



RAYVOLT



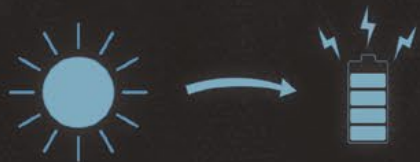
*Catalogue*

# THE RAYVOLUTION

The Rayvolt philosophy is to promote alternative transportation by offering our customers a clean, high-tech, and stylish way to commute.

The name comes from the Sun's rays and the electrical unit Volt. Put together, sounds like its homonym "revolt".

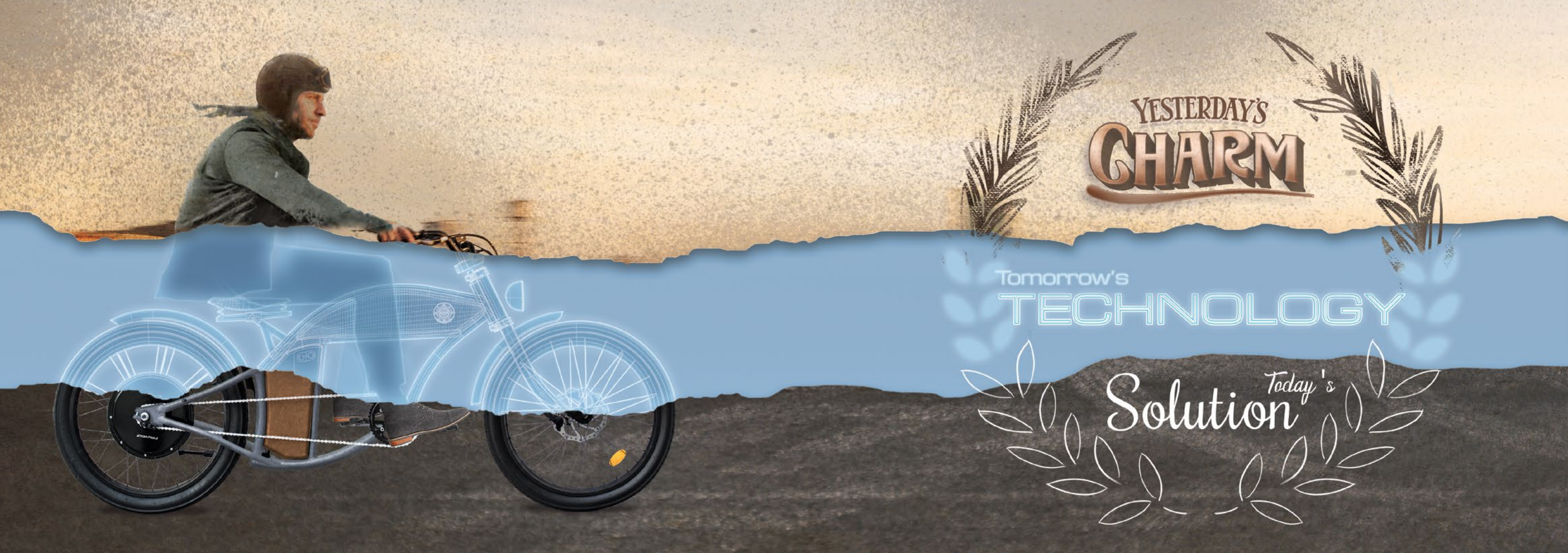
**The Sun's rays, the voltage and the revolutionary spirit are the fundamentals behind our brand.**



IT'S TIME TO BREAK THE CHAINS  
**FEEL THE FREEDOM**  
OF ALTERNATIVE COMMUTING







YESTERDAY'S  
**CHARM**

Tomorrow's  
**TECHNOLOGY**

Today's  
**Solution**



# Cruzer

## TIMELESS DESIGN

The original Rayvolt model, The Cruzer, was influenced by the first era of motorcycle from early 1900, the counter rock culture of 1960's Cafe Racer with a twist of California Beach Cruiser. This unique design combined with smart technology (EIVA) and state of the art BLDC motor stands out from the crowd.

**A timeless piece of transportation.**









# Cruizer

## COLOR AND TRIM

Get your custom color



### Clock Work Orange



### British Racing Green



### GUN METAL GREY







# TORINO

## THE GETAWAY BIKE

The Torino is a variation of our flagship model, the Cruiser. While still keeping the curved and powerful look of the frame, it has a sportier design; The look of a Cruiser with a more ergonomic geometry. Its sleek wide tires, compact profile and low center of gravity make this bike an ultra high-performing, City Carving Speedster. Its strong and aggressive profile, with hump-backed tubing, is reminiscent of the shape of a young bull, or “Taurus” in Latin; that’s why it’s called the Torino.







# TORINO

## COLOR AND TRIM



Get your custom color

pearl WHITE



GRAPHENE  
grey



electric  
green





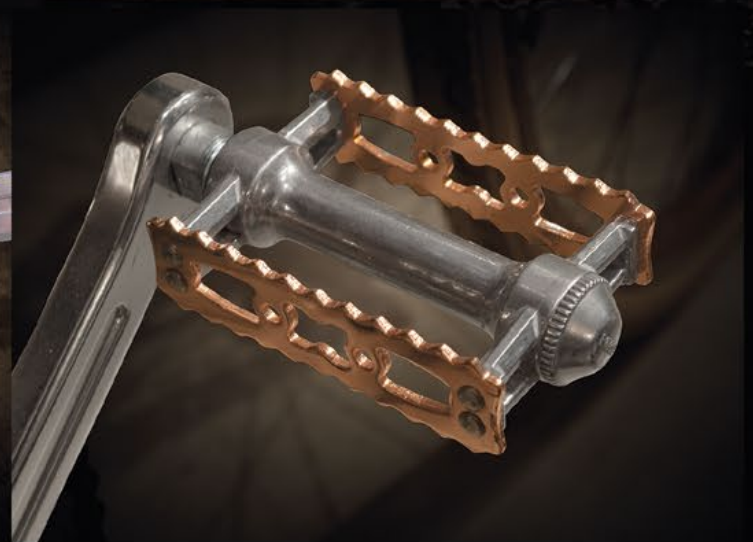
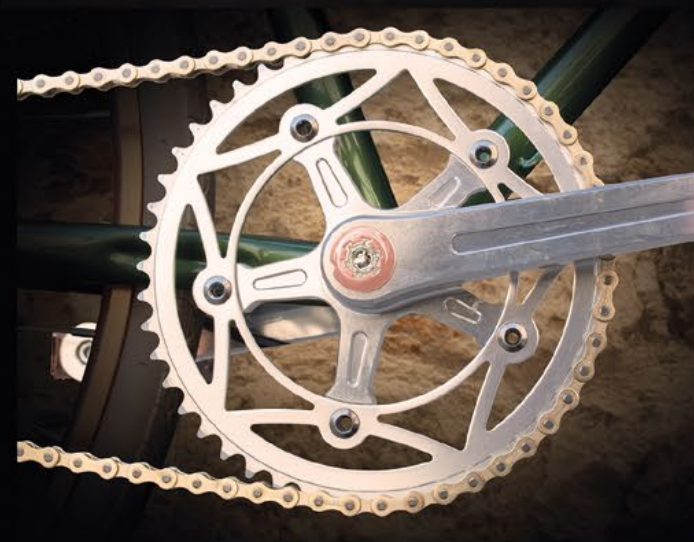
# Ambassador

## Neoclassic Spirit

Classic, yet far from conventional. Ambassador is the most aristocratic aesthetics bike that Rayvolt has designed to date. Delicately strong, this model combines a retro and neoclassical look with a focus on the details. This puts the bike in a class of its own that offers the perfect product for users who like traditional bicycles.









# Ambassador

COLOR AND TRIM

ROYAL BLUE



British Green



Burgundy Wine







# Clubman

## Live the city

A compact and urban bike that combines sport and refined style. For those who love the streets and the night. A comfortable vehicle for life in the city.







# Clubman

COLOR AND TRIM

**Black Shadow**



**British Green**





# Beachin'

*Wild and adventurous*

The Beachin' is Rayvolt's adventure bike. A large and muscle bicycle for the beach lovers. Its size and big wheels are perfect for riding through sand or on dirt roads. Despite its dimensions, it remains a stable and manageable bike.









# Beachin'

COLOR AND TRIM

*Vintage Green*



*Laguna Blue*





# The Trixie

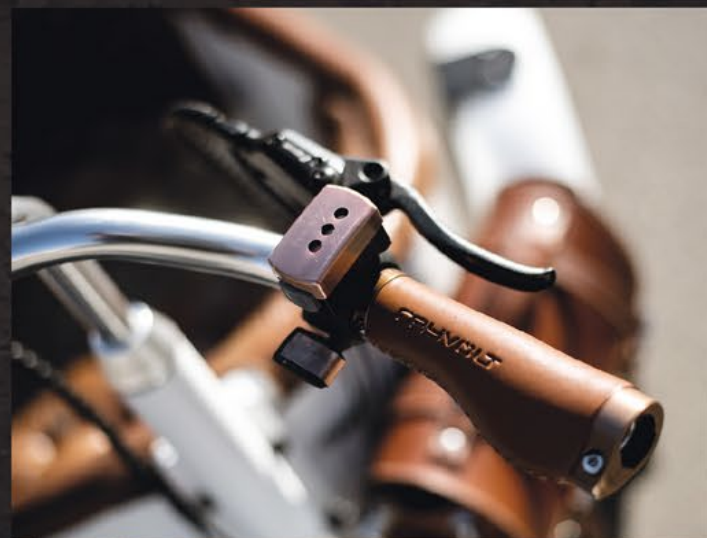
## Enjoy your daily life

This is the idea that sparked the Rayvolution; how do you combine a bike (the ultimate vehicle in an urban environment) with carrying young children around the city, and transporting other items, like shopping? This stylish vintage-looking, Cargo Tricycle allows you to safely carry 3 children, or an adult and a child, as well as all your groceries. Its low center of gravity allows the bike to safely turn at speed unlike its competitors.

With comfortable vintage leather, child seat belts and isofix fittings to “lock in” baby carriers, this bike has everything needed for transporting your family in comfort. This bike combines a great vintage look with the latest smart technology.















# Ringo

## *The Street Cowboy*

Off-Road yet urban. Compact but generous. Vintage yet modern. Ringo is a stylish post-apocalyptic looking compact bike, made for the city and the road with an all terrain versatility. This practical two-seater bike has a head-spinner look, that will let you be the eye-catcher of the road while riding with someone on the back. This bike combines a great look, a comfortable position, and the features of all the latest Rayvolt smart technology.







# Ringo

COLOR *and* TRIM

RAW  
SILVER



CLOCKWORK  
ORANGE



SHADOW  
BLACK





# Tomorrow's TECHNOLOGY



The EIVA is Rayvolt's custom designed software which is used to control, customize, and monitor your bike\*.

The EIVA computer can be mounted to the handlebars and is ready to go when you are. The app can be downloaded for use on an existing smartphone.

## 1. 360 Display

Monitor speed, battery state, MPH/KM Run, bike status and adjust pedal assistance.

## 2. Bluetooth

Monitor the connection between the bike and EIVA®.

## 3. Driving modes

Select a predesign configuration.

## 4. Advanced Settings

Customize all the parameters of your bike.

## 5. Support

Direct contact our Support Team.

## 6. Music

Play your music, your way.

## 7. Maps

GPS access.

## 8. RegenFit

Recharge your batteries and train indoor.

\*Available for all models except Beachin' and Clubman



**EIVA** App

Available for iOS & Android



# Technical Support Cloud based

## Technical Support directly from your EIVA device

### Need assistance?

Contact our Rayvolt Support Team from the Menu of your connected EIVA device or App.

With a simple touch, send us all the parameters of your bike. This information will be used to identify and diagnose any issue you may have, and give you the proper solution.



Contact our team  
using the EIVA App



Send your  
bike's status



And we will find the  
proper solution



# RAYTRACK

Using **Raytrack**, you can check your bike's\* location in real-time from your mobile device, anywhere in the world.

Raytrack uses GPS, GSM, and surrounding Wifi IPs to track the bike's location.

When the bike is within 20 meter range, Raytrack uses Bluetooth for short-range communication, which will display distance as a percentage as you approach the bike's pinpointed location.



GPS



WIFI



BEACON



IoT

\*Available for Cruiser, Torino and Ambassador



# RAYTRACK



Available for iOS & Android

[www.raytrack.rayvoltbike.com](http://www.raytrack.rayvoltbike.com)



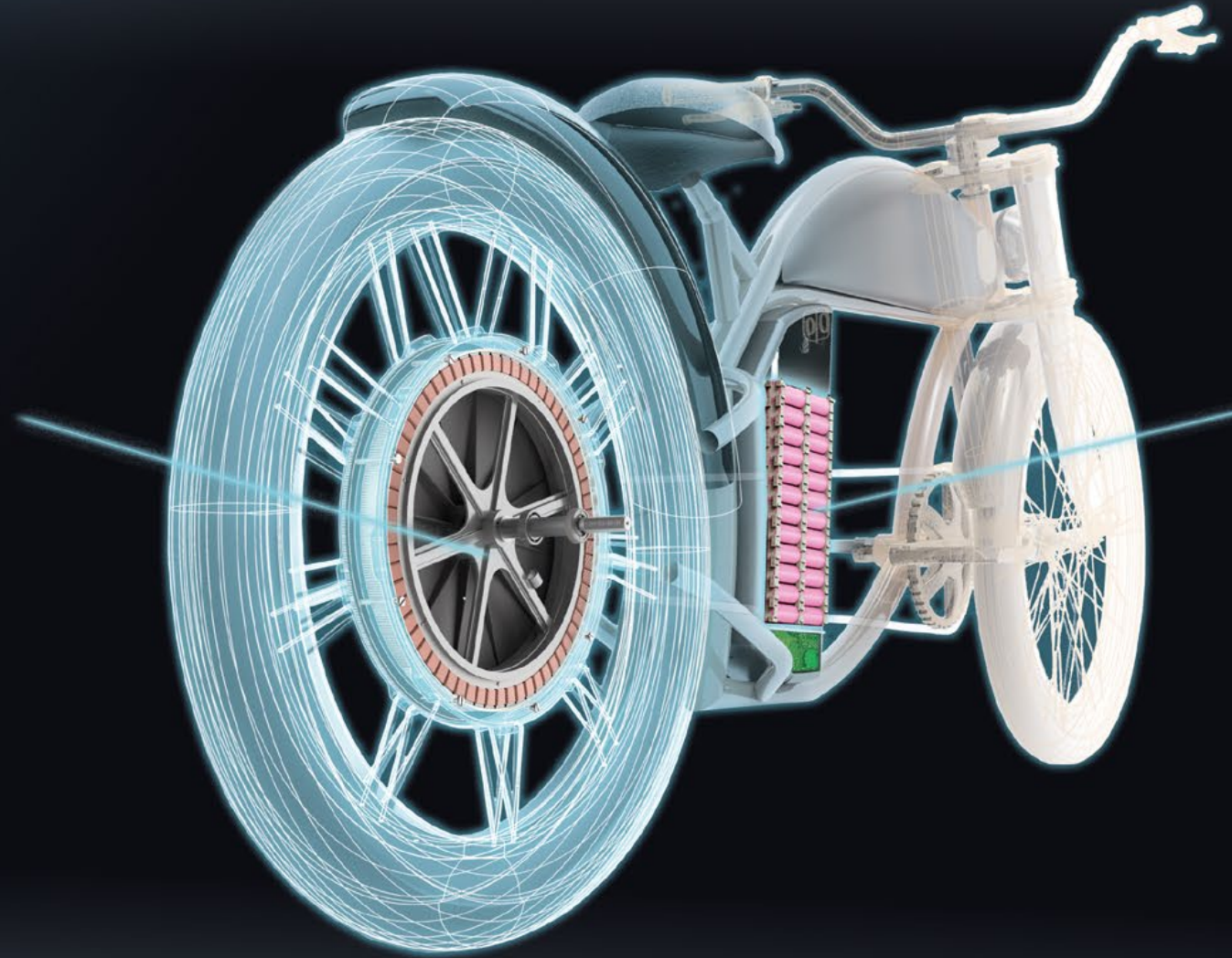
# The Motor ⚡

Rayvolt hubs are a complex brushless 3 phase dc motor comprising 48 different copper coils and magnets that are placed on the outermost perimeter of the motor for the best possible torque.

The controller receives heat and position data from the coils and within one millisecond computes where to put the next load.

Such accuracy produces a Pure Sine Wave (PSW) current, offering unmatched ride comfort:

**More Acceleration**  
**More Torque**  
**More Response**  
**Less Noise**  
**Less Vibration**  
**Less Consumption**



# The Battery 🔋

At the core of any electric vehicle, its performance and life expectancy are directly linked to the type of cell used. The capacity of the battery pack\* also depends on the number of cells used. Rayvolt uses 13 cells in a series to reach a nominal voltage of 48V. At peak voltage, a full charge of 54.6V gives incredible power.

We use a minimum of 4 cells in parallel (52 cells in total) or 8 cells in parallel (104 Cells in total). This gives an unmatched capacity of 550Wh and 1100Wh - most of the industry uses 300 to 360Wh.

Battery quality is linked to how the cells are packed and used. Using a state-of-the-art battery management system in our packs, each cell is connected to it before delivering the charge. This high-tech design balances the charge between each cell and can cut the connection in case of a short circuit. This ensures the best possible performance while making the battery safer.

\*Std Battery or Dual Battery only for Cruiser, Torino, Ambassador and Trixie



# Smart Features



AI adapts to cycling environment with **Gyrosensor**



**Intelligent Pedal Assist** with multiple choices

Power assistance with gyroscope hill detection

Motor aid self adjust

## Dual Sensor Crank Set

The Electronic Crank is fitted with a Load Cell measuring the torque applied to the pedal as well as the crank rotary speed. The controller computes those two values, and with our algorithm, provides a perfectly smooth pedal stroke based on the pressure you apply.

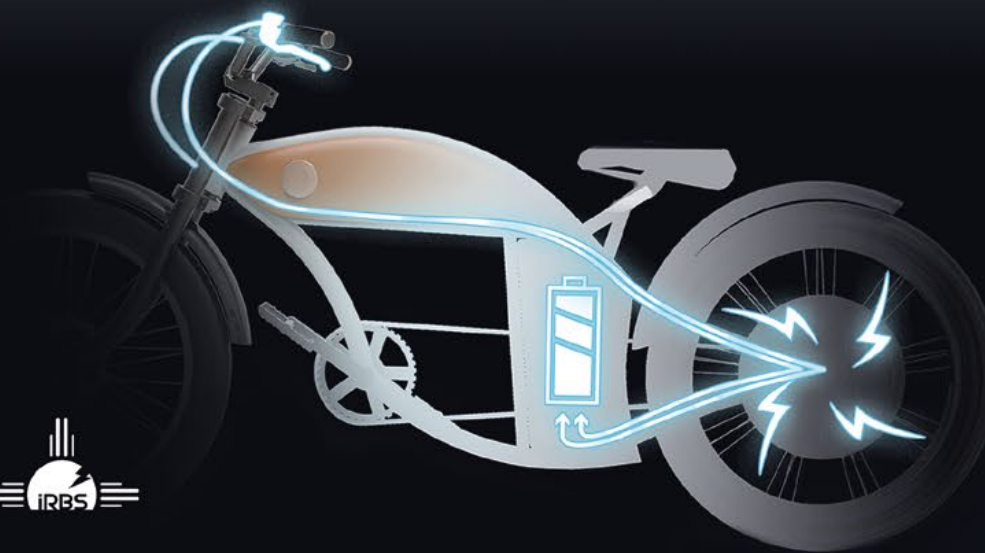
**A Real Bionic Sensation!**



## Intelligent Regenerative Brake System

We created an electronic braking system, fitted into the brake levers, that sends a data signal to the controller that provokes a reverse effect in the motor. This converts torque into resistance using the wheel inertia to generate electricity and recharge the batteries.

In simple words, regenerative braking acts like an ultra powerful dynamo when the levers are pulled.



Use bike inertia to **recharge** your battery



The intelligent iRBS is linked to EIVA's built-in gyroscope allowing the bike to detect the cycling environment. It then provides the necessary amount of regenerative brake according to the angle of the hill.

iRBS paired with the cloud-based ITS allows you to remotely lock your rear wheel.



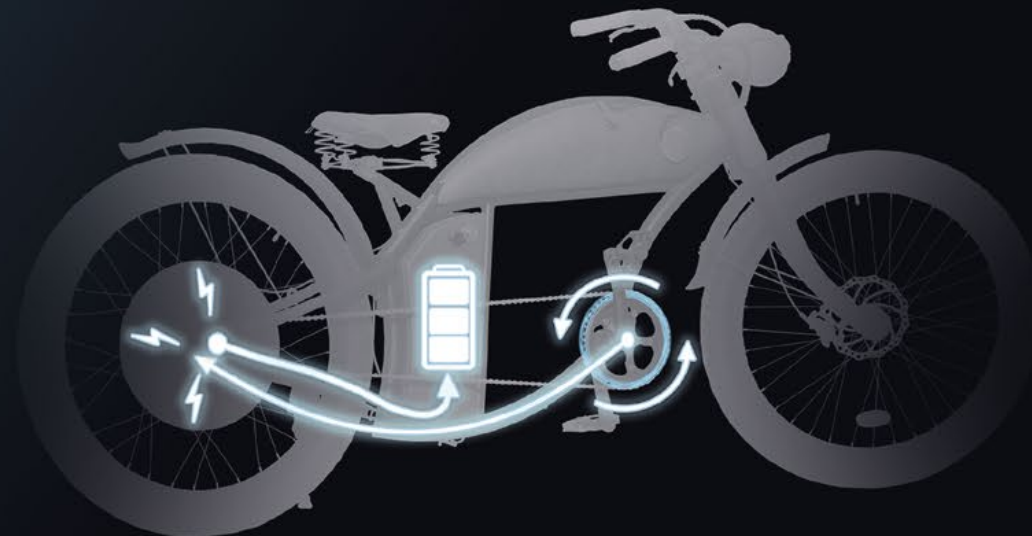
# Smart Features



## Regenerative Back-Pedaling Brakes

While rotating the pedals backward, a pedal sensor sends a data signal to the controller, which provokes a reverse effect in the motor.

Similar to a classic coaster brake with the extra benefits of battery recharge and a custom adjustable brake curve based on the back-pedaling speed.



The faster you  
back-pedal



The more you  
brake



The more you  
recharge



# REGENFIT

Recharge your batteries and train indoor

RegenFit™ is a smart feature and App for convert any Rayvolt bike into an indoor smart trainer. And, by using the electromagnetic field of the motor, its hall sensors, plus the cadence and torque sensors, we can also recharge the battery.

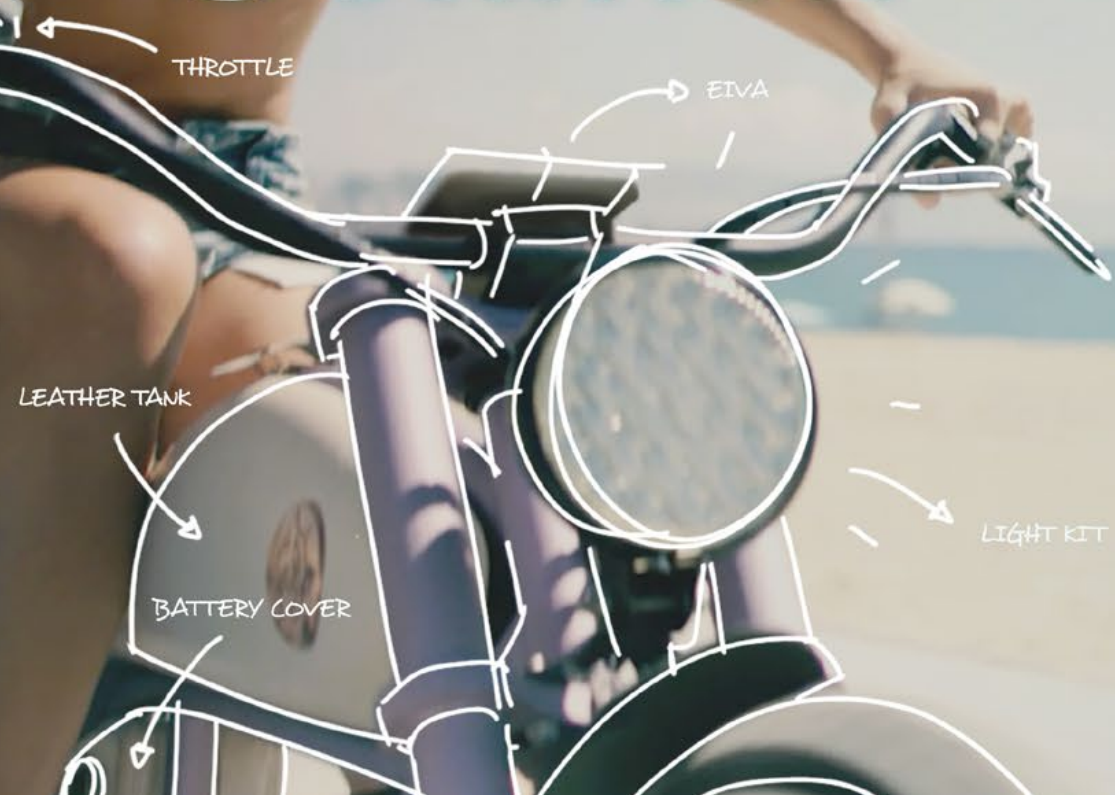
Through the sensors, you can monitorize all your training on the App, or connect them to cycling simulators.



Available inside EIVA App



# Today's Solution



With a simple touch on the **EIVA** App  
*you can customize  
your riding experience*

← **PEDAL** • **MOPED\*** →

**25 km/h Pedal  
Assisted Bike**

\*Coming soon. This option may  
not be available depending on  
the laws of your country and the  
model of your Rayvolt bike.



## Rayvolt Li-ion Charger Standard

### For:

Cruzer | Torino  
Ambassador | Trixie | Ringo

**Output:** 54.6V 4A

Std Battery: 3 hours charge\*

Dual Battery: 6 hours charge\*

## Rayvolt Li-ion Charger Standard 36V

### For:

Beachin' | Clubman  
Ringo

**Output:** 42V 4A

Std Battery: 2,5 hours charge\*

XL Battery: 4 hours charge\*



## Train

### RegenFit

RegenFit turns your Rayvolt ebike into an indoor smart trainer, and allows you to charge your battery by pedaling. Up to 20% charge in 30 minutes!

\*Depending on the settings



## Charge

### Electricity

While enjoying your Rayvolt bike you can charge the battery thanks to our Regenerative Brake System and the Regenerative Back-Pedaling Brakes.



## Change



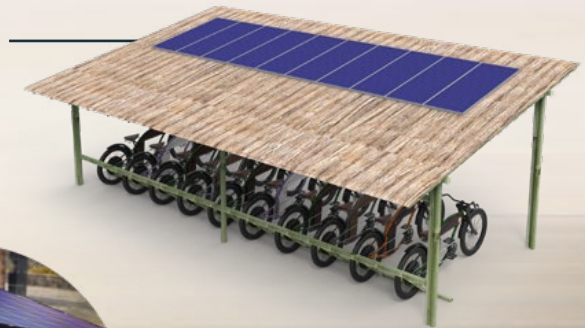
### Solar energy

Since we started our company, we have been testing new ways of charging our bikes with renewable energy. We have developed several projects based on Solar Energy.\*

\*Ask us for project status, prices and availability.

## Solar Docking Station

**10 bikes Bamboo Solar Park**  
Custom design 100% ECO



### Solar Dock

## Foldable Solar Bike Cover

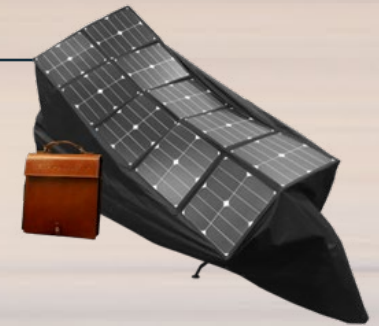
**Std Battery:**

15% Charge in 1 hour\*

**Dual Battery:**

7% Charge in 1 hour\*

\*Depens on solar condition







Leather bag



Leather mudguard



Leather jacket



Rear bag



Vintage Helmet



Discover more Rayvolt lifestyle  
[www.rayvoltbike.com](http://www.rayvoltbike.com)





# Portable Battery



## The Trixie

Use your battery cover as a regular bag.  
Wear it! Handle and comfortable for everyone.

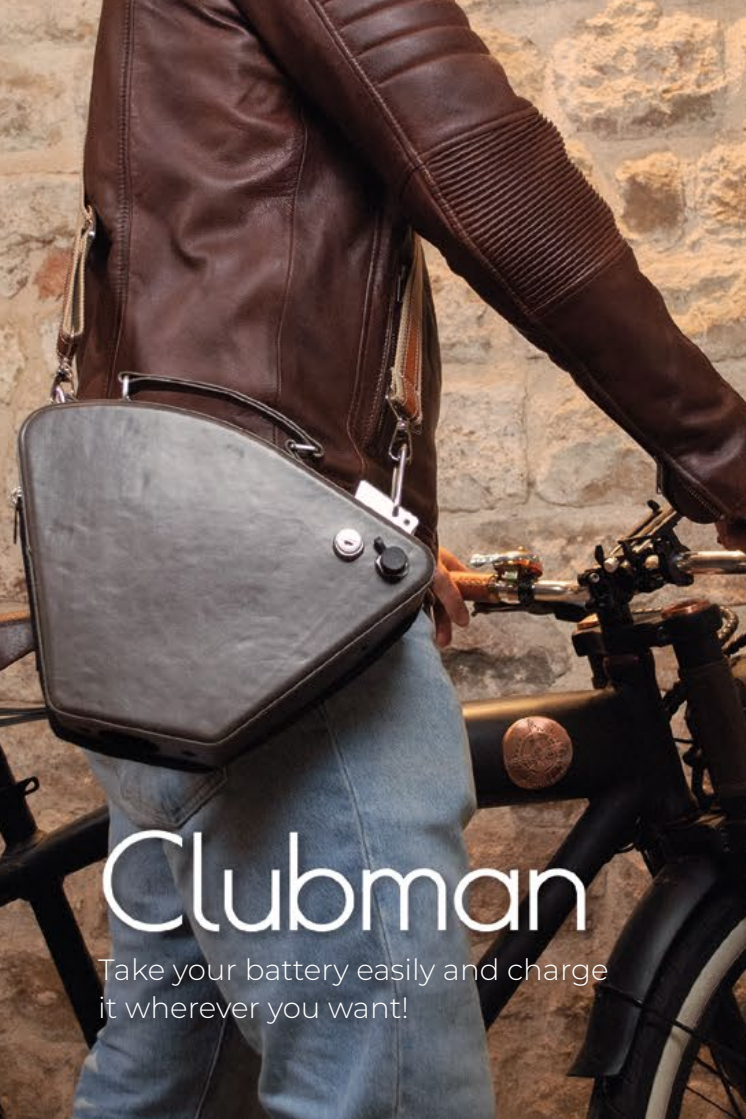


## Beachin'

The battery cover includes a security system  
to prevent theft.

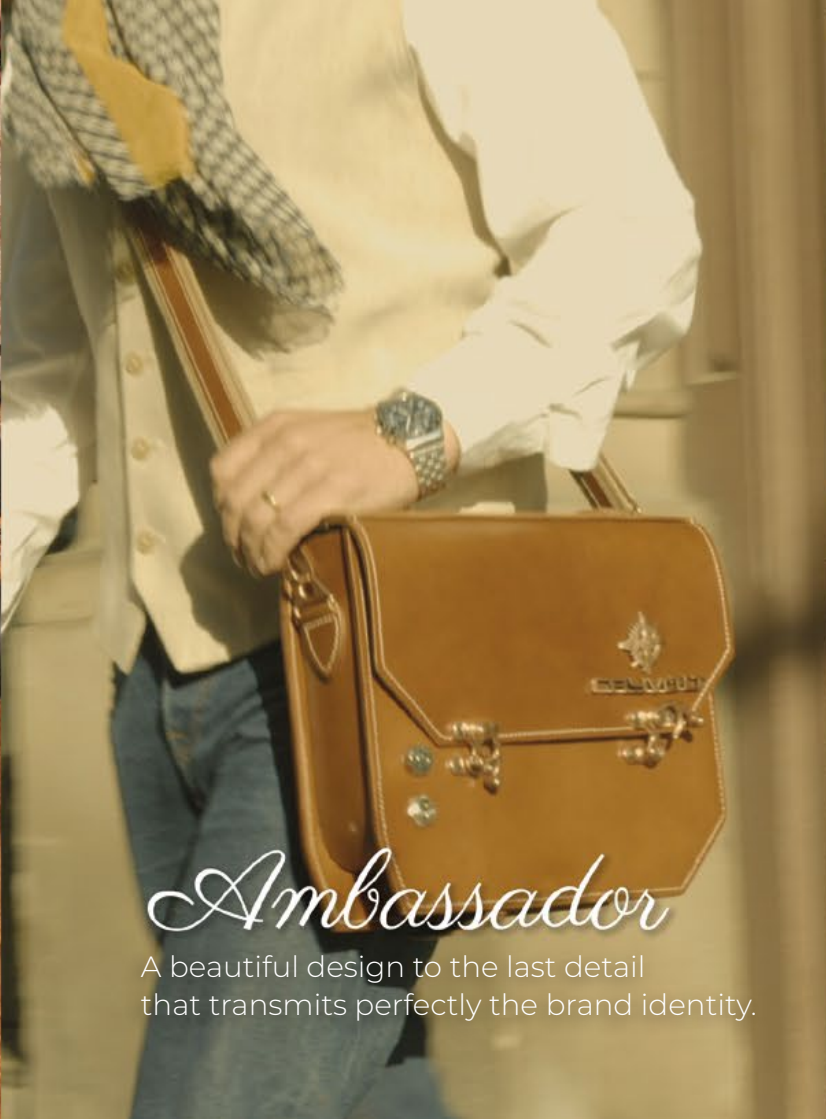






# Clubman

Take your battery easily and charge it wherever you want!



# Ambassador

A beautiful design to the last detail that transmits perfectly the brand identity.











eXXite

eXXite is the new generation of modern electric bikes developed by Rayvolt, that brings experienced bicycle designer Mat Rauzier's vision to reality in a completely new way.

The brand sets the bar for the electric bike of the 21st century with multiple patented technologies that take its performance to the next level.

# DISCOVER THE NEW GENERATION

eXXite  
by RAYVOLT





JOIN  
THE  
RAY  
VOLUTI  
ON  
!