

Media information
6 September 2021

The BMW i Vision AMBY.

Highlights.

- With the BMW i Vision AMBY, the first high-speed pedelec, the BMW Group is presenting a visionary two-wheeled solution for the urban mobility of tomorrow. The BMW i Vision AMBY looks similar to an e-bike on the outside, but it offers significantly more possibilities.
- The electric drive system features three speed ratings for different types of road: up to 25 km/h (15.5 mph) on cycle tracks, up to 45 km/h (28 mph) on city-centre roads and up to 60 km/h (37 mph) on multi-lane roads and outside urban areas.
- AMBY is short for “adaptive mobility”. The BMW i Vision AMBY and BMW Motorrad Vision AMBY Vision Vehicles (see also the separate press release on the BMW Motorrad Vision AMBY) are making an exclusive appearance at IAA Mobility 2021 as differing interpretations of the basic concept of adaptive urban mobility on two wheels.
- The BMW i Vision AMBY demonstrates the idea in the form of a high-speed pedelec, meaning the user has to constantly pedal in order to benefit from the assistance of the electric drive system. The BMW Motorrad Vision AMBY, meanwhile, is more closely related to a motorcycle, accelerating via a hand control and featuring motorcycle-style footrests instead of pedals.
- The speed modes available to the rider are stored in the app on their smartphone. Manual selection of the modes is perfectly feasible, as are automatic recognition of location and road type via geofencing technology and the associated automatic adjustment of top speed.
- In the absence of any existing legal framework for a vehicle of this kind with a modular speed concept, the “AMBY” Vision Vehicles set out to prompt the introduction of such legislation and, by consequence, developments of this nature.
- As a second vehicle for a family or an entry point into the world of pedal-driven, electrified two-wheeled vehicles, the BMW i Vision AMBY offers an extremely varied range of applications. It hugely expands the usage scope of a conventional e-bike through clever technologies related to the three riding modes.

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- The design of the BMW i Vision AMBY is defined by visual lightness and powerful athleticism. Its modern frame geometry feels like a mixture of racing bike and sporty e-bike, yet every detail indicates that it is capable of more than a conventional e-bike.
- The battery is positioned in the centre of the frame. Its 2,000 Wh enables a range of up to 300 km (186 miles), depending on the riding mode. Thanks to fast charging technology, it recharges in only three hours.
- Power transfer is by low-maintenance toothed belt, and the transmission is integrated into the drive system. A sophisticated single-sided swing arm otherwise unique to BMW Motorrad links the rear wheel with the frame.
- 120 mm of suspension travel front and rear is ideal for all applications in and around town at speeds of up to 60 km/h (37 mph). The 27.5-inch wheels are fitted with larger and wider tyres than normal in order to ensure exceptional comfort and safety even at higher speeds.
- The handlebar stem is designed as part of the frame and has a very technical and high-quality feel. A slim, horizontal LED light strip is integrated into the wide handlebars and underscores the cutting-edge, technical look of this part of the frame.
- The vertical LED rear light is integrated into the seat post. Below it, an e-ink display shows the riding mode in use.
- Sustainability that goes beyond the vehicle concept: the frame (secondary aluminium) along with parts of the handlebars and battery cover (“floating grey polymers”) can be clearly recognised as being made from the same recycled materials as sections of the BMW i Vision Circular, which is likewise being premiered at IAA Mobility 2021. These materials can be fed back into the BMW Group materials cycle more easily once the product has reached the end of its life.
- Smartphone acts as a key: users can prime the BMW i Vision AMBY for use, load their stored licence classes and apply the required level of insurance cover on demand from an app. Other basic functions and status requests (e.g. the current and scheduled charge level) are also available, as when using the BMW app.



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- The electrically adjustable seat post undergoes biometric optimisation to match the profile stored in the app, with the settings adjusted according to pre-entered data – such as the height and inside leg measurement of the user – before setting off.

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In the event of enquiries please contact:
Corporate Communications

Steven Wörns
Press Spokesperson BMW Design
Tel.: +49-151-601-16992
E-mail: Steven.Woerns@bmw.com

Almut Stollberg
Head of Communication Innovation, Design, Technology, Digital Car
Tel.: +49-151-601-96543
E-mail: Almut.Stollberg@bmw.com

The BMW Group

With its four brands BMW, MINI, Rolls-Royce and BMW Motorrad, the BMW Group is the world's leading premium manufacturer of automobiles and motorcycles and also provides premium financial and mobility services. The BMW Group production network comprises 31 production and assembly facilities in 15 countries; the company has a global sales network in more than 140 countries.

In 2020, the BMW Group sold over 2.3 million passenger vehicles and more than 169,000 motorcycles worldwide. The profit before tax in the financial year 2020 was € 5.222 billion on revenues amounting to € 98.990 billion. As of 31 December 2020, the BMW Group had a workforce of 120,726 employees.

The success of the BMW Group has always been based on long-term thinking and responsible action. The company set the course for the future at an early stage and consistently makes sustainability and efficient resource management central to its strategic direction, from the supply chain through production to the end of the use phase of all products.

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