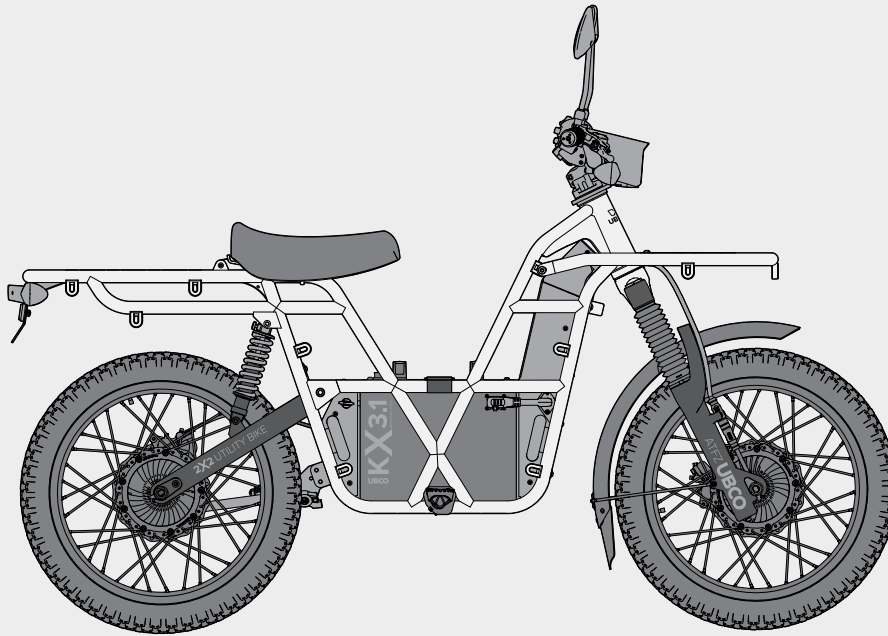


2X2

ADVENTURE BIKE



2x2_InfoSheet_v3.1

Dimensions

Weight excl power supply: 52.7kg | 116lb
+ 2.1kWh power supply: 65.7kg | 144.6lb
+ 3.1kWh power supply: 70.7kg | 155.6lb
Height: 1,040mm | 41"
Seat height: 815mm | 32"
Width (handlebars): 820mm | 32.3"
Length: 1,820mm | 72"
Wheelbase: 1215mm | 47.8"

Performance

Max speed: 50km/h | 30mph (45km/h EU).
High torque geared drivetrain.

Drive Train

All wheel drive.
2 x 1kw Flux² motors:
‣ Brushless DC air cooled.
‣ High durability planetary geared system.
‣ Fully splined gear interfaces.
‣ Sealed bearings.
‣ Active heat management.
‣ Active venting for residual moisture.

Brakes

UBCO Quadratic² brake system:
‣ Hydraulic & regenerative brakes operate together.
‣ Active regenerative braking (brake activated):
 ‣ Independent front and rear brake control.
 ‣ Passive regenerative braking (off throttle).
DOT approved hydraulic brakes.
203 x 2.3mm rotors.
DOT approved Dash 3 brake lines.

Wheels

9 gauge stainless steel spokes.
Tangential double-crossed lacing pattern.
17x1.85" aluminum rims (DOT compliant).
17x2.75" multi-use tires, balanced between street performance and off-road grip (ECE and DOT compliant).

Structure

Payload (incl. rider): 150kg | 330lb
Super X step through frame:
‣ 7027 alloy.
‣ Front and rear racks standard.
‣ 19 drop forged attachment lugs on sub frame & rack.
Mechanically switched self-retaining kickstand.

Suspension

UBCO ATFZ 130mm front suspension:
‣ Tapered chromoly steerer, chrome steel stanchions, alloy lower (corrosion resistant).
‣ Coil spring with hydraulic dampener.
‣ Preload & rebound adjustment.
UBCO ATF 120mm rear suspension:
‣ Coil over spring with hydraulic dampener.
‣ Preload & rebound adjustment.

Power Supply

Match the capacity to your needs: 2.1kWh or 3.1kWh.
UBCO dual safety system – active and passive safety:
‣ Active Safety:
 ‣ UBCO 'Scotty' battery management system (BMS).
 ‣ Real time performance and safety monitoring.
‣ Passive Safety:
 ‣ IP66 rated sealed alloy enclosure.
 ‣ Vented enclosure with venting pathways.
 ‣ 3400 mAh high safety factor INR (LiNiMnCoO₂) 18650 lithium ion cells.
Designed for disassembly at end of life.

Charging

10amp alloy fast charger.
Rugged alloy casing.
Can be wall mounted.
Charger detect disables 2X2 when charging.

User Controls

Fully electronic throttle control.
Handlebar mounted momentary switch controls for hi/lo-beam, indicators, and horn.
Streamlined dashboard view with LCD display shows speed, power levels, and more.
Keyless fob operation utilizes code hopping technology, hard to clone or hotwire.

Lighting

DOT/ECE approved UBCO Continuum LED headlight:
‣ High quality lensed LED emitters.
‣ High beam - 2100lm, Low beam - 1200lm.
‣ Peripheral park lights.
Compact and lightweight.
Environmentally sealed.
Designed for disassembly at end of life.
LED rear, brake, and number plate lights.
DOT/ECE approved indicator lights.

Communication

Cerebro² vehicle management system (VMS):
‣ Integrates all electronic and electrical functions of the vehicle.
‣ Provides control and updates with Bluetooth 4.2.
Vented waterproof enclosure with sealed automotive connectors.
Isolated CAN bus for easier integration of future CAN devices.
CAN communication with power supply.
Support for optional UBCO 'Communicator' telematic control unit (TCU).

Security

Steering lock.
Battery lock to frame.
Ability to track & trace with optional TCU.

Field Kit

Fastens under the lift-up seat.
Contains user manual and tools to set up and maintain the 2X2.

Vehicle Class

Globally homologated for dual use (on-/off-road):
‣ NZ/AU L1/LA (moped)
‣ US – Motor driven cycle or moped
‣ EU – L1e-B

License requirements

NZ – Learner license or higher.
AU – State dependent; provisional or motorcycle license.
US – Dependent on state laws.
EU – Dependent on country laws.

Note: Check your local licensing laws to determine license requirements.

Preliminary release September 2020 - specs and features are subject to change.