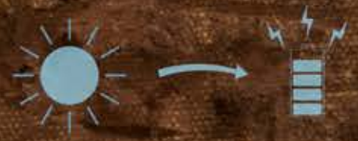

RAYVOLT
premium e-bikes

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 Cruzer. 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.

Cruzee

COLOR AND TRIM

Get your custom color

Clock Work Orange

British Racing Green

GUN METAL GREY

TORINO

STRONG CHARACTER

The Torino is a variation of our flagship model, the Cruzer. While still keeping the curved and powerful look of the frame, it has a sportier design; The look of a Cruzer 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. It's 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.


CAYVOLT
CAYVOLT


CAYVOLT

Ambassador

COLOR AND TRIM

British Green

ROYAL BLUE

Burgundy Wine

Clubman

Live the city

A compact and urban bike than 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

Blue Night

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.


revolt

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 isofit 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.


TRYVOLT

The Trixie

COLOR AND TRIM

Latte

Rose

Tila Green

Tomorrow's
TECHNOLOGY

EiVA

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 handle bars 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 & essential bike specs

2. Bluetooth
Monitor the connection between the bike and **Eiva®**

3. iPas Monitoring
Adjust your pedal assistance

4. Settings
Advanced configurations
Technical Support Chat: Talk to a live agent for support on the go

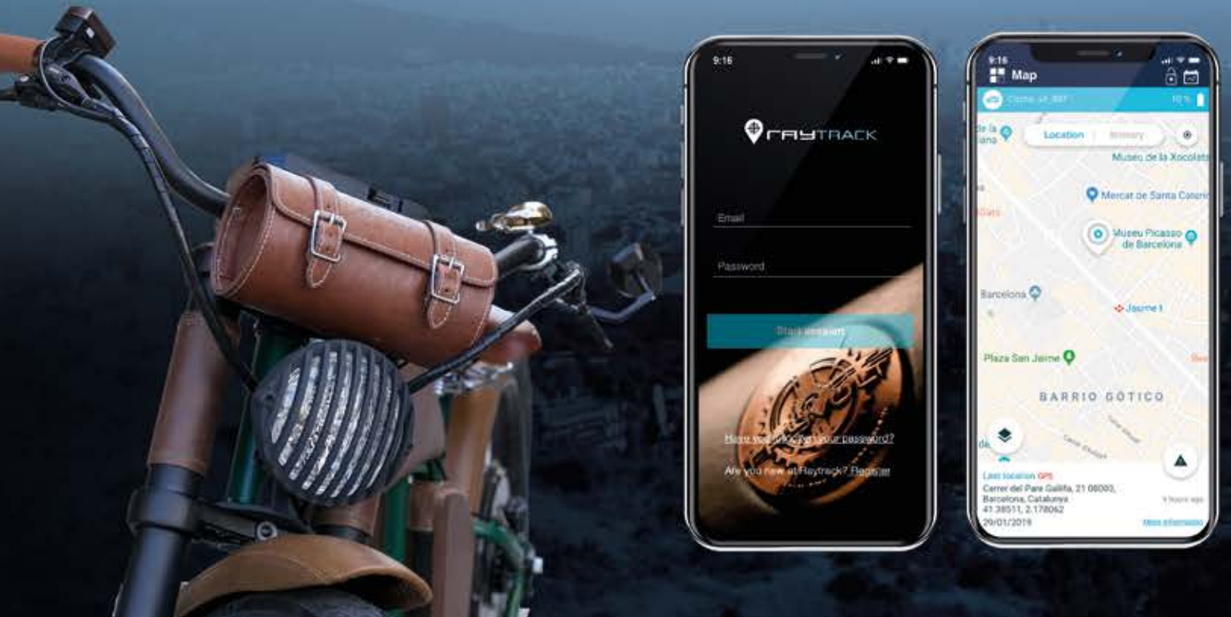
5. Music
Play your music, your way

6. Maps
GPS access

7. Information
Display Help

EiVA iOS
App
Avaliable for iOS & Android

GPS WIFI BEACON IoT



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, that will display distance as a percentage as you approach the bike's pinpointed location.

Technical Support
Cloud based

Having issues configuring my iPAS.

Please allow me to connect to your device and tune it.

Sure, fantastic.

Done, your iPAS was disabled in settings. I turned it on for you.

Works great now! Thanks.

Live Support directly from your EIVA device

Need assistance?
Chat Live with our dedicated Rayvolt Technical Support Team directly from your connected EIVA device.

Remote access allows the Technical Support Team to connect to your Rayvolt for help with settings or troubleshooting.

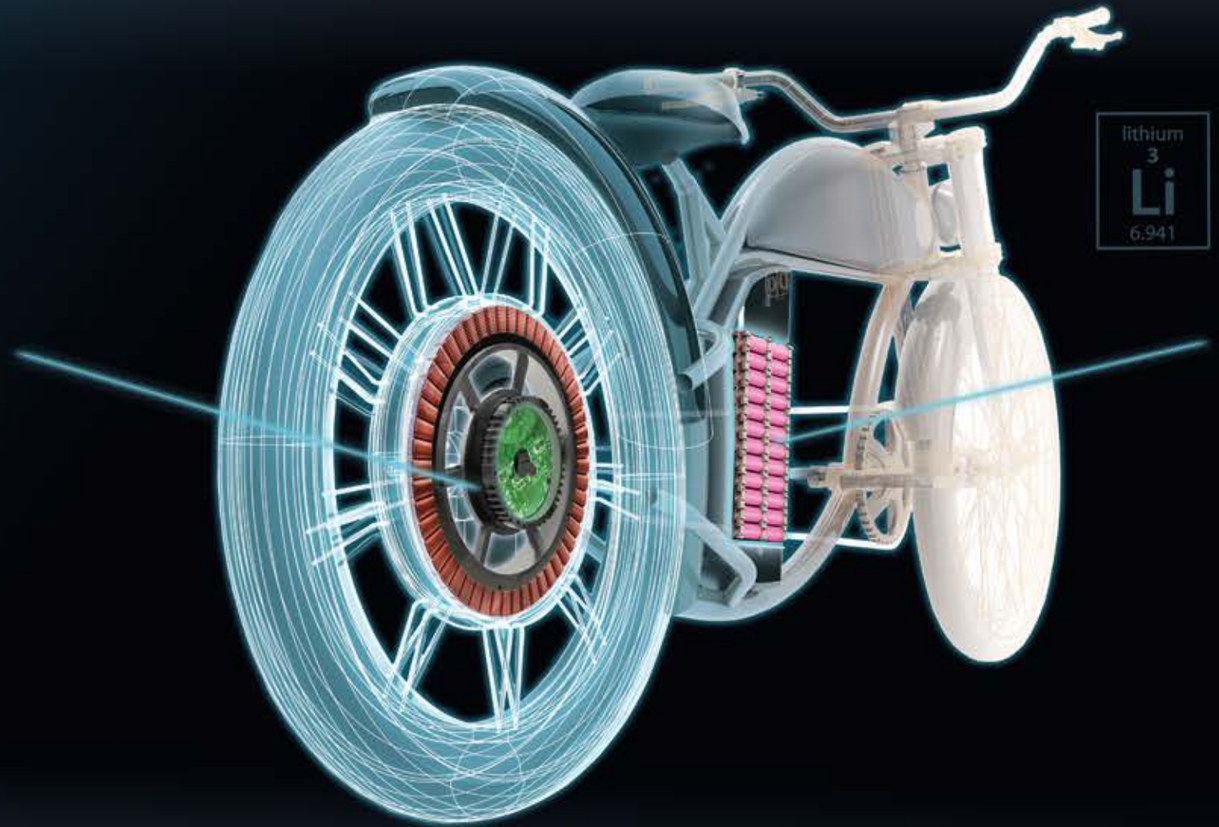
The MOTOR

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

The built-in 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



lithium
3
Li
6.941

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 amount 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 best possible performance while making the battery safer.

SMART FEATURES

AI adapts to cycling enviroment with **Gyrosensor**

Intelligent Pedal Assist with multiple choices

Power assistance with gyroscope hill detection

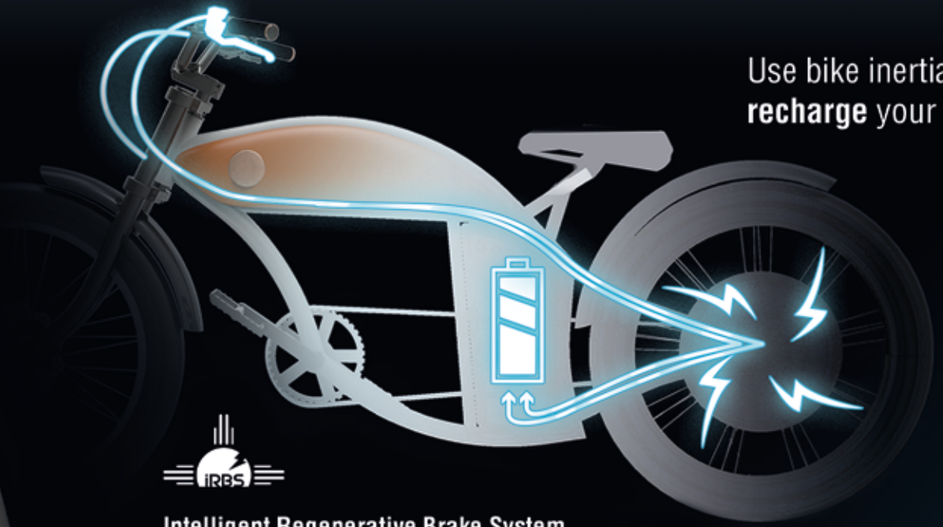
Motor aid self adjusts

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 !



Use bike inertia to **recharge** your battery

Intelligent Regenerative Brake System

We created an electronic braking system, fitted into the brake levers, that sends a data signal to the motor 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, the regenerative braking acts like an ultra powerful dynamo when the levers are pulled.

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.

Today's Solution

With a simple touch of the EIVA* App you can switch

from **25 km/h pedal assisted** vehicle
to a full powered **45 km/h Moped***

PEDAL — Assisted Bike

MOPED

*This option may need a licence plate in your country

RENAISSANCE 2.0

Accessories and Lifestyle

Extra Saddle

Are you riding with someone else?

Surfboard Carrier

Do you surf?

Picture by Andreas Sawitzki-Pedaliero

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Join the revolution!
Join the revolution!
RAYVOLT
JOIN THE RAY VOLUTION
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Portable Battery

The Trixie

Use your battery cover as a regular bag.
Wear it! Handle and confortable 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.

RANGE EPAC
25km/h
Standard 60km
Dual 120km

Range and Charge

RANGE MOPED
45km/h
Standard 40km
Dual 80km

SOLAR ENERGY

As protecting the environment is our primary goal, we offer **Solar Charging Bike Covers** at factory cost in order to encourage customers to go carbon neutral.
Commuting with a Rayvolt electric bicycle is 100% environmentally friendly as it produces zero emissions.
Our state of the art technology powers the bikes with maximum efficiency.

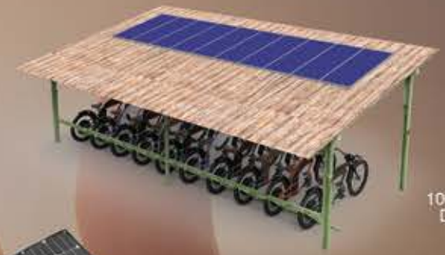
Epac
Pedal assistance mode. there are 6 levels of assistance ranging from "no aid" to "maximum assistance" each can be activated from EIVA.

ELECTRICITY

Even if EV are a lot cleaner than their combustion counterpart, keep in mind that grid electricity is never 100% clean.
We encourage you to switch to a company that offers renewable sources of power (solar, hydro, wind).
If your electricity is generated by coil, please consider our solar options.

Moped hybrid
The Rayvolt Bike is 100% compliant with the EU regulation for E-bikes: EN15194

Solar Dock



Solar Docking station
10 Bikes Bamboo Solar Park
Custom design
100% ECO Solar charging parking
Designed and built for Starboard

Foldable Solar Charger
std Battery : 15% Charge in 1 hour*
dual Battery : 7% Charge in 1 hour*

* Depends on solar condition

Rayvolt
Li-ion Fast Charger
Output 54.6V 10A
Std Battery: 1 hour charge
Dual Battery: 2 hour charge

Rayvolt
Li-ion Charger Standard
Output 54.6V 4A
Std Battery: 3 hours charge
Dual Battery: 6 hours charge

For indoor use only. Do not open High Voltage inside machine.

Charge Post
Charge up to 4 bikes
with Std battery in 1 hour

	Motor	Battery	Weight	Frame	Tires	Brakes	Speed control
Cruzer	Smart Hub 25 km/h - 50 Nm Power Hub 43 km/h - 100 Nm	Std Battery 48 V - 10,5 A Dual Battery 48 V - 21 A	L size 24 kg M size 34 kg	Carbon steel	L size 24 x 3.0 M size 26 x 3.0	Rayvolt Oil Disk Brakes with E-Regenerative 10A-50A	PAS (Pedal Assist System) Torque Sensor (optional) Thumb Throttle* *Depending on your country legislation
TORINO	Smart Hub 25 km/h - 50 Nm Power Hub 43 km/h - 100 Nm	Std Battery 48 V - 10,5 A Dual Battery 48 V - 21 A	35 kg	Steel	26 x 3.0	Rayvolt Oil Disk Brakes E-Regenerative 10A-50A	PAS (Pedal Assist System) Torque Sensor (optional) Thumb Throttle* *Depending on your country legislation
Ambassador	Smart Hub 25 km/h - 50 Nm	Std Battery 48 V - 10,5 A	20 kg	CrMo	700c x 32	Rayvolt Electro Hydraulic 180 mm E-Regenerative 10A-50A	PAS (Pedal Assist System) Torque Sensor (optional) Thumb Throttle* *Depending on your country legislation
Beachin'	250W Geared Motor 40 Nm	Std Battery 10,5 A Extra Battery 16 A	28 kg	Hydroformed 6061 aluminum	26 x 4.0	Tektro Mechanical Disk Brakes 160 mm	PAS (Pedal Assist System)
Clubman	Bafang Motor 40 Nm	Std Battery 10,5 A Extra Battery 16 A	25 kg	Hydroformed aluminum	26 x 3.0	Rayvolt Disk Brakes	PAS (Pedal Assist System)
The Trixie	Power Hub 43 km/h - 100 Nm	Std Battery 10,5 A Extra Battery 16 A	60 kg	Steel	24" and 20"	Rayvolt Oil Disk Brakes with E-Regenerative 10A-50A	PAS (Pedal Assist System) Torque Sensor (optional) Thumb Throttle* *Depending on your country legislation


JOIN
THE
RAY
VOLUTI
ON!