



TAKING YOUR MISSION OFF-ROAD

A NEW GENERATION OF TRAILERS FOR MILITARY, RESCUE, LAW ENFORCEMENT AND CIVIL FORCES

WE MAKE CUSTOM TRAILERS

FOR CREW, FOR TECHNOLOGY OR FULLY AUTONOMOUS

► All scenarios

Natural disasters
War conflicts
Emergency situations
Logistical support
Protection of people and equipment

► Application

Medical care
Decontamination
Facilities and accommodation
Drone and anti-drone bases
Command base

► Efficiency

Energy-independent
Stable and comfortable
Extremely durable construction
Individual design
Option to integrate your technology

AND SO MUCH MORE...

EXPANDING THE CAPABILITIES OF EXISTING FLEETS

- ▶ *The ability to integrate your existing technologies and solutions*
- ▶ *Modification for specific units and usage scenarios*
- ▶ *Type-approved from 750 kg - 14 tonnes*
- ▶ *Excellent price-to-performance ratio*
- ▶ *Towing behind cars and trucks*
- ▶ *Rapid use in emergencies*

CONFIGURE YOUR TRAILER

SUPERSTRUCTURE

AUTONOMOUS FOR CREW FOR TECHNOLOGY

ARMY CERTIFIED

YES NO

SIZE

(length x width x height) x x cm

PAYLOAD

(tonnes, up to) 3.5 6.5 10 14 CUSTOM:

PROTECTION

BALLISTIC CBRN BLAST FIRE

ENERGY

POWER GENERATOR TRACTION BATTERIES SOLAR SYSTEM METHANOL CELLS

COMFORT

TOILET SHOWER BEDS CLIMATE CONTROL/HEATING CUSTOM:

EQUIPMENT & SPECIAL REQUIREMENTS

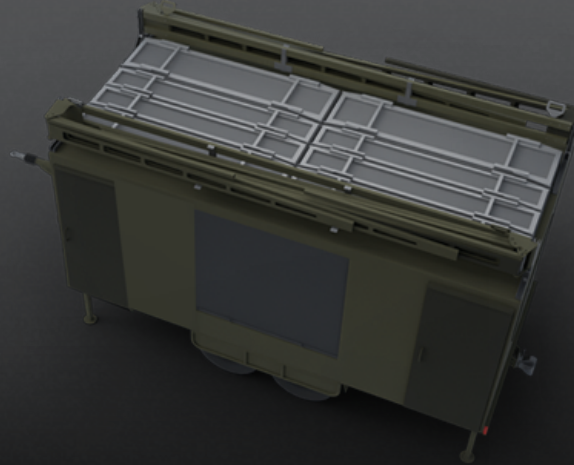
25-metre telescopic mast (100 kg payload), 6 drones, 4.000-litre water tank, decontamination, chainsaw, satellite internet, radio communication up to 150 kilometres, camouflage, water filtration, coffee maker, coat rack...

TRAILERS FOR ALL SCENARIOS

FOLDING DESIGN



HARD SUPERSTRUCTURE

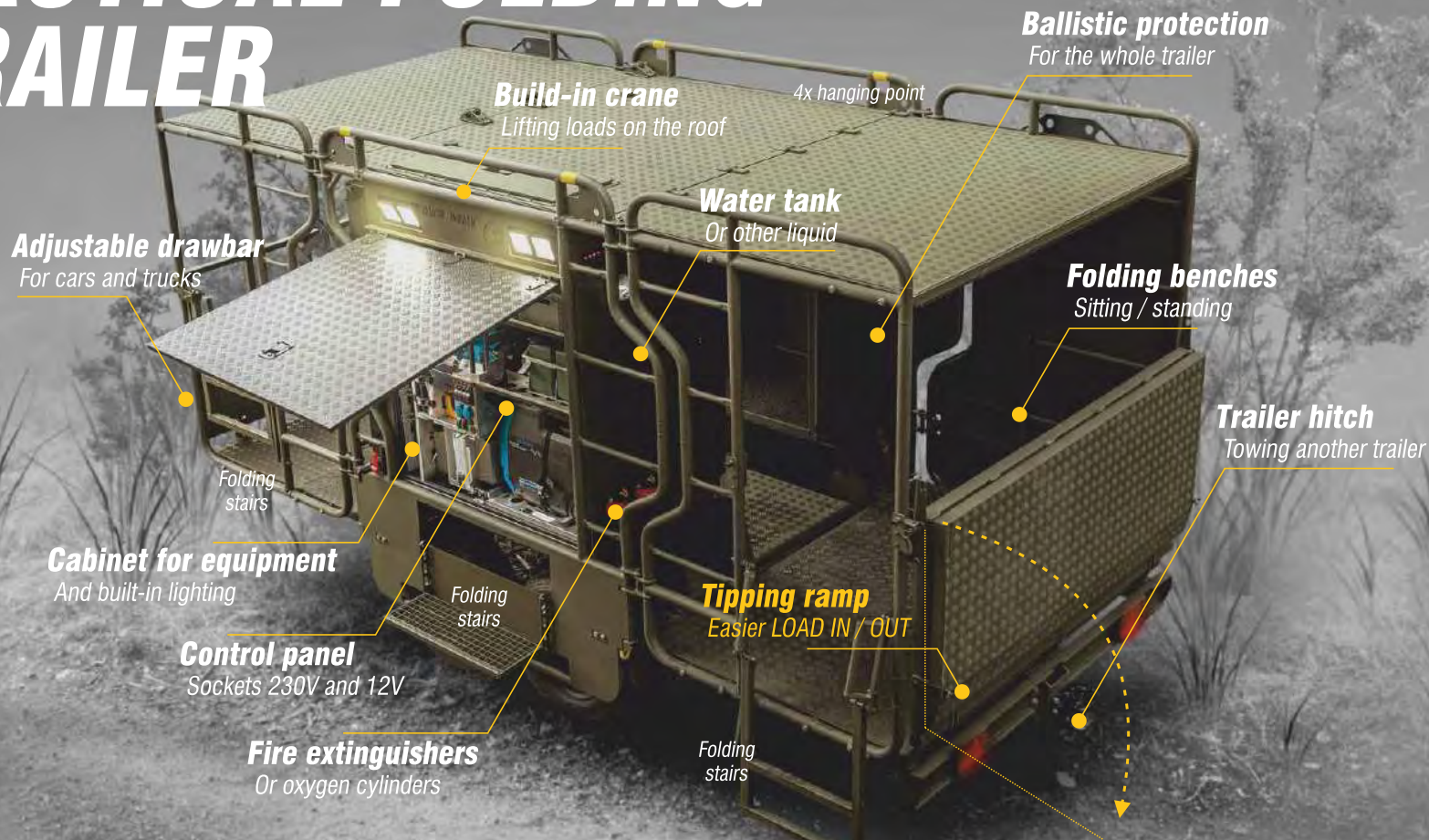


AUTONOMOUS



EASY TO OPERATE ALL PARTS / ALL FEATURES CAN BE OPTIONAL

TACTICAL FOLDING TRAILER



Customisable design and equipment according to your specifications

TECHNICAL SPECIFICATION

REQUIRES LESS SPACE

MAKING TRANSPORT CHEAPER



FOLDABLE
TO THIS STATE



**POWER GENERATOR, TRACTION BATTERY
EQUIPMENT**

▶ **READY TO TRANSPORT**

Dimensions: 2.25 x 2.10 x 2.80 m (W x L x H)

Units per truck trailer: 8

Fits within the dimensions of a NATO 463L pallet

▶ Quick and easy to dismantle
at the point of use without special
training or equipment

▶ Can be towed when folded

**EFFICIENT TRANSPORT
AND STORAGE OF THE TRAILER
WHEN FOLDED**

OPTIONAL BALLISTIC PROTECTION LEVEL

COMMAND POST TRAILER

AREA OF APPLICATION:

Coordination of emergency response team members
Surveillance of public events
Mobile command base
Multi-day operations

PROVIDES:

Energy-independent
Communication technologies
Satellite/Cellular internet
Telescopic mast for lights and technologies
Air conditioning/heating
Optional ballistic protection
Folding roof up to 100 m²

MOBILE MEDICAL FACILITY FOR VARIOUS APPLICATIONS

MEDICAL BASE TRAILER

AREA OF APPLICATION:

Treatment of large numbers of people
Mass-casualty traffic accident
Natural disasters
Mobile hospitals in remote areas

► PROVIDES:

Mobility - quick movement to another location by cars and trucks

ALL-IN-ONE solution - energy independence, inflatable tents, medical supplies, disinfection station

Up to 100m² folding roof with the possibility of closing with side walls - quick and easy installation

Comfortable and safe transport of injured persons



- Water tank capacity: 150 L - 4.000 L
- Air conditioning/heating/compressors
- Stretchers/bags for medical equipment
- Lighting tower
- Satellite internet and communication
- Roof storage area for tents with a load capacity of 1 tonne

DRONE BASE TRAILER



RAPID REPOSITIONING

Ammunition storage
with ballistic protection

Tethering system with winch
and technology

Roof load capacity up to 1000kg
additional cargo possible

Storage
batteries, power generator and technology

Independent suspension
durable chassis

Height-adjustable drawbar
for cars and trucks

SERVICE BASE TRAILER

Telescopic mast
up to 25 m in height

Weather stations and
surveillance cameras

Optional CBRN
protection

Roof can be equipped
with solar panels

Adjustable drawbar
for cars and trucks

Optional ballistic
protection

Extremely
durable chassis

OPERATIONS CENTER

- ▶ *Monitoring Wall*
- ▶ *Drone Control*
- ▶ *Server for data storage and evaluation*
- ▶ *Communication system for command and control*

SERVICE CENTER

- ▶ *Drone storage*
- ▶ *Storage and charging of batteries*
- ▶ *Storage of spare parts*
- ▶ *Pre-flight and flight control area*
- ▶ *Lighting*
- ▶ *Repair and service facilities*

LONG TERM MISSIONS

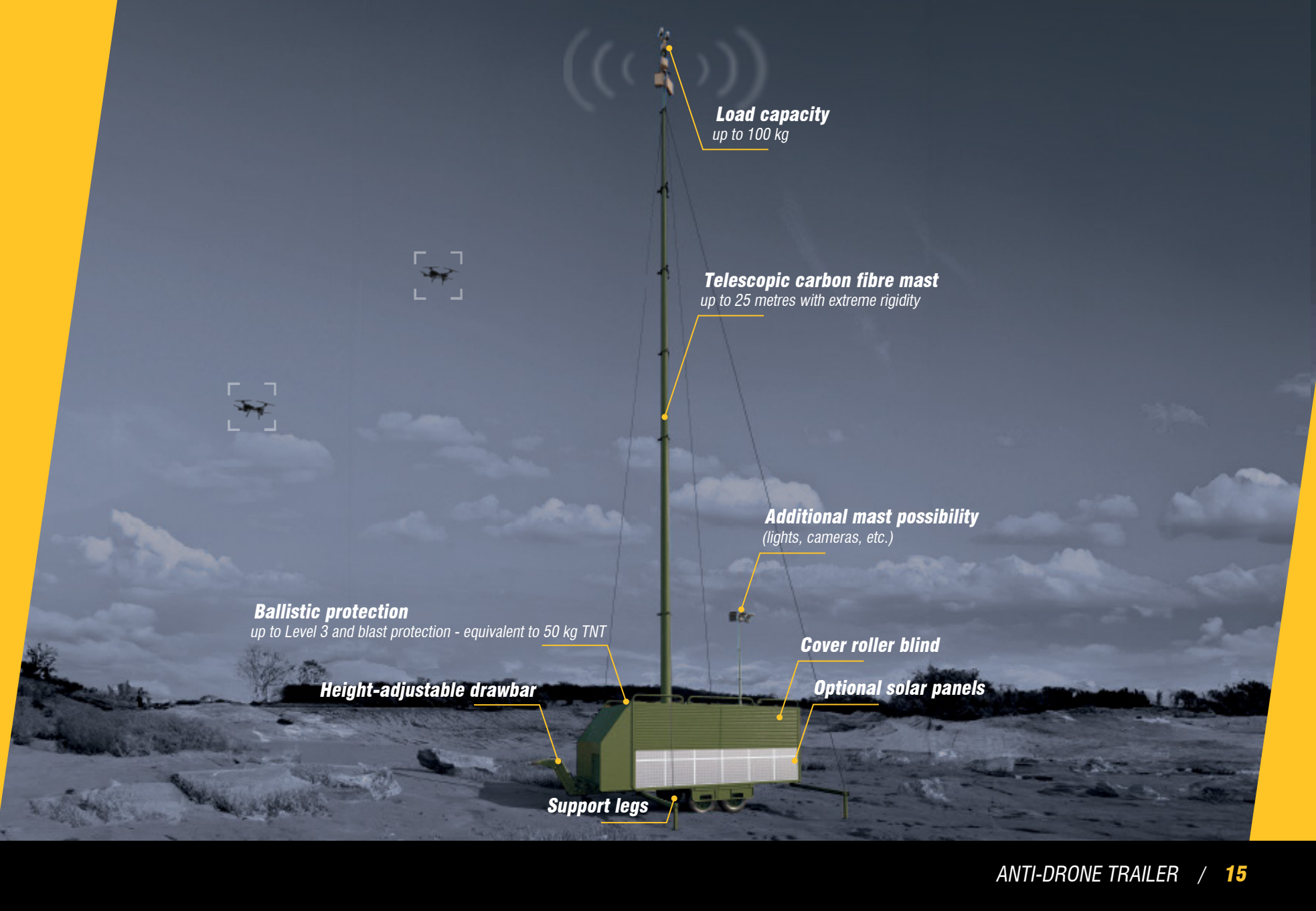
- ▶ *Water tank, waste tank*
- ▶ *Chemical toilet, shower*
- ▶ *Catering (fridge, food heating)*
- ▶ *Rest*

FACILITIES:

- ▶ *Electric generator*
- ▶ *Comfort - air condition/heating*
- ▶ *Camouflage (IR and thermal spectrum)*

ANTI-DRONE TRAILER





Load capacity
up to 100 kg

Telescopic carbon fibre mast
up to 25 metres with extreme rigidity

Additional mast possibility
(lights, cameras, etc.)

Ballistic protection
up to Level 3 and blast protection - equivalent to 50 kg TNT

Height-adjustable drawbar

Support legs

Cover roller blind

Optional solar panels

A green anti-drone trailer is parked on a sandy field under a blue sky with scattered clouds. The trailer has a tall, telescopic mast with various sensors and antennas at the top. A smaller mast with two spotlights is also visible. The trailer is mounted on a trailer platform with wheels and a hitch.

PURPOSE AND BENEFITS

AREA OF APPLICATION

- ▶ Real-time drone detection
- ▶ Analysis of communication frequencies and patterns
- ▶ Drone's behaviour
- ▶ Disabling enemy drone - Soft or hard kill

ENERGY INDEPENDENT

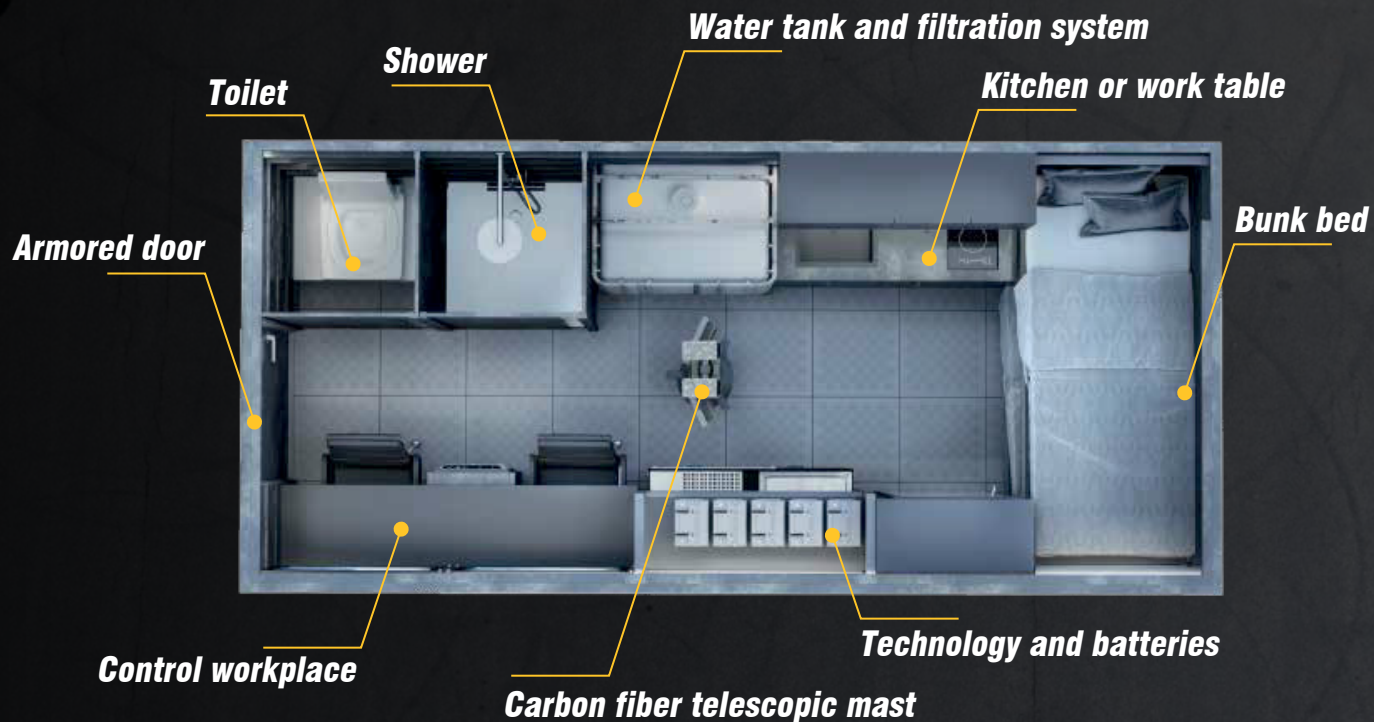
- ▶ Power sources for continuous operation
- ▶ Solar panels
- ▶ Traction batteries
- ▶ Methanol cells
- ▶ Power generator

PROVIDES

- ▶ Mobile base on trailer platform
- ▶ Short and long-term use
- ▶ Telescopic mast up to 25 m

INTERIOR

Equipment and design accordingly to individual requirements





TACTICAL MOBILITY SOLUTIONS
RESCUE

TRAILER



BLAST RESISTANT TRAILER



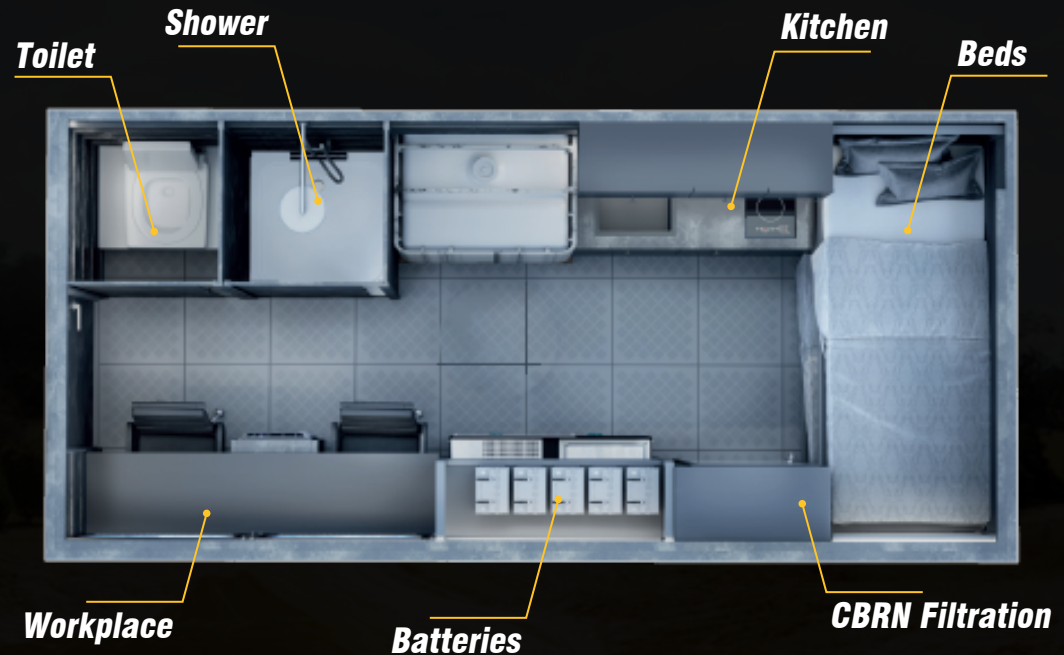
- ▶ Shelter for strategic personnel and equipment
- ▶ Inner safety according to STANAG 2280
- ▶ Transport of material and equipment
- ▶ Protection of rockets or ammunition
- ▶ Evacuation of strategic personnel
- ▶ Storage according to AASTP
- ▶ Fire resistance level R60
- ▶ ATEX Zone 2

Weight including chassis:
20 ft container up to 14 tonnes
15 ft container up to 11 tonnes

MOBILE STORAGE AND SHELTER

CUSTOM INTERIOR DESIGN AND TECHNOLOGY

A safe zone of 5 m around the trailer in case of explosion of ammunition stored inside



INDEPENDENT DECONTAMINATION TRAILER



EQUIPMENT IS INCLUDED

Drawbar
height adjustable

Folding benches

Folding roof 100 m²

Chamber 1
for decontamination and rinsing

Tanks and technology

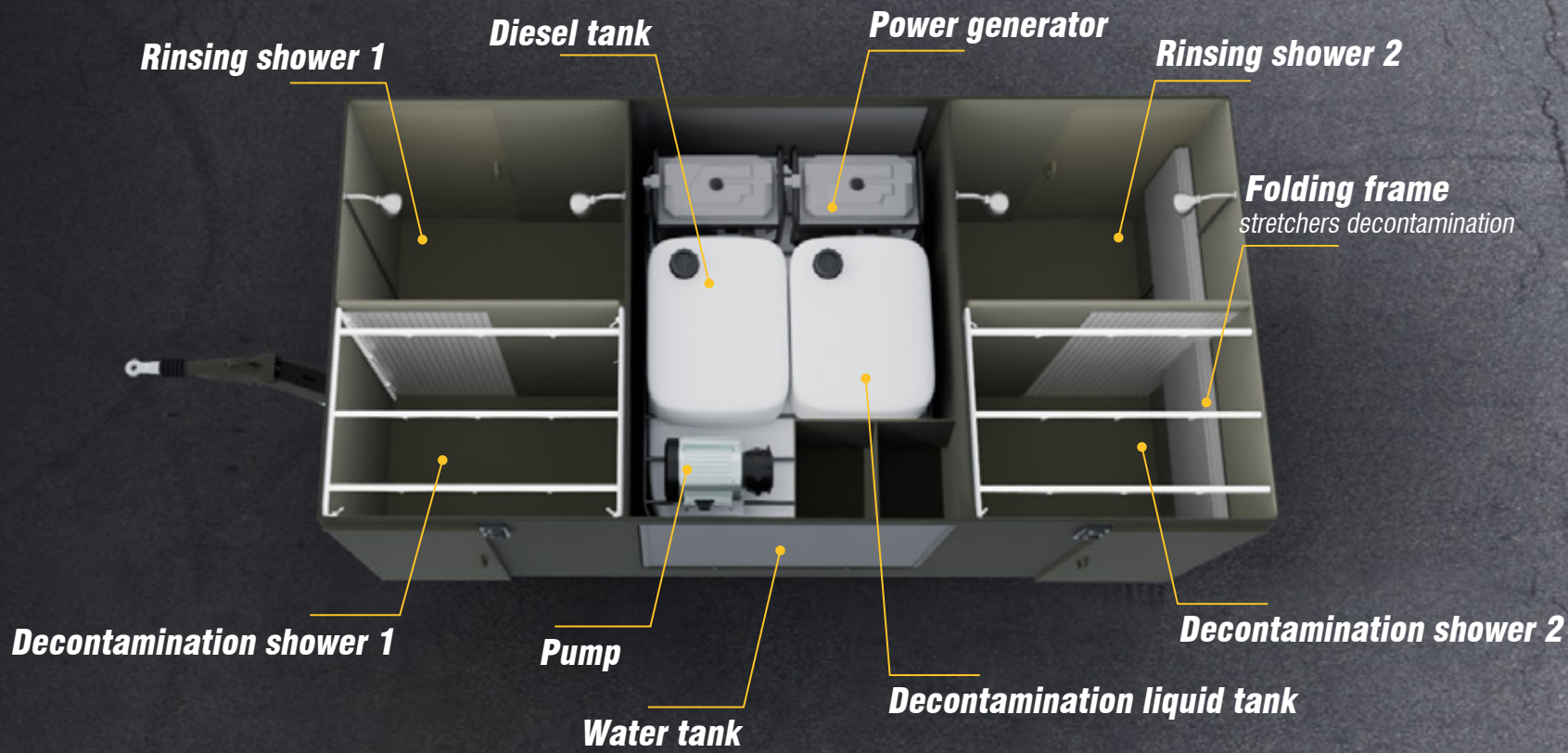
Chamber 2
for decontamination and rinsing

Rockinger
(option to tow an additional trailer)

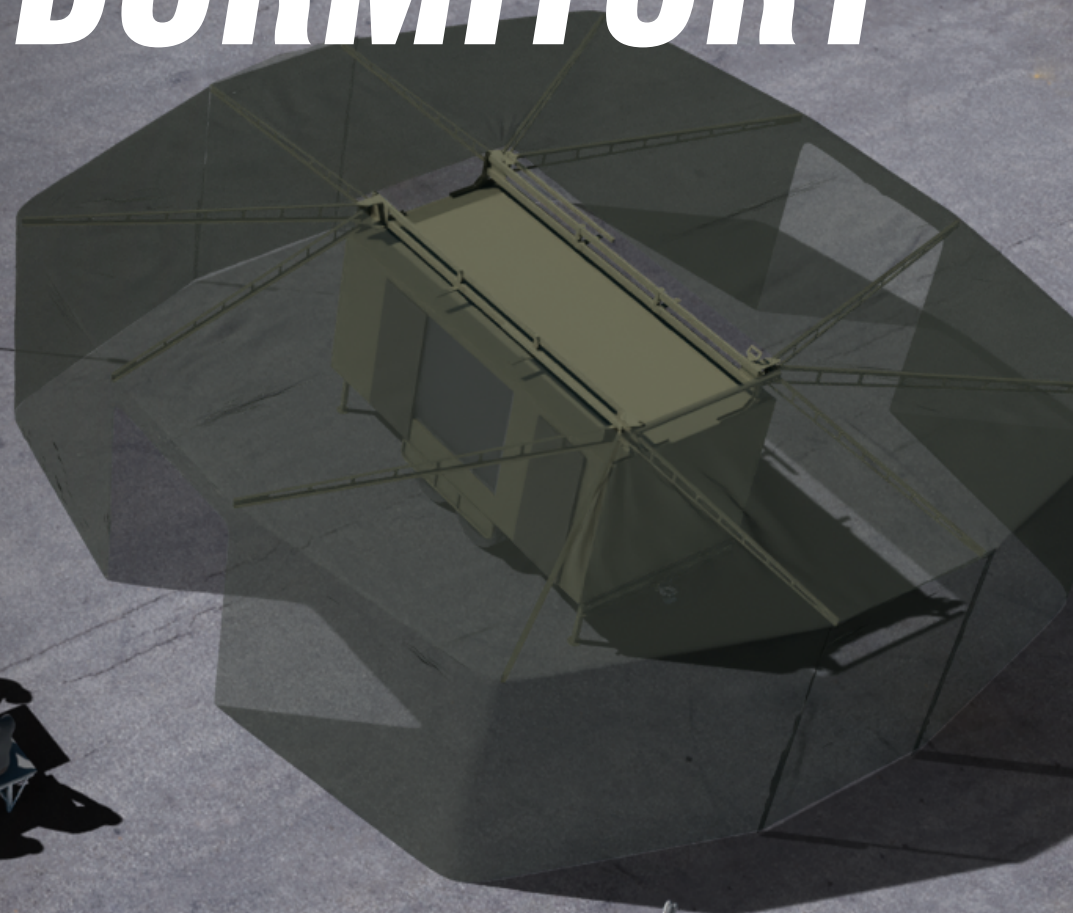
READY TO USE

- ▶ 4.000 L water tank
- ▶ 200 L diesel tank
- ▶ 200 L decontamination liquid tank

- ▶ Pump, water heating, power generator
- ▶ Vehicle decontamination kit
- ▶ Possibility to decontaminate persons on stretchers

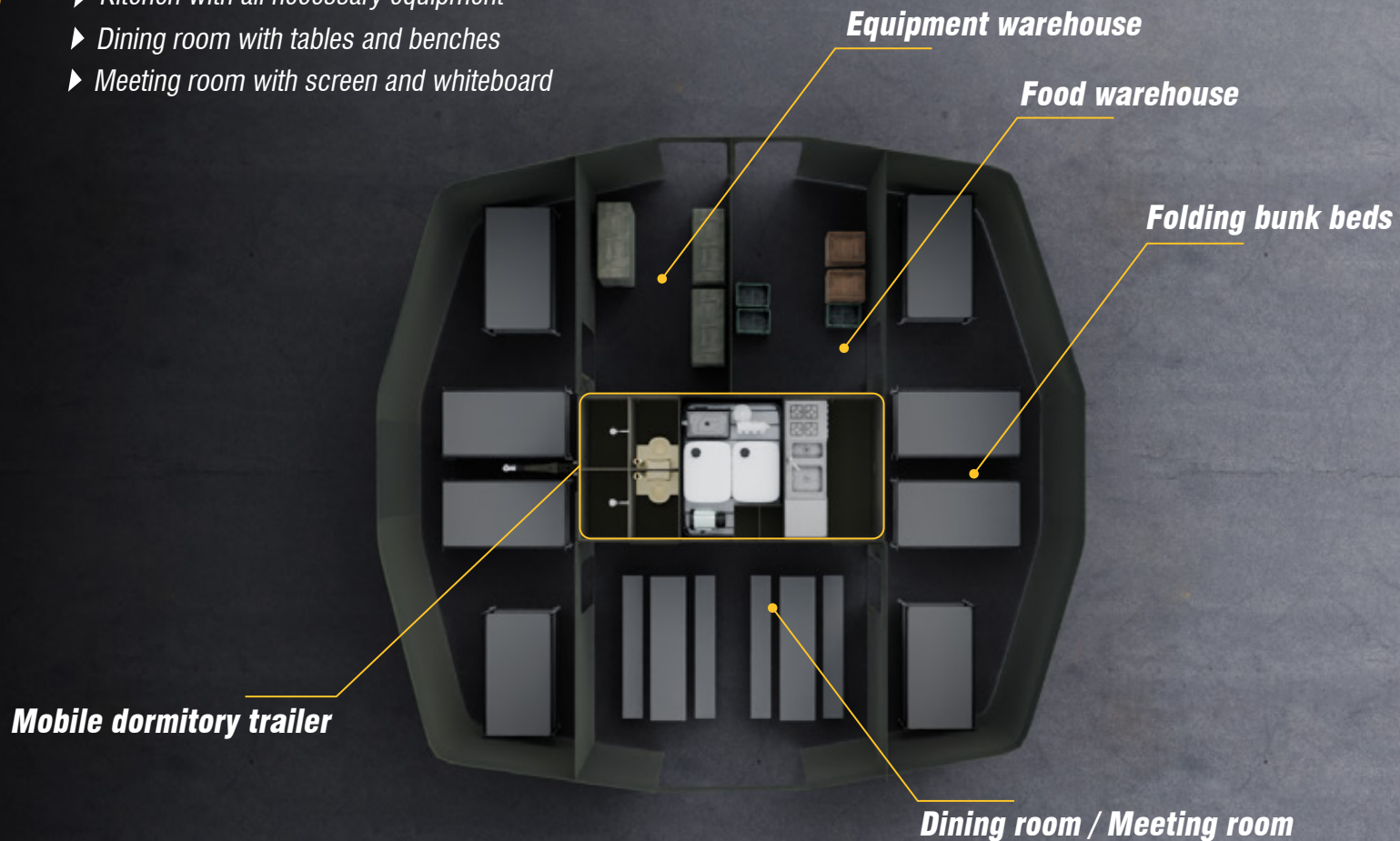


MOBILE DORMITORY TRAILER



CAPACITY 16 - 32 PERSONNEL DEPENDING ON MODIFICATION

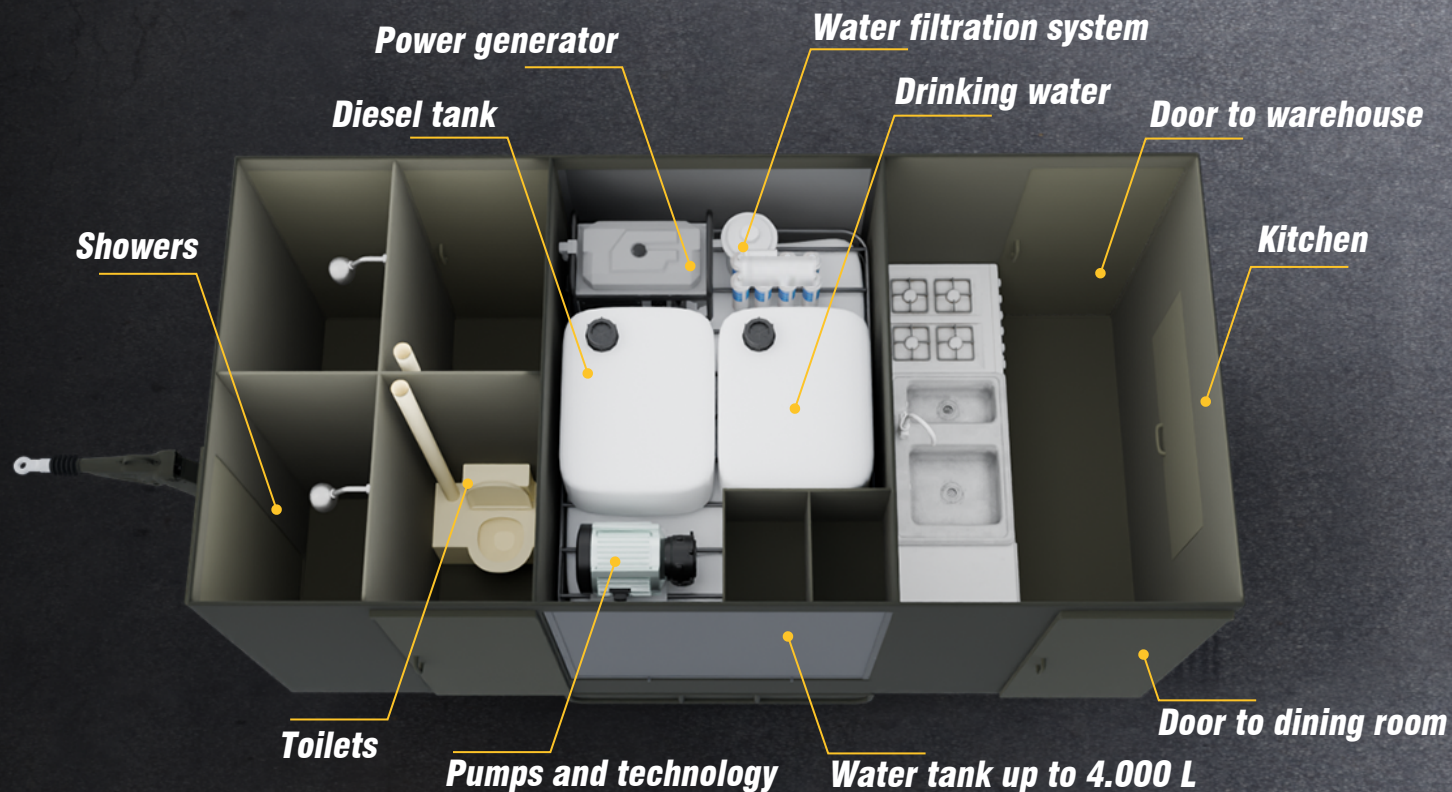
- ▶ *Folding bunk beds for comfortable rest*
- ▶ *Kitchen with all necessary equipment*
- ▶ *Dining room with tables and benches*
- ▶ *Meeting room with screen and whiteboard*



READY TO USE

- ▶ Fully functional even without folding roof
- ▶ Drinking and non-potable water tank
- ▶ Optional water filtration system

Optional hydropanel system for water air extraction ◀
Energy-independent ◀



Autonomous Surveillance and Drone Trailer

- ▶ *Lightweight construction for easy towing and moving of the trailer*
- ▶ *Integrated artificial intelligence for data evaluation and prediction*
- ▶ *Autonomous solution – take-off, landing, and charging*
- ▶ *Behaviour according to set patterns or manual control*
- ▶ *Resistant to adverse weather conditions*
- ▶ *Live monitoring and data evaluation*
- ▶ *Weather station for drone flight coordination*



Overview

A mobile autonomous trailer designed for long-term deployment to monitor large areas. It enables remote video transmission, unmanned aerial vehicle (UAV) control, and is suitable for protecting critical infrastructure, perimeter surveillance, tactical support, and emergency response.

Main Applications

Border and perimeter monitoring

Support for autonomous drone missions

Remote surveillance of wide areas

Facial recognition, license plate reading, or abnormal behavior detection using AI

Direct security coverage of large facilities

Power System

3x 380 W solar panels

MPPT (Maximum Power Point Tracking)
controller for maximum efficiency

6x 150 Ah batteries

Methanol fuel cells: 3x 125 W

Long-term autonomous operation

Optional backup electric generator

Connection to external 230 V mains supply

Anti-Vandalism and Security Features

Lockable compartments and cabinets

Motion sensors and alarm

Sensitive components hidden inside the trailer

IP 65 construction resistant to dust, rain, and vandalism

Connectivity and Communication

5G or satellite internet

Guaranteed radio or high-frequency connection 8-80 GHz

Integration with end interface using standard protocols or API

Cloud-based secure storage

Encrypted transmission.

Drone Integration

Charging and docking station

Autonomous takeoff and landing

Remote control and telemetry

Real-time video transmission

Artificial intelligence features: face recognition, license plate recognition

detection of human/animal movement

Sensors for fire detection, CBRN, etc.

Trailer Dimensions

Length: 265 cm, width: 170 cm

Weight: approx. 1340 kg

Chassis: Single axle with overrun brake

Durable construction for movement in rough terrain

Surveillance System

Motion sensors

Self-extinguishing system

TRANSPORT CAMERA PLATFORM

- ▶ *Possibility of monitoring even while driving with the mast extended*
- ▶ *AI module for traffic pattern analysis and predictive functions*
- ▶ *Energy Independence & Emissions-Free Operation*
- ▶ *Anti-vandal Protection & Security*
- ▶ *AI-Based Traffic Intelligence*
- ▶ *Environmental solution*



Trailer Features

Compact, lightweight and durable design

Traffic and area monitoring

License plate recognition

Real-time audio communication

Online data processing in the cloud

Encrypted transmission and high data security

Remote trailer monitoring and control

5G internet connection, satellite

Guaranteed radio communication

High-frequency communication 8 - 80 GHz

Security system and anti-vandal protection

Zero-emission system with its own power supply

Machine learning and artificial intelligence



General Overview

Mobile autonomous trailer designed for traffic monitoring, speed measurement and traffic violation detection. This system has been developed in accordance with the requirements of the Queensland Department of Transport and Main Roads (RFI SRI-STA-2502) and is suitable for deployment on public roads, including roadworks and construction zones. It enables speed measurement, license plate recognition, live video monitoring, and full remote control. It is designed for long-term unattended use and ensures continuous operation even in remote locations without access to mains power.

Dimensions & Construction

Homologation for Australia in cooperation with TÜV SÜD

Width: 165 cm, length: 240 cm

Carbon mast: weighs 57 kg, height 4–15 m

Trailer weight: 800–1350 kg (depending on configuration)

Chassis: Single axle with overrun brake

Wind resistance: Up to 20 m/s

Automatic mast folding in strong winds

Stabilizing legs with remote control

Jockey wheel for easy handling

Anti-vandal Protection & Security

Data protection: encrypted transmission and high-security cloud (in accordance with requirements and legislation)

Software security: encrypted access, geofencing, alerts in the event of unauthorized tampering

Video surveillance: continuous monitoring and recording

Solar panel protection: separate panels with additional protective cover

Remote access: full system control via secure connection

Mechanical security: all sensitive technology is inside the trailer/ technology on the extendable mast can be pulled into the trailer in case of danger (or adverse weather).

Technical Features

Static speed measurement with automatic recording

Traffic monitoring while driving with a trailer with extended mast

Cameras for license plate recognition

Video surveillance with live streaming, recording, and remote access

Two-way audio communication in real time

System diagnostics with remote management

Integrated AI for traffic situation analysis, violation analysis and predictive functions

Optional speed measurement between two points

API connection to software and user interface

Energy Independence & Emissions-Free Operation

Hybrid zero-emission energy system

A fully autonomous energy system ensures continuous operation in any environment:

- Solar panels: 3 × 380 W
- Charge controller: MPPT (Maximum Power Point Tracking)
- Batteries: 6 150 Ah SLA
- External power supply: compatible with 230 V AC
- Methanol fuel cells: 3 × 125 W - automatic operation as needed

Environmental benefits

Quiet operation – no noise or vibrations, ideal for urban and natural environments

Zero CO, VOC, or NOx emissions

By-products: only water vapour and minimal CO

The fuel cell automatically activates in low sunlight or cloudy weather

Certified to MIL standards for vibration, mobility, and harsh conditions

System Diagnostics & Remote Control

Continuous monitoring of hardware/software health

Remote fault alerts (vandalism, damage, theft attempts)

Autonomous operation without human intervention

Smart energy optimisation in real-time

AI-Based Traffic Intelligence

Live event detection and classification

- Vehicle detection and classification (passenger cars, trucks, motorcycles)
- Traffic volume and lane usage statistics
- Violations and exceptional situations:
 - Driving in the wrong direction
 - Vehicles in emergency lanes or off the road
 - Lane occupancy (for access control or traffic sign planning)
 - Vehicles ignoring traffic signs or stopping in prohibited areas
 - Prohibited overtaking, driving without lights or not using turn signals
 - Risky behaviour such as sudden braking, sudden acceleration or using a phone

Predictive analysis and behavior modeling

- Machine learning based on historical traffic data
- Traffic flow prediction and traffic congestion forecasting
- Dynamic adjustment of speed limits or warnings based on current conditions
- Integration of meteorological data for visibility, wind influence, and snow and ice
- Optimization of signal timing and fleet deployment (e.g., de-icing)

LIGHTWEIGHT TRACKING TRAILER

- ▶ *Optimised for deployment in urban environments or confined spaces*
- ▶ *Fully equipped telescopic mast with camera and sensor suite*
- ▶ *Lightweight design for easy towing and relocation*
- ▶ *Resistant to harsh weather conditions*
- ▶ *Remote control and live monitoring*
- ▶ *Integrated AI for data evaluation and prediction*



Overview and sustainability

LTT (Lightweight Tracking Trailer) is a compact and mobile security trailer designed as an autonomous platform for monitoring traffic, areas, and evaluating data using AI. Thanks to its compact design, it is ideal for deployment in confined spaces, densely populated urban areas, or on highway repairs. The system is designed for long-term unattended operation to maintain safety and compliance with the law. Advanced artificial intelligence (AI) enables the detection of a wide range of variables – from face recognition and people tracking to the detection of suspicious or conflicting behaviour. This allows for a timely response to incidents and ensures effective protection of monitored areas. The system and technology can be designed according to your specific needs and, thanks to its sustainability, can be upgraded to newer technologies in the future.

Anti-vandal Protection

Like all Rescue Trailer systems, the LTT is equipped with advanced mechanical and software protection. This includes a reinforced construction, a protective grille over the solar panels, CCTV monitoring, remote communication options, and secure internal storage of all technology. The telescopic mast can be retracted into the trailer in case of danger or adverse weather conditions, protecting the cameras and technology.

Energy Independence & Environmental Impact

It has no heat or smoke emission, and the only waste product is distilled water.

Dimensions

Width: 150 cm, length: 200 cm

Trailer height: depending on the configuration of the mast and solar panel

Carbon mast height: 4–15 m

Wind resistance: up to 20 m/s

Chassis type: single axle with overrun brake

Mast lifting: electric winch 12–24 V DC – pulls and lifts with the same force, ensuring trouble-free use even in winter when icy conditions prevail

Connectivity & Storage

- Internet connectivity: 5G and satellite internet, guaranteed radio transmission and high-frequency transmission 8-80 GHz
- Data recording and processing
 - Encryption and secure storage and transmission
 - Network video recorder (NVR)
 - Cloud

Power Supply

- Solar panels: 2 × 380 W
- Charge controller: MPPT (Maximum Power Point Tracking)
- Batteries: 2 × 200 Ah
- External power supply: 230 V AC
- Methanol fuel cells: 2 × 125 W
 - Long-term operation without refueling

FIRE MONITORING TRAILER

- ▶ *Autonomous and zero-emission mobile monitoring unit*
- ▶ *Short-term and long-term 24/7 operation*
- ▶ *Remote access for technology control*
- ▶ *Telescopic carbon mast up to 25m*
- ▶ *Connected to the internet 24/7*
- ▶ *Automatic leveling system*





The image shows a red fire monitoring trailer parked in a grassy field. A tall, black carbon mast rises from the trailer, supporting a PTZ camera, Starlink, GPS and LTE, Beacon, and Weather station. The trailer features a leveling system, a durable chassis with independent suspension, and a height-adjustable drawbar. Energy sources include solar panels, methanol fuel cells, battery storage, and an external power source. The trailer is equipped with a weather station and beacon on the mast.

Technology

*PTZ camera
Starlink
GPS and LTE
Beacon
Weather station*

Carbon mast

*Height up to 25m
Load capacity up to 100 kg*

Energy sources

*Solar panel
Methanol fuel cells
Battery storage
External power source*

Weather station / Beacon

Height-adjustable drawbar

Trailer leveling system

*Automatic leveling
Lift up to 310 mm*

Durable chassis

*Independent suspension
Ground tolerance of 700 mm*

- ▶ *Autonomous and zero-emission mobile monitoring unit mounted on a trailer platform up to 3.5 t, towable by both passenger and utility vehicles, such as pick-ups, vans and trucks*
- ▶ *The system is intended to monitor areas and detect fires and risk situations using cameras, sensors, and other technologies to be defined in cooperation with the Client*
- ▶ *This trailer is designed for deployment in demanding missions, i.e., in rough terrain and under adverse weather conditions*
- ▶ *Designed for easy and repeated use under harsh conditions and in locations without infrastructure, such as perfectly level ground, electric grid, or permanent staff*
- ▶ *The system is autonomous, equipped with technologies and subsystems designed either for automated operation or for remote control*
- ▶ *Chassis construction with two axles, independent suspension, and 200 mm travel*
- ▶ *Motion detection in restricted zones with alarm and notification*
- ▶ *Design optimised for protection against weather, theft, and vandalism*
- ▶ *Automatic fire suppression system*

CUSTOM TRAILERS

TAILOR MADE SOLUTIONS



ENERGY INDEPENDENT

Conventional power generators

The gasoline generator with the PDM207 unit automatically starts and stops based on a 6-12 V impulse or switching contact. It has an electric starter and delayed load connection after warming up, which extends engine life. The PDM207 unit offers programmable functions such as preventing night operation, regular starts for battery recharging, and remote control via a GSM module. The generator is equipped with an AVR voltage regulation for sensitive devices.

Traction batteries

The Smart Battery Management System (BMS) automatically optimizes lithium battery parameters and protects it from over charging and deep discharge. Thanks to the built-in heating element, the battery can be charged in temperatures as low as -20°C, which most lithium batteries cannot do. It is splash-proof, designed for high current loads, and uses safe LiFePO4 technology with high capacity and low weight.

Diesel heater

Reliable diesel heater ensures consistent and efficient heating for your entire operation base, even in harsh outdoor conditions. Designed for mobility and performance, it's ideal for field deployments or mobile units. Low fuel consumption and robust construction make it a cost-effective solution for long-term use.

Methanol cells

Methanol fuel cells are ideal for remote areas without electricity, automatically charging batteries and providing long-term self-sufficiency. Example: one cell provides 175W of power, and for continuous operation, 8-9 cells are required with 14 days of autonomy on 300L of methanol.

Solar systems

Solar panels and methanol fuel cells for continuous power supply, even without a stable grid. Hybrid power allows soldiers and rescuers to use energy day and night, enhancing self-sufficiency and reliability in the field.

BALLISTIC PROTECTION

BALLISTIC PROTECTION

The rescue trailer is designed for transporting people and cargo, but its flexible design allows for various other applications and configurations. Like other models, it can provide ballistic protection for its crew or cargo. Due to the trailer's design, the installation of the required protection is quick and easy, without any special equipment.

This also allows for simple replacement in case of damage. Installation is performed by rescue trailer personnel or can be retrofitted by a trained customer technician. Each rescue trailer can be customized to meet the customer's needs regarding protected area, level of protection, weight, and budget.

BLAST PROTECTION

Inner safety level according to STANAG 2280

Storage space according to AASTP

Fire resistance level R60

ATEX Zone 2

BASIC DESIGNS OF BALLISTIC PROTECTION:

SOFT BALLISTIC

STANAG 2920 - 1,1G FSP

VELOCITY	WEIGHT
450 m/s	2,4 Kg/m ²
600 m/s	4,8 Kg/m ²
800 m/s	8,8 Kg/m ²

NIJ IIIA 0108.01 + ST ANAG 2920 1,1G FSP 550M/S 4,7 Kg/m²

HARD BALLISTIC

EN 1522/3 PROTECTION LEVELS (UHMWPE)

FB4 (SIMILAR TO NIJ IIIA), 1,1G FSP 600 m/s

FB6 (SIMILAR TO NIJ III+) 1,1G FSP 1200 m/s

NA TO AEP-55 ST ANAG 4569 PROTECTION LEVELS (UHMWPE + CERAMIC)

LEVEL 1: 29 Kg/m² (+/- 2 Kg/m²)

LEVEL 2: 44 Kg/m² (+/- 2 Kg/m²)

LEVEL 3: 78 Kg/m² (+/- 2 Kg/m²)

LEGAL COMPLIANCE

Safety and compliance with legal regulations

Compliance with all applicable safety legislation and standards in your region

Trailer homologation for road use in cooperation with TÜV SÜD
We comply with safety, legal, and regulatory requirements, including data management and data security

Warranty

Standard warranty: 30 months

Minimum warranty per component: 24 months

Training

Training program tailored to user needs

Materials include presentations, manuals, checklists

Format: theory - practical application - final evaluation - ongoing support

Maintenance

Clear documentation of preventive, reactive, and predictive maintenance

Regular maintenance intervals and safety procedures.

Trailers are tested in accordance with military standards.

Side tilt approximately 40°
(depending on modification).





MORE INFORMATION



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PARTNERSHIP

- ▶ *We are a member of DSIA*
- ▶ *We are a member of Security Bunkers Alliance*
- ▶ *We are a partner of Future Forces fair trade*



DSIA
Defence and Security
Industry Association of the CR



Future Forces
INTERNATIONAL EXHIBITION
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