

CANYON



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**INTRODUCING
THE NEW
NEURON:ON**



The Neuron:ON lets you ride further, faster, and ratchets up the fun factor the entire time. This is the quintessential trail bike – as comfortable scaling big climbs as it is threading the needle on tight singletrack.

For 2020, we've lowered the Neuron:ON's centre of gravity, improved its front-end stiffness, and given it even more of an edge on technical trails. Backed by the proven power of Shimano's E8000 drive system, this is the bike that gives you the range to explore trails you've only dreamed of tackling.

IN OTHER WORDS, NEURON:ON IS PROOF THAT POWER IS ADVENTURE.



LOWER EQUALS FASTER

The new Neuron:ON features an entirely new front-end that cleanly integrates the battery inside the downtube. The end result? An even stiffer, more responsive frame and a lower centre of gravity that gives the Neuron:ON an even more planted and confident feel. Better yet, we achieved all that without adding weight or complexity to the bike.





THE RIGHT KIT

E-MTBs put a whole new level of abuse on bike components. There's simply more speed and force at play on every ride. The simple solution is to strap on the burliest bits possible. And, yet, if you build a bike like a tank, it'll also ride like a tank, which is precisely as miserable as it sounds. All of this explains why we're obsessed over the Neuron:ON's parts package. Big disc brake rotors and four-piston front callipers boost your braking power. Steel freehub bodies withstand the extra torque introduced by the motor. High-calibre FOX and RockShox suspension increase your control. It's a smart blend of lightweight-meets-durable

PROVEN POWER

The Neuron:ON is powered by you and Shimano's E8000 drive system – one of the most reliable e-assist systems available. Shimano's lightweight and compact motor gives us the flexibility to design the best-handling chassis possible. What's more, the E8000 system is capable of tripling your pedalling power with a smooth and natural feel that leaves you in complete control of your ride.





EVERY DETAIL MATTERS

THE NEW NEURON:ON IS LOADED WITH SMART
DETAILS THAT DELIVER.

A fibre-reinforced skid plate simultaneously shields the motor from rocks and serves as a bash guard for your chainring.

A custom Canyon SD:ON saddle gives you more leverage to scale steep climbs.

A Canyon:ON bar and stem reduce cockpit clutter by allowing you to route wiring through the bar and stem.

And a top-tube mounted USB-C charging port ensures that you never run out of the juice to power up your light, smartphone, GPS unit or other devices you want to bring along for the ride.



NEURON:ON

FAQ

WHEN DOES THE EMBARGO EXPIRE ON THE NEW NEURON:ON MODELS? WHEN CAN JOURNALISTS PUBLISH STORIES AND PHOTOS FROM THIS PRESS LAUNCH?

The global Start of Sale (SoS) date for the Neuron:ON is Tuesday 10 March 2020, 11:00 CET. From this time, the public will be able to see and purchase the bike at canyon.com. We'll be excited to see your stories about the Neuron:ON from this time onwards.

WHAT WAS THE ULTIMATE GOAL WITH THE REDESIGN OF THE NEURON:ON?

The goal was to streamline the frame design and improve the bike's handling.

HOW DID CANYON ACHIEVE THOSE GOALS?

The most obvious change is our decision to replace the external battery with a Shimano battery that's now housed inside the bike's downtube. The result is not only a sleeker-looking bike, but also a stiffer, more precise front end, with no gain in frame weight.

As with the Spectral:ON, we also improved the interface between rider and bike. The Neuron:ON now features a new integrated on/off switch and weatherproofed USB-C charging socket on the top tube. This feature ensures you always have power to run key devices you might bring along on the ride, such as lights, smartphones, or GPS units.

WHAT SETS THE NEURON:ON APART FROM ITS BIGGER SIBLING, THE SPECTRAL:ON?

While we designed the Spectral:ON with aggressive trail riders in mind, our goal with the Neuron:ON was to create a bike that nearly any rider immediately feels at home on. This is a capable trail bike, to be sure, but it's balanced more evenly between climbing and descending. Racking up long miles as efficiently as possible is the Neuron:ON's strength.

Given its mission, the Neuron:ON's geometry is a bit more conservative than that of the Spectral:ON. You don't have to ride the Neuron:ON as aggressively in order to reach its full potential. The kinematics are more linear, which means it's easier to take full advantage of the Neuron's suspension.

However, if riders do want to increase the progressivity of the Neuron:ON's rear suspension, that same linear leverage curve affords them plenty of latitude (using volume spacers) to make the suspension ramp up more quickly.

HOW MANY NEURON:ON MODELS WILL THERE BE IN THE LINE-UP NOW AND WHAT WILL THEY COST?

There will be four Neuron:ON models:

Neuron:ON 9.0/ €4,499

Neuron:ON 8.0/ €3,999

Neuron:ON 7.0/ €3,599

Neuron:ON WMN 7.0/ €3,599

PLEASE NOTE: All of the prices above are listed in Euros. Please confirm pricing within other markets with your local press contact. Pricing may also change between the time you see this advanced press material and when the press embargo expires. Please verify suggested retail pricing prior to posting your article.

WHEN WILL THE NEW BIKES BE AVAILABLE TO THE PUBLIC?

All Neuron:ON models will be available on canyon.com beginning Tuesday 10 March 2020, 11:00 CET.





CHASSIS AND GEOMETRY

WHAT CHANGED ON THE FRAME AND WHY?

The primary change is the integrated battery, now housed inside the downtube. That change was motivated by a desire to create a more streamlined frame. Thanks to the much wider downtube (required to house that internal battery) the end result was also a significantly stiffer (yet equally lightweight) front end. Locating the battery lower on the Neuron:ON frame also lowers its centre of gravity and improves the bike's overall handling.

DID THE NEURON:ON'S GEOMETRY CHANGE?

The geometry of the new bike is nearly identical to that of its predecessor. Seat tube angles have grown slightly steeper. X-Small and Small models now have 75-degree seat-tube angles. Medium, Large, and X-Large models now sport 74.5-degree seat-tube angles.

HOW MANY SIZES ARE ON OFFER?

A truly massive range of riders can fit on the Neuron:ON – from 153 cm (5'0") in the X-Small size, all the way up to 192 cm (6'3") on X-Large models.

To be specific, we offer the following Neuron:ON models in the following sizes:

Neuron:ON 9: Small, Medium, Large, and X-Large.

Neuron:ON 8: Small, Medium, Large, and X-Large.

Neuron:ON 7: X-Small, Small, Medium, Large, and X-Large.

Neuron:ON WMN 7: X-Small, Small, and Medium

NOTE: Very few companies offer an X-Small e-MTB. Frankly, it's not easy to do. The one concession we had to make in order to create the X-Small frame? We couldn't include the USB-C charging port on the top tube and achieve a short enough reach to best fit X-Small riders. Since proper fit is essential to a rider's comfort and control, we opted to include the new On/Off button on the top-tube and forgo the USB-C port.

WHICH REAR SHOCKS CAN I RUN ON THE NEURON:ON?

Neuron:ON models come equipped with either FOX DPS or RockShox Deluxe Select shocks, but they can also be equipped with in-line, air-sprung shocks that have the correct eye-to-eye length and shock stroke.

Proper eye-to-eye length is 190mm on X-Small and Small frames and 210mm on Medium, Large, and X-Large frames.

Correct shock stroke is 47.5mm on X-Small and Small frames, and 50mm on Medium, Large, and X-Large frames.

HOW MUCH SUSPENSION TRAVEL DOES THE NEURON:ON FEATURE?

Suspension travel varies slightly based on frame size.

The Neuron:ON features a matched 130mm of front and rear suspension on Medium, Large, and X-Large models.

X-Small and Small models sport 120mm of front suspension and 125mm of rear suspension.

WHAT ELSE SHOULD YOU KNOW ABOUT THE NEURON:ON'S SUSPENSION?

The X-Small and Small Neuron:ON bikes feature different kinematics than what's on offer with the Medium, Large, and X-Large sizes. While the shock tunes are actually the same across all Neuron:ON sizes, we've adjusted the leverage curve to make the smaller bikes more linear. This presented a huge engineering challenge, but one with a big-pay off: superior on-trail performance. Here's why...

Lighter riders often get the short end of the stick when it comes to suspension because most forks and shocks don't function as well at the low end of their pressure ranges. Many air-sprung suspension components, in essence, have a 'sweet spot'.

If we simply require smaller riders to run very low pressure in their suspension components, they often don't benefit the same performance (even when running the same amount of sag) that taller, heavier riders experience. Consequently, we gave the X-Small and Small bikes a more linear leverage curve, which allows smaller riders to run their suspension in that air-pressure sweet spot.

End result? Riders on X-Small and Small Neuron:ON bikes reap the same stellar bump-absorbing performance that taller riders experience on larger frames.



MOTOR & BATTERY

THE NEW NEURON:ON USES THE SHIMANO STEPS E8000 MOTOR AND THEIR 504-WH BATTERY. WHY DID CANYON CHOOSE TO GO WITH THE SHIMANO SYSTEM?

Shimano's system has a number of advantages. For starters, it's proven very reliable. That's vital. And in the rare event that riders actually need spare parts or assistance for either their motor or battery, Shimano has an extensive support network around the globe. In short, it's a good choice from the rider's point of view.

There are also benefits to the Shimano system from an engineering standpoint. The motor is quite light (2.8 kilograms) and it's relatively compact, which gives our engineers more flexibility to design the best-handling bike possible. But perhaps the trait that we find most compelling in the Shimano motor is its actual ride feel. Shimano's motor has a very smooth and natural feel at the pedals. And when it comes to integration – the switch and display – Shimano make one of the cleanest and easy-to-operate systems available.

We recognise, of course, that there are larger-capacity batteries on the market and that range matters to riders. Ultimately, product development is often a question of trade-offs – you gain one thing at the expense of another. At this point in time, the many on-trail benefits of the Shimano STEPS E8000 system far outweigh the few drawbacks.

HOW MANY KILOMETRES/MILES OF RIDING CAN RIDERS GET OUT OF THE FULLY CHARGED BATTERY?

It's impossible to give a definitive answer to this question since the range (on any e-bike) depends on several factors including the temperature outside, your weight, your cadence, how you use the power modes, how much you are climbing, etc.

In our own testing, we've found the maximum possible range for our Shimano STEPS E8000-equipped bikes to be 100 kilometres in 'Eco' mode.

CAN YOU CHARGE THE BATTERY WITH IT EITHER ON OR OFF THE BIKE?

You can charge the battery whether it's installed or removed from the bike. There is a standard Shimano charging port built into the frame for on-the-bike charging. If you prefer to charge the battery by itself (in cases when you can't bring your bike within reach of an outlet), you can quickly and easily remove the battery with a standard 4 mm Allen key. The bolt securing the battery within the frame is located under the downtube.

HOW LONG DOES IT TAKE TO CHARGE A FULLY DRAINED BATTERY?

We will sell all our Spectral, Neuron and Grand Canyon:ON bikes with a 2M charger, which charges a fully drained battery to 80% capacity in 4 hours. The same charger requires a total of 7.5 hours to charge a drained battery to 100%. However, we also offer riders the ability to upgrade to a faster (4M) charger, which fully charges a completely drained battery in just half that time.

While we could have made the faster 4M charger the standard option with each bike kit, doing so would have raised the price tag significantly. As a direct-to-consumer company we give riders the option when they are shopping on our site: either choose the 2M charger and save money without sacrificing any on-trail performance, or 'go big' with the fast charger. Everyone gets to pick the charger that best meets their needs.



KEY COMPONENTS

WHAT WHEEL SIZE DOES THE NEURON:ON USE AND WHY?

One of our primary goals with the Neuron:ON was to create an extremely efficient bike, ideally suited to covering long distances. Consequently, Medium, Large, and X-Large versions of the Neuron:ON feature fast-rolling 29er wheels (front and rear).

X-Small and Small sizes roll on 27.5-inch wheels.

WHY DO THE X-SMALL AND SMALL VERSIONS OF THIS BIKE FEATURE SMALLER, 27.5-INCH WHEELS?

It's a question of giving all riders – regardless of their height – the best possible ride quality.

While it's entirely feasible to create a small or extra-small e-MTB with 29-inch wheels and tires, the result is often a bike that feels less manoeuvrable on descents and less manageable on steep and technical climbs.

The reason that's true is because the larger-diameter wheels and longer fork add up to a considerably higher top tube and, therefore, not much stand-over clearance. Factor in the extra weight of a motor and battery, and the end result is a very small bike with big wheels that doesn't handle as well as it should either going up or down the mountain.

In short, 27.5-inch wheels allow us to give our smallest models plenty of standover clearance and provide the best balance of control and fun on X-Small and Small Neuron:ON models.

WHAT WIDTH TYRES DOES THE NEURON:ON USE?

Tire width is 2.6 inches (front and rear) on all Neuron:ON models.

DOES THE NEURON:ON FEATURE ANY E-MTB SPECIFIC COMPONENTS?

Medium, Large, and X-Large Neuron:ON models now feature 203mm front and rear rotors as well as four-piston brake callipers up front paired with dual-piston rear brake callipers. X-Small and Small models are equipped with a 203mm front rotor, 180mm rear rotor, and the same four-piston/2-piston caliper pairing as the larger models.

Wheels on e-MTBs need to take a good deal of abuse. Which is why the Neuron:ON models roll on reliable Shimano hubs with steel freehub bodies that withstand the increased torque transferred to the freehub by the motor. Up front, we've spec'd each model with either Fox 34, RockShox Pike, or RockShox Recon RL fork.

WHAT ULTIMATELY SETS THE CANYON NEURON:ON MODELS APART FROM OTHER E-MTBs?

The Neuron:ON is an incredibly versatile trail bike that offers a strong balance of climbing and descending performance. It happily crushes big miles on a massive adventure ride one day and threads the needle on a technical descent like a champ the following day. Progressive geometry, outstanding components – it's a bike that punches above its weight class.

The Neuron:ON's overall fit and finish also distinguish it from other bikes in its niche. The Neuron:ON hosts the same smart details found on the Spectral:ON, including:

- fibre-reinforced motor cover/chainring bash guard
- integrated upper chainguide
- custom, integrated seatpost clamp
- USB-C charging port
- custom grips
- e-MTB-specific saddle
- handlebars with internal wiring (for a very tidy cockpit)

Those kinds of features are few and far between even on far pricier bikes.



GEOMETRY & SPECS

	Neuron:ON 9.0	Neuron:ON 8.0	Neuron:ON 7.0	Neuron:ON WMN 7.0
FRAME	M096 Neuron:ON, 6061 alloy	M096 Neuron:ON, 6061 alloy	M096 Neuron:ON, 6061 alloy	M096 Neuron:ON, 6061 alloy
FORK	Rock Shox Pike Ultimate	Fox 34 Rhythm	Rock Shox Recon RL	Rock Shox Recon RL
SHOCK	Rock Shox Deluxe Select	Fox DPS Performance	Rock Shox Deluxe Select	Rock Shox Deluxe Select
DRIVE UNIT	Shimano DU-E8000	Shimano DU-E8000	Shimano DU-E8000	Shimano DU-E8000
BATTERY	Shimano BT-8035, 504Wh	Shimano BT-8035, 504Wh	Shimano BT-8035, 504Wh	Shimano BT-8035, 504Wh
DISPLAY	Shimano SC-E7000	Shimano SC-E7000	Shimano SC-E7000	Shimano SC-E7000
SWITCH	Shimano SW-E7000-L	Shimano SW-E7000-L	Shimano SW-E7000-L	Shimano SW-E7000-L
GROUPSET	Shimano XT	Shimano XT/ SLX	Shimano XT/ SLX	Shimano XT/ SLX
BRAKE	Shimano XT 4/2-Piston, 203mm Rotor	Shimano MT520/ 500 4/2-Piston, 203mm Rotor	Shimano MT520/ 500 4/2-Piston, 203mm Rotor	Shimano MT520/ 500 4/2-Piston, 203mm Rotor
WHEELS	Race Face with Shimano XT hubs	Race Face with Shimano MT510/ MT400 hubs	Race Face with Shimano MT510/ MT400 hubs	Race Face with Shimano MT510/ MT400 hubs
TYRES	Schwalbe Hans Dampf / Nobby Nic 2.6 ADDIX	Schwalbe Hans Dampf / Nobby Nic 2.6 ADDIX	Schwalbe Nobby Nic 2.6 Performance	Schwalbe Nobby Nic 2.6 Performance
CHAINRING	Canyon :ON, 34t	Canyon :ON, 34t	Canyon :ON, 34t	Canyon :ON, 34t
CRANK	Shimano FC-E8000	Shimano FC-E8000	Shimano FC-E8000	Shimano FC-E8000
GEAR RATIO	34 - 10-51	34 - 10-51	34 - 10-51	34 - 10-51
COCKPIT	Canyon ON: Bar & Stem	Canyon ON: Bar & Stem	ON: Bar & Stem	ON: Bar & Stem
SADDLE	Canyon SD:ON	Canyon SD:ON	Canyon SD:ON	Canyon SD:ON WMN
SEATPOST	Iridium Dropper	Iridium Dropper	Iridium Dropper	Iridium Dropper
COLOURS	Transistor Black	Stealth amp orange	Stealth wire blue amp orange	Stealth e-grey
SIZES	S, M, L, XL	S, M, L, XL	XS, S, M, L, XL	XS, S, M
PRICE	4,499 €	3,999 €	3,599 €	3,599 €

	XS	S	M	L	XL
WHEEL DIMENSION	27.5"	27.5"	29"	29"	29"
TIRE SIZE	2.6"	2.6"	2.6"	2.6"	2.6"
SEAT TUBE LENGTH	380	420	440	480	520
TOP TUBE LENGTH (HORIZONTAL)	551	559	596	617	638
HEAD TUBE LENGTH	100	100	120	130	140
HEAD TUBE ANGLE	66.5	66.5	67.5	67.5	67.5
SEAT TUBE ANGLE (ACTUAL TUBE ANGLE)	65.7	67.5	69.0	69.4	69.7
SEAT TUBE ANGLE (EFFECTIVE)	75	75	74.5	74.5	74.5
REFERENCE SEAT HEIGHT FOR DIMENSION E	622	719	758	802	842
CHAIN STAY LENGTH (HORIZONTAL)	435	435	440	440	440
WHEELBASE	1128	1148	1174	1197	1221
STACK	567	567	625	634	643
REACH	405	425	435	455	475
BOTTOM BRACKET OFFSET (FRONT/REAR)	20	20	33	33	33
FORK LENGTH (PARALLEL TO STEER TUBE)	514	514	537	537	537
FORK OFFSET	46	46	51	51	51
FORK TRAVEL	120	120	130	130	130
REAR WHEEL TRAVEL	125	125	130	130	130
SHOCK LENGTH	190	190	210	210	210
SHOCK TRAVEL	47.5	47.5	50	50	50
STEM LENGTH	50	50	60	60	60
CRANK LENGTH	165	165	170	170	170
HANDLEBAR WIDTH	740	740	760	760	760
SEATPOST LENGTH / DROP	386/100	411/125	458/150	458/151	458/152
STANDOVER HEIGHT	768	771	795	801	809





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