

FENNEK
Intelligent technology
and maximum mobility

KNDS



/ FENNEK

Quiet, powerful and enduring

The FENNEK family of vehicles is the answer to comprehensive requirement profiles: Excellent and virtually silent mobility on any terrain, state-of-the-art sensor equipment, extensive protection, self-defense capabilities and high autonomy are what set the FENNEK apart. The crew of three – driver, commander and system operator – can operate self-sufficiently for five days. Equipment, supplies, drinking water and food are carried along in the vehicle. Air-transportable in the C-130/160, the C5 and C17, and the A400M, the FENNEK can also be quickly and easily deployed to far-off mission areas.



On their own: with great success in a wide range of missions abroad. The three-man crew can operate self-sufficiently for five days.



Performance data

- Length: 5.58 m
- Width: 2.55 m
- Height: 1.79 m
- Total weight: 11.75 t
- Fording ability in water: 1.00 m
- Cable winch: Tractive force 10 t with pulley
- Gradients: up to 60%
- Slopes: up to 35%
- Turning circle: < 13 m
- Range: up to 1,000 km

Capabilities

- Great reconnaissance capability
- Virtually silent mobility
- Extreme off-road agility
- State-of-the-art sensor equipment
- Air-transportable in the C-130/160, C5, C17 and A400M
- All-wheel drive/differential lock

/ FENNEK variants



Scout Vehicle

Reconnaissance and observation vehicle



Artillery Observer

Enhanced navigation performance and exceptional target spotting accuracy



Joint Fire Support Team

A team consisting of an artillery observer and a forward air controller for reconnaissance and coordinating tactical fire support for the army, air force, and navy



Stinger Weapon Platform

Vehicle platform for firing Stinger air defense missiles



Mortar

Vehicle with mortar



Long-Range Anti-Tank

Utility vehicle for anti-tank guided missiles



Pioneer

Reconnaissance vehicle for engineering team



Utility and Special-Function Vehicle

Utility vehicle with function-specific equipment, such as mortars or advanced command and control and communications systems

/ The perfect vehicle for any mission

Mobility

To operate the FENNEK is to experience controlled high technology. The FENNEK's power pack is complemented by a fully automatic transmission and a transfer case. All-wheel drive is provided by an H-drivetrain, which allows a low-profile design. The central tire inflation system enables the vehicle to adapt to the terrain situation at any time.

Protection

The FENNEK is equipped with mine, IED and ballistic protection according to STANAG. The ballistic protection level can be adjusted by replacing protective elements. An NBC protective ventilation system in conjunction with a compartment cooling system protects the crew inside the vehicle from the risk of contamination. A fire detection system located in the power pack compartment warns the crew with an audible signal in the event of fire. The fire detection system can be optionally supplemented with a fire extinguishing system. The FENNEK can hide from the enemy with its integrated smoke grenade launcher.

View

The centrally positioned driver's seat gives the driver a field of view of more than 180°. The night vision-capable driving vision system allows the driver to navigate the vehicle safely even in poor visibility conditions. The radio operator/observer's seat can be rotated for rearward protection while driving. A height-adjustable seating arrangement allows the commander to observe the enemy with partial protection from the hatch.



Off-road reconnaissance with remote sensor head



Night vision rear-view camera



Driver's field of view: more than 180°

/ Advantages of the FENNEK

Mobile	Fully automatic transmission with all-wheel drive
Protected	Flexibly adaptable protection levels
Wide-vision	Everything in view day and night
Camouflaged	Low IR and radar signature, quiet and low, optional multispectral camouflage equipment
Recon-equipped	Integrated thermal imager, day vision camera and laser rangefinder
Communicative	Via HF, UHF and VHF radio, LTE and WLAN as well as satellite communication
Effective	Flexibly installable mount with 360° day and night vision, optional remote-control weapon station (FLW)





/ The FENNEK scout car

Its mission: to see without being seen. Superbly camouflaged by its low profile, exceptionally low IR and radar signature and low-noise drive, and equipped with cutting-edge reconnaissance equipment, the FENNEK optimally meets the requirements for scouting missions behind enemy lines. In 21st-century operational scenarios, its mission includes not only observing enemy troop movements, but above all embattled localities or land areas for rapid clarification, identification and observation of suspicious activities.

Reconnaissance

Sophisticated sensor systems ensure the FENNEK's exceptional reconnaissance capability. These include a thermal imager, day vision camera, laser rangefinder, laser pointer/illuminator, and laser target designation system integrated into a single sensor head.

It is mounted on a 360° adjustable pan-tilt head on a mast that can be extended up to 3.30 meters. Alternatively, the sensor head can be used on a tripod in remote operation 40 meters away from the vehicle. It is then still operated from inside the vehicle.

The observation and reconnaissance equipment (BAA) enables target detection and identification at long ranges, day and night. It is connected to the hybrid navigation system, which uses both GPS (Global Positioning System) and the inertial processor to determine its own position and direction.

Positions of objects under reconnaissance can be transmitted to digital systems (such as BMS and

location maps) quickly and accurately. The FülInfoSysH (army command and information system) and ADLER (artillery, data, situation and deployment computer network) serve this purpose for the German user. These are integrated into the FENNEK's C4I system. The reconnaissance is complemented by other on-board systems, such as the ground sensor equipment (BSA) and radiation detection device. Mobile reconnaissance systems can also be carried.

Communication

HF, UHF and VHF radio as well as satellite communication are used to connect with other vehicles and units, ensuring a trouble-free exchange of information while maintaining a high level of security. This information superiority, combined with technical strength, is of particular importance in asymmetric conflicts.

Flexible stowage of C4I components makes it quick and easy to integrate changing electronic devices in the vehicle.

Gun mount and armaments

For self-defense, the scout vehicle is equipped with a gun mount that can be operated under armor and NBC protection. It has both day and night vision and provides 360° coverage. The mount can be equipped with a 40 mm grenade machine gun, or an MG in 7.62 or .50 caliber.

Modularity

The remote-controllable light weapon stations (FLW) are thoroughly modular in design. The armament can be integrated quickly and securely by way of a uniform interface in calibers ranging from 5.56/7.62/12.7mm to 40 mm grenade machine gun.

Front protection guard

The front protection guard can be used to push obstacles out of the way. It protects the front stowage box and can be used as a counter-bearing during winch operation, or as a mount for IR headlights.

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