



## Nissan unveils mobile space observatory: the Nissan Navara Dark Sky Concept

***Developed in the UK, in collaboration with the European Space Agency, mobile laboratory is Nissan's most intelligent pickup***

**HANNOVER, Germany** (Sept. 19, 2018) – Nissan today unveiled the out-of-this-world Nissan Navara Dark Sky Concept at the 2018 Hannover Motor Show, proving that the sky is never the limit.

Developed in the UK, in collaboration with the European Space Agency (ESA), the concept vehicle functions as a mobile astronomy lab, featuring a world-leading, observatory-class telescope on a bespoke off-road trailer. As the latest embodiment of [Nissan Intelligent Mobility](#), the vehicle comes with ProPILOT driver assistance technology, which has been upgraded to make it the most capable pickup for safe and convenient towing.



ESA is mapping the stars with unprecedented precision using the Gaia satellite, which has already observed more than a billion stars. The Nissan Navara Dark Sky Concept supports this project by helping astronomers conduct follow-up observations of the universe from hard-to-reach, so-called "dark sky" locations – away from the nighttime glow of urban areas, which decreases visibility.

"The Nissan Navara Dark Sky Concept is a brilliant example of Nissan serving as an authentic partner, empowering our customers to go anywhere," said Ashwani Gupta, senior vice president of Nissan's light commercial vehicle business. "Through Nissan Intelligent Mobility and ProPILOT, we are creating the best solutions for the next frontiers of business, no matter how complex the commercial need."

The vehicle includes an array of smart features that have been upgraded to meet the needs of commercial vehicle customers:

- ProPILOT enhances the driver's control by combining Nissan's Intelligent Cruise Control and Steering Assist technologies. This maintains the distance with the vehicle in front while keeping the car and rig centered during single-lane driving – even on curves.
- The Intelligent Around View Monitor system has been upgraded to support towing, giving the driver a bird's-eye-view around the vehicle and rig and making parking easier.
- Blind Spot Warning has been enhanced to highlight objects in blind spots within the trailer range
- Intelligent Towing Hitch Alignment lets your car take control of steering, acceleration, braking and shifting, so that it can automatically maneuver to align with the trailer for easy hookup
- Nissan's portable battery packs utilize electric vehicle technology from the Nissan LEAF to ensure auxiliary power supply, no matter how remote the location

At the heart of the trailer is the ultrahigh-power PlaneWave telescope. The upgraded Nissan Intelligent Mobility technologies allow the telescope to be transported to wild, remote dark-sky locations.



"The Nissan Navara Dark Sky Concept allows observations to take place in very remote places, avoiding light pollution, while also transporting telescopes safely and easily," said Dr Fred Jansen, ESA's senior mission manager for [Gaia](#). "Telescopes like the one in the trailer are needed in studies of planets and stars in our galaxy, allowing Earth-based follow-up campaigns enabled by the Gaia data."

Paolo D'Ettore, head of LCV Business Unit, Nissan Europe, said: "In Europe almost a quarter of our Navara customers regularly tow. Using Nissan Intelligent Mobility technologies, we wanted to construct the most advanced and capable pickup to meet their needs. The result is the Nissan Navara Dark Sky concept, and in future we intend to make towing a simpler and more confident activity for all our customers."

The design of the Nissan Navara Dark Sky Concept takes its inspiration from the cosmos. The dark exterior color scheme features nebula motifs using parametric patterning, and the interior brings together the deep hues of the night sky with the orange shades of a setting sun. Reflective orange piping on the seats also provides visibility inside the vehicle, negating the need for white lights that would disrupt the astronomer's night vision.

Since red light affects human night vision least, both the vehicle and trailer exclusively use red lighting to avoid visual disruption during observations.



Working closely with ESA, the trailer module also incorporates a special refrigerated atmosphere, allowing the telescope to remain stable and calibrated at the optimum temperature in transit to any location.

Once at the desired, often hard-to-reach destination, the trailer module's mechanized roof can be opened to focus the telescope on the night sky. Using a 40-centimeter (primary) mirror, it has the ability to give detailed views beyond the rings of Saturn, to distant galaxies, nebulae and supernovas.

The Nissan Navara Dark Sky Concept is robustly engineered to put business needs at the forefront. A secure towing hitch combined with a sturdy ladder-frame chassis; a 2.3-liter, 190 ps twin-turbo diesel engine; and 450 Nm of torque enable the Navara to tackle rough terrain in remote areas and easily handle the telescope module's weight.

The Navara and trailer both feature portable EV battery packs, putting to use the brand's tried and tested electric-vehicle battery technology. When docked in place, the battery packs are constantly in charging mode and ready for use when required.

Additional smart features include Wi-Fi, a laptop station and UHF transmission to relay data instantaneously, anywhere in the world. Eight combined radar units, on each corner of the vehicle and trailer, update the driver on the vehicle's surroundings through the NissanConnect infotainment touch screen on the dashboard.



These Nissan Intelligent Mobility technologies work together to make the Nissan Navara Dark Sky Concept the most intelligent pickup in its class for towing.

World-class Nissan Intelligent Mobility systems enable the Navara to maneuver the telescope trailer into prime position. Radar sensors and cameras scan the terrain for the right location to park and stabilize the trailer. Compared with the standard Navara, the overall ride height of the Nissan Navara Dark Sky Concept has been raised, creating extra ground clearance to enhance the vehicle's "go anywhere" capability.

Following the Hannover Motor Show, Nissan will donate the telescope to pass on the spirit of exploration and adventure, and to inspire and educate future generations.

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### Overall dimensions

Overall length (Navara and trailer):	9,680 mm
Navara length:	5,400 mm
Navara height:	1,920 mm
Navara wheelbase:	3,198mm
Navara wheels:	20 inches
Trailer length:	4,060 mm
Trailer height:	2,060 mm
Trailer wheels:	16 inches

For full specification of the Nissan Navara Dark Sky Concept, see separate release.

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### About the European Space Agency

The European Space Agency (ESA) provides Europe's gateway to space.

ESA is an intergovernmental organisation, created in 1975, with the mission to shape the development of Europe's space capability and ensure that investment in space delivers benefits to the citizens of Europe and the world.

ESA has 22 Member States: Austria, Belgium, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Romania, Spain, Sweden, Switzerland and the United Kingdom. Slovenia is an Associate Member.

ESA has established formal cooperation with six Member States of the EU. Canada takes part in some ESA programmes under a Cooperation Agreement.

By coordinating the financial and intellectual resources of its members, ESA can undertake programmes and activities far beyond the scope of any single European country. It is working in particular with the EU on implementing the Galileo and Copernicus programmes as well as with Eumetsat for the development of meteorological missions.

ESA develops the launchers, spacecraft and ground facilities needed to keep Europe at the forefront of global space activities.

Today, it develops and launches satellites for Earth observation, navigation, telecommunications and astronomy, sends probes to the far reaches of the Solar System and cooperates in the human exploration of space. ESA also has a strong applications programme developing services in Earth observation, navigation and telecommunications.

Learn more about ESA at [www.esa.int](http://www.esa.int)

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