

## THE BMW X5 PLUG-IN HYBRID.

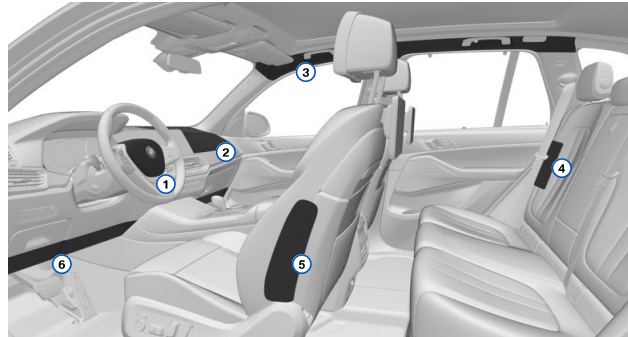




## Safety

### Airbags

#### Overview



1 Front airbag, driver

4 Side airbag in the rear

2 Front airbag, front passenger

5 Side airbag

#### Front airbags

Front airbags help protect the driver and the front passenger by responding to frontal impacts in which safety belts alone would not provide adequate protection.

#### Side airbag

In the event of a side impact, the side airbag protects the side of the body in the chest and lap area.

Depending on the equipment:

In the event of a side impact, the side airbag in the rear protects the chest and lap area on the side of the bodies of the occupants in the outer rear seats.

#### Head airbag

In the event of a side impact, the head airbag protects the head.

#### Ejection Mitigation

The head airbag system is designed as an ejection mitigation countermeasure to reduce the likelihood of ejections of vehicle occupants through side windows during rollovers or side impact events.

#### Knee airbag

The knee airbag protects the legs in the event of a frontal impact.

#### Protective effect

##### General information

Airbags are not triggered in every impact situation, e.g., in less severe accidents.

##### Information on optimum effect of the airbags

— **Observe to achieve optimum protective effect of the airbag system**

##### **Warning**

If the seat position is incorrect or the deployment area of the airbags is impaired, the airbag system cannot provide protection as intended and may cause additional injuries due to triggering. There is a risk of injuries or danger to life. Follow the information on achieving the optimum protective effect of the airbag system.

- Keep a distance from the airbags.
- Always grasp the steering wheel on the steering wheel rim. Hold your hands at the 3 o'clock and 9 o'clock positions, to keep the risk of injury to your hands or arms as low as possible when the airbag is triggered.
- Make sure that the front passenger is sitting correctly, i.e., keeps his or her feet and legs in the floor area and does not support them on the dashboard.
- Make sure that occupants keep their heads away from the side airbag.
- There should be no additional persons, animals or objects between an airbag and a person.
- Dashboard and windshield on the front passenger side must stay clear - do not attach adhesive labels or coverings and do not attach brackets or cables, for instance for GPS devices or mobile phones.

- Do not apply adhesive materials to the airbag cover panels, do not cover them or modify them in any way.
- Do not use the cover of the front airbag on the front passenger side as a storage area.
- Do not attach slip covers, seat cushions or other objects to the front passenger seat that are not specifically suited for seats with integrated side airbags.
- Do not hang pieces of clothing, such as jackets, over the backrests.
- Never modify either the individual components or the wiring in the airbag system. This also applies to steering wheel covers, the dashboard, and the seats.
- Do not remove the airbag system.

Even when you follow all instructions very closely, injury from contact with the airbags cannot be fully ruled out in certain situations.


The ignition and inflation noise may lead to short-term and, in most cases, temporary hearing impairment in sensitive occupants.

Vehicle modifications for a person with disabilities may affect the air bag system; contact BMW Customer Relations for further information.

Warnings and information on the airbags are also found on the sun visors.

## Functional readiness of the airbag system

### Safety information

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-  **Observe after airbag system deployment**

#### **Warning**

Individual components can be hot after triggering of the airbag system. There is a risk of injury. Do not touch individual components.

- 
-  **Observe in the event of malfunctions, deactivation or after deployment**

#### **Warning**

Improperly executed work can lead to failure, malfunction or unintentional triggering of the airbag system. In the case of a malfunction, the airbag system might not trigger as intended despite the accident severity. There is a risk of injuries or danger to life. Have the airbag system checked, repaired, dismantled and scrapped by a dealer's service center or another qualified service center or repair shop.

### Display in the instrument cluster



When drive-ready state is switched on, the warning light in the instrument cluster lights up briefly and thereby indicates the function readiness of the entire airbag system and the belt tensioners.

### Malfunction



- Warning light does not come on when drive-ready state is switched on.
- The warning light lights up continuously.

Have the system checked.


## Strength of the driver's and front-seat passenger airbag

### General information

The explosive power that activates driver's/front-seat passenger airbags very much depends on the positions of the driver's/front passenger seat.

To maintain the accuracy of this function over the long term, calibrate the front seats as soon as a respective message appears on the Control Display.

### Calibrating the front seats

- 
-  **Keep the movement area of the seats unobstructed when adjusting**

#### **Warning**

There is a risk of jamming when moving the seats. There is a risk of injury or risk of damage to property. Make sure that the area of movement of the seat is clear prior to any adjustment.

A corresponding message appears on the Control Display.

1. Press the switch and move the respective seat all the way forward, until it stops.
2. Press the switch forward again. The seat still moves forward slightly.
3. Readjust the seat to the desired position.

The calibration procedure is completed when the message on the Control Display disappears.

If the message continues to be displayed, repeat the calibration.

If the message does not disappear after a repeat calibration, have the system checked as soon as possible.

## Automatic deactivation of the front-seat passenger airbags

### Concept

The system reads if the front passenger seat is occupied by measuring the human body's resistance.


Front, knee, and side airbag on the front passenger's side are activated or deactivated.

## General information

Before transporting a child on the front passenger seat, refer to the safety information and instructions for children on the front passenger seat, see Children.

## Safety information

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—  **Leave feet in the floor area**

 **Warning**

To ensure the front-seat passenger airbag function, the system must be able to detect whether a person is sitting in the front passenger seat. The entire seat cushion area must be used for this purpose. There is a risk of injuries or danger to life. Make sure that the front passenger keeps his or her feet in the floor area.

## Malfunction of the automatic deactivation system

When transporting older children and adults, the front-seat passenger airbags may be deactivated in certain sitting positions. In this case, the indicator light for the front-seat passenger airbags lights up.

In this case, change the sitting position so that the front-seat passenger airbags are activated and the indicator light goes out.

If it is not possible to activate the airbags, have the person sit in the rear.

To enable correct recognition of the occupied seat cushion:

- Do not attach covers, cushions, ball mats or other items to the front passenger seat unless they are specifically determined to be safe for use on the front passenger seat.
- Do not place any electronic devices on the front passenger seat if a child restraint system is to be installed on it.
- Do not place objects under the seat that can push against the seat from below.
- No moisture in or on the seat.

## Indicator light for the front-seat passenger airbags

The indicator light for the front-seat passenger airbag in the roofliner indicates the operating state of the front-seat passenger airbag.

The light indicates whether the airbags are either activated or deactivated.

After drive-ready state is switched on, the light briefly lights up and then indicates whether the airbags are either activated or deactivated.



- The indicator light lights up when a child is properly seated in a child restraint system or when the seat is empty. The airbags on the front passenger side are not activated.
- The indicator light does not light up when, for instance a correctly seated person of sufficient size is detected on the seat. The airbags on the front passenger side are activated.

## Detected child restraint systems

The system generally detects children seated in a child restraint system, particularly in child restraint systems required by NHTSA at the point in time when the vehicle was manufactured. After installing a child restraint system, make sure that the indicator light for the front-seat passenger airbags lights up. This indicates that the child restraint system has been detected and the front-seat passenger airbags are not activated.

## Intelligent Safety

### Concept

Intelligent Safety enables central operation of the driver assistance systems.

### General information

Depending on how the vehicle is equipped, Intelligent Safety consists of one or more systems that can help prevent an imminent collision.

- Front collision mitigation.
- Evasion Assistant.
- Intersection collision warning.
- Person warning with City braking function.
- Lane departure warning.
- Blind spot collision warning.
- Side collision mitigation.

## Safety information

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—  **Observe surrounding traffic and adapt driving style**

 **Warning**

The system cannot serve as a substitute for the driver's personal judgment in assessing visibility and traffic situation. There is a risk of accident. Adjust driving style to traffic conditions. Watch traffic closely and actively intervene where appropriate.

—  **Observe surrounding traffic and adapt driving style**

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 **Warning**

Indicators and warnings cannot serve as a substitute for the driver's personal judgment. Due to its limits, the system may not issue warnings or reactions, or these may be issued late or in a manner that is not consistent with their normal use. There is a risk of accident. Adjust driving style to traffic conditions. Watch traffic closely and actively intervene where appropriate.

—  **Switch off Intelligent Safety systems**

 **Warning**

Due to system limits, individual functions can malfunction during low-starting/towing with the Intelligent Safety systems activated. There is a risk of accident. Switch all Intelligent Safety systems off prior to low-starting/towing.

## Overview




### Button in the vehicle



 Intelligent Safety

### Switching on/off

Some Intelligent Safety systems are automatically active after every departure. Some Intelligent Safety systems activate according to the last setting.

Button	Status
	Button lights up green: all Intelligent Safety systems are switched on.
	Button lights up orange: some Intelligent Safety systems are switched off or currently unavailable.
	Button does not light up: all Intelligent Safety systems are switched off.



Press the button.

The menu for the Intelligent Safety system is displayed.

If all Intelligent Safety systems were switched off, all systems are now switched on.

\*Configure INDIVIDUAL\*: depending on the equipment version, the Intelligent Safety systems can be individually configured. The individual settings are activated and stored for the driver profile currently used. As soon as a setting is changed on the menu, all settings of the menu are activated.



Press the button repeatedly. The following settings are switched between:

\*ALL ON\*: all Intelligent Safety systems are switched on. Basic settings are activated for the sub-functions, for instance setting for warning time.

\*INDIVIDUAL\*: the Intelligent Safety systems are switched on according to the individual settings.

Some Intelligent Safety systems cannot be individually switched off.



Press and hold this button.

All Intelligent Safety systems are switched off.

## Front collision mitigation

### Concept

#### — Video: front collision mitigation

Approach control warning



The system may prevent some accidents. In the event of an accident, the system may reduce impact speed.

The system sounds a warning before an imminent collision and activates brakes independently, if needed.

### General information

Depending on the equipment version, the system is controlled by the following sensors:

- Camera in the area of the interior mirror.
- Radar sensor in the front bumper.

The system issues a two-phase warning of a possible risk of collision with vehicles at speeds above approx. 3 mph/5 km/h. The timing of warnings may vary with the current driving situation.

With the vehicle approaching another vehicle intentionally, the approach control warning and braking are delayed in order to avoid false system reactions.

Depending on the vehicle equipment, the Driver Attention Camera in the instrument cluster captures the driver's field of vision. Additionally, the system checks for visual impairments. Field of vision and visibility also affect the timing of the warnings.

### Safety information

#### — ⚠ Observe surrounding traffic and adapt driving style



#### Warning

The system cannot serve as a substitute for the driver's personal judgment in assessing visibility and traffic situation. There is a risk of accident. Adjust driving style to traffic conditions. Watch traffic closely and actively intervene where appropriate.

#### — ⚠ Observe surrounding traffic and adapt driving style



#### Warning

Indicators and warnings cannot serve as a substitute for the driver's personal judgment. Due to its limits, the system may not issue warnings or reactions, or these may be issued late or in a manner that is not consistent with their normal use. There is a risk of accident. Adjust driving style to traffic conditions. Watch traffic closely and actively intervene where appropriate.

#### — ⚠ Switch off Intelligent Safety systems



#### Warning

Due to system limits, individual functions can malfunction during tow-starting/towing with the Intelligent Safety systems activated. There is a risk of accident. Switch all Intelligent Safety systems off prior to tow-starting/towing.

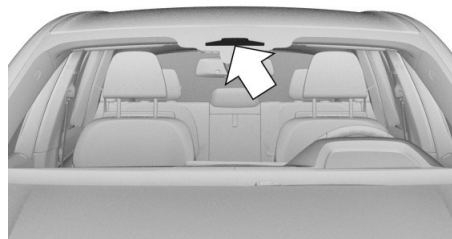
### Overview

#### Button in the vehicle



1 Intelligent Safety

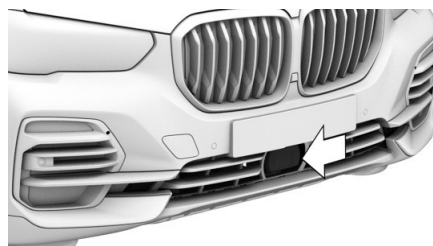
### Camera



The camera is installed near the interior mirror.

Keep the windshield in front of the interior mirror clean and clear.

### With radar sensor



The radar sensor is located in the lower area of the front bumper.

Always keep radar sensor clean and unobstructed.

### Switching on/off

#### Switching on automatically

The system is automatically active after every driving off.

#### Switching on manually



Press the button.

The menu for the Intelligent Safety system is displayed.

If all Intelligent Safety systems were switched off, all systems are now switched on.

\*Configure INDIVIDUAL\*: depending on the equipment version, the Intelligent Safety systems can be individually configured. The individual settings are activated and stored for the driver profile currently used. As soon as a setting is changed on the menu, all settings of the menu are activated.



Press the button repeatedly.

The following settings are switched between:

\*ALL ON\*: all Intelligent Safety systems are switched on. Basic settings are activated for the subfunctions.

\*INDIVIDUAL\*: the Intelligent Safety systems are switched on according to the individual settings.

Some Intelligent Safety systems cannot be individually switched off.

**Manual switching off**

Press and hold this button.

All Intelligent Safety systems are switched off.

Button	Status
	Button lights up green: all Intelligent Safety systems are switched on.
	Button lights up orange: some Intelligent Safety systems are switched off or currently unavailable.
	Button does not light up: all Intelligent Safety systems are switched off.

**Setting the warning time**

Via iDrive:

1. "CAR"
2. "Settings"
3. "Driver Assistance"
4. "Safety and warnings"
5. "Front collision mitigation"
6. Select the desired setting:
  - "Early"
  - "Medium"
  - "Late": only acute warnings are displayed.

The selected time is stored for the driver profile currently used.

**Warning with braking function****Display**

A warning symbol appears in the instrument cluster and in the Head-up Display, where available, if a collision with a detected vehicle is imminent.

Symbol	Measure
	Symbol lights up red: prewarning. Brake and increase distance.
	Symbol flashes red and an acoustic signal sounds: acute warning. Brake and make an evasive maneuver, if necessary.

**Prewarning**

This warning is provided, for instance when there is impending danger of a collision or the distance to the vehicle ahead is too small.

If a prewarning is provided, respond by braking as warranted.

**Acute warning with braking function**

An acute warning is displayed in case of the imminent danger of a collision when the vehicle approaches another object at a high differential speed.

Intervene in the case of an acute warning. Depending on the driving situation and the equipment version, the acute warning may be accompanied by a brief activation of the braking system.

With the warning time setting "Late" the brief activation of the braking system is omitted.

If an acute warning is provided, the system may also provide assistance, such as through braking, when there is risk of collision.

Acute warnings may be provided even when there has been no prior warning.

**Braking intervention**

The warning prompts the driver to intervene. If a warning is active, the maximum braking force is used when the brake is applied. The brake pedal must be applied sufficiently quickly and forcefully.

The system may also assist in braking if there is a risk of collision.

When the vehicle is traveling at a low speed, the vehicle may come to a complete stop.

City brake function: the braking intervention occurs to up to approx. 50 mph/80 km/h.

With radar sensor: the braking intervention occurs to up to approx. 155 mph/250 km/h.

At speeds above approx. 130 mph/210 km/h, the braking intervention occurs as a brief braking pressure. No automatic delay occurs.

The driver may interrupt the braking intervention function by stepping on the accelerator pedal or by actively moving the steering wheel.

The system's ability to detect objects may be limited in some circumstances. Refer to the information in this Owner's Manual regarding the limitations of the system and actively intervene as warranted.

## System limits

### Safety information

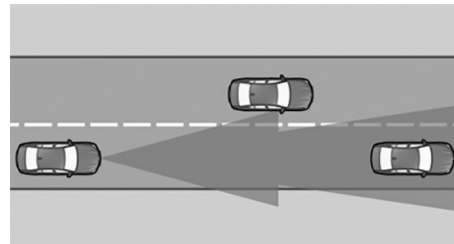
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—  **Observe the system limits**

 **Warning**

The system is designed to operate in certain conditions and circumstances. Due to conditions or other factors, the system may not respond. There may be a risk of accident or risk of damage to property. Actively intervene as warranted. Refer to the information in this Owner's Manual regarding the scope of the system's operation and limitations.

### Detection range



The system's detection potential is limited.

Only objects that are detected by the system are taken into account.

Thus, a system reaction might not come or might come late.

The following situations may not be detected, for instance:

- Slow moving vehicles when you approach them at high speed.
- Vehicles that suddenly swerve in front of you, or sharply decelerating vehicles.
- Vehicles with an unusual rear appearance.
- Two-wheeled vehicles ahead of you.

### Upper speed limit

If the vehicle speed exceeds approx. 155 mph/250 km/h, the system is deactivated temporarily. When the vehicle slows down to below this speed, the system is reactivated.

### Functional limitations

The system may not be fully functional in the following situations:

- In heavy fog, wet conditions, or snowfall.
- In tight curves.
- If the driving stability control systems are limited or deactivated, for instance DSC OFF.
- If the field of view of the camera or the windshield is dirty or covered in the area of the interior mirror.
- If the camera has overheated and been temporarily switched off due to excessively high temperatures.
- Up to 10 seconds after the start of the engine via the Start/Stop button.
- During calibration of the camera immediately after vehicle delivery.
- If there are constant blinding effects because of oncoming light, for instance from the sun low in the sky.
- When it is dark outside.
- Depending on the equipment: if the radar sensors are dirty or covered.
- Depending on the equipment version: after improperly performed work on the vehicle paint in the area of the radar sensors.

Attaching any objects such as stickers or film in the beam area of the radar sensors will also limit the function of the radar sensors and may even cause them to fail.

### Warning sensitivity

The more sensitive the warning settings are, for example the warning time, the more warnings are displayed. Therefore, there may also be an excess of premature or unjustified warnings and reactions.

## Evasion Assistant

### Concept

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— **Video: Evasion Assistant**

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Evasion Assistant



The system supports the driver in making evasive maneuvers in certain situations, such as when obstacles or persons suddenly appear.

### General information

The system issues a warning and intervenes to support the driver if a lateral evasive maneuver is possible. Sensors monitor and detect the clearance around the vehicle. If the system identifies space alongside the vehicle, it supports an evasive maneuver begun by the driver by safely providing targeted steering support.

### Safety information

—  **Observe surrounding traffic and adapt driving style**

 **Warning**

The system cannot serve as a substitute for the driver's personal judgment in assessing visibility and traffic situation. There is a risk of accident. Adjust driving style to traffic conditions. Watch traffic closely and actively intervene where appropriate.

—  **Observe surrounding traffic and adapt driving style**

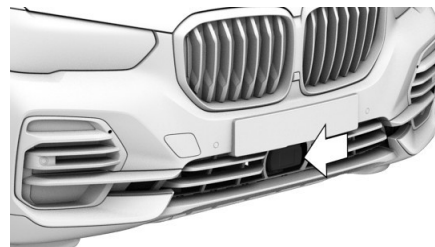
 **Warning**

Indicators and warnings cannot serve as a substitute for the driver's personal judgment. Due to its limits, the system may not issue warnings or reactions, or these may be issued late or in a manner that is not consistent with their normal use. There is a risk of accident. Adjust driving style to traffic conditions. Watch traffic closely and actively intervene where appropriate.

### Overview

#### Radar sensors

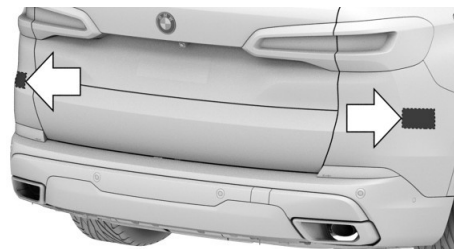
The radar sensors are located in the bumpers.



Front center bumper.



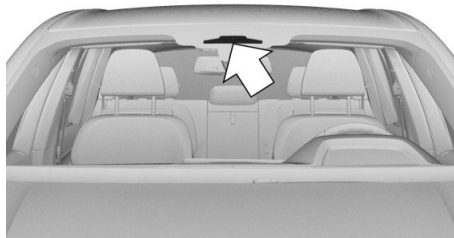
Front side bumper.



Rear bumper.

Always keep the bumper in the area of the radar sensors clean and unobstructed.

#### Camera



The camera is installed near the interior mirror.

Keep the windshield in front of the interior mirror clean and clear.

#### Functional requirements

- Pedestrian warning with braking function is switched on > **Person warning with City braking function** .
- Front collision mitigation is switched on > **Front collision mitigation** .
- Sensors detect sufficient clearance around the vehicle.




#### Switching on/off

The system is automatically active after every driving off.

#### Warning with evasion support

##### Display in the instrument cluster

A warning symbol appears in the instrument cluster and in the Head-up Display if a collision with a detected vehicle is imminent.

Symbol	Measure
	Symbol lights up red: prewarning. Brake and increase distance.
	Symbol flashes red and an acoustic signal sounds: acute warning for obstacles. Brake and make an evasive maneuver, if necessary.
	Symbol flashes red and an acoustic signal sounds: acute warning for pedestrians. Brake and make an evasive maneuver, if necessary.

#### Acute warning with evasion support

An acute warning is displayed when there is an imminent danger of collision due to the vehicle approaching another object at a high speed.

Intervene in the case of an acute warning. The system is designed to provide assistance by taking evasive action when there is a risk of collision.

Acute warnings may be provided even when there has been no prior warning.

#### System limits

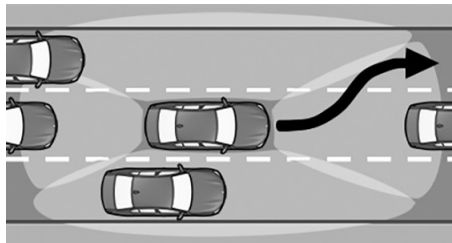
##### Safety information

-  **Observe the system limits**

##### **Warning**

The system is designed to operate in certain conditions and circumstances. Due to conditions or other factors, the system may not respond. There may be a risk of accident or risk of damage to property. Actively intervene as warranted. Refer to the information in this Owner's Manual regarding the scope of the system's operation and limitations.

### Detection range



The system's detection potential is limited.

Only objects that are detected by the system are taken into account.

Thus, a system reaction might not come or might come late.

The following situations may not be detected, for example:

- Slow moving vehicles when you approach them at high speed.
- Vehicles that suddenly swerve in front of you, or sharply decelerating vehicles.
- Vehicles with an unusual rear appearance.
- Two-wheeled vehicles ahead of you.

### Functional limitations

The system may not be fully functional in the following situations:

- In heavy fog, wet conditions, or snowfall.
- In tight curves.
- If the driving stability control systems are limited or deactivated, for instance DSC OFF.
- If the field of view of the camera or the windshield is dirty or covered in the area of the interior mirror.
- If the camera has overheated and been temporarily switched off due to excessively high temperatures.
- Up to 10 seconds after the start of the engine via the Start/Stop button.
- During calibration of the camera immediately after vehicle delivery.
- If there are constant blinding effects because of oncoming light, for instance from the sun low in the sky.
- When it is dark outside.
- Depending on the equipment: if the radar sensors are dirty or covered.
- Depending on the equipment version: after improperly performed work on the vehicle paint in the area of the radar sensors.

Attaching any objects such as stickers or film in the beam area of the radar sensors will also limit the function of the radar sensors and may even cause them to fail.

## Intersection collision warning

### Concept

The system may prevent some accidents with cross traffic at intersections and junctions. In the event of an accident, the system may reduce impact speed.

The system sounds a warning in the city speed range before an imminent collision and activates brakes independently, if needed.

### General information

The system is controlled by the following sensors:

- Camera in the area of the interior mirror.
- Radar sensors on the side in the front bumper.
- Radar sensor in the center in the front bumper.

At intersections and junctions, a warning is issued when a danger of collision with crossing traffic is detected.

The system issues a two-phase warning of a possible risk of collision with vehicles at speeds above approx. 6 mph/10 km/h. The timing of warnings may vary with the current driving situation.

The Driver Attention Camera in the instrument cluster captures the driver's field of vision. Additionally, the system checks for visual impairments. Field of vision and visibility also affect the timing of the warnings.

### Detection range

Vehicles that cross your direction of travel can be detected by the system as soon as these vehicles enter into the detection range of the system.

### Safety information

- 
-  **Observe surrounding traffic and adapt driving style**

#### **Warning**

The system cannot serve as a substitute for the driver's personal judgment in assessing visibility and traffic situation. There is a risk of accident. Adjust driving style to traffic conditions. Watch traffic closely and actively intervene where appropriate.

- 
-  **Observe surrounding traffic and adapt driving style**

#### **Warning**

Indicators and warnings cannot serve as a substitute for the driver's personal judgment. Due to its limits, the system may not issue warnings or reactions, or these may be issued late or in a manner that is not consistent with their normal use. There is a risk of accident. Adjust driving style to traffic conditions. Watch traffic closely and actively intervene where appropriate.

- 
-  **Switch off Intelligent Safety systems**
-

 **Warning**

Due to system limits, individual functions can malfunction during tow-starting/towing with the Intelligent Safety systems activated. There is a risk of accident. Switch all Intelligent Safety systems off prior to tow-starting/towing.

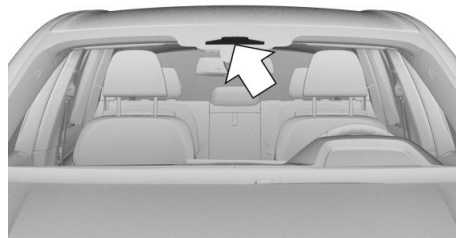
**Overview**

**Button in the vehicle**



 **Intelligent Safety**

**Camera**



The camera is installed near the interior mirror.

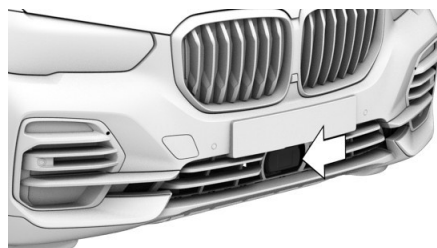
Keep the windshield in front of the interior mirror clean and clear.

**Radar sensors**

The radar sensors are located in the front bumper.



Front side bumper.



Front center bumper.

Keep the radar sensors clean and unobstructed.

**Switching on/off**

**Switching on automatically**

The system is automatically active after every driving off.

### Switching on manually



Press the button.

The menu for the Intelligent Safety system is displayed.

If all Intelligent Safety systems were switched off, all systems are now switched on.

\*Configure INDIVIDUAL\*: depending on the equipment version, the Intelligent Safety systems can be individually configured. The individual settings are activated and stored for the driver profile currently used. As soon as a setting is changed on the menu, all settings of the menu are activated.



Press the button repeatedly.

The following settings are switched between:

\*ALL ON\*: all Intelligent Safety systems are switched on. Basic settings are activated for the subfunctions.

\*INDIVIDUAL\*: the Intelligent Safety systems are switched on according to the individual settings.




Some Intelligent Safety systems cannot be individually switched off.

### Manual switching off



Press and hold this button.

All Intelligent Safety systems are switched off.

Button	Status
	Button lights up green: all Intelligent Safety systems are switched on.
	Button lights up orange: some Intelligent Safety systems are switched off or currently unavailable.
	Button does not light up: all Intelligent Safety systems are switched off.

### Setting the warning time

Via iDrive:

1. "CAR"
2. "Settings"
3. "Driver Assistance"
4. "Safety and warnings"
5. "Front collision mitigation"
6. Select the desired setting:
  - "Early"
  - "Medium"
  - "Late": only acute warnings are displayed.


The selected time is stored for the driver profile currently used.



### Warning with braking function

#### Display

#### General information

A warning symbol appears in the instrument cluster and in the Head-up Display, where available, if a collision with a detected vehicle is imminent.

Symbol	Meaning
	Danger of collision with vehicle crossing from the right.

Symbol	Meaning
	Danger of collision with vehicle crossing from the left.
	Danger of collision with vehicle for which the direction of travel cannot be determined.

**Display with prewarning**

The respective symbol lights up red; prewarning for vehicles that cross your direction of travel.

Intervene yourself, for instance by braking.

**Display with acute warning**

The respective symbol flashes red and an acoustic signal sounds; acute warning when vehicles cross your direction of travel.

Brake and make an evasive maneuver, if necessary.

**Prewarning**

For example, a prewarning is displayed when a danger of collision with a crossing vehicle is detected.

If a prewarning is provided, respond by braking as warranted.

**Acute warning with braking function**

An acute warning is displayed in the event of an immediate danger of collision with a crossing vehicle.

Intervene in the case of an acute warning. If an acute warning is provided, the system may provide assistance, such as through braking, when there is risk of collision.

Acute warnings may be provided even when there has been no prior warning.

**Braking intervention**

The warning prompts the driver to intervene.

The system may also assist in braking if there is a risk of collision.

The vehicle can be decelerated to a standstill.

The driver may interrupt the braking intervention function by stepping on the accelerator pedal or by actively moving the steering wheel.

The system's ability to detect objects may be limited in some circumstances. Refer to the information in this Owner's Manual regarding the limitations of the system and actively intervene as warranted.

**System limits****Safety information**

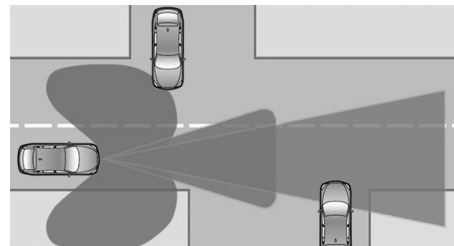
—  **Observe the system limits**

 **Warning**

The system is designed to operate in certain conditions and circumstances. Due to conditions or other factors, the system may not respond. There may be a risk of accident or risk of damage to property. Actively intervene as warranted. Refer to the information in this Owner's Manual regarding the scope of the system's operation and limitations.

**Upper speed limit**

The system responds to crossing vehicles when your own speed is below approx. 50 mph/80 km/h.

**Detection range**

The system's detection potential is limited.

Thus, a system reaction might not come or might come late.

The following situations may not be detected, for instance:

- Crossing vehicles when they are hidden by buildings, for instance.
- Vehicles that suddenly swerve in front of you, or sharply decelerating vehicles.
- Crossing bicycles.
- Vehicles with an unusual side appearance.

### Functional limitations

The system may not be fully functional in the following situations:

- In heavy fog, wet conditions, or snowfall.
- In tight curves.
- If the driving stability control systems are limited or deactivated, for instance DSC OFF.
- If the field of view of the camera or the windshield is dirty or covered in the area of the interior mirror.
- If the camera has overheated and been temporarily switched off due to excessively high temperatures.
- Up to 10 seconds after the start of the engine via the Start/Stop button.
- During calibration of the camera immediately after vehicle delivery.
- If there are constant blinding effects because of oncoming light, for instance from the sun low in the sky.
- When it is dark outside.
- Depending on the equipment: if the radar sensors are dirty or covered.
- Depending on the equipment version: after improperly performed work on the vehicle paint in the area of the radar sensors.

Attaching any objects such as stickers or film in the beam area of the radar sensors will also limit the function of the radar sensors and may even cause them to fail.

### Warning sensitivity

The more sensitive the warning settings are, for example the warning time, the more warnings are displayed. Therefore, there may also be an excess of premature or unjustified warnings and reactions.

## Person warning with City braking function

### Concept

#### — Video: person warning

Person warning



The system can help prevent accidents involving pedestrians and cyclists. In the event of an accident, the system may reduce impact speed.

The system sounds a warning in the city speed range before an imminent collision and activates brakes independently, if needed.

### General information

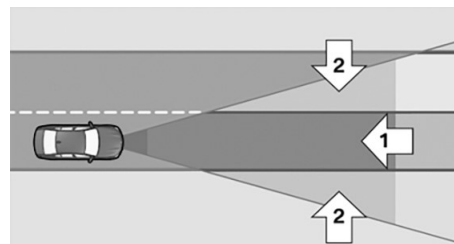
The system issues a warning of a possible risk of collision with pedestrians and cyclists at speeds above approx. 3 mph/5 km/h.

The system reacts to pedestrians and cyclists who are within the detection range of the system.

Depending on the equipment version, the system is controlled by the following sensors:

- Camera in the area of the interior mirror.
- Radar sensor in the front bumper.

### Detection range



The detection area in front of the vehicle is divided into two areas:

- Central area, arrow 1, directly in front of the vehicle.
- Expanded area, arrows 2, to the right and left of the central area.

A collision is imminent if pedestrians are located within the central area. A warning is issued about pedestrians who are located within the extended area only if they are moving in the direction of the central area.

### Safety information

-  **Observe surrounding traffic and adapt driving style**

 **Warning**

The system cannot serve as a substitute for the driver's personal judgment in assessing visibility and traffic situation. There is a risk of accident. Adjust driving style to traffic conditions. Watch traffic closely and actively intervene where appropriate.

—  **Observe surrounding traffic and adapt driving style**

 **Warning**

Indicators and warnings cannot serve as a substitute for the driver's personal judgment. Due to its limits, the system may not issue warnings or reactions, or these may be issued late or in a manner that is not consistent with their normal use. There is a risk of accident. Adjust driving style to traffic conditions. Watch traffic closely and actively intervene where appropriate.

—  **Switch off Intelligent Safety systems**

 **Warning**

Due to system limits, individual functions can malfunction during tow-starting/towing with the Intelligent Safety systems activated. There is a risk of accident. Switch all Intelligent Safety systems off prior to tow-starting/towing.

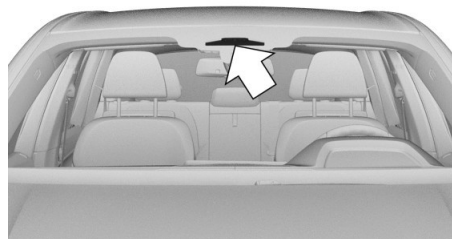
## Overview

### Button in the vehicle



 **Intelligent Safety**

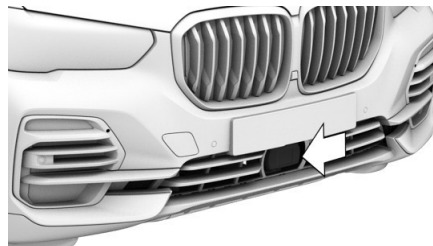
### Camera



The camera is installed near the interior mirror.

Keep the windshield in front of the interior mirror clean and clear.

### With radar sensor



The radar sensor is located in the lower area of the front bumper.

Always keep radar sensor clean and unobstructed.

## Switching on/off

### Switching on automatically



The system is automatically active after every driving off.

### Switching on manually



Press the button.

The menu for the Intelligent Safety system is displayed.

If all Intelligent Safety systems were switched off, all systems are now switched on.

\*Configure INDIVIDUAL\*": depending on the equipment version, the Intelligent Safety systems can be individually configured. The individual settings are activated and stored for the driver profile currently used. As soon as a setting is changed on the menu, all settings of the menu are activated.



Press the button repeatedly.

The following settings are switched between:

\*ALL ON\*": all Intelligent Safety systems are switched on. Basic settings are activated for the subfunctions.

\*INDIVIDUAL\*": the Intelligent Safety systems are switched on according to the individual settings.




Some Intelligent Safety systems cannot be individually switched off.

### Manual switching off



Press and hold this button.

All Intelligent Safety systems are switched off.

Button	Status
	Button lights up green: all Intelligent Safety systems are switched on.
	Button lights up orange: some Intelligent Safety systems are switched off or currently unavailable.
	Button does not light up: all Intelligent Safety systems are switched off.

### Warning with braking function

#### Display

If a collision with a pedestrian or a cyclist is imminent, a warning symbol appears on the instrument cluster and in the Head-up Display.



The red symbol is displayed and a signal sounds.

Intervene immediately by braking or make an evasive maneuver.

#### Braking intervention

The warning prompts the driver to intervene. If a warning is active, the maximum braking force is used when the brake is applied. This requires the brake pedal to be depressed sufficiently quickly and forcefully.

If there is a risk of collision, the system may also assist with braking.

When the vehicle is traveling at a low speed, the vehicle may come to a complete stop.

The driver may interrupt the braking intervention function by stepping on the accelerator pedal or by actively moving the steering wheel.

The system's ability to detect objects may be limited in some circumstances. Refer to the information in this Owner's Manual regarding the limitations of the system and actively intervene as warranted.

### System limits

#### Safety information

—  Observe the system limits

**Warning**

The system is designed to operate in certain conditions and circumstances. Due to conditions or other factors, the system may not respond. There may be a risk of accident or risk of damage to property. Actively intervene as warranted. Refer to the information in this Owner's Manual regarding the scope of the system's operation and limitations.

**Upper speed limit**

The system responds to pedestrians and cyclists when the speed of the vehicle is below approx. 50 mph/80 km/h.

**Detection range**

The system's detection potential is limited.

Thus, a warning might not be issued or be issued late.

The following situations may not be detected, for instance:

- Partially covered pedestrians.
- Pedestrians that are not detected as such because of the viewing angle or contour.
- Pedestrians outside of the detection range.
- Pedestrians having a body size less than 32 in/80 cm.

**Functional limitations**

The system may not be fully functional or may not be available in the following situations:

- In heavy fog, wet conditions, or snowfall.
- In tight curves.
- If the driving stability control systems are deactivated, for instance DSC OFF.
- If the field of view of the camera or the windshield is dirty or covered in the area of the interior mirror.
- If the camera has overheated and been temporarily switched off due to excessively high temperatures.
- Up to 10 seconds after the start of the engine via the Start/Stop button.
- During calibration of the camera immediately after vehicle delivery.
- If there are constant blinding effects because of oncoming light, for instance from the sun low in the sky.
- When it is dark outside.
- Depending on the equipment: if the radar sensors are dirty or covered.
- Depending on the equipment version: after improperly performed work on the vehicle paint in the area of the radar sensors.

Attaching any objects such as stickers or film in the beam area of the radar sensors will also impact the function of the radar sensors and may even cause them to fail.

## Lane departure warning

### Concept

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#### — Video: lane departure warning

Lane departure warning



The lane departure warning alerts when the vehicle is about to run off the road or exit the lane.

### General information

This camera-based system warns starting at a minimum speed.

The minimum speed is country-specific and is displayed in the menu for the intelligent Safety systems.

Warnings are issued by means of a steering wheel vibration. The severity of the steering wheel vibration can be adjusted.

The system does not provide a warning if the turn signal is set in the respective direction before leaving the lane.

Depending on the equipment version, if in the speed range up to 130 mph/210 km/h a lane marking is crossed, the system may intervene with a brief active steering intervention in addition to vibrating. The system thus helps keep the vehicle in the lane.

### Safety information

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#### — Also observe surrounding traffic and adapt driving style

**Warning**

The system cannot serve as a substitute for the driver's personal judgment in assessing road and traffic safety. There is a risk of accident. Adjust driving style to traffic conditions. Watch traffic closely and actively intervene where appropriate. Do not jerk the steering wheel in response to a warning.

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#### — Observe surrounding traffic and adapt driving style

---

**Warning**

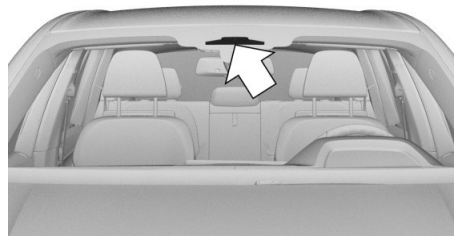
Indicators and warnings cannot serve as a substitute for the driver's personal judgment. Due to its limits, the system may not issue warnings or reactions, or these may be issued late or in a manner that is not consistent with their normal use. There is a risk of accident. Adjust driving style to traffic conditions. Watch traffic closely and actively intervene where appropriate.

**Functional requirement**

The camera must detect the lane markings for the lane departure warning to be active.

**Overview****Button in the vehicle**

1 Intelligent Safety

**Camera**

The camera is installed near the interior mirror.

Keep the windshield in front of the interior mirror clean and clear.

**Switching on/off****Switching on automatically**

The lane departure warning activates automatically after departure if the function was switched on at the end of the last trip.

**Switching on manually**

Press the button.

The menu for the Intelligent Safety system is displayed.

If all Intelligent Safety systems were switched off, all systems are now switched on.

\*Configure INDIVIDUAL\*: depending on the equipment version, the Intelligent Safety systems can be individually configured. The individual settings are activated and stored for the driver profile currently used. As soon as a setting is changed on the menu, all settings of the menu are activated.



Press the button repeatedly.

The following settings are switched between:

\*ALL ON\*: all Intelligent Safety systems are switched on. Basic settings are activated for the subfunctions.

\*INDIVIDUAL\*: the Intelligent Safety systems are switched on according to the individual settings.

Some Intelligent Safety systems cannot be individually switched off.

**Manual switching off**



Press and hold this button.

All Intelligent Safety systems are switched off.

Button	Status
	Button lights up green: all Intelligent Safety systems are switched on.
	Button lights up orange: some Intelligent Safety systems are switched off or currently unavailable.
	Button does not light up: all Intelligent Safety systems are switched off.

### Setting the warning time

Via iDrive:

- "CAR"
- "Settings"
- "Driver Assistance"
- "Safety and warnings"
- "Lane Departure Warning"
- Select the desired setting:
  - "Early"
  - "Medium"
  - "Reduced": some warnings are suppressed depending on the situation, for instance during passing without a turn signal or when purposely driving over lane markings in curves.
  - "Off": no warnings are issued.

The selected setting is stored for the driver profile currently used.

### Setting the intensity of the steering wheel vibration

Via iDrive:

- "CAR"
- "Settings"
- "Driver Assistance"
- "Steering wheel feedback"
- "Vibration intensity"
- Select the desired setting.

The setting is applied to all Intelligent Safety systems and stored for the driver profile currently used.

### Switch steering intervention on/off

The steering intervention can be switched on and off separately for blind spot collision warning and lane departure warning.

Via iDrive:

- "CAR"
- "Settings"
- "Driver Assistance"
- "Safety and warnings"
- "Lane Departure Warning"
- "Steering intervention"

The selected setting is stored for the driver profile currently used.

### Display in the instrument cluster



The symbol illuminates green: at lane marking was detected on at least one side of the vehicle and warnings can be issued.

### Warning function

#### If you leave the lane

If you leave the lane and if a lane marking has been detected, the steering wheel vibrates in accordance with the steering wheel vibration setting.

When the turn signal is switched on in the corresponding direction before changing the lane, a warning is not issued.

#### Steering intervention

Depending on the equipment version: if, in the speed range up to 130 mph/210 km/h a lane marking is crossed, the system may intervene with a brief active steering intervention in addition to vibrating. The steering intervention helps keep the vehicle in the lane. The steering intervention can be noticed on the steering wheel and can be manually overridden at any time. During an active steering intervention, the display in the instrument cluster will blink.

#### Warning signal

Depending on the equipment version: in the event of multiple active steering interventions by the system within 3 minutes without the driver's intervention at the steering wheel, an acoustic warning will sound. A short warning signal will sound at the second steering intervention. Beginning with the third steering intervention, an continuous warning will sound.

In addition, a Check Control message is displayed.

The warning signal and Check-Control message are an encouragement to pay closer attention to the lane.

### End of warning

For instance, the warning will be canceled in the following situations:

- Automatically after a few seconds.
- When returning to your own lane.
- When braking hard.
- When using the turn signal.
- If DSC Dynamic Stability Control intervenes.

### System limits

#### Safety information

-  **Observe the system limits**

#### **Warning**

The system is designed to operate in certain conditions and circumstances. Due to conditions or other factors, the system may not respond. There may be a risk of accident or risk of damage to property. Actively intervene as warranted. Refer to the information in this Owner's Manual regarding the scope of the system's operation and limitations.

#### Functional limitations

The system may not be fully functional in the following situations:

- In heavy fog, wet conditions, or snowfall.
- In the event of missing, worn, poorly visible, merging, diverging, or multiple lane markings such as in construction areas.
- When lane markings are covered in snow, ice, dirt or water.
- In tight curves or on narrow lanes.
- When lane markings are covered by objects.
- When driving very close to the vehicle in front of you.
- If there are constant blinding effects because of oncoming light, for instance from the sun low in the sky.
- If the field of view of the camera or the windshield is dirty or covered in the area of the interior mirror.
- If the camera has overheated and been temporarily switched off due to excessively high temperatures.
- Up to 10 seconds after the start of the engine via the Start/Stop button.
- During calibration of the camera immediately after vehicle delivery.

A Check Control message may be displayed when the system is not fully functional.

## Blind spot collision warning

### Concept

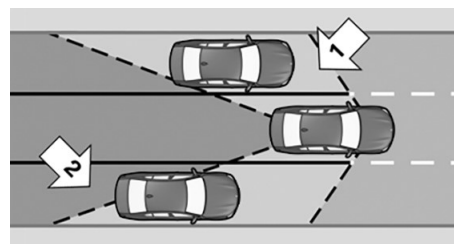
- **Video: blind spot collision warning**

Blind spot collision warning



Blind spot collision warning detects vehicles in the blind spot or vehicles approaching from behind in the adjacent lane. A warning is issued in various gradations in these situations.

### General information



Two radar sensors in the rear bumper monitor the area behind and next to the vehicle when traveling faster than a minimum speed.

The minimum speed is country-specific and is displayed in the menu for the intelligent Safety systems.

The system indicates whether there are vehicles in the blind spot, arrow 1, or approaching from behind in the adjacent lane, arrow 2.

The light in the exterior mirror lights up dimmed.

Before you change lanes after setting the turn signal, the system issues a warning in the situations described above.

The light in the exterior mirror flashes and the steering wheel vibrates.

Vehicles with side collision mitigation: at speeds of up to 130 mph/210 km/h, the system can intervene with a brief active steering intervention and help guide the vehicle back into the lane. The steering intervention occurs when a minimum speed is reached. This minimum speed is displayed on the Control Display in the menu for the steering intervention.

## Safety information

—  **Observe surrounding traffic and adapt driving style**

 **Warning**

The system cannot serve as a substitute for the driver's personal judgment in assessing visibility and traffic situation. There is a risk of accident. Adjust driving style to traffic conditions. Watch traffic closely and actively intervene where appropriate.

—  **Observe surrounding traffic and adapt driving style**

 **Warning**

Indicators and warnings cannot serve as a substitute for the driver's personal judgment. Due to its limits, the system may not issue warnings or reactions, or these may be issued late or in a manner that is not consistent with their normal use. There is a risk of accident. Adjust driving style to traffic conditions. Watch traffic closely and actively intervene where appropriate.

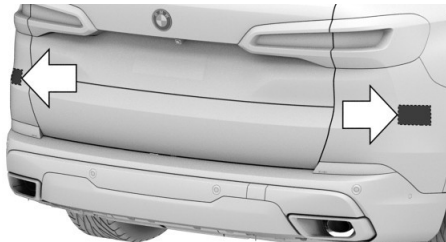
## Overview

### Button in the vehicle



 **Intelligent Safety**

### Radar sensors



The radar sensors are located in the rear bumper.

Always keep the bumper in the area of the radar sensors clean and unobstructed.

## Switching on/off

### Switching on automatically

Blind spot collision warning is automatically activated after departure if the function was switched on at the end of the last trip.

### Switching on manually



Press the button.

The menu for the Intelligent Safety system is displayed.

If all Intelligent Safety systems were switched off, all systems are now switched on.

"Configure INDIVIDUAL": depending on the equipment version, the Intelligent Safety systems can be individually configured. The individual settings are activated and stored for the driver profile currently used. As soon as a setting is changed on the menu, all settings of the menu are activated.



Press the button repeatedly.

The following settings are switched between:

"ALL ON": all Intelligent Safety systems are switched on. Basic settings are activated for the subfunctions.

"INDIVIDUAL": the Intelligent Safety systems are switched on according to the individual settings.




Some Intelligent Safety systems cannot be individually switched off.

### Manual switching off



Press and hold this button.

All Intelligent Safety systems are switched off.

Button	Status
	Button lights up green: all Intelligent Safety systems are switched on.
	Button lights up orange: some Intelligent Safety systems are switched off or currently unavailable.
	Button does not light up: all Intelligent Safety systems are switched off.

### Setting the warning time

Via iDrive:

1. "CAR"
2. "Settings"
3. "Driver Assistance"
4. "Safety and warnings"
5. "Active Blind Spot Detection"
6. Select the desired setting:
  - "Early"
  - "Medium"
  - "Late"
  - "Off": with this setting, no warning is output.

The setting is stored for the driver profile currently used.

### Setting the intensity of the steering wheel vibration

Via iDrive:

1. "CAR"
2. "Settings"
3. "Driver Assistance"
4. "Steering wheel feedback"
5. "Vibration intensity"
6. Select the desired setting.

The setting is applied to all Intelligent Safety systems and stored for the driver profile currently used.

### Vehicles with side collision mitigation: switching steering intervention on/off

The steering intervention can be switched on and off separately for blind spot collision warning and lane departure warning.

Via iDrive:

1. "CAR"
2. "Settings"
3. "Driver Assistance"
4. "Safety and warnings"
5. "Active Blind Spot Detection"
6. "Steering intervention"

The setting is stored for the driver profile currently used.

### Warning function

#### Light in the exterior mirror



#### **Prewarning**

The dimmed light in the exterior mirror indicates when there are vehicles in the blind spot or approaching from behind.

#### **Acute warning**

When the turn signal is switched on while a vehicle is in the critical zone, the steering wheel vibrates briefly and the light in the exterior mirror flashes brightly.

The warning stops when the other vehicle has left the critical area or the turn signal has been deactivated.

#### **Vehicles with side collision mitigation**

When there is no response to the vibration of the steering wheel at speeds of up to 130 mph/210 km/h and the lane marking is crossed, the system intervenes with a brief active steering intervention. The steering intervention helps return the vehicle into the lane. The steering intervention can be noticed on the steering wheel and can be manually overridden at any time.

#### **Flashing of the light**

A flashing of the light during vehicle unlocking serves as system self-test.

#### **System limits**

##### **Safety information**

---

—  **Observe the system limits**

##### **Warning**

The system is designed to operate in certain conditions and circumstances. Due to conditions or other factors, the system may not respond. There may be a risk of accident or risk of damage to property. Actively intervene as warranted. Refer to the information in this Owner's Manual regarding the scope of the system's operation and limitations.

#### **Upper speed limit**

If the vehicle speed exceeds approx. 155 mph/250 km/h, the system is deactivated temporarily.

If the vehicle speed falls below approx. 155 mph/250 km/h, the system once again responds according to the setting.

#### **Functional limitations**

The system may not be fully functional in the following situations:

- When a vehicle is approaching at a speed much faster than your own.
- In heavy fog, wet conditions, or snowfall.
- In tight curves or on narrow lanes.
- If the bumper is dirty, iced up, or covered, for instance by stickers.
- After improperly performed work on the vehicle paint.
- If cargo protrudes.

Attaching any objects such as stickers or film in the beam area of the radar sensors will also impact the function of the radar sensors and may even cause them to fail.

For vehicles with side collision mitigation, the steering intervention can be limited, for instance in the following situation:

- In the event of missing, worn, poorly visible, merging, diverging, or multiple lane markings such as in construction areas.
- When lane markings are covered in snow, ice, dirt or water.
- When lane markings are not white.
- When lane markings are covered by objects.
- When driving very close to the vehicle in front of you.
- If there are constant blinding effects because of oncoming light, for instance from the sun low in the sky.
- If the field of view of the camera or the windshield is dirty or covered in the area of the interior mirror.
- If the camera has overheated and been temporarily switched off due to excessively high temperatures.
- Up to 10 seconds after the start of the engine via the Start/Stop button.
- During calibration of the camera immediately after vehicle delivery.

A Check Control message is displayed when the system is not fully functional.

#### **Displaying warnings**

Depending on the selected warning settings, e.g., warning time, more or fewer warnings can be displayed. However, there may also be an excess of premature warnings of critical situations.

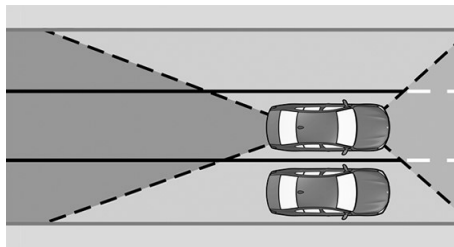
## **Side collision mitigation**

### **Concept**

The system helps to avoid imminent side collisions.

### **General information**





Four radar sensors in the bumpers monitor the space next to the vehicle from a minimum speed of up to approx. 130 mph/210 km/h.

The minimum speed is country-specific and is displayed in the menu for the intelligent Safety systems.

The front camera determines the lane marking positions.

If, for instance, another vehicle is detected next to the vehicle and if there is a risk of collision with this vehicle, the system helps avoid the collision. For this purpose, the system issues a warning with a flashing LED in the exterior mirror and a vibrating steering wheel. If necessary, the system will carry out an active steering intervention.

### Safety information

—  **Observe surrounding traffic and adapt driving style**

 **Warning**

The system cannot serve as a substitute for the driver's personal judgment in assessing visibility and traffic situation. There is a risk of accident. Adjust driving style to traffic conditions. Watch traffic closely and actively intervene where appropriate.

—  **Observe surrounding traffic and adapt driving style**

 **Warning**

Indicators and warnings cannot serve as a substitute for the driver's personal judgment. Due to its limits, the system may not issue warnings or reactions, or these may be issued late or in a manner that is not consistent with their normal use. There is a risk of accident. Adjust driving style to traffic conditions. Watch traffic closely and actively intervene where appropriate.

### Functional requirement

The camera must detect the lane markings for the side collision mitigation with steering intervention to be active.

### Overview

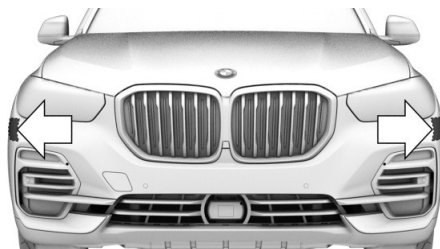
#### Button in the vehicle



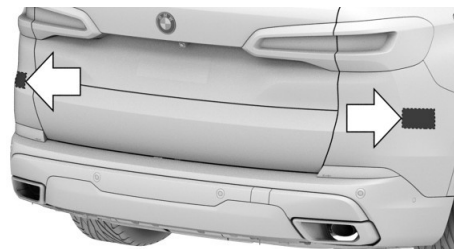
 **Intelligent Safety**

#### Radar sensors

The radar sensors are located in the bumpers.



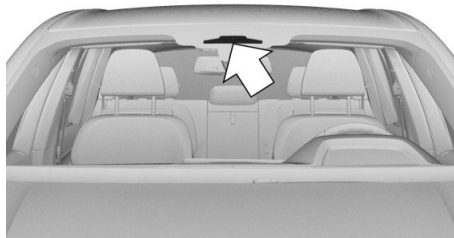
Front bumper.



Rear bumper.

Always keep the bumper in the area of the radar sensors clean and unobstructed.

**Camera**



The camera is installed near the interior mirror.

Keep the windshield in front of the interior mirror clean and clear.

**Switching on/off**

**Switching on automatically**

The side collision mitigation activates automatically after departure if the function was switched on at the end of the last trip.

**Switching on manually**



Press the button.

The menu for the Intelligent Safety system is displayed.

If all Intelligent Safety systems were switched off, all systems are now switched on.

\*Configure INDIVIDUAL\*: depending on the equipment version, the Intelligent Safety systems can be individually configured. The individual settings are activated and stored for the driver profile currently used. As soon as a setting is changed on the menu, all settings of the menu are activated.



Press the button repeatedly.

The following settings are switched between:

\*ALL ON\*: all Intelligent Safety systems are switched on. Basic settings are activated for the subfunctions.

\*INDIVIDUAL\*: the Intelligent Safety systems are switched on according to the individual settings.



Some Intelligent Safety systems cannot be individually switched off.


**Manual switching off**



Press and hold this button.

All Intelligent Safety systems are switched off.

Button	Status
	Button lights up green: all Intelligent Safety systems are switched on.
	Button lights up orange: some Intelligent Safety systems are switched off or currently unavailable.

Button	Status
	Button does not light up: all Intelligent Safety systems are switched off.

### Setting the intensity of the steering wheel vibration

Via iDrive:

1. "CAR"
2. "Settings"
3. "Driver Assistance"
4. "Steering wheel feedback"
5. "Vibration intensity"
6. Select the desired setting.

The setting is applied to all Intelligent Safety systems and stored for the driver profile currently used.

### Warning function

#### Light in the exterior mirror



#### Acute warning

If there is a risk of collision, the light in the exterior mirror flashes and the steering wheel vibrates.

A Check Control message is displayed at the same time.

If necessary, an active steering intervention takes place to prevent the collision and maintain the vehicle within its own lane.

The steering intervention can be noticed on the steering wheel and can be manually overridden at any time.

### System limits

#### Safety information

—  **Observe the system limits**

 **Warning**

The system is designed to operate in certain conditions and circumstances. Due to conditions or other factors, the system may not respond. There may be a risk of accident or risk of damage to property. Actively intervene as warranted. Refer to the information in this Owner's Manual regarding the scope of the system's operation and limitations.

#### Functional limitations

The system may not be fully functional in the following situations:

- When a vehicle is approaching at a speed much faster than your own.
- In heavy fog, wet conditions, or snowfall.
- In tight curves or on narrow lanes.
- If the bumper is dirty, iced up, or covered, for instance by stickers.
- After improperly performed work on the vehicle paint.
- If cargo protrudes.
- In the event of missing, worn, poorly visible, merging, diverging, or multiple lane markings such as in construction areas.
- When lane markings are covered in snow, ice, dirt or water.
- When lane markings are covered by objects.
- When driving very close to the vehicle in front of you.
- If there are constant blinding effects because of oncoming light, for instance from the sun low in the sky.
- If the field of view of the camera or the windshield is dirty or covered in the area of the interior mirror.
- If the camera has overheated and been temporarily switched off due to excessively high temperatures.
- Up to 10 seconds after the start of the engine via the Start/Stop button.
- During calibration of the camera immediately after vehicle delivery.

Attaching any objects such as stickers or film in the beam area of the radar sensors will also impact the function of the radar sensors and may even cause them to fail.

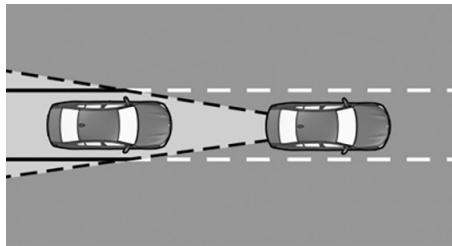
A Check Control message is displayed when the system is not fully functional.

### Rear collision preparation

#### Concept

The system reacts to vehicles approaching from behind.

### General information



Two radar sensors in the rear bumper monitor the area behind the vehicle.

When a vehicle approaches from the rear at a certain speed, the system responds as follows:

- Active Protection: when a collision seems to be unavoidable, PreCrash functions are triggered.

### Safety information

-  **Observe surrounding traffic and adapt driving style**



#### Warning

The system cannot serve as a substitute for the driver's personal judgment in assessing visibility and traffic situation. There is a risk of accident. Adjust driving style to traffic conditions. Watch traffic closely and actively intervene where appropriate.

-  **Observe surrounding traffic and adapt driving style**

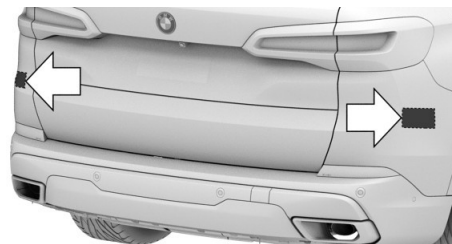


#### Warning

Indicators and warnings cannot serve as a substitute for the driver's personal judgment. Due to its limits, the system may not issue warnings or reactions, or those may be issued late or in a manner that is not consistent with their normal use. There is a risk of accident. Adjust driving style to traffic conditions. Watch traffic closely and actively intervene where appropriate.

### Overview

#### Radar sensors



The radar sensors are located in the rear bumper.

Always keep the bumper in the area of the radar sensors clean and unobstructed.

### Switching on/off

The system is automatically active after every driving off.

The system is deactivated in the following situations:

- When driving in reverse.

### System limits

The system may not be fully functional in the following situations:

- When a vehicle is approaching at a speed much faster than your own.
- When the approaching vehicle approaches slowly.
- In heavy fog, wet conditions, or snowfall.
- In tight curves or on narrow lanes.
- If the bumper is dirty, iced up, or covered, for instance by stickers.
- If the field of view of the sensors is covered, e.g., by garage walls, hedges or snow hills.
- If cargo protrudes.

## If equipped with Equipment Stop Assistant

### Concept

- **Video: Emergency Stop Assistant**

Emergency Stop Assistant



If the driver is no longer fit to drive, the system helps to safely bring the vehicle to a standstill.

### General information

The emergency stop function is not triggered automatically. The emergency stop function can only be triggered manually by the occupants.

When the system is activated, the vehicle is brought to a standstill in its own lane by use of lane guidance.

Depending on the equipment version and national market version, the system includes a lane change function.

With lane change function: On motorways or motorway-like roads, the system steers the vehicle to the side of the road or shoulder where possible. On other roads or under high traffic conditions, the vehicle is brought to a standstill on the actual road.

### Overview



1 Automatic Hold

2 Parking brake

### Functional requirements

- The function can be activated at speeds of approx. 6 mph/10 km/h up to approx. 155 mph/250 km/h.
- Lane changes are executed at speeds of approx. 43 mph/70 km/h up to approx. 62 mph/100 km/h.

### Activating the emergency stop function



Pull the switch for the parking brake briefly to activate the emergency stop function.

- With lane change function: releasing the switch may trigger an automatic lane change.
- The system will take control of the vehicle for a maximum of 2 minutes.
- The hazard warning system is switched on.
- An Emergency Request is triggered.

### Canceling the emergency stop function

The driver can cancel the emergency stop function by actively taking control of the vehicle throughout the entire process.

For instance, the emergency stop function will be canceled in the following situations:

- When steering.
- When using the turn signal.
- During acceleration.
- When switching off the hazard warning system.
- When canceling the Emergency Request.
- When switching the selector lever position at standstill.
- When the driver's foot remains on the accelerator pedal after the function has been triggered.
- When the switch of the parking brake is pressed.


### At standstill

As soon as the vehicle is stationary, the system will carry out the following settings:







- Selector lever position P is engaged.
- Parking brake is set.
- Interior lights are switched on.

– Central locking system is unlocked.

### Displays in the instrument cluster

Symbol	Status
	Emergency Stop function active.

Without lane change function:

Symbol	Status
	Green steering wheel symbol: When lane markings are detected, the system keeps the vehicle in the lane.
	Gray steering wheel symbol: Lane guidance is briefly interrupted.
	Yellow steering wheel symbol: Lane marking driven over. When lane markings are detected, the system keeps the vehicle in the lane.
	Yellow steering wheel symbol: The hands are not grasping the steering wheel. The system is still active.
	Red steering wheel symbol and a signal sounds: The hands are not grasping the steering wheel. Interruption of lane guidance is imminent.
	Red steering wheel symbol and a signal sounds: Lane guidance is switched off.

### System limits

Use the system only in the event of a driver failure.

The system cannot replace the driving performance of a driver who is fit to drive.

## BMW Drive Recorder

### Concept

The system stores brief video recordings of the surrounding area of the vehicle, e.g., to document traffic events.

Additionally, the following parameters are stored for the trip:

- Date.
- Time.
- Vehicle speed.
- GPS coordinates.

### General information

There are various ways for storing video recordings:

- Automatic storage of the recording. The function allows the documentation of the event of an accident.
- Manual storage of the recording. The function allows the documentation of traffic situations.

The system records up to 20 seconds before and after the activation of the storage.

Cameras of the assistance systems are used, for instance Panorama View.

### Data protection

The permissibility of recording and using video recordings is contingent upon the statutory regulations of the country in which the system is to be used. The user is responsible for the use of the system and compliance with the respective regulations.

The manufacturer of the vehicle recommends confirming there are no statutory or regulatory constraints on use of the system in your state or country prior to the initial use. In addition, the laws with respect to use of the system should be verified in regular intervals, especially when borders are frequently crossed.

Other drivers of the vehicle must be informed about the system. In addition, information about the system is required when handing off the vehicle.

## Functional requirements

- The system is activated.
- Recording type selected.
- Recording time selected.

## Activating/deactivating

The BMW Drive Recorder must be activated before the first use of the recording function.

Via iDrive:

1. "Apps"
2. "Drive Recorder"
3. "Settings"
4. "Recording allowed"
5. Select the desired setting.

## Recording functions

### Automatic recording

The recording is stored automatically when the vehicle sensors detect an accident occurrence.

### Manual recording

Using the button:



1 Panorama View on/off

Via iDrive:

1. "Apps"
2. "Drive Recorder"
3. "Start recording"

To stop the recording: "Cancel".

Recording can also be started by selecting the widget on the Control Display.

### Recording playback and administration

Stored video recordings can be played back, exported and deleted.

For your own safety, the video recording is only displayed on the Control Display up to approx. 2 mph/3 km/h. In some national-market versions, the recording is only displayed if the parking brake is engaged or if the selector lever is in selector lever position P.

Via iDrive:

1. "Apps"
2. "Drive Recorder"
3. "Saved recordings"
4. Select desired recording.
5. Select the desired setting:
  - "Play"
  - "Pause"
  - "Previous recording"
  - "Next recording"
  - "Export"
  - "Delete"

If a camera change occurred during the recording, different segments of the video can be selected.

## Adjusting

### General information

Different settings can be made.

### Recording type

Via iDrive:

1. "Apps"
2. "Drive Recorder"
3. "Settings"
4. "RECORDING TYPE"
5. Select the desired setting:
  - "Manually"
  - "Automatically"

### Recording time

Via iDrive:

1. "Apps"
2. "Drive Recorder"
3. "Settings"
4. Select the desired setting:
  - "Before trigger" Recording time before an event.
  - "After trigger" Recording time after an event.

### Cameras

Via iDrive:

1. "Apps"
2. "Drive Recorder"
3. "Settings"
4. "Camera selection"
5. Select desired camera.

In case of an accident, the system switches automatically to "All" cameras.

If driver assistance systems are active, their camera views are selected automatically.

### System limits

In the event of serious accidents, it may not be possible to store recordings if the damage on the vehicle is too great or the power supply was interrupted.

## Active Protection

### Concept

— **Video: active Protection**

Active Protection



Active Protection prepares occupants and the vehicle for a possible accident in critical driving or collision situations.

### General information

Active Protection consists of various PreCrash functions, which can vary depending on the equipment.

The system is used to detect certain critical driving situations that might lead to an accident. This includes the following critical driving situations:

- Emergency stop.
- Severe understeering.
- Severe oversteering.

Certain functions of several systems can, within the system limits, lead to Active Protection triggering:

- Front collision mitigation: automatic brake intervention.
- Front collision mitigation: Brake Assistant.
- Rear collision preparation: detection of imminent rear collisions.

### Safety information

—  **Observe surrounding traffic and actively intervene where appropriate**



**Warning**

The system cannot serve as a substitute for the driver's personal judgment. Due to the system limits, critical situation could not be detected reliably or in time. There is a risk of accident. Adjust driving style to traffic conditions. Watch traffic closely and actively intervene where appropriate.

### Function

When the safety belt is fastened, the driver's and passenger's belt straps are automatically tightened once after driving away.

In accident-critical situations, the following individual functions become active as needed:

- Automatic pretensioning of the front safety belts.
- Automatic window closing up to a narrow gap.
- Automatic closing of the panoramic glass sunroof, including sun protection.
- For vehicles equipped with comfort seats in the front: automatic positioning of the backrest for the front passenger seat.

After a critical driving situation without an accident, the front safety belts are loosened again.

If the belt tension does not loosen automatically, stop the vehicle and unbuckle the safety belt using the red button in the buckle. Fasten the safety belt before continuing on your trip.

All other systems can be restored to the desired setting.



## PostCrash – iBrake

### Concept

In the event of an accident, the system can bring the vehicle to a halt automatically without intervention by the driver in certain situations. This can reduce the risk of a further collision and the consequences thereof.

### At standstill

After coming to a halt, the brake is released automatically.

### Harder vehicle braking

In certain situations, it can be necessary to bring the vehicle to a halt more quickly than the Brake Assistant allows.

To do this, quickly apply extra force to the brake. For a brief period, the braking pressure will be higher than the braking pressure that is achieved by the automatic braking function. Automatic braking is interrupted.

### Interrupting automatic braking

It can be necessary to interrupt automatic braking in certain situations, for instance for an evasive maneuver.

Interrupt automatic braking:

- By pressing the brake pedal.
- By pressing the accelerator pedal.


## Fatigue alert

### General information

The system can detect decreasing alertness or fatigue of the driver during long, monotonous trips, for instance on highways. In this situation, it is recommended that the driver takes a break.

### Safety information

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–  **Always drive well rested and attentively**

 **Warning**

The system cannot serve as a substitute for the driver's personal judgment in assessing one's physical state. An increasing lack of alertness or fatigue may not be detected or not be detected in time. There is a risk of accident. Make sure that the driver is rested and alert. Adjust driving style to traffic conditions.

### Function

The system is switched on each time drive-ready state is switched on.

After travel has begun, the system monitors certain aspects of the driver's behavior, so that decreasing alertness or fatigue can be detected.

This procedure takes the following criteria into account:

- Personal driving style, for instance steering behavior.
- Driving conditions, for instance time, length of trip.
- Attention of the driver through the Driver Attention Camera.

Starting at approx. 43 mph/70 km/h, the system is active and can also display a recommendation to take a break.

### Break recommendation

#### Adjusting

The fatigue alert is active automatically with each switching on of drive-ready state and can thus display a break recommendation.

The break recommendation can also be switched on or off and adjusted via iDrive.

Via iDrive:

1. "CAR"
2. "Settings"
3. "General settings"
4. "Fatigue and Focus Alert"
5. Select the desired setting:
  - "Standard": the break recommendation is made with a defined value.
  - "Sensitive": the break recommendation is issued earlier.
  - "Off": no break recommendation is made.

#### Display

If the driver becomes less alert or fatigued, a message is displayed in the Control Display with the recommendation to take a break.

During the display, various settings can be selected.

After a break, another recommendation to take a break cannot be displayed until after approximately 45 minutes.

#### System limits

The function may be limited in the following situations and may issue an incorrect warning or no warning at all:

- When the clock is set incorrectly.
- When the vehicle speed is mainly below about 43 mph/70 km/h.
- With a sporty driving style, such as during rapid acceleration or when cornering fast.
- In active driving situations, such as when changing lanes frequently.
- When the road surface is poor.
- In the event of strong side winds.

The system is reset approx. 45 minutes after parking the vehicle, for instance in the case of a break during longer trips on highways.