

Cloud

Infotainment

Devices

eCall



Advanced motorcycle connectivity solutions

Universally connected for safety and comfort on two wheels





Connectivity – Always in touch.

Networking motorcycles with the outside world via future-oriented connectivity solutions helps to make driving on two wheels safer and more comfortable.

The importance of intelligent transportation systems rises day by day due to higher traffic density and speed. Since motorcyclists are especially vulnerable to the dangers of modern traffic, Continental has created a whole range of applications to increase safety on two wheels.

The integration of wearable devices like rider gloves with haptic alert help riders to drive more safely. Additionally, connectivity solutions like the eCall system ensure fast assistance in case of an emergency.

Besides safety aspects, comfort can also be significantly increased with Continental connectivity solutions. For example, riders can connect their smartphones to the bike's system and use them for navigation and audio streaming.

Connectivity in all areas – Advantages at a glance

Infotainment & control units

- Easy entertainment and information control
- Distortion-free intercommunication
- Extensive functions thanks to smartphone connection
- Compact and rugged black box design
- Ergonomic mounting as per customer demand
- Multiple vehicle network interfaces
- Additional GSM/GPRS and GPS/GLONASS modules with improved vehicle integrated antenna design

Motorcycle communication to surroundings

- Enhanced route guidance and navigation
- Cooperative collision warning
- Lane change warning
- Optimal traffic light scheduling

Security: eCall

- Automatic in-vehicle emergency call system
- Triggered automatically in case of a serious accident
- Can also be triggered manually
- Location of affected rider will be transmitted to the nearest emergency service – even if the rider does not know or is not able to communicate the current position

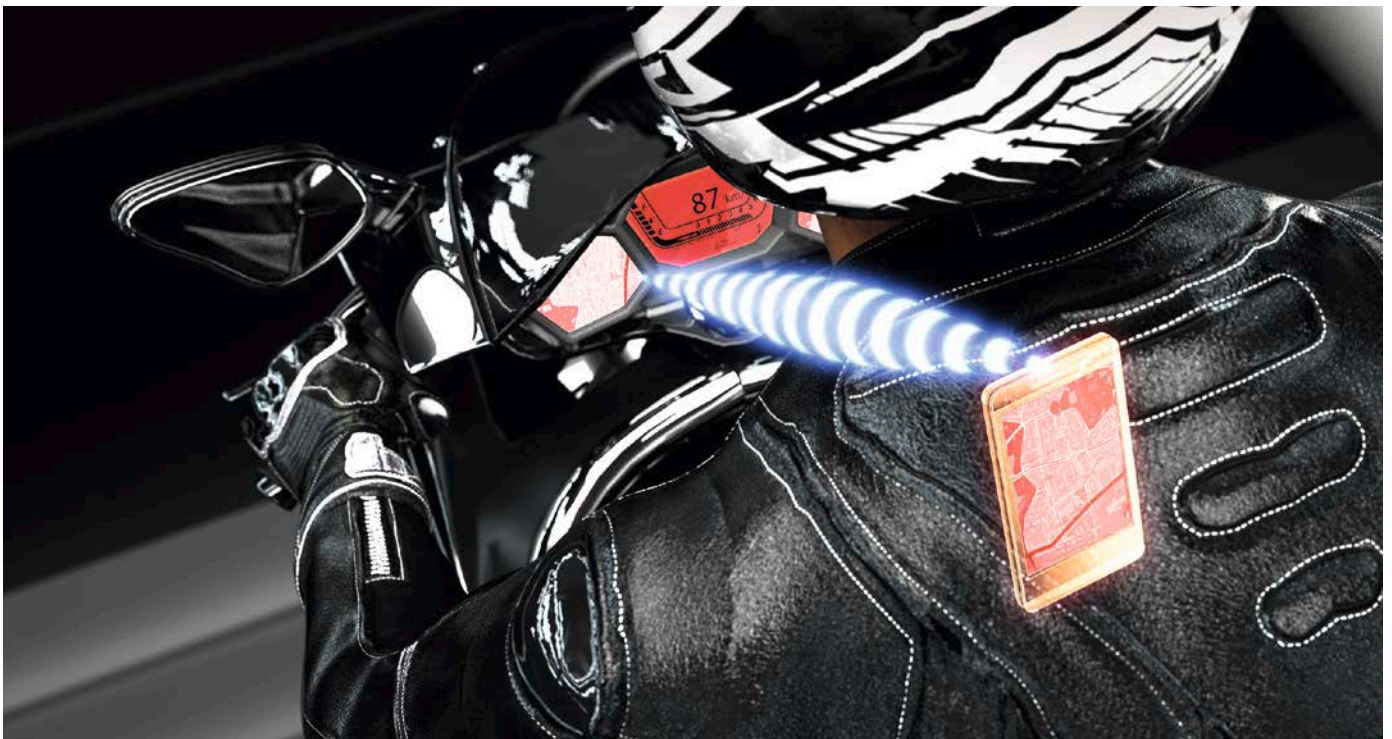
Wearable devices

- Haptic rider assistance for fast reaction time
- All relevant information directly in sight
- Increased safety thanks to warning sensor connections



Networked infotainment and control.

Continental has more than 100 years of experience in providing a wide range of vehicle information technologies. As a result, we have created a totally new generation of dynamic user interface concepts by combining our powerful Connectivity Box with a high resolution TFT display. This way the rider receives the necessary information at the right time with minimal distraction and thus ensuring a high level of comfort and safety.



The motorcycle Connectivity Box

The Continental Connectivity Box for motorcycles monitors and controls numerous comfort, safety and security functions like keyless start, advanced light and heating management, tire pressure and much more.

The unit also includes additional inputs and outputs for actuators that are available to control further functions.

Telephony control

- › Control and view smartphone contact list
 - › Initiate, answer and reject calls, and read SMS
 - › Call diversion to pillion rider
 - › Rider and pillion rider helmet intercommunication
 - › Smartphone Assistance Call Button
(Siri - iOS, Google Now - Android, Cortana - MS-Windows)
- and others directly on the bike's electronic instrument cluster.

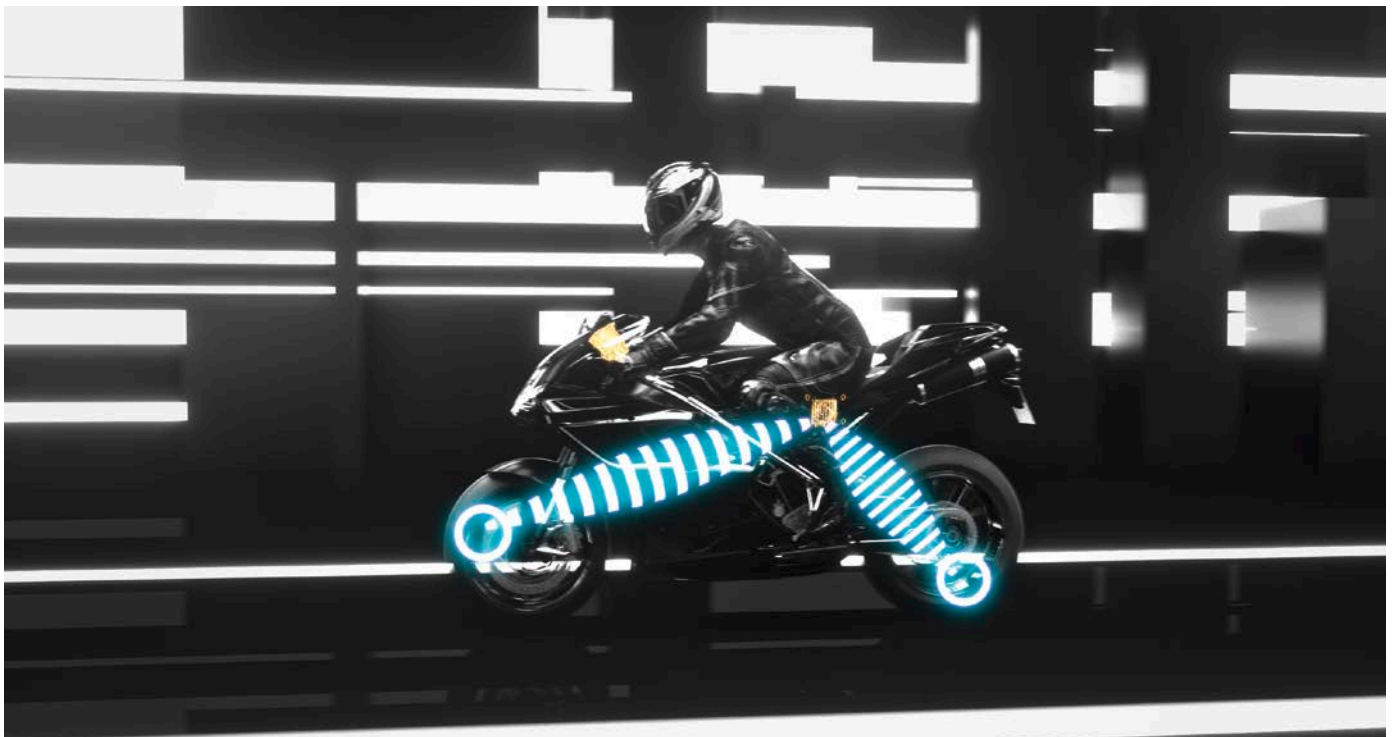
Pairing devices & Audio streaming

Devices like smartphones or mp3 players can be paired for navigation and audio streaming. Riders can control the audio streaming directly through the TFT dashboard of the bike. Different ways of sound playback are provided to the rider as well as to the pillion rider:

- › Sound directly on the helmets of both rider and pillion rider
- › Sound over the audio system of the bike

Powerful devices for instant information and direct rider assistance.

Smart devices like watches with body temperature sensor, heart rate monitoring and haptic alert support riders while driving. With the innovative head-up-display navigation information, vehicle data and traffic information are presented to the rider in real time on an augmented reality display directly in the helmet. Continental holds the essential expertise to integrate a wide range of devices into all types of two wheelers and ATVs (all-terrain vehicle = quadbike).



Range of powerful devices

- › Integrated head-up-display directly in the helmet
- › Haptical feedback gloves
- › Devices for short range intercommunication
- › Tire pressure monitoring sensors
- › Airbag vests
- › Smart watches



Maximum efficiency and safety: Intelligent systems for vehicle communication.

A modern understanding of vehicle safety involves more than just ensuring the protection of rider and pillion rider in case of an accident. It includes foresighted reduction of risks through intelligent rider assistance as well as ensuring fast rescue in case of an emergency.



Connectivity for maximum safety with eCall

With the Connectivity Box and corresponding infrastructure, Continental has created a reliable system that is capable of providing the eCall service in case of an emergency.

The abbreviation eCall stands for an automatic in-vehicle emergency call system. It can be triggered manually or automatically in case of a serious accident. eCall will transmit the location of

the affected rider to the nearest emergency service - even if the rider does not know or is not able to communicate their current position.

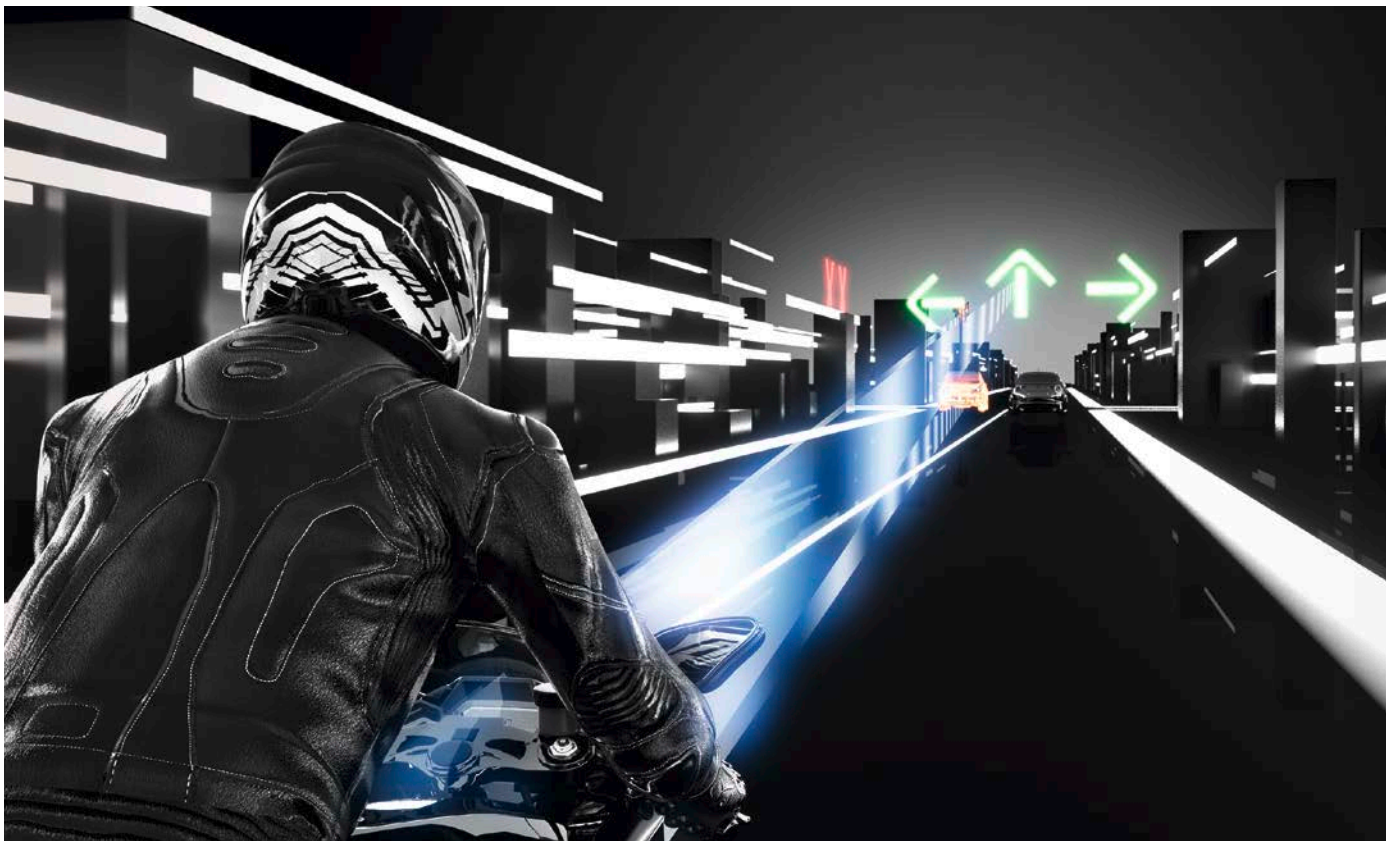
With the integration of our Connectivity Box the bike is ready for eCall functions when mandated by legislation or eCall as a third party service.

The eCall in-vehicle-system comprises of:

- › Connectivity box (electronic control unit)
- › Positioning system (GPS / Glonass)
- › Communication system (GSM / GPRS)
- › Human-machine interaction (HMI)
- › Push button for manual eCall
- › Audio connection button to emergency center

Foresighted motorcycles – communicating with their surroundings.

Thanks to intelligent transportation systems, vehicles will be able to communicate with each other and with the infrastructure surrounding them. The Continental Connectivity Box signifies an essential part of future transportation systems by facilitating a variety of foresighted vehicle functions. These functions will significantly improve road safety and fuel efficiency providing a perfect overview of traffic conditions at the present and upcoming road.



The functions developed through vehicle communication comprise:

- › Enhanced route guidance and navigation
- › Cooperative collision warning
- › Lane change warning
- › Optimal traffic light scheduling
- › eHorizon functionalities:
 - Speed alert / warning
 - Environment danger warning (dangerous curve / accident ahead)

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