

Spectral:ONfly

A Lighter Way to Charge



CANYON



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A Lighter Way to Charge

Our goal was simple: Build a bike that blends the poppy, playful, and confident handling of the best trail bikes with the extra boost and speed of an e-bike.

Did we say that objective was simple? Yeah, not so much. What seemed easy on paper proved anything but.

We obsessed over geometry, frame features, drive units, and composite lay-ups. We pumelled prototypes. We limped back to the drawing board. We learned. And we returned to the forest trails week after week, month after month, astride increasingly bad-ass creations.

And when the dust settled, we'd created this — the Spectral:ONfly.

While there are plenty of good bikes milling about the lightweight e-MTB world, what we've unleashed here remains a bit of an electric unicorn. The Spectral:ONfly is an undeniably sleek creation that also happens to be a no-holds-barred ripper.

Yes, it's svelte, but this is no flimsy, gram-counting pushover. The Spectral:ONfly withstands the same stringent strength tests as our enduro race bikes, makes mincemeat of the sketchiest descents, and sports the kind of burly components that are often sorely lacking in the world of lightweight, trail e-MTBs.

We made this bike for hard-charging riders who've been waiting for a trail e-MTB that punches way above its weight class.





Spectral:ONfly At a Glance



Spectral:ONfly

Cutting-Edge Chassis

The heart and soul of any bike is its frame... and we burned the midnight oil designing this one.

Drawing inspiration from our proven Spectral trail bike, Spectral:ONfly's lightweight carbon frame tips the scales at just 2.65 kg. Full bikes weigh as little as 18.1 kg (size M). That means a complete Spectral:ONfly is within 3.5 kg of a non-motorized trail bike with the same component spec.

More impressive yet — this bike can take a serious flogging, withstanding our enduro-proof Category 4E strength tests. We also integrated a bevy of ingenious features, including our Keep It Stable (K.I.S.) steering stabilizer, for more control when things start getting a little loose.

It all adds up to a fun, flickable e-MTB that can take anything you throw its way.





Poised-Yet-Playful

A shred-worthy bike needs shred-worthy geometry. We went straight to our proven Spectral push bike for inspiration here.

The Spectral:ONfly's slack 64-degree headtube angle and long reach keep you planted in fast, loose conditions. On tough climbs, the steep 76.5-degree seat tube angle and 440 mm chainstays keep you centered and in control.

The bike's low-slung top tube and short seat mast maximize your maneuverability. Last, but not least, the Spectral:ONfly rolls on mixed "mullet" hoops. The larger 29er front wheel smooths rough terrain, while the smaller 27.5 rear wheel amplifies agility.

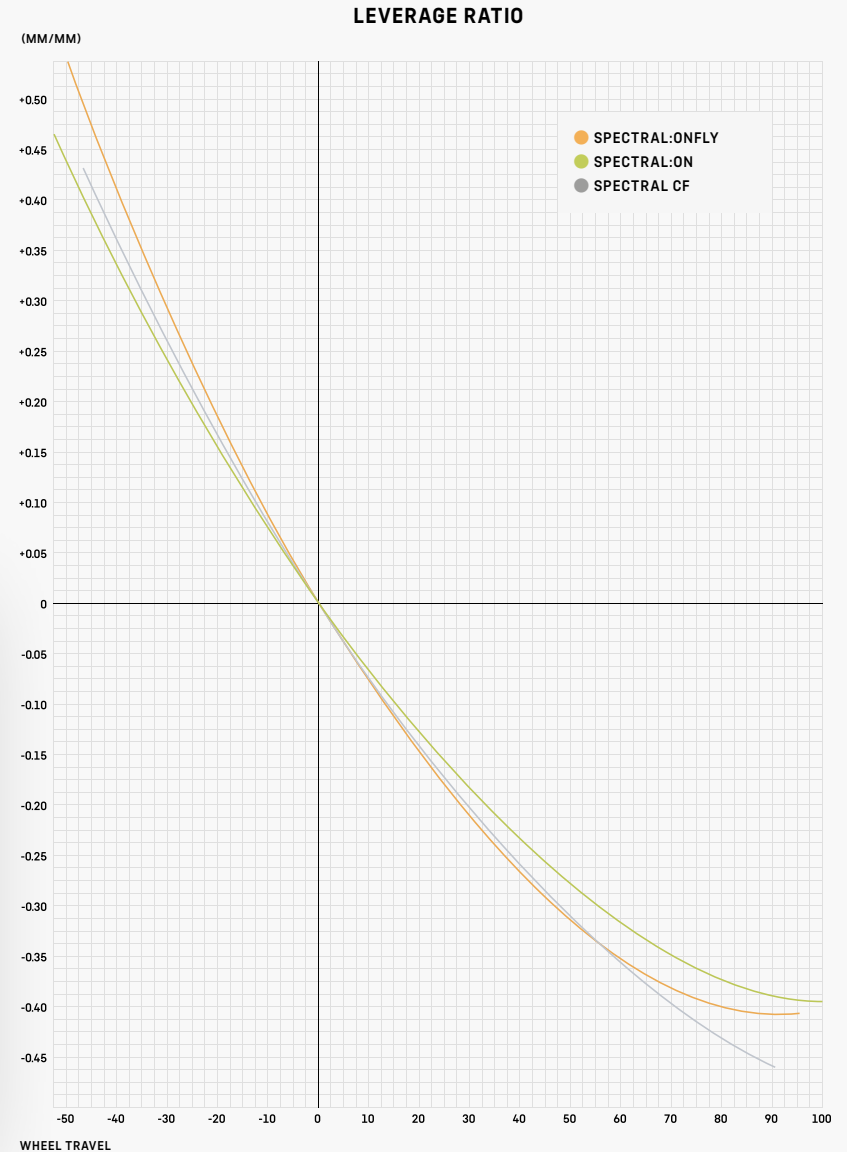
The end result? We've engineered a machine that's ridiculously responsive and agile, yet holds its own on the steepest, nastiest tracks you dare point it down.

Want to geek out on the full geo chart? Check out page 17.

Triple Threat Suspension

The Spectral:ONfly rocks 150 mm of our Triple Phase, four-bar rear suspension — making it smooth over small trail chatter, poppy and efficient thanks to its supportive mid stroke, and bottomless-feeling on the biggest hits.

Paired with 160 mm-travel forks, this rig sniffs out traction, is velvety smooth in sections of trail that should rattle the teeth out of your head and is a breeze to get airborne.





Details Make the Difference

We've equipped the Spectral:ONfly frameset with all manner of smart features that improve durability and handling. These are but a few...



Long-travel (170-230 mm) dropper posts maximize maneuverability. Durable 34.9-diameter posts resist bending and help keep the post running smoother for longer.



Our minimalist motor and downtube protectors fend off abuse yet are as sleek as the bike itself.



Replaceable thread inserts reduce the risk of over-torquing and irreparably mangling your frame threads.



The K.I.S. 2.0 steering stabilizer reduces wheel deflection in rocky terrain and wheel flop on steep climbs.



Details Make the Difference



Spectral:ONfly

Small. Smooth. Silent.

With the Spectral:ONfly, we aimed to create the most natural-feeling e-MTB possible — and that's precisely why we equipped it with TQ's innovative HPR50 drive system.

To be clear, there are plenty of great e-bike powerplants to choose from; we utilize several different ones within our line-up. The HPR50, however, stands out as the motor that dishes out power (up to 50 NM of torque and 300 W of it) in the most intuitive and seamless fashion possible.

The tiny, 1,850-gram motor feels like an extension of you — as if you're simply pedaling a "regular" push bike... while having the best ride of your life.

Small, nearly silent, exceptionally smooth — TQ proved the perfect match for the Spectral:ONfly.





Simply Smart

Riding an e-bike shouldn't feel like conducting brain surgery in the middle of the trail. It shouldn't be complicated. The best systems simply let you crush kilometers without being distracted by all the tech wizardry beneath you.

That, again, is what makes the TQ-HPR50 perfect for the Spectral:ONfly. It's simple and intuitive to use so you can immediately focus on what matters — the trail ahead of you.

The streamlined display clearly tells you how much juice is left in the battery. The built-in power meter lets you revel in all the fancy metrics if ride stats and fitness targets are what lights your fire. And, of course, you can fine tune the power settings via TQ's excellent app.

Or you can simply climb aboard and enjoy the addictive sensation of doubling your own pedaling power.





It Goes the Distance

We've fully integrated TQ's lightweight 360 WH battery inside the downtube for simple on-bike charging. This fixed mount also shaves grams and distributes weight perfectly for optimal handling.

Concerned a smaller battery might shorten your ride? Well, if you are looking for maximum miles per charge, there's no topping this bike's full-power sibling, the Spectral:ON CF and CFR.

TQ's motor, however, offers more range than many riders might guess.

The TQ system is so efficient, that it's possible to pedal up to 1,000 m of elevation gain (based on an 85kg rider, using 65% mid and 35% eco mode) per charge.

Want to go further still? Check out the next page.





Want More Range? You've Got It.

Sometimes you just want to pedal till the sun goes down. Your battery-capacity shouldn't cut your ride short.

To that end, the Spectral:ONfly is compatible with TQ's 160 WH range extender, which boosts your range by an impressive 44%.

The TQ range extender sits in place of the water bottle, but is mounted via a Fidlock base, letting you quickly switch out the Spectral:ONfly's 850 ml Fidlock bottle for the range extender in a matter of seconds.





Shred-Worthy Spec

The quickest way to fall out of love with an e-MTB is to decorate it with all manner of wispy components that can't survive the higher speeds and greater stresses experienced by e-MTBs.

Accordingly, even our lightweight Spectral:ONfly features extra-durable components.

Yes, we could have won the Great e-MTB Weight Wars by kitting these bikes out with ultralight parts packages, but ride quality would suffer and, at the end of the day, it's all about the ride.

Consequently, what you'll find here are forks with either 36 or 38 mm stanchions, big rotors paired with four-piston brake calipers, and wheelsets designed to withstand an e-MTB's extra torque loads.

The Spectral:ONfly is built to shred — every bit of it.





Line-Up

Spectral:ONfly LTD

Buicks don't come any better than this — a trail tough spec, with a remarkable overall weight. This is the ultimate no-holds-barred, light-weight trail EMTB.



Spectral:ONfly CLLCTV

Hard-hitting capability, meets no-frills performance. If you're looking for a bike that loves to be pushed hard, you've found it.



Spectral:ONfly 9

Smart specs and benchmark trail performance, the Spectral:ONfly 9 takes ride-ready reliability to the next level.



Spectral:ONfly 8

An epic, trail-capable build, wrapped up in an affordable 'ready for anything' package. There's no better value on the market today.





Line-Up Overview

| | Spectral:ONfly 8 | Spectral:ONfly 9 | Spectral:ONfly CLLCTV | Spectral:ONfly LTD |
|---------------------|---|---|---|---|
| FRAME | Canyon Spectral:ON Fly CF M095 (150 mm) | Canyon Spectral:ON Fly CF M095 (150 mm) | Canyon Spectral:ON Fly CF M095 (150 mm) | Canyon Spectral:ON Fly CF M095 (150 mm) |
| DRIVE UNIT | TQ HPR 50 (300 W, 50 Nm) | TQ HPR 50 (300 W, 50 Nm) | TQ HPR 50 (300 W, 50 Nm) | TQ HPR 50 (300 W, 50 Nm) |
| BATTERY | TQ HPR V01 Battery (360 Wh) | TQ HPR V01 Battery (360 Wh) | TQ HPR V01 Battery (360 Wh) | TQ HPR V01 Battery (360 Wh) |
| DISPLAY UNIT | TQ HPR Display V01 | TQ HPR Display V01 | TQ HPR Display V01 | TQ HPR Display V01 |
| FORK | RockShox Lyrik (160 mm) | Fox 36 Performance (160 mm) | Fox 38 Performance Elite (160 mm) | Fox 36 Factory (160 mm) |
| SHOCK | RockShox Deluxe Select+ | FOX DPS Performance | Fox Float X Performance | Fox Float X Factory |
| TRANSMISSION | Shimano Deore (10-51t) | Shimano Deore XT (10-51t) | SRAM GX Eagle Transmission (10-52T) | SRAM XX Eagle Transmission (10-52T) |
| CRANKS | FSA CK-745/IS (170 mm, 34t) | FSA CK-745/IS (170 mm, 34t) | FSA CK-745/IS (170 mm, 34t) | SRAM XX (170 mm, 34t) |
| BRAKES | Code R (200/200 mm) | Shimano Deore XT (203/203 mm) | SRAM Code Silver Stealth (200/200 mm) | SRAM Code Ultimate Stealth (200/200 mm) |
| WHEELSET | SunRingle Trail Expert 329/327 | DT Swiss H1900 LS | DT Swiss HX1700 LS | Reynolds Blacklabel Expert |
| TIRES | F: Maxxis Minion DHR II 2.4 Maxxterra, EXO R: Maxxis Minion DHR II 2.4 Maxxterra, EXO+ | F: Maxxis Minion DHR II 2.4 Maxxterra, EXO R: Maxxis Minion DHR II 2.4 Maxxterra, EXO+ | F: Maxxis Assegai 2.5 Maxxterra, EXO R: Maxxis Minion DHR II 2.4 Maxxterra, EXO+ | F: Maxxis Minion DHR II 2.4 Maxxterra, EXO R: Maxxis Minion DHR II 2.4 Maxxterra, EXO+ |
| HANDLEBAR | Canyon ON AL HB0057, 35 mm clamp (760 mm S, 780 mm M-XL) | Canyon ON AL HB0057, 35 mm clamp (760 mm S, 780 mm M-XL) | Canyon ON AL HB0057, 35 mm clamp (760 mm S, 780 mm M-XL) | Canyon ON AL HB0057, 35 mm clamp (760 mm S, 780 mm M-XL) |
| STEM | Canyon ON 45 mm | Canyon ON 45 mm | Canyon ON 45 mm | Canyon ON 45 mm |
| K.I.S. | Included | Included | Included | Included |
| SEATPOST | Canyon G5 Dropper 34.9 | Canyon G5 Dropper 34.9 | Canyon G5 Dropper 34.9 | Canyon G5 Dropper 34.9 |
| SADDLE | Fizik Terra Ridon X5 (145 mm) | Fizik Terra Ridon X5 (145 mm) | Fizik Terra Ridon X5 (145 mm) | Fizik Terra Ridon X5 (145 mm) |
| COLOURS | Stealth (P01), Barely Olive (P02) | Stealth (P01), Barely Olive (P02) | Stadtwald Sunset (P03) | Dark Matter (P04) |
| FRAMESIZES | S-XL | S-XL | S-XL | S-XL |
| WHEELSIZE | Mullet | Mullet | Mullet | Mullet |
| WEIGHT | 18.9kg | 18.8kg | 19.5kg | 18.1kg |



Geometry Chart

| | Small | Medium | Large | X-Large |
|---------------------------------------|-----------|-----------|-----------|-----------|
| BODY HEIGHT (CM) | 163 - 177 | 172 - 185 | 180 - 194 | 189 - 200 |
| SEAT HEIGHT (CM) | 720 | 760 | 800 | 840 |
| TOP TUBE LENGTH (MM) | 594 | 621 | 648 | 675 |
| HEAD TUBE LENGTH (MM) | 105 | 115 | 125 | 135 |
| HEAD TUBE ANGLE (°) | 64,0 | 64,0 | 64,0 | 64,0 |
| SEAT TUBE LENGTH (MM) | 400 | 415 | 445 | 455 |
| SEAT TUBE ANGLE (°) - ACUTAL | 72,5 | 72,7 | 72,9 | 73,1 |
| SEAT TUBE ANGLE (°) - EFFECTIVE | 76,5 | 76,5 | 76,5 | 76,5 |
| CHAINSTAY LENGTH (MM) | 440 | 440 | 440 | 440 |
| WHEELBASE (MM) | 1221 | 1251 | 1280 | 1309 |
| STACK (MM) | 620 | 629 | 638 | 647 |
| REACH (MM) | 445 | 470 | 495 | 520 |
| STAND-OVER HEIGHT (MM) | 734 | 739 | 743 | 747 |
| BB DROP REAR (MM) | 31 | 31 | 31 | 31 |
| BB HEIGHT (MM) | 342 | 342 | 342 | 342 |
| SPACER (MM) | 20 | 20 | 20 | 20 |
| STEM LENGTH (MM) | 45 | 45 | 45 | 45 |
| HANDLEBAR WIDTH (MM) | 760 | 780 | 780 | 780 |
| HANDLEBAR RISE (MM) | 30 | 30 | 30 | 30 |
| COCKPIT DIMENSIONS | - | - | - | - |
| CRANK ARM LENGTH (MM) | 170 | 170 | 170 | 170 |
| SEATPOST DIAMETER (MM) | 34,9 | 34,9 | 34,9 | 34,9 |
| SEATPOST TRAVEL LENGTH (MM) | 170 | 200 | 200 | 230 |
| SEATPOST INSERTION DEPTH (MM) | 120 | 150 | 150 | 190 |
| MAXIMUM SEATPOST INSERTION DEPTH (MM) | 245 | 275 | 275 | 315 |
| WHEEL SIZE | Mullet | Mullet | Mullet | Mullet |
| BRAKE DISC SIZE (MM) | 200/200 | 200/200 | 200/200 | 200/200 |
| FRONT TRAVEL (MM) | 160 | 160 | 160 | 160 |
| REAR TRAVEL (MM) | 150 | 150 | 150 | 150 |





FAQ's — The Big Picture

When does the embargo expire on each of these new Canyon Spectral:ONfly models? When can journalists publish stories and photos from this press launch?

The embargo expires at 11am CET (that's 2 am Pacific Standard for the Yanks) on the 12th of September, 2024.

How many Spectral:ONfly models will there be in the line-up?

There are four Spectral:ONfly models in the line-up in all markets outside the USA.

Riders in the United States will be able to choose from two models — the Spectral:ONfly CF 8 and the Spectral:ONfly CF CLLCTV.

When will the new Spectral:ONfly models be available for purchase?

All markets outside of the United States will be able to choose from all of the Spectral:ONfly CF models on September 12th.

Canyon USA will have offer a smaller product line. Both the Spectral:ONfly CF 8 and CF CLLCTV models will be available for consumers in the States, beginning the first week of October.

What was Canyon aiming to achieve with the new Spectral:ONfly?

Our goal was to create the most natural handling, feeling, and looking e-MTB possible. Taking the Spectral (M179) as our guiding light, we aimed to capture the Spectral's addictive combination of agility and capability, while adding the most intuitive and seamless-feeling e-MTB power boost to the mix.

And finally, we wanted to design a bike that was undeniably beautiful — sleek and elegant lines that made it almost impossible to tell that there was a motor and battery tucked anywhere inside.

Or to put it more succinctly: Natural handling. Natural feeling. Natural looking. Those were our core targets.

And, while we were at it, we aimed to do all of the above while also making a bike that was a true shredder — with no compromises in component durability or frame strength.

Who is the ideal rider for the Spectral:ONfly?

When we launched this bike's sibling (the Neuron:ONfly) earlier this year, we summed it up this way: Sometimes you want to be the pilot, not the passenger. That's even more true for the Spectral:ONfly.

The Spectral:ONfly is a bike for riders who want the extra boost of an electric motor, but still want to feel in complete control of the power delivery and handling.

In other words, we built the Spectral:ONfly for riders who want to hammer the pedals and push their own limits and the limits of the trail... while experiencing a totally natural-feeling power boost. Think of it this way, it's less like being strapped to a rocket ship and more like simply having the best day you ever had on a bike... every single time you throw a leg over it.

Let's be clear, we're not slagging full-power e-MTBs. Sometimes getting a ride on a rocket ship is exactly what the doctor ordered. The sheer mountain-crushing power of a high-torque bike is awesome. But we know there are riders out there who want something different. To bring this tortured metaphor full circle, this is an e-MTB for those who want to be the pilot of that rocket ship/trail bike, not the passenger.

What sets the Canyon Spectral:ONfly models apart from other bikes in the lightweight e-MTB class?

What the Spectral:ONfly uniquely delivers is an unrivaled combination of capability, light weight, and value. It's how we balance those three traits that truly sets the Spectral:ONfly apart.

With one of the most accessible starting prices for bikes in this space and an impressive build weight of 18.9 kg, our "entry level" model gives you the same outstanding full-carbon chassis and brilliant TQ system as our top-tier bikes, while also boasting an excellent component kit that includes a RockShox Lyrik fork and SRAM Code R brakes. Even our most accessible model is a ripper, right out of the box — no pricey modifications required.

Riders get both class-leading performance and bang-for-your-buck value with every model in our line-up.



FAQ's — The Big Picture

Okay, the difference between Spectral:ONfly and the high-torque Spectral:ON, Strive:ON, and Torque:ON is fairly obvious... But why would a rider choose Spectral:ONfly instead of the Neuron:ONfly (or vice versa)?



The Spectral:ONfly and Neuron:ONfly (as the "fly" name suggests) are both part of our growing lightweight e-bike portfolio, but they are actually very different bikes — each with its own merits.

Despite its light weight, the Spectral:ONfly is a more rugged and aggressive variety of lightweight eMTB. We've used the word "shred" liberally within this press kit for a very good reason. The Spectral:ONfly sports much more progressive (slacker and longer) geometry than the Neuron:ONfly and it's built to withstand greater loads and impacts. The Spectral:ONfly also features more suspension travel and more aggressive components. Finally, the Spectral:ONfly incorporates a lighter and smaller motor and battery combo, which, in turn, provides a more natural feeling power boost — more of a tailwind feeling, you might say.

For its part, the Neuron:ONfly has its own strengths. It's a very versatile e-MTB that strikes a middle ground between full-power models (such as the Spectral:ON) and light-weight models such as the Spectral:ONfly.

Thanks to its Bosch SX motor, the Neuron:ONfly provides the same 600 watts of peak power as a bike with a full-power Bosch motor, though it requires you to crank out higher cadences (than you would on a full-power e-MTB) to get that max power.

Bottom line, both Spectral:ONfly and Neuron:ONfly are lightweight and brilliant — they're just made for different riders.

| | Neuron:ONfly | Spectral:ONfly |
|--------------------|--|---|
| |  |  |
| IT'S A... | Versatile trail bike with more power than most lightweight e-MTBs — think 4x you instead of 2x. | Aggressive trail bike for riders that want playful handling and twice their own pedaling power. |
| MOTOR | Very dynamic support with up to 600 watts of peak power. Technical and steep climbs made easier with Bosch SX. | More natural support with up to 300 watts of peak power. Steep, technical climbs require more rider effort with TQ-HPR50. |
| RANGE | 1,000 vertical meters & 45 km 1,300 vertical meters & 70 km 400 Wh (+250 Wh range extender) | 1,000 vertical meters & 45 km 1,300 vertical meters & 70 km 360 Wh (+160 Wh range extender) |
| IDEAL RIDER | Riders looking for a light, versatile all-rounder that thrives on flowing singletrack and packs some serious power under the hood. | Riders seeking that true trail bike feel, with a dose of gravity DNA and enough power to glide, not grind, up the climbs. |



FAQ's — Chassis

How much does the Spectral:ONfly CF frame weigh?

2,650 grams (5.84 pounds). It's remarkably light — especially given its strength.

What are the limits of the Spectral:ONfly chassis?

Maximizing durability was key for this bike, which is why we've built it to withstand the same Category 4E enduro-proof strength and impact tests as our full-power Spectral:ON and Strive:ON models. We designed it for aggressive riding on aggressive trails.

The Spectral:ONfly looks like it carries over some of the technology from the Sender CFR and Spectral CF models... such as the removable thread inserts and sealed bearings. Is that correct?

Yes, the replaceable thread inserts which have been featured on the Spectral CF for several years are part of the chassis design. The sealed-bearing technology also made its way onto the Spectral:ONfly, while benefitting from a small update that provides the same great bearing protection but requires less parts. Win-win.

What's the story on cable routing within the frame?

We've built carbon channels within the front triangle and chainstay to reduce the need to fish about when routing cables. There's no need to remove the battery when replacing the rear brake house, though riders will need to drop the motor for cable guiding.

What's actually required (from a maintenance standpoint) for riders to successfully "drop" the motor?

Removing the motor requires undoing the 2x motor mount screws with a 6 mm hex key. Then dropping the motor, and unplugging 2 cables from the harness (speed sensor cable and main power cable).

Why is the K.I.S. slider recessed in the top tube — that's a different approach than Canyon took with the latest Spectral CF (M179)?

We aimed to build the sleekest and most stunning bike in this genre... and every detail mattered in that pursuit. To that end, the K.I.S. slider (that is, the tension adjuster) is recessed in the top tube, much like the beautiful TQ display. It's all part of the bike's seamless aesthetics.

K.I.S. is standard on all Spectral:ONfly models — what if riders don't want to use K.I.S. and choose to remove it? Does the blanking plate that takes the place of the K.I.S. slider also come with each bike?

Indeed. All bikes ship with a blanking plate, should riders prefer to hit the trails without KIS. Instructional videos for both removal and installation can be found in the maintenance area of canyon.com and in the Bike Garage section of the Canyon Connected App.

FAQ's — Geometry

What's the story behind the Spectral:ONfly's geometry?

In a single word, the geometry is “progressive”, with a slack 64-degree head angle, fairly long reach (470 mm on size M), and steep (76.5-degree) seat tube. The goal was to maximize your control on steep descents and rowdy terrain.

The Spectral:ONfly geometry is quite similar to that of the non-powered Spectral CF, which was our foundation for this bike. We did, however, make a few changes to better suit e-MTB riding. Most notably, the Spectral:ONfly features longer (440 mm) chainstays, which gives you a more centered weight distribution and improved traction on the steepest climbs where e-MTBs truly shine.

How many sizes are on offer?

We offer the Spectral:ONfly in four sizes: S, M, L, and XL. Those sizes accommodate riders from 166 cm (5'4") to 200 cm (6'5") tall.

There doesn't seem to be mention of any geometry adjusting features on the Spectral:ONfly. Is there any way to adjust the geo?

No. We chose not to include anything like a flip chip. Frankly, we're confident that the core geometry is on point for aggressive trail riding — having optimized it already on the Spectral CF. Moreover, we wanted to keep the bike as light as possible while still equipping it with durable components that take real abuse. Adding geometry-adjusting features simply didn't feel worthwhile and would've added unnecessary weight.

Why does the Spectral:ONfly have more suspension travel than the non-powered Spectral CF (M179)?

Thanks to the power boost provided by the TQ-HPR50 we could add a bit more travel without compromising acceleration and overall climbing performance. In short, despite the extra travel, we are still faster on the climbs while enjoying a bit more travel on the way back down.



FAQ's — Suspension

What's the actual suspension travel?

The Spectral:ONfly features 150 mm of rear suspension, which we've mated with 160 mm travel suspension forks.

Can I put a longer-travel fork on this thing? If so, how long can I go?

This frame is approved up to 160 mm, so no option to pump up the travel. 160 mm feels sweet though.

What are the shock dimensions (stroke, eye-to-eye, shock mounting hardware width)?

210x55 mm with 20x8 mm and 40x8 mm hardware.

Can I put a coil shock on this thing?

Yes.

The Spectral:ONfly CF LTD and CF CLLCTV models both feature piggyback rear shocks. Why do the CF 8 and CF 9 sport in-line rear shocks instead?

In-line shocks provide an excellent balance of performance, weight, and price — ideal for creating more affordable packages that still

deliver on the trail. Piggyback shocks, on the other hand, enhance performance and consistency during longer descents, making them our go-to choice for top-spec models.

What was Canyon looking to achieve with the Spectral:ONfly's kinematics?

We wanted to create a bike that felt much like the Spectral CF push bike that inspired it. Accordingly, the kinematics have a good deal in common, including similar anti rise and initial leverage ratio values.

We wanted to ensure the smoothest suspension performance when bombing down rough terrain and that meant minimizing pedal kickback. Accordingly, the Spectral:ONfly does have a bit lower anti-squat than its push-bike sibling. However, with the power boost provided by the motor, you still wind up climbing more quickly on the Spectral:ONfly while enjoying outstanding bump absorption. The suspension is smooth and active on descents with minimal chainlap.



FAQ's — Motor and Battery

The Spectral:ONfly uses the TQ-HPR50 motor. Why did Canyon choose to go with TQ on this bike?

TQ's HPR50 motor was a perfect match for the Spectral:ONfly. For starters, its small size gave us tremendous leeway to build the sleekest, slimmest frame profile possible. And, of course, it's sheer light weight helped us achieve our goal of creating a bike that was easy to boost and manoeuvre around the trail. Finally, the TQ drive unit provides power in a remarkably smooth fashion that feels more like an extension of your own legs and lungs—that meshed perfectly with our goal of creating the most natural feeling e-MTB possible.

Which battery does the new Spectral:ONfly use?

We equip the Spectral:ONfly with TQ's 360Wh battery.

Is there any way to increase the Spectral:ONfly's range?

Absolutely. We also offer TQ's 160 Wh range extender battery, which boosts your range by roughly 44%. The range extender looks, essentially, like a 500 ml waterbottle. The TQ range extender will also be available from sources outside of Canyon.

How much does the TQ 360Wh battery weigh?

1,830 g

TQ recently launched a larger, 580 Wh in-frame battery. Can riders fit that larger TQ battery inside this frame?

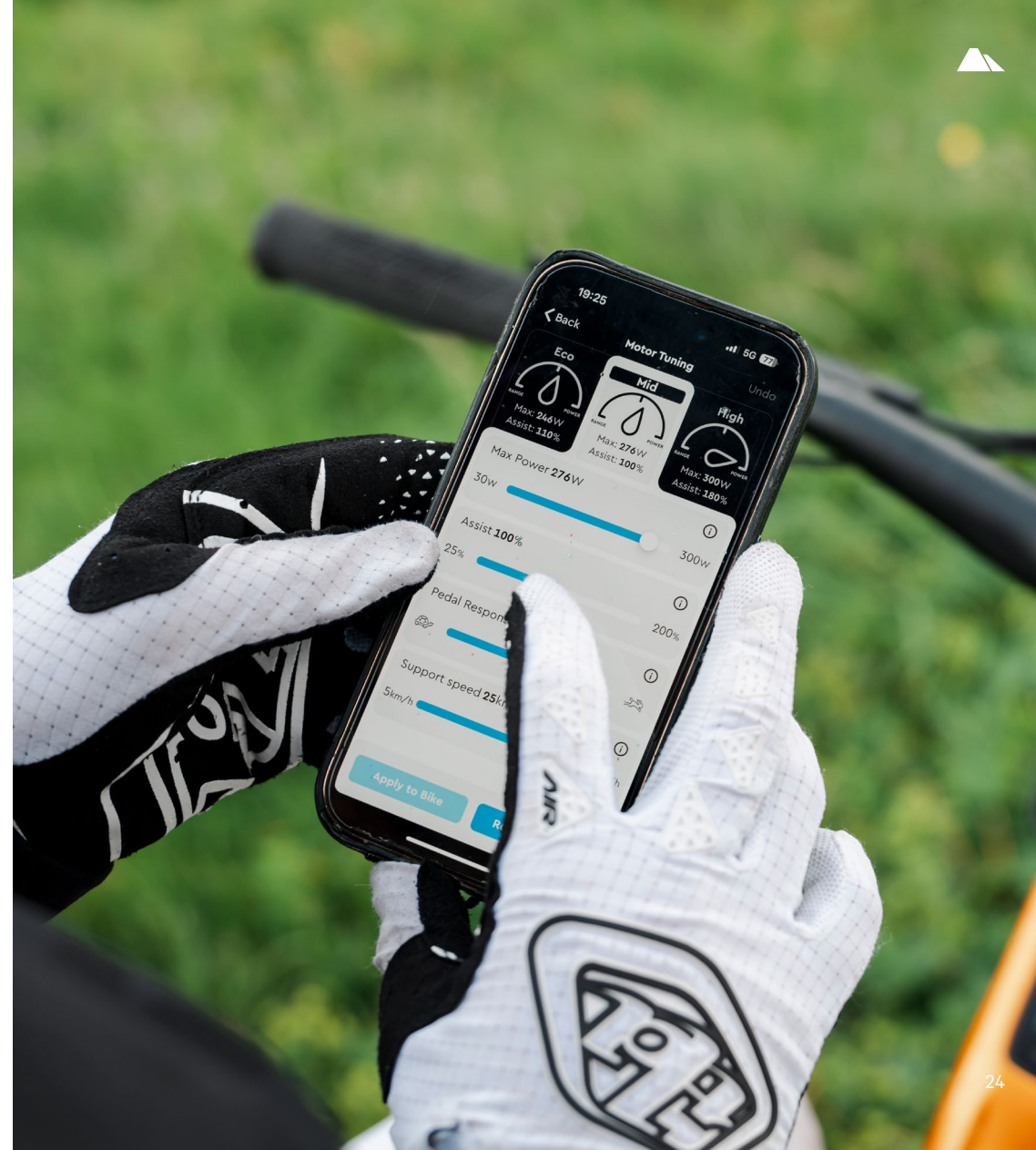
No, this frame is designed for the 360 Wh battery.

Is this new Spectral:ONfly compatible with any of the other batteries?

No.

Can you charge the battery with it either on or off the bike?

The Spectral:ONfly can only be charged with the battery inside the frame. We went with a fixed mount internal battery because it allowed us to create a lighter and stronger chassis.





FAQ's — Motor and Battery

How can riders charge the TQ range extender?

There are two ways to charge the range extender. You can charge the range extender by itself (separate from the bike) or you can keep the range extender plugged into the Spectral:ONfly's charge port and then plug the charger into the range extender itself. This will first charge the in-frame battery and, once that internal battery has reached full capacity, it will begin charging the range extender.

On a side note, discharging works the other way around. When you are riding with the range extender mounted to the Spectral:ONfly, the bike drains the range extender first. When the range extender is empty, the system begins drawing electricity from the main, in-frame battery. This means you can use the range extender first and then, once it's empty, you can swap it out with a regular water bottle.

How do you mount the TQ range extender to the Spectral:ONfly?

The range extender is mounted to a FidLock plate that you attach to the downtube water-bottle bosses. We will offer a high-capacity 850 ml Canyon waterbottle that utilizes the same FidLock mounting system. That means you can quickly swap between waterbottle and range extender in mere seconds.

How long does it take to charge the fully-drained 360 Wh internal battery and the 160 Wh range extender battery?

The main battery takes about 2 to 3 hours to charge. The range extender takes about 1h 15 m to charge.

What is the warranty on the battery?

The system, including the battery, carries standard product warranties based on the local market. In the EU, this is 2 years.

Did Canyon optimise the TQ motor settings for the Spectral:ONfly?

We've worked closely with TQ to tune the three support modes to perfectly match the natural trail bike experience of the Spectral:ONfly. Eco mode, with an assist factor of 60%, maximizes range for longer rides and lets you dig a little deeper on climbs. Even so, the harder you push, the more the motor gives back, so if you forget to switch out of Eco on the steep, there's still enough support to get you to the top. Mid mode, with an assist factor of 100%, is the perfect go-to setting for local loops and after-work laps.

High mode sets the assist factor at 180% and unlocks all 300 W of power from the motor, meaning even on your worst days, you'll feel like your legs are at their best.

The connectivity of the system means all the modes are completely tuneable, so you can dial in your own settings if your terrain and riding style call for something different.

If I want a range extender, how do I get my hands on one?

The TQ 160 Wh range extender should be available on canyon.com by the time of launch. For those looking to source a range extender elsewhere or who may already have one at home, the bike uses the standard TQ-produced 160 Wh range extender battery, which is available from various retailers. It mounts via TQ's Fidlock connector and requires a 325 mm cable to reach the Spectral:ONfly's charge port.

How much does the range extender weigh?

950 g



FAQ's — The Nerdy Bits

What is the maximum dropper post length that you can run on the Spectral:ONfly?

Giving the Spectral:ONfly a short seat mast and long-travel dropper posts was key to making a more manoeuvrable and playful bike. Accordingly, we spec 170 mm droppers on the size Small, 200 mm droppers on size Medium and Large, and 230 mm droppers on the size XL. We equipped each model with our large diameter (34.9 mm) G5 dropper posts. The larger diameter design helps reduce flex and wear and tear on long-travel droppers. Each post also offers 25 mm of travel adjustment in 5 mm increments, so you can fine tune your fit.

The Spectral:ONfly is only offered in mullet mixed-wheelsizing. Can you convert the Spectral:ONfly to full 29er?

No. The Spectral:ONfly is designed around a 27.5-inch rear wheel. Attempting to fit a larger (29-inch) wheel on the back end of the Spectral:ONfly would adversely affect the geometry, and reduce handling control. Moreover, since we designed the tire clearance around the smaller 27.5-inch wheel, attempting to use a larger (29er) rear wheel could also damage the frame. Finally, adding a 29er rear wheel to the Spectral:ONfly will throw the speed sensor out of kilter and void the bike warranty.

What tire size do you spec on the Spectral:ONfly?

All Spectral:ONflies are equipped with 29x2.4 front tires and 27.5x2.4 rear tires.

What's the maximum rear tire size (width) for the Spectral:ONfly?

27.5x2.5

Are there any special Gear items that will launch in conjunction with the Spectral:ONfly?

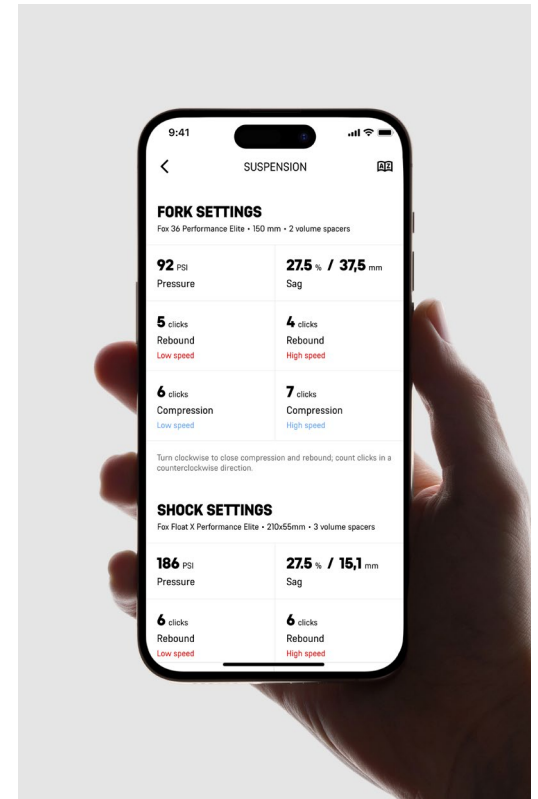
As noted earlier, we will offer a uniquely shaped higher-capacity Canyon Fuel 850 ml water bottle that's designed to fit within the front triangle with room to spare for rear shocks with piggyback reservoirs.

If you opt to use a conventionally-shaped waterbottle, you can fit a 600 ml water bottle in the front triangle of Small through Large frames. XL frames can accommodate a standard 750 ml water bottle.

We also included mounts beneath the top tube so that riders can mount a Canyon bracket and frame bag, eliminating the need to rely on inelegant straps to bring along your tools and sundry items.

What info does Canyon offer to customers to support getting their suspension setup dialed?

Canyon is constantly looking for ways to better support riders in getting their bike setup just right. With the launch of the Spectral:ONfly, we've taken a step forward from the pressure setup info previously provided in our Quick Start Guides. Now, thanks to the Canyon Connected App, customers simply need to input their riding weight, and they'll receive pressure and damping recommendations for the perfect setup. This app feature will initially be available for Spectral:ONfly customers but expect the rest of the MTB and E-MTB portfolio to follow over the next season.



Thanks

CANYON BICYCLES GMBH
KARL-TESCHE-STRASSE 12
56073 KOBLENZ - GERMANY
CANYON.COM

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