

FLASH

CARBON

HARDTAIL

FLASH CARBON

HERITAGE

Cannondale has combined high-modulus carbon fiber with a radical new re-shaping of the tubeset to achieve the lightest carbon fiber hardtail available today. Used the CFR and also available in a 29-inch version, the Flash is sure to be a favorite of podium winners on the UCI circuit.

Finished Frame Weight: 950g! (With paint and hangers, size M.)

FRAME CONSTRUCTION

- The Flash uses Hi-Mod carbon fiber throughout for lightweight and incredible power transfer
- Unidirectional fiber is used throughout, maximizing the anisotropic properties of carbon fiber for the ultimate in performance
- Distinctive seat stay and top tube junction use continuous fiber technology for maximum durability, but the design also reinforces the seat tube junction for optimal stiffness without a harsh ride feel
- Seat tube is oversized and ovalized at the bottom bracket to increase side stiffness and BB torsional stiffness for immediately perceptible power transfer
- Oversized head tube diameter stiffens the top tube to down tube junction for the best possible steering precision
- The ‘deep radius’ of the head tube and excellent fiber orientation transmit the forces of the road to the down tube and seat tube better, with fewer stress risers during our patented destructive testing process
- The straight tubing on the Flash stays shaves the most weight possible, enabling the carbon fibers to pull absolutely straight, which increases the performance of the fiber. As a result we get lighter and stiffer chain stays and seat stays
- Suspension-fork-bridge style seat stay bridge gives the frame excellent mud clearance
- The sealed front derailleur cable protects against fouling for the best shifting in harsh conditions

OPTIMIZED HARDPOINTS

- The Flash uses postmount disc brake mounts to save the weight of the adapter and reduce the system weight of the complete bike
- Optimized for a 2x10 drivetrain
- The extensive finite element analysis on the dropouts led to a design that is lighter and stiffer than most carbon dropouts, but still have the capability of dissipating heat of the disc brake mounts during race conditions
- The Flash uses a reinforced version of Cannondale’s dropout hanger – already the stiffest dropout hanger of the industry – and the result is super fast and precise shifting
- Direct mount front derailleur is compatible for Shimano and SRAM. The direct mount front derailleurs saves weight as the seat tube must not have the additional wall thickness needed for a clamp-type derailleur
- Compared to an E-type derailleur we reduce the system weight by 16g for more than a 10% saving on the front derailleur weight

CARBON LAYUP

- The Flash uses bulletproof layup for tough impact strength at critical areas
- The tube shapes, and especially the proprietary carbon layup, are designed to increase side stiffness and torsional stiffness (for better power transfer and out-of-the-seat climbing) but add vertical compliance for improved rider comfort
- The down tube uses reinforced layup for protection against stone impacts at the BB area and better impact resistance

OPTIMIZING SYSTEM WEIGHT

- Cannondale has built the ultimate lightweight hardtail race frame
- Cannondale’s Lefty is the lightest fork in it’s class
- Hollowgram Si SL cranks are lightest, stiffest cranks on the market
- Super-slim E-Type front derailleur without plate is lighter than direct mount FD.
- Direct post mount for rear disc saves adapter weight

SIZES

S, M, L, X

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OFSOS

FLASH CARBON ULTIMATE

FRAME	△	Flash Carbon Hi-MOD, Si BB30
FORK	∩	Lefty Speed Carbon SL w/DLR, 110mm
RIMS	○	DT Swiss XCR 1.2 Carbon Custom
HUBS	↑	Cannondale Lefty SL, 24 hole front, DT Swiss 190, 28 hole rear
SPOKES	✱	DT Swiss Aerospeed
TIRES	⊞	Schwalbe Furious Fred, 26 x 2.1" Evo, foldable
PEDALS	⊞	Crank Brothers Egg Beaters
CRANK	⊞	Cannondale Hollowgram SL, 42/28
BOTTOM BRACKET	∩	Cannondale BB30
CHAIN	∩	KMC X10 SL 10-speed
REAR COGS	∩	SRAM XX, 11-36
F. DERAILLEUR	∩	SRAM XX
R. DERAILLEUR	∩	SRAM XX
SHIFTERS	⊞	SRAM XX
HANDLEBAR	∩	FSA K-Force Flat, 600mm, 31.8mm
STEM	∩	Cannondale XC3 Si Stem/Steerer
HEADSET	∩	Cannondale HeadShok Si
BRAKES	∩	SRAM XX, 160/140mm
BRAKE LEVERS	∩	SRAM XX
SADDLE	∩	Fi'zi'k Antares, Carbon rails
SEATPOST	∩	Cannondale Custom SL, 27.2mm
SIZES	∩	S, M, L, X
COLORS (CODE)	∩	Team Replica, Carbon (gloss) (REP).
EXTRAS	∩	Cannondale foam grips



FLASH CARBON 1

OFS1S

FRAME	▽	Flash Carbon Hi-MOD, Si BB30
FORK	⌒	Lefty Speed Carbon SL w/DLR, 110mm
RIMS	○	Shimano XTR, tubeless
HUBS	⌚	Shimano XTR Lefty front, Shimano XTR rear
SPOKES	✱	Shimano
TIRES	⋯	Schwalbe Racing Ralph, 26 x 2.1" Evo, foldable
PEDALS	⊞	Crank Brothers Egg Beaters
CRANK	⊕	FSA K-Force Light BB30, 44/32/22
BOTTOM BRACKET	⌚	FSA BB30
CHAIN	○	KMC X9 SL 9-speed
REAR COGS	≡	Shimano XTR, 12-34
F. DERAILLEUR	⌒	Shimano XTR
R. DERAILLEUR	⌒	Shimano XTR
SHIFTERS	⊕	Shimano XTR
HANDLEBAR	┌	FSA XC-190 Flat, 600mm Alloy, 31.8mm
STEM	⌒	Cannondale XC3 Si Stem/Steerer
HEADSET	⊕	Cannondale HeadShok Si
BRAKES	⌚	Shimano XTR, 160/160mm
BRAKE LEVERS	⌒	Shimano XTR
SADDLE	∇	Fi:zi'k Antares, Kium rails
SEATPOST	┌	Cannondale Custom SL, 27.2mm
SIZES	≡	S, M, L, X
COLORS (CODE)	⌒	Race Red (gloss) (RED).
EXTRAS	...!	Cannondale foam grips



OFS2S

FLASH CARBON 2

FRAME	△	Flash Carbon Standard Modulus, Si BB30
FORK	∩	Lefty Speed Carbon w/DLR, 110mm
RIMS	○	DT Swiss XCR 1.5 Custom
HUBS	↑	Lefty SL, 24 hole front, DT Swiss 340, 24 hole rear
SPOKES	✱	DT Swiss Revolution
TIRES	≡	Schwalbe Racing Ralph, 26 x 2.1" Evo, foldable
PEDALS	⊞	Crank Brothers Candy
CRANK	⊕	FSA V-Drive BB30, 44/32/22
BOTTOM BRACKET	∩	FSA BB30
CHAIN	∪	KMC X9 CP 9-speed
REAR COGS	▶	SRAM PG-950, 11-32
F. DERAILLEUR	↘	Shimano SLX
R. DERAILLEUR	↗	SRAM X-9
SHIFTERS	⊕	SRAM X-7
HANDLEBAR	∩	Cannondale C2 Flat, 580mm, 31.8mm
STEM	∩	Cannondale XC3 Si Stem/Steerer
HEADSET	⊕	Cannondale HeadShok Si
BRAKES	↔	Avid Elixir R, 160/160mm
BRAKE LEVERS	↘	Avid Elixir R
SADDLE	∩	Fi-zi'k Gobi XM, MG rails
SEATPOST	∩	Thomson Elite, 27.2 x 400mm
SIZES	∩	S, M, L, X
COLORS (CODE)	⊞	Nu Team Blue (gloss) (BLU).
EXTRAS	...!	Cannondale foam grips

TwentyOne

HARDTAIL

29'ER CARBON

29'er riders are a soulful lot, and for good reason: Bikes with 29-inch wheels are smooth-riding machines. They become even smoother when paired with the Cannondale Lefty, one of the lightest long-travel forks on the market and a natural choice for big-wheel aficionados.

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M, L, X

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OFS291S

FLASH CARBON 29'ER 1

FRAME	△	New Flash Carbon 29, Si BB30
FORK	∩	Lefty 29'er Carbon SL w/DLR, 80mm
RIMS	○	Stan's ZTR Arch 29
HUBS	↑	Cannondale Lefty SL, 32 hole front, DT Swiss 240S, 32 hole rear
SPOKES	✱	DT Swiss Aerospeed
TIRES	⋈	Schwalbe Racing Ralph, 29 x 2.25" Evo, foldable
PEDALS	⊞	Crank Brothers Egg Beaters
CRANK	⊕	FSA K-Force Light BB30, 44/32/22
BOTTOM BRACKET	∩	FSA BB30
CHAIN	∪	KMC X9 SL 9-speed
REAR COGS	≡	SRAM PG-990, 11-34
F. DERAILLEUR	↗	Shimano XT
R. DERAILLEUR	↘	SRAM X-0
SHIFTERS	⊕	SRAM X-0
HANDLEBAR	┌	Truvativ Stylo World Cup Flat, 700mm, 10 degree sweep
STEM	∩	Cannondale Stem/Steerer
HEADSET	⊕	HeadShok
BRAKES	⊞	Avid Elixir CR Carbon, 180/160mm
BRAKE LEVERS	└	Avid Elixir CR Carbon
SADDLE	∪	Fi'zi'k Gobi XM, Kium Rails
SEATPOST	∩	Cannondale Custom, SL 27.2mm
SIZES	≡	M, L, X
COLORS (CODE)	⊞	Race Red (gloss) (RED).
EXTRAS	...!	Cannondale foam grips



FLASH CARBON 29'ER 2

OFS292S

FRAME	▽	New Flash Carbon 29, Si BB30
FORK	┆	Lefty 29'er Carbon w/DLR, 80mm
RIMS	○	DT Swiss X470
HUBS	┆	Cannondale Lefty SL 32 hole front, DT Swiss 340, 32 hole rear
SPOKES	✱	DT Swiss Competition
TIRES	⋈	Schwalbe Racing Ralph, 29 x 2.25" Evo, foldable
PEDALS	⊞	Crank Brothers Egg Beaters
CRANK	⊕	FSA V-Drive BB30, 44/32/22
BOTTOM BRACKET	┆	FSA BB30
CHAIN	∪	KMC X9 CP 9-speed
REAR COGS	≡	SRAM PG-970, 11-34
F. DERAILLEUR	↗	Shimano SLX
R. DERAILLEUR	↘	SRAM X-9
SHIFTERS	⊕	SRAM X-7
HANDLEBAR	┆	Truvativ Stylo World Cup Flat, 700mm, 10 degree sweep
STEM	┆	Cannondale Stem/Steerer
HEADSET	⊕	HeadShok
BRAKES	⊞	Avid Elixir R, 180/160mm
BRAKE LEVERS	┆	Avid Elixir R
SADDLE	∇	Fi:zi'k Gobi XM, MG Rails
SEATPOST	┆	Thomson Elite, 27.2mm
SIZES	▮	M, L, X
COLORS (CODE)	⊞	Jet Black w/Magnesium White accents (gloss) (WHT).
EXTRAS	...!	Cannondale foam grips