

TUNGSRAM™

Innovation is our heritage
EST. 1896



LED AUTOMOTIVE LAMPS

TUNGSRAM LIGHTING SOLUTIONS

WE ARE HERE TO SHINE

Claiming the Global Spotlight

Tungsrám, an iconic name, returned to the global market in 2018 as a premium innovative European technology brand.

Tungsrám's name has always been highly respected. The Tungsrám Group, based in Hungary, has been developing and manufacturing premium lighting products for residential, commercial and automotive applications for over a century.

Today, **Tungsrám Group** invests into future-safe technologies and dynamically growing global market segments such as smart solutions, smart cities and indoor farming while still strengthening its core lighting business.

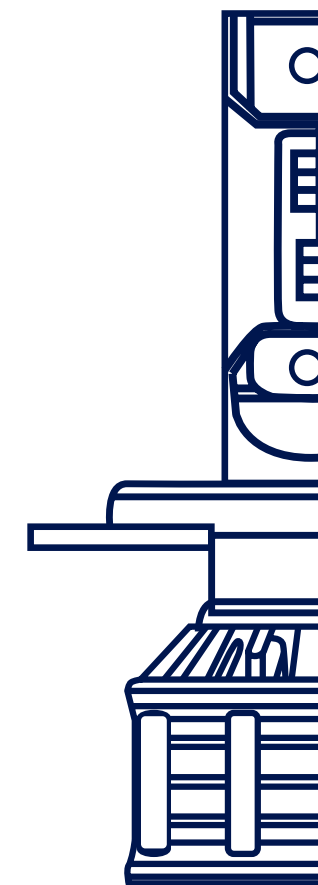
Tungsrám's automotive division has been meeting the highest quality standards for passenger cars and utility vehicles for more than half a century. Listed among the top three car lamp manufacturers globally, we are an established supplier of **OEMs** (Original Equipment Manufacturers) and a decisive player in aftermarket sales in major markets worldwide. We have long committed ourselves to improving visibility and road safety while also enhancing convenience and style.

CONTENTS

4 LED Retrofit Headlight lamps

16 LED Retrofit Miniature lamps

22 LED Inspection lamps





LED RETROFIT HEADLIGHT LAMPS

LED Retrofit headlight lamps

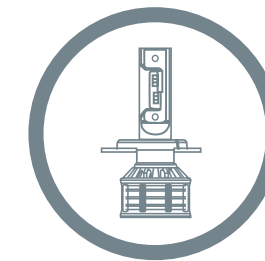
One of the easiest safety and styling adjustments you can make on your car is as simple as changing a light bulb. **Yes, upgrading your headlights - besides numerous other advantages can improve visibility, performance and style.**

The latest Tungsram LED Retrofit Headlight lamps are designed for **passionate people, looking for adventure, style and ultimate performance.** With state-of-the-art technology improvements and compact design, **LED lights provide you with many benefits.**

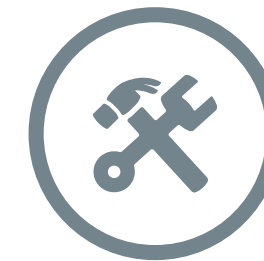
FEATURES



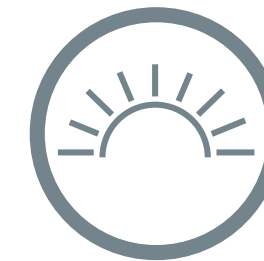
Superior visibility, comfort for the eye



Aesthetic design



Design for easy installation



Cool white light 6000K



Long-lasting, durable LED headlights

SUPERIOR VISIBILITY

Increase safety by making potential hazards more visible .

Because sensitivity curve of the human eye accommodated to night vision moves to shorter wavelength, it can see better using the spectrum of our LED product, increasing safety and comfort for the eye during night-time driving, when detection of signs and obstacles are more important than in daytime.

Due to current EU legislations, **LED Retrofit headlight lamps can only be used off-road, so before fitting them in your car, please always check your local regulations.**



PERFORMANCE

Since the luminous efficacy of LED is 4-5 times better than that of halogen, LED needs less power to reach the same optical performance, resulting in less fuel consumption.

A sharper and more precise beam pattern is achieved by the best possible geometrical and optical positioning for light emitting, further increasing style and safety, improving performance.

Furthermore, LEDs are durable and have a long lifespan, once installed, no more need for replacement results in less greenhouse gas emission.

TECHNOLOGY AT ITS BEST

Up to date automotive OEM grade LED chip ensures highest quality and output. Additionally, because LED is produced by a different technology the lifetime of LED bulbs is significantly longer. When it comes to LED retrofits, aesthetics and easy installation are also important.

Tungsrām LED Retrofit Headlights provide a stylish look together with superior brightness, additionally they are designed to have a removable optical disc, making installation easy.

In case your vehicle provides a failed lamp warning, or you experience unusual lamp behaviour, apply our warning canceller **CANBUS adapter** to avoid the warning signal.

The **adapter** is provided with click on taps for easy connection to the electric wiring. Make sure you apply one **adapter** for each lamp wiring separately.

Make sure to check headlamp dimensional requirements on the product packaging.

Sufficient light plays a critical role in safe driving, LED retrofit provides good visibility and conspicuity with an advantage of long operating life.

When you are driving, nothing can be more important than safety, not only should you see properly while driving, but you should also focus on being perfectly visible on the dark, foggy and rainy days by putting good, reliable light bulbs in your car.



MEGALIGHT LED GEN II

Up to 230% more light ahead

Type	Replacement	CCT (K)	W	Base	Pack unit	Fig.	SKU	EAN
61400	H1	6000	20	P14,5s	1/4/24 set	1	93120749	5994100094401
61410	H4	6000	20/20	P43t	1/4/24 set	2	93120752	5994100094388
61420	H7	6000	20	PX26d	1/4/24 set	3	93120753	5994100094395
61430	H8/H9/H11/H16	6000	20	PGJ19	1/4/24 set	4	93120750	5994100094616
61440	HB3/HB4	6000	20	P20d/P22d	1/4/24 set	5	93120751	5994100094371

WARNING CANCELLER

Type	W	Pack unit	Fig.	SKU	EAN
Canbus	55	1/4 pc	6	93117210	5994100056829

For 12V and 24V systems. Operation voltage 11-30V.

- Up to 230% more light ahead compared to halogen minimum legal requirements.
- Crisp bright light with 6000K colour temperature provides superior visibility.
- Stable light output and color temperature with excellent heat pipe temperature control.
- Premium projected light quality – best vision yet minimal glare.
- Compact design with integrated driver. Great fitting to small places.



MEGALIGHT LED +200

Up to 200% more light ahead, exceptional brightness

Type	Replacement	CCT (K)	W	Base	Pack unit	Fig.	SKU	EAN
60410	H1	6000	24	P14,5s	1/4/24 set	1	93115660	5994100044260
60430	H4	6000	24/24	P43t	1/4/24 set	2	93115173	5994100036173
60450	H7	6000	24	PX26d	1/4/24 set	3	93115175	5994100036197
60490	H8/H11	6000	24	PGJ19-1/2	1/4/24 set	4	93115662	5994100044284
60530	HB3	6000	24	P20d	1/4/24 set	5	93115664	5994100044307
60550	HB4	6000	24	P22d	1/4/24 set	6	93115676	5994100044529

MEGALIGHT LED +150

Up to 150% more light ahead, superior cooling design without fan

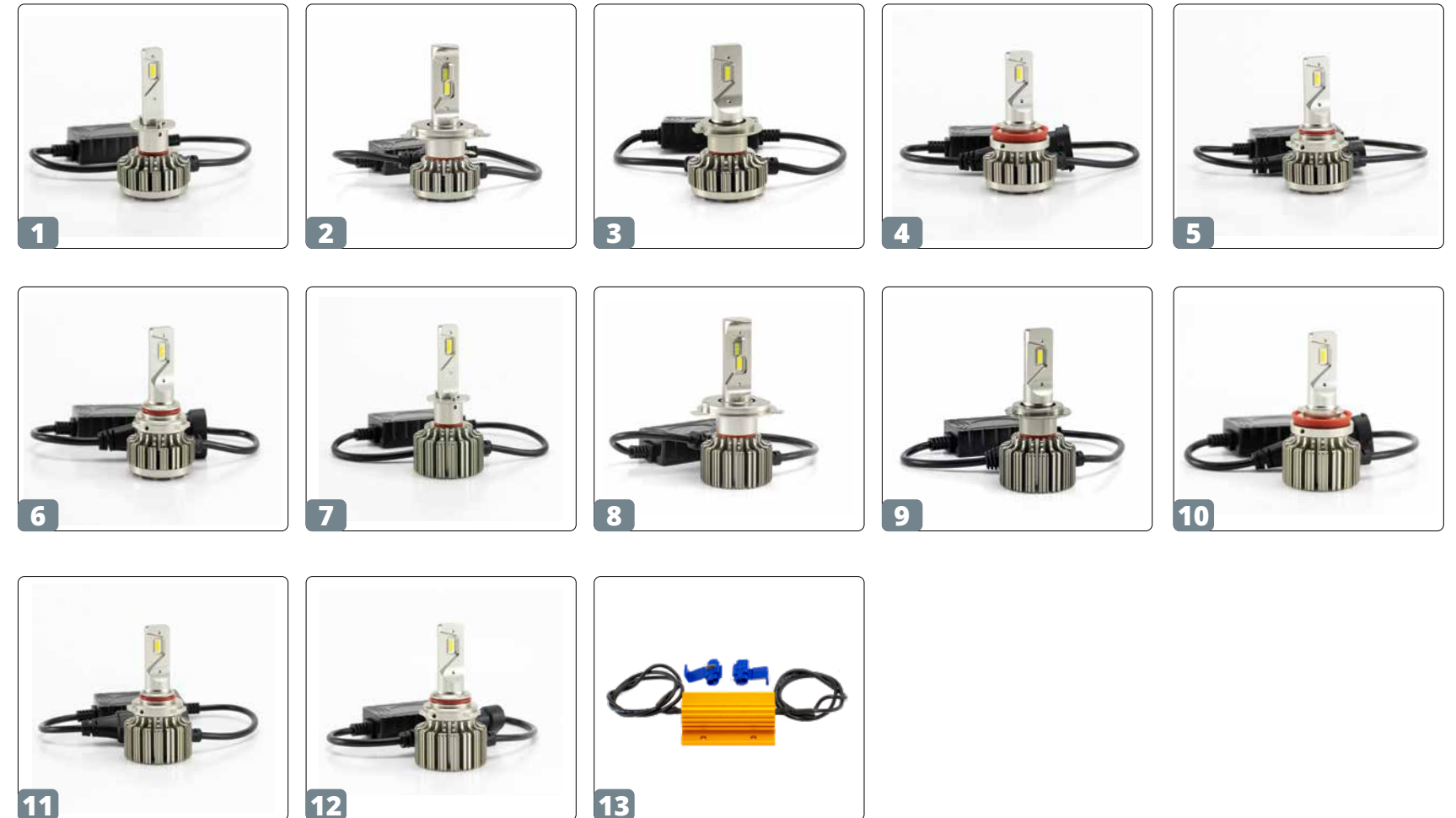
Type	Replacement	CCT (K)	W	Base	Pack unit	Fig.	SKU	EAN
60400	H1	6000	18	P14,5s	1/4/24 set	7	93115659	5994100044253
60420	H4	6000	18/18	P43t	1/4/24 set	8	93115172	5994100036166
60440	H7	6000	18	PX26d	1/4/24 set	9	93115174	5994100036180
60480	H8/H11	6000	18	PGJ19-1/2	1/4/24 set	10	93115661	5994100044277
60520	HB3	6000	18	P20d	1/4/24 set	11	93115663	5994100044291
60540	HB4	6000	18	P22d	1/4/24 set	12	93115665	5994100044512

WARNING CANCELLER

Type	W	Pack unit	Fig.	SKU	EAN
Canbus	55	1/4 pc	13	93117210	5994100056829

For 12V system. Operation voltage 10-20V.

- Up to 150/200% more light ahead compared to halogen minimum legal requirements.
- Crisp bright light with 6000K colour temperature provides superior visibility.
- Option of passive or active cooling to best fit your application.
- Operates on 12V systems.
- Lifetime: 6000h





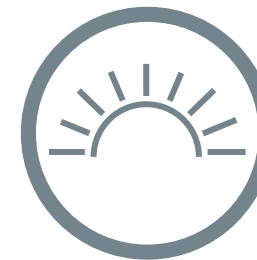
LED RETROFIT MINIATURE LAMPS

LED Retrofit Miniature lamps

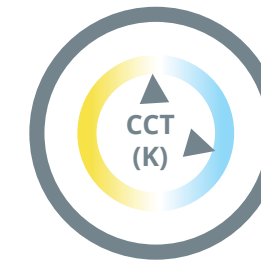
In times of increasing mobility people find themselves spending longer hours in their cars. In order to make lengthy periods of driving as pleasant as possible, apart from having the right external lighting, **it's also important to use high quality and efficient interior lights inside your vehicle.**

LED lamps have extended lifetimes and reliability with low energy, making them the obvious choice for a light source that is in use for longer periods of time. In addition to meeting the latest technology, LED light sources support the modern trends both in external and in interior lighting as well as **offering brighter and long-lasting alternatives to traditional bulbs.**

FEATURES



Bright light



White light
4000K or 6000K



Long lasting &
energy saving



Internal or off-road
external use only

EXTENDED LIFETIME, HIGH RELIABILITY

Tungsräm's latest LED Retrofit miniature portfolio includes external lamps like side turn signal lights, parking lights, stop lights, license plate lights, reverse lights and rear fog lights, as well as lamps for interior applications, providing a stylish look for your dashboard, glove compartment, trunk or overhead lighting, producing a white light and creating homogeneous illumination inside your car.



These energy-saving and long-lasting LED bulbs offer you a bright light with a color temperature of 4000 K or 6000 K, enhancing the appearance of your car interior, providing the benefits of significant comfort and convenience.

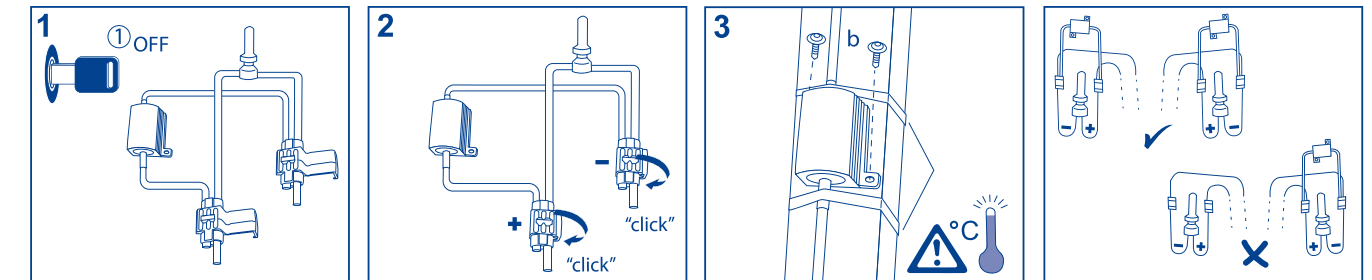
WARNING CANCELLER

In case your vehicle provides a failed lamp warning, or you experience unusual lamp behaviour, apply our warning canceller **CANBUS adapter** to avoid the warning signal.

The adapter is provided with click on taps for easy connection to the electric wiring. Make sure you apply one **adapter** for each lamp wiring separately.



Simplified wiring diagram showing the easy installation



Nowadays LEDs are more often seen as part of the aesthetics of a vehicle, their distinctive bright light make them very popular, their low power consumption, as well as high luminosity offer precise light with low maintenance.

Type	Replacement	CCT (K)	V	W	Base	Pack unit	FIG	SKU	EAN	Canbus type
60140	W3W, W5W	4000	12	0.5	W2.1x9.5d	1/10	1	93118393	5994100072546	5W
60200	C5W	4000	12	0.5	SV8.5-8	1/10	2	93108744	5994100010258	5W
60210	DIN72601K	4000	12	0.5	SV8.5-8	1/10	3	93095655	5994100006909	5W
60570	Festoon 28mm	4000	12	0.7	SV7	1/10	4	93116981	5994100054276	5W
60590	Festoon 31mm	4000	12	0.7	SV8.5-8	1/10	5	93116983	5994100054290	5W
60630	P21W	4000	12	3	Ba15s	1/10	6	93116985	5994100054818	21W
60650	P21/5W	4000	12	3/0.55	BAY15d	1/10	7	93117017	5994100054832	Main: 21W Minor: 5W
60690	W21W	4000	12	3	W3x16d	1/10	8	93117021	5994100054870	21W
60710	W21/5W	4000	12	3/0.55	W3x16q	1/10	9	93117023	5994100054894	Main: 21W Minor: 5W
60790	M5	4000	12	5	P15d-25-1	1/10	10	93117031	5994100054979	21W
60170	W3W, W5W	6000	12	0.5	W2.1x9.5d	1/10	1	93118392	5994100072539	5W
60230	C5W	6000	12	0.5	SV8.5-8	1/10	2	93108743	5994100011934	5W
60240	DIN72601K	6000	12	0.5	SV8.5-8	1/10	3	93095654	5994100006916	5W
60560	Festoon 28mm	6000	12	0.7	SV7	1/10	4	93116980	5994100054269	5W
60580	Festoon 31mm	6000	12	0.7	SV8.5-8	1/10	5	93116982	5994100054283	5W
60620	P21W	6000	12	3	Ba15s	1/10	6	93116984	5994100054306	21W
60640	P21/5W	6000	12	3/0.55	BAY15d	1/10	7	93117016	5994100054825	Main: 21W Minor: 5W
60680	W21W	6000	12	3	W3x16d	1/10	8	93117020	5994100054863	21W
60700	W21/5W	6000	12	3/0.55	W3x16q	1/10	9	93117022	5994100054887	Main: 21W Minor: 5W
60780	M5	6000	12	5	P15d-25-1	1/10	10	93117030	5994100054962	21W
60870	W16W	6000	12	2	W2.1x9.5d	1/10	11	93120767	5994100094340	21W
60660	P21W	RED	12	3	Ba15s	1/10	12	93117018	5994100054849	21W
60670	P21/5W	RED	12	3/0.55	BAY15d	1/10	13	93117019	5994100054856	Main: 21W Minor: 5W
60720	W21W	RED	12	3	W3x16d	1/10	14	93117024	5994100054900	21W
60730	W21/5W	RED	12	3/0.55	W3x16q	1/10	15	93117025	5994100054917	Main: 21W Minor: 5W
60930	PY21W	Amber	12/24	2.3	BAU15s	1/10	16	93120755	5994100094357	21W
60950	WY21W	Amber	12/24	2.3	W3x16d	1/10	17	93120766	5994100094364	21W
60980	WY5W	Amber	12	0.5	W2.1x9.5d	1/10	18	93120754	5994100094333	5W

WARNING CANCELLER

Type	W	Pack unit	Fig.	SKU	EAN
Canbus	5	1/4 pc	19	93117208	5994100056805
Canbus	21	1/4 pc	20	93117209	5994100056812

Whether you are looking for a stylish look or bright and long-lasting LED lighting, Tunsgam offers LED miniature automotive lamps for virtually every automotive external and interior lighting application.

Due to current EU legislations, LED retrofit miniature light bulbs can only be used internally or off-road only. Before fitting them externally on your car, please always check your local regulations.





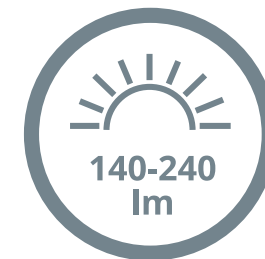
LED Inspection lamps

The most essential tool for carefree repair works provides you the most important support: for precise work, sufficient light is critical.

These days, bulbs hanging with an extension cord somewhere in your garage are way out of date, as modern mounting lamps can be **magnetically patched onto the body of the car with an output reaching up to 1000 lumens, helping you to accurately diagnose and fix a problem with your car.**

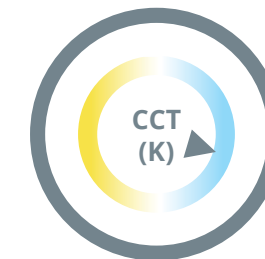
Tungram LED inspection lamps are high-quality hard-wearing tools, therefore they are **ideal for professional technicians to use in automotive garages and workshops, where additional illumination and exceptional brightness is needed.**

FEATURES

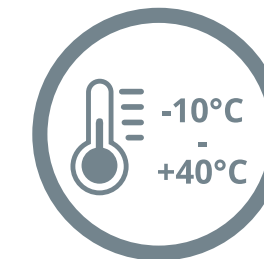


140-240
lm

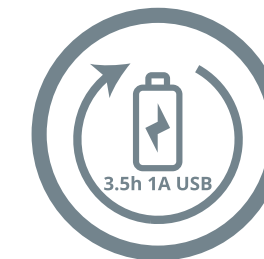
140 to 1000
lumens



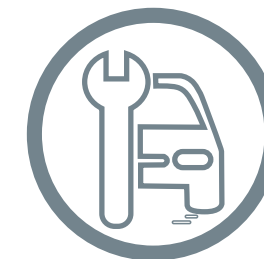
White light
5700K to 6000K



Operating
temperature between
-10 to +40 °C



Long lasting
rechargeable
lithium battery



Exceptionally
bright working
area

LED INSPECTION LAMPS

The larger one can provide 1000 lumens of light for up to three hours at a colour temperature of 6000 Kelvin and can be charged via USB or in its docking station using the AC/DC adapter included in the package.

The pocket-sized version provides up to 240 lumen output at 5700 Kelvin, with a maximum operating time of 7 hours, and can be charged with a USB cable.



Tungram LED inspection lamps incorporate hooks and magnets for ease of use, and are equipped with a long-lasting and rechargeable lithium battery. They can be used in a wide temperature range between -10 and +40 degrees, and they are a good choice when a bright working area with powerful illumination is required for professional repair works.

Type	CCT (K)	Lumens	Pack unit	Fig.	SKU	EAN
63000	6000	1000/500	1/12 pcs	1	93114126	5994100032113
63010	5700	240/140	1/12 pcs	2	93114055	5994100032120
63020	5700	500/100	1/10 pcs	3	93118049	5994100069713



Tungram's latest flexible LED inspection lamp offers even more comfort and efficiency while working inside hard to reach areas because the necessary light can be controlled and pointed more precisely onto the work area. It also has a 500 lumen output with 5700 Kelvin colour temperature providing professionals a bright light for up to 9 hours.

The inspection lamps have a casing with ingress protection level IP66, the flexible lamp has IP54, being resistant to dust and moisture.



TUNGSRAM™

TUNGSRAM GROUP

77. Váci út

1044 Budapest, Hungary

automotive.tungstram.com