



# TRANSFORM THE WAY YOU RIDE

Two wheels, two motors, no gas, no noise. The UbcO 2x2 will redefine the way you ride, work and play.



**Electric drive**



**Whisper quiet**



**All-terrain performance**



**Light weight, strong build**



**Portable power**



**Easy to Accessorise**



**Digitally Connected**



**Road Registerable**

With its lightweight frame and powerful, near silent motors, the UbcO 2x2 gives you complete control for all your adventures, both on- and off-road. Whether you're getting the cows in or commuting to work, the 2018 UbcO 2x2 is ready to take on whatever you throw at it.

All terrain and all performance, the 2x2 gives you the power to go. The 48Ah Lithium-Ion power supply not only fuels the bike; it powers all your tools from your phone to your drill (at the same time).

Cart your gear from job to job with ease and adapt the bike as you need it with clever accessory lugs located across the bike.

The dual electric drive is smooth, ultra-quiet and low maintenance; it can go through trenches, up hills, over asphalt and down bush tracks without a second thought. And all of this with a running cost of under \$1 per 120km.

The adventure awaits with the UbcO 2x2.



**120km**

max range



**6hrs**

charge time (0-90%)

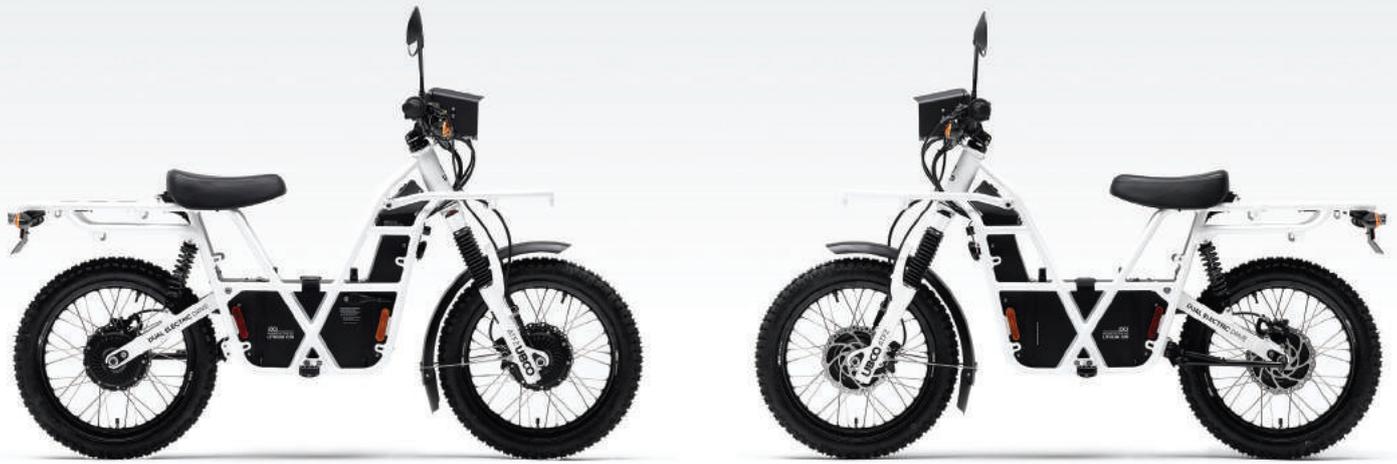


**63kg**

weight

**50kph**

top speed



## Technical Specifications

### Dimensions

Weight\*: 63kg | 139lbs  
Height\* (excl. mirrors): 1,050mm | 42"  
Seat height: 800mm | 31.5"  
Width (handlebars): 800mm | 31.5"  
Length\* (excl. number plate): 1,820mm | 72"  
Wheel base\*: 1200mm | 47"

### Performance

Max speed: 50km/h | 30mph  
Max torque: 90Nm  
Power: 2.4 kWh  
Carrying capacity (incl. rider): 150kg | 330lbs  
Max range: 120km

### User Controls

Handlebar mounted switch controlling hi-beam, left and right indicators, and horn.  
Motor cut-off switch on handlebar.

### Display

FSTN Transmissive Display Transmissive LCD, white back-light.  
Speed, odometer, trip, battery level. Real-time power output level. Clock and motor temperature.  
Tell-tales: High beam, low beam, charge indicator, warning indicator, direction signals, neutral.  
Switch between metric and imperial units.

### Charging

Full charge time: 6-8 hours  
50V 350W wall or bench mount charger.  
Charge via bike console or charge battery directly.

### Communication

Integrated ECU that directly controls lighting, motor controllers, display, rider controls, and provides a Bluetooth connection to the bike.

### Connectivity and User Input

Bluetooth with user app (initial service only app)  
Dual USB charging ports (1x 1A, 1x 2.5A)  
12V outlet (10A max)

### Electrical

Modular wiring harness design with IP66 connectors.  
50V power source for running drive motors and ECU.  
12V power source for running lighting and other auxiliary functions.

### Chassis

7000 series aluminium alloy frame.  
Front and rear carriers.  
Modular accessory lugs integrated into frame provide customisability.  
Aluminium front and rear console enclosures.  
Aluminium lighting brackets.  
Rear swing arm with torque arm.

### Suspension

Front:  
Custom UBCO front fork with die cast aluminium lowers with torque arm and 37.5mm high tensile steel chrome plated stanchions. 130mm travel, coil spring with hydraulic dampener. Steel tapered steering tube.  
Rear:  
120mm travel, coil spring shock with preload and rebound adjustment.

### Drives

2x 1kw+ brushless DC, air cooled hub, Flux Drive motors.  
Greatly improved planetary gear set and motor sealing.  
Integrated radiator for enhanced heat dissipation.

### Brakes

Tektro Dorado front and rear brakes, 203x2.3mm rotors, high power hydraulic callipers.  
DOT approved Dash 3 brake line.  
7.2mm OD.

### Power Supply

Lithium Ion 50V 48Ah (rated) power supply in UBCO aluminium case. Battery plug secure fixing system.

### Wheels

17x1.85" aluminium rims (DOT compliant).  
17x2.75" multi-use tyres, great balance between street performance and off road grip (ECE and DOT compliant).  
Stainless steel spokes and rim-lock, copper nipples.  
UBCO UFD12A motor hubs.

### Lighting

LED Headlight: 120mm | 4.75" diameter  
Low beam: 1330 lumens  
Hi beam: 2230 lumens  
LED rear, brake, and number plate lights.  
LED direction indicator signals.

### Vehicle Class

NZ/AUS – LA (moped)  
US – Motor driven cycle or Moped  
EU – L1Be

### License requirements

NZ – At least a learners license.  
AUS – State dependent; provisional license or motorcycle license.  
US – Dependent on state laws.  
EU – Dependant on country laws.  
Note: Check local licensing laws to determine what license is required.



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