

Original
BMW Accessories



Operating Instructions

Sheer Driving Pleasure

Driver Advice System



**Driver Advice System
Operating Instructions**

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General instructions

BMW recommends only using parts and accessories that have been tested and approved by BMW in relation to their safety, function and sustainability.

If you have any questions regarding the use of your BMW Driver Advice System, please contact your BMW Partner.

Please read these operating instructions carefully before using your BMW Driver Advice System.

The BMW Driver Advice System is a product that supports driving safety and comfort by displaying important vehicle and navigation information within your range of vision and, if necessary, providing audible warnings.

Symbols used



Denotes warnings that you must observe. ◀



Denotes instructions that draw your attention to special features. ▶



Denotes the end of the instruction.

Safety instructions



The BMW Driver Advice System displays distance information, collision and lane departure warnings and assists with traffic sign recognition, wandering attention and the use of high beams.



The BMW Driver Advice System does not actively intervene in your vehicle; it merely offers audible and visual assistance.



The failure of one or more BMW Driver Advice System assistants will have no impact on the vehicle's function.



Please do not use your smartphone while driving. To ensure you are not distracted while driving, settings on the BMW Driver Advice System can only be carried out when the vehicle is stationary.



Please note that additional roaming charges may be incurred abroad if you have enabled data roaming on your smartphone.

Product description

The BMW Driver Advice System is a product that has a modular structure and can also be used as such.

The main system comprises a camera and visual display with the associated BMW Driver Advice App.

Alternatively, the additional BMW Driver Advice Display or the BMW Head-Up Screen can be purchased for the display.

BMW Driver Advice System



The camera is installed and connected in the vehicle by the BMW dealer.

The camera is switched on when the ignition is switched on and switched off when the ignition is switched off.

The camera can also be switched on and off manually at the press of a button. The status is displayed by the ring-shaped LEDs around the push button.

Audio signals



A speaker on the camera serves as the source for the audible signals. The various sounds act as information or as

a warning.

The BMW Driver Advice System

issues warning signals when:

- there is a collision warning for objects (at 10 km/h up to 250 km/h) and pedestrians (up to 65 km/h)
- there is a lane departure warning (from 70 km/h)
- there is a safe distance warning (at 40 km/h up to 250 km/h)

The BMW Driver Advice System can also issue information signals for:

- Alertness warnings
- Recommendations to switch off the high beam headlights

Visual signals



The image source in the main system is the BMW Driver Advice App, which can be extended and / or replaced by the BMW Driver Advice Display and BMW Head-Up Screen.

The BMW Driver Advice System displays:

- Collision warnings for objects (at 10 km/h up to 250 km/h) and pedestrians (up to 65 km/h)
- there is a lane departure warning (from 70 km/h)
- there is a safe distance warning (at 40 km/h up to 250 km/h)

The BMW Driver Advice System can also issue information signals for:

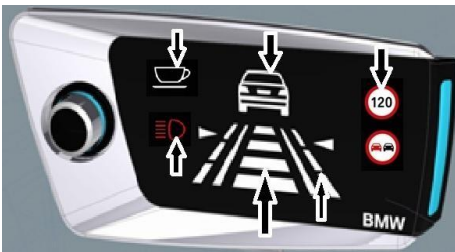
- Alertness warnings
- Recommendations to switch off the high beam headlights

If you have also purchased the BMW Driver Advice Display in addition to the BMW Driver Advice System, this display can be used to indicate functions.

The display can be adjusted by rotating it to the achieve the perfect viewing angle. To do this, release the positioning screw behind the display, move it to the desired position and tighten the screw again.

BMW Driver Advice Display

The settings for the display are adjusted using the turn-and-push button. To call up the settings, push the button. To select the settings, push the button. To select the functions, turn it. Pushing the button again activates the highlighted function. The various options are explained in “About the App” and are identical.



- 1 Controller for optimising the display position
- 2 Push-and-turn button for selecting and confirming the relevant functions
- 3 Collision warning for objects (at 10 km/h up to 250 km/h) and pedestrians (up to 65 km/h): the display lights up red in the event of a hazard for 3 seconds.
- 4 Lane departure warning for the left and right-hand lane (from 70 km/h): The corresponding lane marking flashes in the event of a hazard.
- 5 Safe distance information (at 40 km/h up to 250 km/h): the four bars light up green to red, depending on the situation.
- 6 Alertness assistant: the display lights up for 30 seconds in the event of

fatigue being detected.

- 7 High beam assistant: the display lights up for 3 seconds in the event a warning.



The notifications and warnings are (in some cases) represented in colour from GREEN (good), YELLOW (acceptable / dangerous) to RED (critical). Especially critical situations are also emphasised by flashing notifications.

Display brightness

The BMW Driver Advice System Display's brightness is adjusted automatically according to the brightness of the dashboard illumination in the car. It can also be adjusted manually via the dashboard illumination controls in the car or in the system settings of the BMW Driver Advice System.



Please take care not to set the display so bright that you are dazzled in dark conditions.

Cleaning

To clean the BMW Driver Advice System Display, we recommend using a soft, dry cloth. Do not use any other types of cleaning agent, since these can damage the product. For more stubborn dirt, we recommend moistening the cloth with a little water.

BMW Head-Up Screen

The alternative to the BMW Driver Advice System Display is the BMW Head-Up Screen (BMW HUS). If you have purchased this in addition to the BMW Driver Advice System, these two products can be linked.

The BMW Driver Advice System complements the functions of the BMW Head-Up Screen.



- 1 Procedure for opening up the screen
- 2 Reset button: The Head-Up Screen can be reset to its factory settings with a paper clip. You then simply need to sign back in using the factory WLAN access data
- 3 NFC (Near Field Communication) contact point: near field communication is an international transmission standard for the contactless exchange of data via radio technology across short distances of just a few centimetres. On smartphones that support NFC, you can launch the "Head-Up Screen" App

automatically.

Functions of the Head-Up Screen and pairing

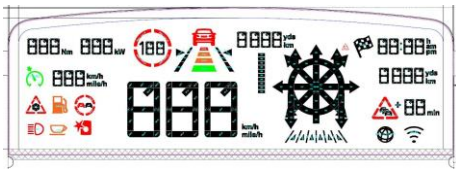
The vehicle data is displayed automatically as soon as the ignition is switched on. All other data is displayed as soon as navigation begins. The following system requirements are necessary to use the smartphone functions:

- iPhone 5S or later (BT 4.0 - Bluetooth Low Energy required)
- Android 4.4 or later (BT 4.0 - Bluetooth Low Energy required)

On your smartphone, install the free BMW "Head-Up Screen" App. You will find it in your respective App Store: iTunes (iOS) or Google Playstore (Android). Once installation of the "Head-up Screen" App is complete, you must connect your smartphone to the Head-Up Screen (WLAN). Switch your car's ignition on and fold the screen of the Head-Up Screen upwards. Under "WLAN" settings in your smartphone, find the WLAN access point with the SSID "Head-Up Screen" and connect to it. The default password is: "1234567890". A pure WLAN connection will not be displayed; only if the smartphone is communicating with the HUS via a TCP/IP connection also. To do this, the

HUS App must be launched and communication with the HUS must be active. If your smartphone does not connect automatically to the Head-Up Screen, switch your smartphone's screen on briefly after you have switched on your car's ignition.

Head-Up Screen display



- 1 Torque (Nm)
- 2 Power (kW)
- 3 Cruise control including set speed
- 4 Refuel warning, illuminates for 30 seconds from a range of 50 km or 29 mi
- 5 Black ice warning, illuminates for 30 seconds at temperatures below 3°C or 37°F
- 6 Speed limit
- 7 Distance until the next turning manoeuvre
- 8 Route and turning instructions
- 9 Navigation device lane assistant
- 10 Estimated time of arrival or remaining journey time
- 11 Distance to destination
- 12 Delay caused by traffic
- 13 WLAN connection to the smartphone / navigation device
- 14 Connection to live services (picture shows example)
- 15 High-beam headlight assistant, illuminates for 3 seconds if low beam is recommended

- 16 Alertness assistant, illuminates for 30 seconds if a break is recommended
- 17 Speed camera warning
- 18 Distance information
- 19 Lane departure and collision warning

Settings with the Head-Up Screen App

Various settings can be modified using the "Head-Up Screen" App (see figure).

Einstellungen



- 1 Speed adjustment: Fine-tuning of the speed display in the car. Depending on the vehicle type, it may be necessary to adapt the digital display on the Head-Up Screen to the behaviour of the speedometer's analogue pointer display
- 2 Adapting the brightness of the screen: In "Auto" mode, your Head-Up Screen adapts to the settings of the car's dashboard illumination. The brightness can also be customised here. Removing the tick next to "Auto" allows the display to be controlled completely independently of the car. Ensure that you are not dazzled in dark conditions:

- Changes to the brightness of the Head-Up Screen via the dashboard illumination control (will only take effect if the daytime driving light or low beam headlights are switched on). To coordinate the control range for the display brightness as effectively as possible, BMW recommends not setting the dashboard illumination to maximum, but rather to just slightly below it. To control the dashboard illumination, please see the instructions in your BMW Owner's Manual. Please take care not to set the display so bright that you are dazzled in dark conditions

- It is possible, if required, to apply the enclosed black rubber film onto the

side of the screen
facing the front
windscreen and thereby
rule out any possible
dazzle effect caused by
the headlights of
oncoming traffic. The
film can be removed
and re-applied as often
as necessary

- 3 Units: Select your desired setting
- 4 Switching on/off the Nm, kW display
- 5 Switching on/off the cruise control display
- 6 Switching on/off demo mode

- 7 Displaying all LED segments (test mode)
- 8 WLAN settings: Here you can modify your Head-Up Screen's WLAN settings. For security reasons, we recommend assigning a new password. Please note that you must then re-connect to the Head-Up Screen.
- 9 Starting the navigation system – Starting the navigation system manually. It is possible that your personal settings have been reset to the factory settings following an update to the "Head-Up Screen" App

Technical data for the HUS

Technical data for the HUS

- Transparent OLED display
- Screen dimensions: 125 mm x 42 mm
- Light density: Around 800 cd/m² (max. 1,100 cd/m²)
- Screen transparency: Around 55% (max. 65%)
- Operating temperature: -40°C ~ +95°C
- Ambient humidity: up to 90%

HUS operating temperature

If the Head-Up Screen exceeds the permissible operating temperature, your Head-Up Screen will only switch on when the ignition is switched on once the permitted internal temperature has been reached. This may take up to a few minutes under certain circumstances.

Cleaning and care of the HUS

To clean the Head-Up Screen, we recommend using a soft, dry cloth. A suitable microfibre cloth is included in the supplied package. Do not use any other types of cleaning agent, since these can damage the product. For more stubborn dirt, we recommend moistening the cloth with a little water.

Installation Commissioning



The BMW Driver Advice System is activated automatically when the ignition is switched on. As soon as the ignition is switched on, settings can be made to the BMW Driver Advice System while the car is stationary.

The following system requirements are necessary to use the smartphone functions:

- iPhone 5S or later (BT 4.0 - Bluetooth Low Energy required)
- Android 4.4 or later (BT 4.0 - Bluetooth Low Energy required)



Install the free BMW Driver Advice System App on your smartphone. You will find it in the appropriate App Store: iTunes (iOS) or Google Playstore (Android).

Pairing a smartphone with the BMW Driver Advice System

Once the BMW Driver Advice System App has been installed successfully, you must pair your smartphone with the BMW Driver Advice System via Bluetooth.

Switch your vehicle's ignition on. Enable "Bluetooth" on your smartphone and launch the BMW Driver Advice System App. If your smartphone does not connect to the BMW Driver Advice System automatically, click on "BMW DAS" in the list. You will then see the start screen.

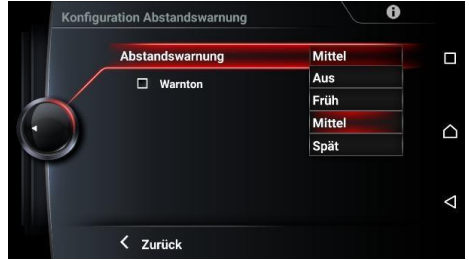
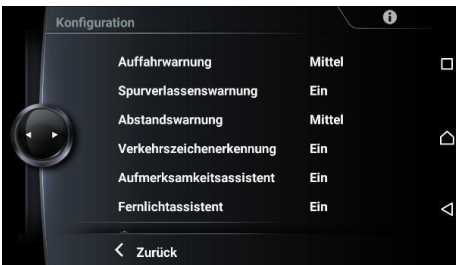
Settings

The settings can be made via the BMW Driver Advice System App and via the BMW Driver Advice System Display.

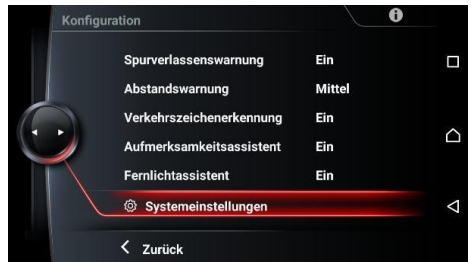
About the App

The Settings selector button on the left-hand side takes you to the Settings level for the individual functions.

For all functions (other than traffic sign recognition), the warning sound can be switched ON or OFF by placing a tick next to it.



- Collision warning: Select the level of sensitivity you wish to have: EARLY, MEDIUM, LATE or OFF
- Lane departure warning: Select the level of sensitivity you wish to have: EARLY, MEDIUM, LATE or OFF
- Distance warning: ON/OFF
- Alertness assistant: ON/OFF
- High beam assistant: ON/OFF



- System settings: Select your

preferred language, adjust the
brightness of the screen, restore
factory settings

About the display

The settings for the display are adjusted using the turn-and-push button. To call up the settings, push the button. To select the functions, turn it. Pushing the button again activates the highlighted function. The individual options have already been explained in “About the App” and are identical.

Updates

If the firmware is enhanced in the future and an update becomes available, you will receive a message on your smartphone as soon as you connect. If you wish to install the update, confirm with “OK”. This process can take up to 8 minutes.



Before an update of the BMW Driver Advice System App is carried out, the smartphone must be set to Flight mode, since otherwise incoming calls would interfere with or interrupt the update.



It is possible that your personal settings have been reset to the factory settings following an update

Operation with an incoming call



Please do not use your smartphone while driving.

If a call comes in, your mobile telephone will automatically switch to the “incoming call” display. The BMW Driver Advice System App will remain active in the background. Switching to the BMW Driver Advice System

- App during the call is only possible through manual intervention and does not occur automatically. When the call is finished, your mobile phone automatically switches back to the BMW Driver Advice System App.

Technical data

- Camera: 1/3” 1,280 x 720 p
- Processor: 2 x 500 MHz
- Connection: BT 4.0 – Bluetooth Low Energy
- Vehicle connection: CAN
- Sound output: Buzzer
- Operating voltage: 12 V
- Operating temperature: -40°C ~ +80°C

to the BMW Driver Advice System

App.

◀
BMW recommends checking the
settings to ensure they are
displaying the information and audio
signals you want after every update.

BMW Driver Advice Assistant functions

Collision warning

The collision warning helps to minimise the risk of collision accidents and reduce the consequences of accidents. If there is a risk of collision, the driver will be warned in good time with visible and audible signals. The multi-function camera mounted to the front windscreen in the area of the rear-view mirror can recognise vehicles and objects that cut into view and whose distance reduces significantly. Up to a speed of 65 km/h, standing objects and crossing pedestrians are detected.

The collision warning function is limited when

- visibility is poor (e.g. in poor road lighting, snow, heavy rain, fog and spray)
- there is glare from oncoming headlights, direct sunlight and bright reflections
- the camera is dirty, damaged or covered
- vehicles are unlit
- there are fast-moving pedestrians
- pedestrians are wearing certain clothing and objects that hinder detection



The collision warning is a tool that cannot definitively detect complex traffic situations and may issue a warning too late. As a result, the driver must always be attentive and ready to apply the brakes. If the Assistant issues a warning, the driver must brake or swerve immediately if it is not dangerous to do so.



The driver must not rely exclusively on the display, but instead always be aware of his or her surroundings.

- there are pedestrians that are concealed by other objects
- there are pedestrians whose shape is difficult to discern from the background

The assistant may generate false alerts

in the following situations:

- oncoming traffic
- crossing traffic
- on bends
- at traffic islands

Pedestrians are detected based on typical body contours and posture.

The collision warning will not react to:

- small people (children)
- animals
- oncoming traffic
- crossing traffic and bends

Lane departure warning

The multi-function camera mounted to the front windscreen in the area of the area of the rear-view mirror monitors the area in front of the car and recognises lane markings. If the vehicle drifts out of the current lane, a warning is sounded.



The lane departure warning is a tool that cannot intervene in the vehicle.

The driver maintains full responsibility for steering the car, must keep their hands on the wheel at all times and must adjust the speed and distance



from the car in front accordingly. Lane departure warning cannot take account of road and weather conditions and cannot always assess traffic situations correctly. The driver must adjust their driving style independently.



The driver must not rely exclusively on the display, but instead always be aware of his or her surroundings.

To ensure the function of the lane departure warning,

- the area around the camera must be kept clean
- the camera's line of sight must be kept clear
- the front windscreen in the area of the camera must be regularly checked for damage.

The lane departure warning cannot recognise all road markings and has only been developed for driving on asphalted

roads. Where road markings and the road structure are poor, or if there are objects on the road, mis-detections may occur. In this situation, the lane departure warning may sound an alert inappropriately or, incorrectly, not at all.

The driver must not rely exclusively on the display, but instead always be aware of his or her surroundings.

The lane departure warning function is limited when

- visibility is poor (e.g. in poor road lighting, snow, heavy rain, fog and spray)
- there is glare from oncoming headlights, direct sunlight and bright reflections
- the camera is dirty, damaged or covered
- there are no, multiple or unclear road markings
- there are tight bends
- there are alternating lane markings (e.g.: diversions and crossroads)

There is no warning

- when the indicators are used

Distance information

The distance information helps to maintain a suitable distance from the vehicle in front and warns the driver if they are getting too close.

The distance information minimises the risk of accident and reduces the consequences of an

accident.

The multi-function camera mounted on the front windscreen in the area of the rear-view mirror can detect the vehicle in front from a speed of 40 km/h if the distance is too short over a period of several seconds. The assistant provides optical information about the current distance to the vehicle in front, prompting the driver to adjust their distance. In critical situations, it also emits a signal (if activated) to warn the driver to brake the car immediately or to swerve if the situation allows it.



The distance information is a tool but should not be relied on exclusively. The driver must monitor their surroundings at all times and adjust their distance independently. The assistant will not intervene in the vehicle. It is the driver's responsibility to maintain a safe distance from other vehicles.

- to people or animals
- to oncoming traffic
- to crossing traffic
- on bends

In complex traffic situations, the distance information may

- issue a warning although there is no danger
- not issue a warning although there is a danger

The sensitivity of the distance information depends on the environmental and weather conditions.

In heavy rain and snow, as well as in low temperatures and darkness, the assistant is more sensitive and recommends maintaining a greater distance.

The distance information function is limited when

- visibility is poor (e.g. in poor road lighting, snow, heavy rain, fog and spray)
- there is glare from oncoming headlights, direct sunlight and bright reflections
- the camera is dirty, damaged or covered

The distance information does not react:

Traffic sign recognition

Traffic sign recognition displays the maximum permitted speed and when overtaking is prohibited.

Traffic sign recognition is a tool that may recognise traffic signs incorrectly. The traffic signs on the roads always take priority if there is a discrepancy with the display and must be observed at all times.

The driver must not rely exclusively on the display, but instead always be aware of his or her surroundings and interpret traffic signs independently.

The road sign recognition function is limited when

- visibility is poor (e.g. in poor road lighting, snow, heavy rain, fog and spray)
- there is glare from oncoming headlights, direct sunlight and bright reflections
- the camera is dirty, damaged or covered
- the road signs are difficult to read

- there is inadequate lighting of road signs
- there are signs with multiple meanings (e.g. on construction sites)

Alertness assistant



The alertness assistant helps the driver on long, tedious journeys, especially when driving on the motorway. The assistant analyses the driving behaviour, journey length and time of day to offer recommendations about taking regular breaks. A warning is issued via a symbol on the display and possibly with a warning sound.



The alertness assistant is merely a tool and cannot (always) detect signs of illness, form on the day or tiredness. The driver is solely responsible for taking suitable breaks. The assistant's algorithm is designed exclusively for journeys on well-asphalted roads, as well as on motorways.

The assistant's function is limited when

- driving for less than 60 minutes
- driving in a sporty style
- speeds are maintained below 60 km/h and over 200 km/h
- the driver is very distracted



The alertness assistant is unable to detect momentary nodding-off.

The alertness assistant detects a break if

- the engine is switched off for a period of more than 15 minutes

When a break is detected, the assistant is reset to zero and restarts the analysis.

High beam assistant

The high beam assistant recommends the timely lowering of high beams when there is oncoming traffic. The multi-function camera mounted to the front windscreen in the area of the rear-view mirror can recognise oncoming vehicles and vehicles in front of the car and measures the distance from them. This means that a recommendation to lower the high beams can be issued in good time so that the oncoming traffic is not dazzled. The assistant also recommends lowering the high beam in well-lit areas, such as towns or cities.

The high beam assistant is only active when the high beams are switched on.

The high beams do not react to:

- unlit road users (pedestrians)
- poorly-lit road users (cyclists)
- road users whose lighting is concealed (crash barrier, narrow bends)



The high beam assistant is a tool that offers recommendations on how to use the headlights. In rare cases, other road users who have their own lighting will not be recognised and

the lowering of the high
beams will not be
(expressly)
recommended. There is a
risk of accident! Correct
vehicle lighting is the
responsibility of the driver,
who should not rely solely
on the display but is
instead obliged to make
his or her own
assessment of the
lighting, visibility and
traffic situations.



Disposing of electronic equipment (WEEE Directive)

The high beam assistant's function is limited when

- visibility is poor (e.g.: in snow, heavy rain, fog and spray)
- there are bright reflections
- the camera is dirty, damaged or covered



This symbol on the product or packaging indicates that the the product must not be disposed of in household waste. In agreement with the EU Directive 2002/96/EC on electrical and electronic waste (WEEE), this electrical device must not be disposed of as unsorted domestic refuse. Dispose of this product by returning it to the place you bought it, or to a local authority recycling facility near you.

Service

For more information or if you have any questions about using your BMW Driver Advice System, please contact your BMW Partner.

FCC (Federal Communications Commission)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technical for help.
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technical for help.
-

WARNING: *This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.*

This device complies with Part 15 of the FCC's Rules. Operation is subject to the following two Conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesirable operation.

This equipment should be installed and operated with minimum 20 cm between the radiator and your body.