



Bike Sharing 4.0

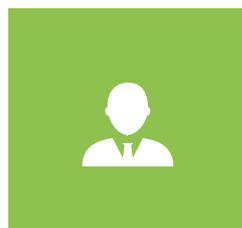
pironex-portal.de



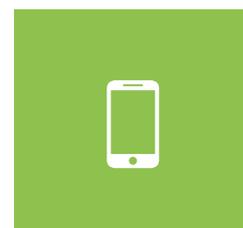
Chargers



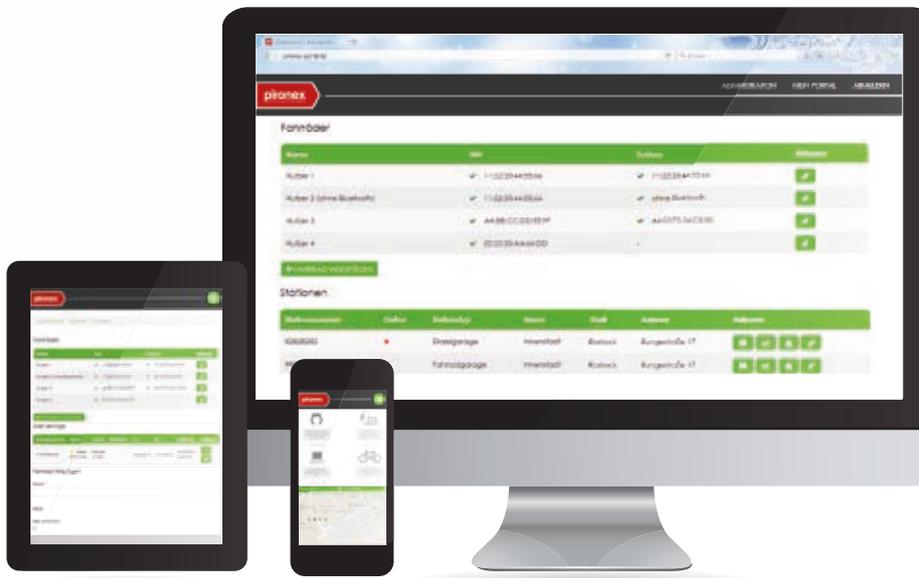
Locks



Management



Apps



pironex-portal.de

- A** **For operators:** pironex-portal.de/admin is an advanced management tool for bike sharing systems. It offers real-time fleet and station monitoring, backend tools for customer management, as well as system and financial reporting.
- B** **For customers / end-users:** Our system has been designed to provide simple and convenient access to the rental bikes. The cloud-based software enables customers to rent and return bikes on-demand. Our iOS and Android apps ensure seamless access to the system, real time information, user-friendly design and allow users to find and unlock bikes.
- C** **For you:** We offer customised and branded versions (including adoption of new graphic design, protocols or hardware components) of our website and our mobile applications.

Flexible solution designed to meet customer needs

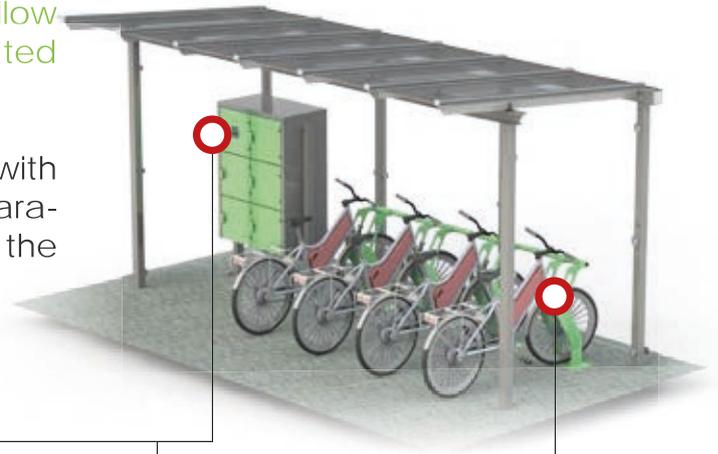




Rental stations

We offer electronic components for a wide variety of station configurations, that allow setup of multifunctional, fully automated systems which operates 24/7.

Our products enable locking the bikes with smart locks, remote control of system parameters and contactless access to the station.



Bluetooth
Bike Lock



OLED
Display



RFID /App
Access



Frontend/
Backend



User
Management



Reservation
System

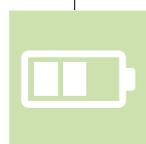
Scalable Bike Share Technology and
Fleet Management Software



Charging stations

Our electronic components for rental and charging station contain master units with the power supply, EnergyBus chargers and extremely efficient power management.

Electro-mechanic door locks with integrated return detection enable efficient management of the station.



Chargers
(EnergyBus)



Touch
Display



RFID /App
Access



Frontend/
Backend



User
Management



Reservation
System

"Mobility changes and we play a part of it."



Smart Bike

Our rental system for bikes is simple to install, operate and manage. It includes bike locks (piSmart-Lock, pi-Bike-Lock) that can be easily integrated into any bicycle frame and can be unlocked via app, user card or login at on-board computer.

Our intelligent equipment for (rental) bikes also includes further components such as on-board computer with e-paper display, transportable chargers for e-bikes as well as tracking or battery management systems.



One system - many possibilities

Our business model (B2B) is focused on providing a professional service and innovative products to the bike/e-bike/pedelec assemblers and manufacturers, as well as to create a best bike sharing solution adapted to our customer needs.

Created to be flexible and secure, our system allows future expansion and integration. It can be operated both by non-profit organisations as well as by commercial businesses and be either free of charge or on a payment basis.

Our system has been designed to provide simple and convenient bike access, anytime.

The user only needs to register with the service before their first rental. Once registered the user gets access to the system in order to:

1. Check the availability of bikes / e-bikes in their area (via app / web)
2. Reserve a bike via pironex-portal.de, via operator website or through [pironex-app](#) mobile application
3. Unlock the bike through a contactless identification system (RFID or Bluetooth LE)
4. Use the bike for their own needs
5. Take the bike back to one of the bike sharing stations or nearby a bike spot



Chargers




piCAN-Wallbox
(EnergyBus Wallbox with RFID reader and safe)



piCAN-Pocket-Charger
(EnergyBus charger with Bluetooth LE)



piCAN-Charger-60V
(EnergyBus charger; 14,4-56V)



piCAN-Charger-230V
(EnergyBus charger with integrated power supply)

Locks




piSmart-Lock
(Bike lock with Bluetooth LE and RFID reader)



piSmart-Lock Premium
(Bike lock with Bluetooth LE, RFID reader and GPS)



piBike-Lock
(Bike lock with Bluetooth LE)



piTrack-IoT
(GPS/GSM tracker with Bluetooth LE)

Rental Systems




piBike-HMI
(Board computer with e-paper display and RFID reader)



piA-SF
(Terminal system based on an IPC with Touch-Screen)



piCAN-TFT
(Terminal system based on an IPC with TFT display and RFID reader)



piCAN-Terminal
(Terminal system with OLED display and RFID reader)



piA-AM3352
(IPC for remote maintenance and control)



piCAN-Bike-Adapter
(EnergyBus adapter/interface converter)



piCAN-Box
(EnergyBus adapter with GPS/GSM, Bluetooth LE and RFID reader)



pironex-portal.de
(Reservation, management and billing system)



pironex GmbH

Stangenland 4
D-18146 Rostock

Phone: +49 381 700 60 80

Mail: info@pironex.de
www.pironex.de

Reference projects:

