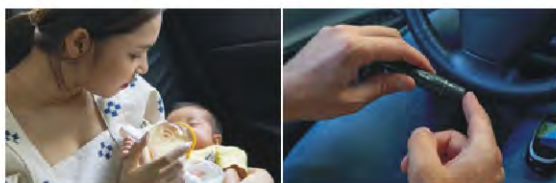
- Large storage capacity upto 55 liters (TB7501)/46 liters (TB7301)/37 liters (TB7101)
- Versatile design with reversable door, bottle opener, drain
- Dual modes for powerful cooling or energy saving
- Easy to use with touch control and LCD display

Built for tough road conditions

- Designed to withstand shakes and upto 40° tilt
- Prevents your car battery from draining
- Works safely with 12V cars and 24V trucks



Car Thermal Box



Packaging available in X1



Available in

Type	Part No.
TB7501	TB750X1
TB7301	TB730X1
TB7101	TB710X1



Thermal box Adventure Range 5000 series

Philips Thermal box TB5401/TB5201

Dual cooling and freezing on the go



Powerful temperature control

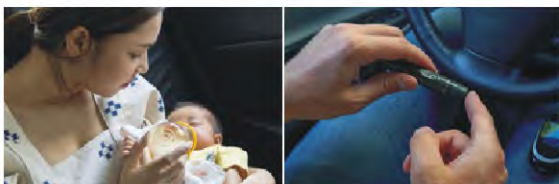
- Two compartments provide dual cooling and freezing
- Choose the proper temperature from a wide range
- Fast cooling and freezing keeps the item fresh
- Keep site ms cool for 48 hours even with the power off

Versatile easy-to-use design

- Large storage capacity upto 25 liters (TB5401)/18 liters (TB5201)
- Versatile design with reversable door, bottle opener, drain
- Dual modes for powerful cooling or energy saving
- Easy to use with touch control and LCD display

Built for tough road conditions

- Designed to with stand shakes and upto 40° tilt
- Prevents your car battery from draining
- Works safely with 12V cars and 24V trucks



Packaging available in X1



Available in

Type	Part No.
TB5401	TB540X1
TB5201	TB520X1



Thermal box Care Range

Philips Thermal box TB5301G/TB5101G

Dual cooling and freezing on the road

Powerful temperature control

- Two compartments provide dual cooling and freezing
- Choose the proper temperature from a wide range
- Fast cooling and freezing keeps the item fresh
- Keeps items cool for 48 hours even with the power off

Versatile easy-to-use design

- Large storage capacity upto 25 liters (TB5301G)/16.5 liters (TB5101G)
- Versatile design with reversable door, bottle opener, drain
- Dual modes for powerful cooling or energy saving
- Easy to use with touch control and LCD display

Built for tough road conditions

- Designed to with stand shakes and upto 40° tilt
- Prevents your car battery from draining
- Works safely with 12V cars and 24V trucks



Car Thermal Box



Packaging available in X1



Available in

Type	Part No.
TB5301G	TB530X1
TB5101G	TB510X1

Driving Video Recorder





GoSure 7101

Your personal guardian on the road

- **G-sensor collision detector secures vital video evidence**
- **4K 2160p captures road events in sharp detail**
- **Get an alert when the traffic light turns green**
- **Stop & Go reminder helps prevent frustrating accidents**
- **135° wide angle lens records up to three lanes of traffic**
- **Focus on driving with smart voice control**
- **Wireless connectivity via app**



Available in X1



Available in

Type	Part No.
GoSure 7101	GS710X1

GoSure 5101

Your personal guardian on the road

- **Stop & Go reminder helps prevent frustrating accidents**
- **G-sensor collision detector secures vital video evidence**
- **Automatic driver fatigue warning**
- **Connects to a rear camera for excellent video coverage**
- **Full-HD 1600p captures road events in sharp detail**
- **Captures clear details even in the dark**
- **135° wide angle lens records up to three lanes of traffic**
- **Focus on driving with smart voice control**



Available in X1



Available in

Type	Part No.
GoSure 5101	GS510X1

GoSure 3101

Your personal road safety guardian

- G-sensor detects collisions, triggering emergency mode
- Automatic driver fatigue alert warning
- Full-HD 1080p sharp image to capture major road events
- 132° angle coverage, recording up to 3 lanes of traffic
- Image sensor quality and F/2.0 lens for better night view



Available in X1



Available in

Type	Part No.
GoSure 3101	GS310X1



Driving Video Recorder

Battery Care

Car Jump Starter





Car Jump Starter

Philips Jump Starter JS3210

Bring car batteries back to life

Quickly and easily jump start a dead battery so you can complete your journey



- **Powerful jump start capability**
Lithium battery instantly starts 12V vehicles
Jump start up to 4.0L petrol and 3.0L diesel engines*
Powerful yet compact and portable design
- **8 safety features protect you and the device**
Built-in protection from accidental misuse
Protection from excessive voltage or current discharge
Dual temperature sensors protect device from overheating
- **Useful multi-function travel tool**
2 USB ports for charging phones, tablets and other devices
Equipped with 3-mode LED torch for use in the dark
- **Built-to-last automotive grade quality**
Battery stays charged for up to 2.5 years on standby**
Able to withstand accidental drops from 1 meter
Meets high standard of fire resistance (UL 94 V0)
Corrosion resistant clamps ensure good contact with electrodes
Operates at extremely low temperatures (-20°C)



JS3210



* Jump start ability monitored for 12V vehicle engine up to gasoline 4.0L with a fully charged device. Tested by in-house lab at 25°C/50RH, with vehicle battery connection removed. The age of the battery and the thickness of the oxide layer on the terminals can affect jump start performance.

** Tested at an in-house lab at 25°C/50RH, monitoring the battery and PCB consumption, resulting in a theoretical calculation of 2.7 years maximum standby time. Note: Different temperatures and humidity can affect standby time. The age of the battery and the thickness of the oxide layer on the terminal surface can affect the start-up performance.

Package Available in X1



Available in

Type	Part No.
JS3210	LUMJS3210X1

Lighting technology explained

www.philips.com/automotive

■ Asymmetrical beam pattern

An offset beam pattern for low-beam applications. Provides a longer beam in the lane of travel, which avoids blinding oncoming traffic.

■ Ballast

The electronic driver that controls a xenon HID bulb.

■ Base

Bottom part of the bulb which ensures a proper mechanical and electrical connection with the lamp unit of the car. Its precision is important for a correct beam pattern.

■ Board voltage

Electrical voltage in the board net of the vehicle. In cars, the operational voltage at the bulb connector typically varies between 13 and 14 volts (V). The official test voltage for halogen headlight bulbs is 13.2 V according to ECE R37. For trucks with a 24 V board net the test voltage is 28 V. The board voltage has a significant impact on filament bulb lifetime. In general, a 5% voltage increase reduces the lifetime by 50%.

■ Burner

Burner is the glass part of a halogen or xenon HID bulb in which the light emission is generated. It consists of hard or quartz glass and contains the filament and the two electrodes.

■ Candela (cd)

Unit of luminous intensity that measures the amount of luminous power emitted by a light source in a particular direction.

■ Color temperature

Thermal measure for light color. Derived from the color emitted by a "black body" which is heated up to a certain temperature (see also Kelvin).

■ Cut-off zone

The line between the bright and dark zones of low beam light. Above the cut-off zone the amount of light is limited in order to avoid blinding oncoming traffic.

■ D(...)

Nomenclature for xenon HID bulbs where **D** stands for "discharge." Available technical types: **D1S**, **D2R**, **D3S**, **D4S**, **D4R** and **D5S**.

D1 and **D2** First bulbs introduced in 1991

D3 and **D4** Mercury-free bulbs that replace D1 and D2

For D1 and D3, the electronic high-voltage starter is already integrated in the bulb base. The **S** type is used with projector (lens) systems. Version **R** is used in open reflectors and features an additional coating on the outer tube (pinstripe) which blocks out some areas to avoid glare.

The **D5S** is a 25-watt bulb with integrated starter and integrated ballast.

■ Discharge bulb

The correct, technical term of the so-called xenon bulb is **high-intensity discharge** bulb. The light is emitted by an electric arc which is produced between two electrodes.

See also HID and xenon light.

■ DOT

The United States Department of Transportation which oversees federal highway, air, railroad, maritime and other transportation administration functions. It fulfills a role similar to the Economic Commission for Europe (ECE).

■ DRL

Daytime Running Lights.

■ ECE

Economic Commission for Europe. One of five regional commissions of the United Nations (UN) based in Geneva that contributes to enhancing the effectiveness of the UN through the regional implementation of outcomes of global UN Conferences and Summits. The ECE is responsible for harmonizing technical specifications for vehicles whose regulations are also mandatory in many countries outside Europe.

■ ECE R

This stands for the ECE Regulation.

Examples for vehicle lighting:

R37 Filament lamps

R99 Gas-discharge light sources

R48 Installation of lighting and light-signaling devices

■ Electric arc

The connecting luminous discharge between the two electrodes of a xenon HID bulb. This is similar in principle to a bolt of lightning. The electric arc is created by the high-voltage starter and stabilized and controlled by the ballast.

■ Electrodes

Electrical conductors which are positioned opposite each other in the vessel of a xenon gas-discharge bulb.

The electric arc, which emits light, is produced between the electrodes.

■ E-mark

The ECE mark of approval. The digit following the "E" indicates in which country the approval has been granted. For example: E1 indicates Germany and E2 indicates France. An approval granted by one ECE member is valid for all member states and is typically adopted by national regulations. Single minor deviations are possible.

■ Festoon

A tube-shaped bulb with contacts at each end such as C5W, which is commonly used for interior and license plate lighting.

■ Filament

A coiled tungsten wire that emits light.

■ H(...)

Nomenclature for halogen bulbs. H = halogen.

The bulbs are numbered consecutively.

The most common types are:

H1 First halogen bulb (single filament).

H4 Double filament for both low beam and high beam application in one headlamp unit.

H7 Most common halogen bulb in Europe for low beam, high beam, and fog lighting.

■ Halogen

A gas that is used to create the halogen cycle process in a light bulb. During operation the tungsten molecules evaporate from the tungsten. In the cycle process they combine with the halogen molecules and fall back to the wire. This extends the lifetime of a bulb and allows operation at a higher intensity. Halogen bulbs contain a high-pressure halogen filling. Non-halogen incandescent bulbs often use a vacuum.

■ HB(...)

ECE name of original North American bulb types which were approved for use in Europe as well. For example:

HB3 refers to 9005 and HB4 refers to 9006.

■ Hg

Symbol for mercury (Latin: hydrargyrum). Xenon bulb types D1 and D2 still contain approximately one third of the amount of mercury as a normal domestic energy-saving bulb. D3, D4 und D5 are completely mercury free.

■ HID

High Intensity Discharge. Correct technical name for a so-called xenon bulb.

See also gas-discharge bulb, xenon light, xenon system.

■ High-voltage starter

Creates high-voltage pulses of approximately 20,000 volts to ignite the electric arc in a xenon HID bulb.

■ HiPerVision

Very compact signaling-bulb range with high-precision filaments and a long lifetime. For use in signaling lights, fog lamps, rear and daytime running lights.

■ Illuminance (lux)

Contrary to luminous flux (lumen), which is a measure of the total amount of light emitted by a light source, illuminance describes the amount of luminous flux per unit area, such as on the road. This is measured with a lux meter.

■ Kelvin (K)

A unit of measure of temperature based upon an absolute scale whereby zero (minus 273° C) represents the point where all thermal motion ceases. In lighting, however, this is a measure of color temperature. The higher the color temperature, the whiter and cooler the light appears.

■ LED

Light Emitting Diode.

■ Lifetime

Statistical data that indicate the failure rate of a percentage of bulbs operated at a specific voltage over a certain period of time. Common lifetime data indication:

B3 Time when statistically 3% of the test samples have failed

TC Time when 63% of the test samples have failed.

■ Luminance

The intensity of light emitted from a surface per unit area in a given direction from, for example, the filament or the electric arc of a xenon HID bulb. An important indicator of the amount of light a headlamp unit provides on the road. The unit is candela/m² (cd/m²).

■ Lumen (lm)

Unit of luminous flux.

■ Luminous flux (lumen)

The total amount of light that is emitted by a light source in all directions.

■ Lux (lx)

Unit of illuminance. 1 Lux = 1 lm/m².

See also Illuminance.

■ Lux meter

Illuminance measuring device.

■ Pb

Symbol for lead (Latin: plumbum).

All Philips automotive bulbs are **lead-free**.

■ Quartz glass

Temperature and pressure resistant glass for halogen and xenon HID bulbs. The glass also has a special coating to block out harmful ultraviolet (UV) light.

■ Tungsten

Filament and electrode material.

■ UV-block

Ultraviolet (UV) blocking glass absorbs the UV light created by the filament or the electric arc. UV block is mandatory for all ECE complying car bulbs because UV light can damage the plastic cover of the headlamp.

See also Quartz glass.

■ Wedge base

Bulb with a glass base, such as W5W. Mainly used for parking lights, side indicators and interior lighting.

■ Xenon (Xe)

One of the noble gases. Commonly used to refer to HID bulbs.

■ Xenon light

Headlights with HID bulbs.

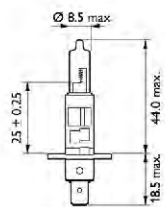
See also D(...), Discharge bulb, HID.

■ Xenon system

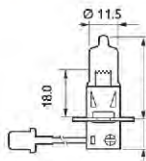
A complete xenon system consists of the HID bulb, the high-voltage starter and the electronic ballast which controls the electric arc.

Technical illustrations

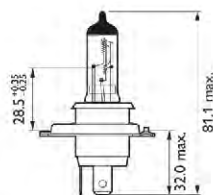
Lamps



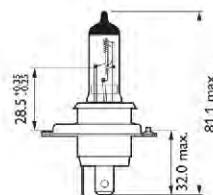
H1



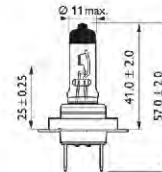
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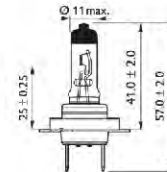
H4



H4/H19



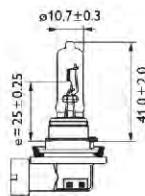
H7



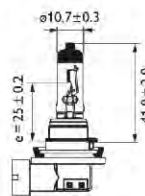
H7/H18



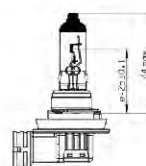
H8



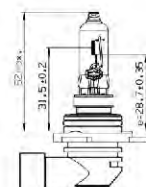
H9



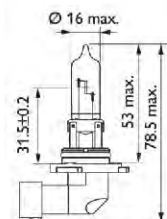
H11



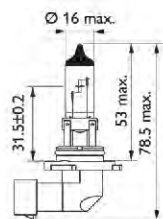
H16



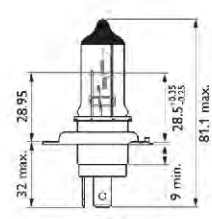
HIR2



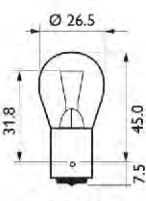
HB3



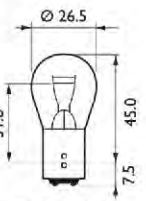
HB4



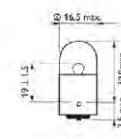
HS1



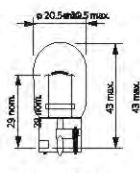
P21W



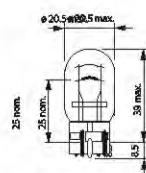
P21/5W



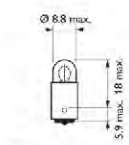
R10W



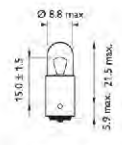
W21W



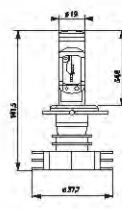
W21/5W



T2W-T3W



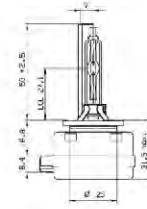
T4W



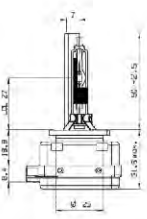
H4 LED



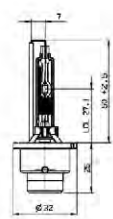
H8/H11/H16 LED



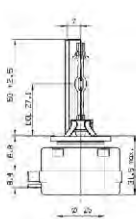
D1S



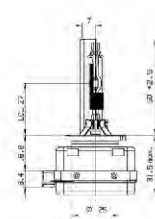
D1R



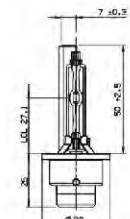
D2R



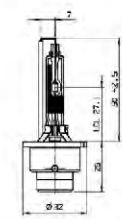
D3S



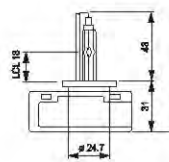
D3R



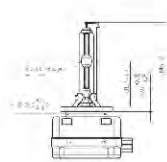
D4S



D4R



D5S



D8S

Understanding Philips ordering codes

All our automotive lighting products can be ordered using **Philips Order Entry**.

With Philips Order Entry you can identify the **lamp type**, the **product range** and the **packaging type**.

Example: **12972XVB1**, H7 X-tremeVision, single blister

12972	XV	B1
1/ Lamp type	2/ Range type	3/ Packaging type

1/ Lamp type

Every **lamp type** is designated by Philips with a unique number called lamp type.

- All 12V lamps start with 12 (for example: 12972 for H7 12V)
- All 24V lamps starting with 13 (for example: 13972 for H7 24V)

2/ Range type

Most lamp types are available in different product **ranges**.

These are indicated by a **color code**. The color code is used on ordering code

pages and on Which lamp for which function pages of each section, to indicate the availability of a lamp in a specific product range.

3/ Packaging type



Commercial pack
Material carton
Contents 1 lamp
Contents 10 lamps
Packaging type C1/CP



Single blister
Material carton/plastic
Contents 1 lamp
Packaging type B1



Double blister
Material carton/plastic
Contents 2 lamps
Packaging type B2



Special pack
Material plastic
Contents S2 2 lamps
Packaging type S2



Contents SM 4 lamps
(2 headlamps,
2 position lamps)
Packaging type SM



LED X1/X2 pack
Material carton/plastic
Contents X1 1 lamps
Contents X2 2 lamps
Packaging types X1/X2

Color code

	PremiumVision 30% extra light on the road	Range type PR
	X-tremeVision Pro150 150% brighter light	Range type XVP
	RacingVision GT200 Up to 200% more brightness	Range type RGT

	CrystalVision Bright white 4300K light	Range type CV
	DiamondVision Ultimate white 5000K light	Range type DV
	Standard	

Notes

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Notes

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