



CRASH

SPECTRAL:ON

PLAY ON REPEAT

YOU FULLY CHARGED

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THE SPECTRAL:ON

Can you have your cake and eat it too? Can you build a balanced and playful e-MTB that is an absolute ripper on the downhill yet still packs a serious motor and a huge battery capable of running laps all day? With the relaunch of the full-carbon Spectral:ON in 2022 we were pretty damn sure we did exactly that. Now, one year on, after thousands of miles, hundreds of hours of riding and tons of glowing reviews, we know we did.

From rapid afterwork laps to epic weekend sessions, the Spectral:ON tears up more trail in less time. The lightweight frame and playful geo coax out grins on even the grimmest days and the industry-leading power plant means you finish the ride, not your battery. For 2023, we've taken the opportunity to do more test riding and make those little tweaks to make the Spectral:ON that much better. Because there's nothing finer than getting out for a big ride on a lively bike that gives you confidence on the downhill, and all but eliminates range anxiety – a bike that makes you want to play on repeat.





HUGE ON FUN. MASSIVE ON RANGE.

So, here's the stuff you might already know: The Spectral:ON is a full-carbon e-MTB with a balanced trail geometry built around mullet wheel sizing to get the best mix of high-speed composure and tight turn agility. It uses the lightweight and reliable Shimano EP8 motor to deliver smooth pedal assist and a high maximum torque of 85 Nm and the whole system is powered by our industry-leading 720 and 900 Wh hour batteries that set the bar for the e-MTB scene. It's a loose loam, berm busting, corner crushing beast that's begging to have a good time on the trail.

Here's what you probably don't know: The Spectral:ON range now comes equipped with larger and sturdier 160 mm forks. This not only makes the bike more confident on aggressive trails, it also slackens the head tube angle by about 0.5 degrees to make it a bit more stable at speed. An update to the Shimano EP8 motor ups its peak wattage to a wild 600 watts with power delivery across a wider range of cadences and the whole bike connects to the new Canyon app for GPS tracking and security notifications if someone is creeping on your new whip. It also, of course, has some sweet new colourways and yes, there are multiple all-black models.



TOUGHEN UP

Both the Spectral:ON CF and CFR are rated to our trail-tested Category 4E. Just shy of the huge huck capabilities of the Torque:ON CF, these frames can handle nearly any trail and share the same rating as the Strive:ON, and that bike was built to handle e-enduro races. The carbon layup of the bikes allowed us to keep the frame as lightweight as possible while increasing stiffness in critical sections like the seatstay bridge. Aside from the obvious benefit of getting to pedal a lighter and more efficient e-MTB, the increased stiffness seriously improves handling precision for when you hit gnarly trails going full gas.



POWER PLAY

The Spectral:ON isn't the slackest or longest e-MTB and it's all the better for it. It's perfectly placed between the Neuron:ON and Strive:ON as an aggressive and playful trail all-rounder that is fun and lively to ride but can still dabble at race paces. While some riders will want the super long and slack geo numbers, where the Spectral:ON shines is how nimble and poppy it is for an e-MTB. What it lacks in full-speed stability it more than makes up for in fun factor.

And it really doesn't lack much in high-speed confidence. For a balanced and centred feel on steep descents, the frame offers a relatively long reach, slightly slack headtube angle and long chainstays, while a short seat tube lets riders use longer dropper posts for easy maneuverability on downhills. This all works to maintain the Spectral:ON's lively ride quality while increasing composure through steep and sketchy sections.

FRAME SIZE	S	M	L	XL
SEAT TUBE LENGTH (MM)	420	440	460	480
TOP TUBE LENGTH (MM)	589	613	637	663
HEAD TUBE LENGTH (MM)	115	125	135	145
HEAD TUBE ANGLE (°)	65	65	65	65
SEAT TUBE ANGLE EFFECTIVE (°)	76	76	76	76
SEAT TUBE ANGLE ACTUAL (°)	72,3	72,6	73	73,3
REFERENCE SEAT HEIGHT (MM)	720	760	800	840
CHAINSTAY LENGTH (MM)	440	440	440	440
BB OFFSET FRONT (MM)	36	36	36	36
WHEELBASE (MM)	1194	1223	1252	1281
STACK (MM)	642	651	660	668
REACH (MM)	435	460	485	510
SPACERS (MM)	20	20	20	20
STEM (MM)	45	45	45	45
HANDLEBAR WIDTH (MM)	760	780	780	780
CRANK ARM LENGTH (MM)	165	165	165	165
SEATPOST DIAMETER (MM)	30,9	30,9	30,9	30,9
DROPPER TRAVEL (MM)	125	150	170	170





ANTI-RANGE-ANXIETY

You've heard all about the massive 900 Wh battery of the Spectral:ON, but what does that mean in the real world? Well, one reviewer went out in the mountains of Tahoe, California and rode a whopping 54 kilometres of trail and 1,904 meters of elevation in boost and trail mode and still "finished with a full bar of battery to spare". More than any other bike on the scene the Spectral:ON is kitted to eliminate range anxiety so you can focus on riding until you run out of juice, not the battery.

But it's not as simple as just adding a bigger battery. Good handling is arguably the most important quality of a mountain bike and a big battery poorly placed in the frame has the potential to make a bike top heavy and unbalanced. Not only did we arrange the battery cells in a more compact layout to lower the bike's centre of gravity, we tilted the Shimano EP8 motor 30 degrees to tuck the battery lower in the frame and dial in an evenly balanced ride. The lower centre of gravity is a big reason the Spectral:ON is a real ground-hugging, corner-schralping ripper of a bike.

PLUG N CHUG

Charging up the Spectral:ON is hassle-free, on or off the bike. The battery uses a Rosenberger magnetic charger plug that self-locates and locks in. Charging the battery on the bike is as easy as flipping open the waterproof charge port cover and letting the magnetic charger plug snap into place. A built-in charge indicator on the battery housing helps you gauge the remaining charge, even when the battery is disconnected.





DROPPING WATT BOMBS

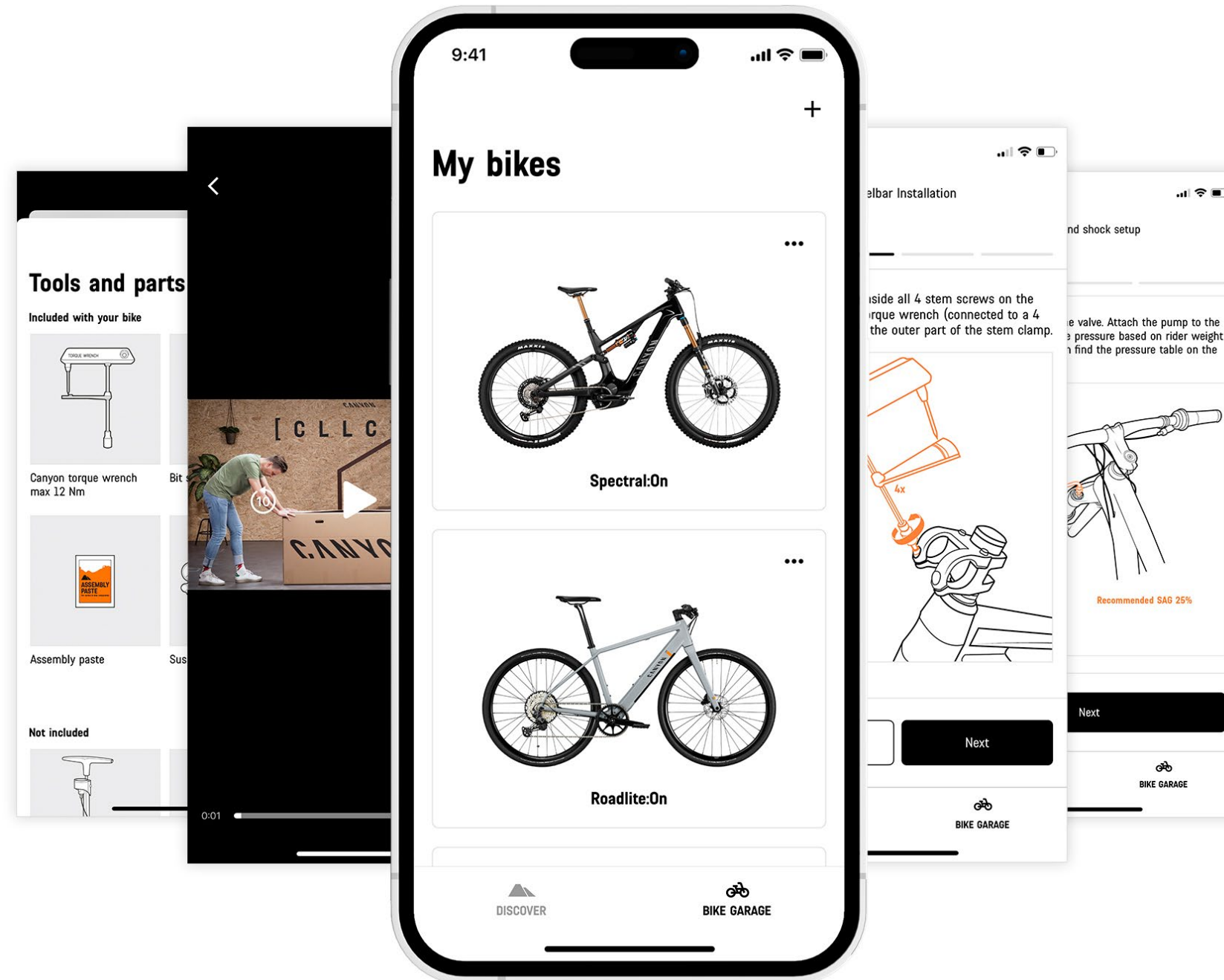
There's a reason the Shimano EP8 is one of the most popular motors out there. The compact, lightweight motor clocks in at 2.7 kg yet still packs a huge 85 Nm of mx torque. The newest version of the motor, codenamed EP801, has improved heat management to reduce drops in performance during long climbs and delivers power at higher RPMs than ever before. The headline stat is the new motor can deliver a massive 600 watts of peak power to the pedals. Steep technical climbs suddenly don't seem so steep anymore.



TRAIL CONNECTION

Whether you're logging miles ridden and vert crushed or just keeping tabs on your baby, the GPS function of the Spectral:ON has got you covered. The new Canyon app connects to the IOT Module integrated into the 2023 Spectral:ON logging the location of your bike and can even send an alarm notification if your bike gets tampered with. The GPS locator even stays enabled if the bike's battery dies.

Alongside the GPS feature, the Connected App also has your back right from setup, through to service and support. Spare parts, user guides, service and assembly videos, as well as all the tech details about your pride and joy are just a touch away.



WE SWEAT THE SMALL STUFF

The Spectral:ON is packed with clever features that make riding that little bit better. A custom skid plate guards the motor and chainring, while our Canyon:ON bar and stem tidy up the cockpit by concealing cables. Double sealed bearings with a proprietary grease fill keeps your swingarm swinging smoother for longer. Plus, our Quixle thru-axle design enhances stiffness and simplifies wheel removal without tools.



FAQ

WHEN CAN I TALK ABOUT THE NEW SPECTRAL:ON LINE UP?

At 11AM CEST on May 16th.

WILL THERE BE ANY MORE MODELS ADDED TO THE LINE UP LATER THIS SUMMER?

We have one more model joining the family on 13th June. The new and updated Spectral:ON CF 9. Specs and details will be published at the time on canyon.com.

HOW MANY BIKES ARE IN THE LINE UP LAUNCHING MAY 16TH AND HOW ARE THEY SPEC'D?

There's 4 bikes in the line-up launching May 16th. Here's an overview, and you can find full spec sheets in the press kit folder.



SPECTRAL:ON CFR LTD

- 23.2 Kg Carbon E-MTB (900 Wh)
- 22.3 Kg Carbon E-MTB (720 Wh)
- Shimano EP801 Motor
- Battery Options: Canyon BT004-01 (900 Wh)
Canyon BT003-01 (720 Wh)
- RockShox Lyrik Ultimate Flight Attendant, 150 mm Fork
- Rock Shox Super Deluxe Ultra Flight Attendant Shock, 155 mm rear suspension
- SRAM XX AXS Eagle Transmission, 12s Drivetrain
- SRAM Code Ultimate Stealth brakes
- DT Swiss HXC 1501 Mullet (30f/35r) Wheels
- Rock Shox Reverb AXS Dropper Post
S: 125 mm, M: 150 mm, L-XL: 170 mm
- Canyon CP0012 Cockpit, S: 760 mm, M-XL: 780 mm
- Colors: Deep Space
- Sizes: S-XL



SPECTRAL:ON CFR

- 22.6 Kg Carbon E-MTB (900 Wh)
- 21.7 Kg Carbon E-MTB (720 Wh)
- Shimano EP801 Motor
- Battery Options: Canyon BT004-01 (900 Wh)
Canyon BT003-01 (720 Wh)
- FOX 36 Factory Grip2, 160 mm Fork
- FOX Float X Factory Evolution Shock, 155 mm rear suspension
- Shimano XT Di2, 12s Drivetrain
- Shimano BR-M9120 Brakes
- Reynolds TRE309 Mullet (30f/36r) Wheels
- FOX Transfer Dropper Post
S: 125 mm, M: 150 mm, L-XL: 170 mm
- Canyon CP0012 Cockpit, S: 760 mm, M-XL: 780 mm
- Colors: CFR Green
- Sizes: S-XL



SPECTRAL:ON CF 9

Coming June 13th

SPECTRAL:ON CF 8

- 24,4 Kg Carbon E-MTB (900 Wh)
- 23.5 Kg Carbon E-MTB (720 Wh)
- Shimano EP801 Motor
- Battery Options: Canyon BT004-01 (900 Wh)
Canyon BT003-01 (720 Wh)
- Fox 36 Rhythm Grip, 160 mm Fork
- Fox Float X Performance Shock, 155 mm rear suspension
- Shimano SLX, 12s Drivetrain
- Shimano BR-M7120 Brakes
- DT Swiss HLN350 Mullet (30f/35r) Wheels
- Iridium Dropper SP0050 Dropper post
S: 125 mm, M: 150 mm, L - XL: 170 mm
- Canyon HB0057 Bars, S: 760 mm, M - XL: 780 mm
- Colors: Stealth, Green Vastness
- Sizes: S - XL

SPECTRAL:ON CF 7

- 24,2 Kg Carbon E-MTB (900 Wh)
- 23.3 Kg Carbon E-MTB (720 Wh)
- Shimano EP801 Motor
- Battery Options: Canyon BT004-01 (900 Wh)
Canyon BT003-01 (720 Wh)
- RockShox Lyrik Select, 160 mm Fork
- Rock Shox Deluxe Select, 155 mm rear suspension
- Shimano Deore, 12s Drivetrain
- SRAM DB8 brakes
- Sunringle Duroc Mullet (32f/36r) Wheels
- Iridium Dropper SP0050 Dropper post
S: 125 mm, M: 150 mm, L - XL: 170 mm
- Canyon HB0057 Bars, S: 760 mm, M - XL: 780 mm
- Colors: Stealth, Bundless Grey , Eternal Blue
- Sizes: S - XL



WHAT'S ACTUALLY NEW ABOUT THESE BIKES? WHY HAVE YOU SENT US A PRESSKIT FOR A SPEC AND COLOUR UPDATE?

The MY23 Spectral:ON line up has a few more tricks up its sleeve, beyond some longer forks, updated Shimano motors, and fresh paint.

These are the first bikes to be fully integrated within the all-new Canyon Connected App. The IOT Module inside the frame means riders can enable GPS tracking, and antitheft security features.

Here at Canyon, we are pretty pumped about this, so figured we needed more than just a press release to share the love.

WHERE CAN WE FIND OUT MORE ABOUT THE CANYON CONNECTED APP?

There is a full Connected App presskit available which includes details on all the features.

REMIND US AGAIN, WHAT IS THE DEAL WITH CFR FRAMES? ARE THEY BETTER THAN CF FRAMES?

What ultimately sets the CFR and CF frames apart is weight. A size medium CFR frame weighs 2880 g,

that's 300 g less than a medium CF frame. Stiffness, durability, and core frame features are the same on both platforms. We achieved the weight savings on the CFR models purely through material and layup differences.

AND THOSE BIG CANYON ENGINEERED BATTERIES, HOW MUCH DO THEY WEIGH?

720 WH – 3.84 kg
900 WH – 4.75 kg

HOW DOES WARRANTY WORK WITH A CANYON ENGINEERED BATTERY?

Canyon's batteries are part of the Shimano Steps Service Program. This means consumers can order replacement batteries or get warranty support through bike shops that are Shimano dealers.

HOW LONG DO THEY TAKE TO CHARGE?

All bikes ship with a 4 A Charger, a 6 A Charger is available separately.

720 Wh w/ 4 A Charger: 5.8 – 6.3 h
900 Wh w/ 4 A Charger: 7.2 – 7.8 h
720 Wh w/ 6 A Charger: 4.0 – 4.7 h
900 Wh w/ 6 A Charger: 5.0 – 5.6 h

CAN YOU USE A SHIMANO CHARGER?

Shimano chargers will not work, the Canyon battery chargers that ship with the bike, or those that are available on canyon.com need to be used.

HOW FAR WILL THE CANYON BATTERIES TAKE ME?

We've gone all in and had industry benchmark R200 (range) and R300 (elevation) tests carried out to record the estimated range. The results: 900 Wh delivers 97.2 km with 2132 m of elevation. 720 Wh will take you 77.7 km with 1681 m of elevation.

Testing conditions:
70 W Rider Power
200% support of motor: 140 W
Total weight 100 kg (Spectral:ON CFR 22.2 kg, rider 77.8 kg)



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