

Moza Racing R21 Ultra Direct Drive Wheel Base Racing wheel base

Model: RS090

Manufacturer: MOZA RACING

EAN: 6973137271350

Product Code: 1733645

R15,377

All-new Zero-cogging

Flat-wire Motor

The MOZA R21 is part of our latest flagship direct drive wheelbase line up, engineered for sim racers who demand top-tier performance. Featuring a 21Nm motor, aerospace-grade magnetic encoding, and MOZA's most advanced force feedback algorithm, the R21 delivers unparalleled realism, control, and responsiveness in any sim racing scenario.

Sustained 21Nm Torque Output

Powered by an industrial-grade motor engineered for durability and thermal efficiency, the R21 delivers a sustained 21Nm of torque without throttling—ideal for professional-grade sim racing and

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extended endurance sessions.

21-bit Magnetic Encoder

With a 21-bit high-resolution magnetic encoder, the R21 delivers over 2 million points of precision, capturing every steering input and surface detail with stunning accuracy. Connect with the road like never before.

Refined Design with RGB Customization

Designed with a compact, motorsport-inspired profile, the R21 Ultra looks as serious as it performs. Dual RGB light strips along the top edges offer 16.7 million colors and fully customizable lighting effects, including real-time telemetry feedback for ABS, traction control, gear shifts, and flag signals.

New Force Feedback Algorithm

The powerful R21 DD base pairs seamlessly with MOZA’s advanced New Force Feedback Algorithm, combining cutting-edge hardware and software. This synergy delivers more realistic force feedback and enables precise tuning tailored to every driving style.

Intelligent Thermal Management

The R21 features MOZA's fully upgraded intelligent cooling system providing ample motor headroom and optimized thermal efficiency, it runs cooler—even under sustained high torque. Real-time temperature monitoring and smart torque regulation work together to maintain peak performance through the most demanding racing sessions.

Versatile Mounting Options

Supports bottom, front, and side mounting to accommodate a wide range of rigs.

CNC-machined

Aluminum Housing

Constructed from a rigid die-cast aluminum unibody, the R21 Ultra offers exceptional structural integrity and torsional rigidity—essential for withstanding high-torque output—while keeping overall

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weight to a minimum.

Extreme Durability

Built for endurance and performance, MOZA's slip ring handles over 10 million rotations and transfers data at 2M/s, delivering solid connection and lag-free communication between the wheel and base.

Native Ecosystem Integration

Featuring dedicated ports for all major MOZA peripherals, the R21 Ultra keeps your setup clean and hassle-free—simply plug in pedals, shifters, dashboards, or a handbrake without the need for extra USB hubs or cables.

Hands-off Protection

This function can effectively avoid the risk of injury and quickly help restore control by detecting that hands are off the wheel. Once activated, it will quickly stop any oscillation and safely center the wheel.

Race Your Favorites

Seamlessly compatible with leading titles including Forza Horizon, Project CARS, DiRT Rally, Assetto Corsa, F1, and more, and dozens more. Jump in and experience the thrill across today’s most popular racing simulators.

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