

First head-up display in a Panamera

A range of standard or optional assistance systems ensure a safe and comfortable journey in the new Panamera GTS models. Proven systems such as the Lane Change Assist function and Lane Keeping Assist including traffic sign recognition are now joined by the first head-up display in a Panamera. This display system projects all relevant vehicle information directly into the driver's line of sight in full colour. Other highlights include the optional Porsche InnoDrive system and Night Vision Assist. This new feature uses a thermal imaging camera to identify people and larger animals at a distance of up to 300 metres. It then uses colour-coded warnings in the cockpit to alert the driver. If the new LED matrix main headlights with 84 individually activatable LEDs on each side are on board, people located well outside the dipped beam range are briefly illuminated if they are located inside the calculated corridor, allowing the driver to respond earlier.

Relieving strain on the driver: Porsche InnoDrive and Traffic Jam Assist

The Porsche InnoDrive function including adaptive cruise control can also think ahead. Based on three-dimensional, high-resolution navigation data, the system calculates and activates the optimum acceleration and deceleration values as well as gear and coasting settings for the next three kilometres. Acting as an electronic co-pilot, it automatically takes into account corners, inclines and speed limits. Other vehicles and current speed limits are recorded by the radar- and video-based sensor system and then incorporated into the vehicle response. The range of assistance systems has also been expanded to cover situations where driving a Porsche is not all pleasure – traffic jams. The Traffic Jam Assist system supports the driver by integrated longitudinal and lateral guidance of the vehicle in traffic jams at speeds up to 60 km/h. Controlled by the ACC function, the vehicle is able to follow an identified queue of cars supported by the electro-mechanical steering function, which can easily be overridden at any time.

Head-up display with customisable options

Coinciding with the launch of the new GTS models, Porsche is also introducing an optional head-up display for all Panamera models. Already available in the Cayenne, the system projects full-colour vehicle-relevant information directly into the driver's line of sight. The head-up display is discretely integrated into the dashboard directly in front of the windscreen. For the driver, the display appears around 2.3 metres in front of the vehicle, directly in their line of sight. The height, brightness and rotation of the head-up display can also be adjusted. Settings are configured in a separate menu directly in the Porsche Communication Management (PCM) system. Drivers can choose from a range of information to be projected onto the windscreen, such as sat-nav instructions, assistance system data, warnings and other events. The display area is split into six different sections.

Drivers can choose from four different presets, each of which display a range of vehicle information. The standard view primarily focuses on the activity and status of the assistance systems. The middle of the top line shows the same information as the instrument cluster display. The top-left of the display shows identified traffic signs that apply to the current route. The middle of the bottom line shows the current speed. If route guidance is active, navigation instructions appear on the right of the display. In Sport

Chrono mode, additional information is added to the head-up display. The middle of the top line shows the rev counter. If the Sport Response function is active, the top-right corner shows the remaining function time. The gear display appears at the bottom right. The left-hand side provides the driver with information about the lap time and lap number. The compact display strips back the information in the display to the bare essentials. For instance, the top section only shows the current speed limit and navigation instructions. The bottom section displays the current vehicle speed and assistance system status. If necessary, the driver can create a customised view for the display. This enables drivers to select from the individual display elements. User-specific displays are configured in the PCM.

In addition, situational information is displayed regardless of the selected preset. For instance, a large warning symbol appears if the vehicle is at risk of a collision. Symbols also appear to alert the driver if there is an incoming call or if voice control is activated. Since the display automatically switches between day and night, the displays are easier to see at the corresponding time of day. Alternatively, the driver can change the display manually.