OMNITECH ROBOTICS
UNMANNED SYSTEMS

VIPER PRO SERIES

RUGGED ALL-TERRAIN UNMANNED SYSTEMS

DEPLOY /
EXPLORE /
INSPECT /
PROTECT /

The **Viper PRO Series** delivers rugged, high-performance unmanned ground systems designed for industrial, security, and defense applications. Engineered for the world's most demanding environments, the Viper PRO combines all-terrain mobility, modular design, and intelligent capabilities to extend your reach, improve situational awareness, and keep personnel out of harm's way.



- ALL-TERRAIN MOBILITY
- RUGGED CONSTRUCTION
- MODULAR PAYLOADS
- MISSION-READY PERFORMANCE

SYSTEM CONFIGURATIONS

TWO PLATFORMS. A COMMON MISSION.

The Viper PRO Series offers two mission-tailored configurations built on a shared rugged platform. Each variant is engineered for specific operational needs, giving you the right capabilities for your mission while maintaining the same proven reliability, modular design, and all-terrain performance.

DEPLOY /
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VIPER PRO
LOW PROFILE



- 2K CAMERA
- OPERATES INVERTED
- LOW PROFILE
- COMPACT DEPLOYMENT

VIPER PRO
THERMAL



- 4K CAMERA
- 30X ZOOM
- THERMAL SENSOR
- LONG-RANGE OBSERVATION

ALL-TERRAIN MOBILITY | RUGGED CHASSIS | MODULAR PAYLOADS | REMOTE VIDEO | QUICK-SWAP BATTERY | 12 MOUNTING POINTS

OMNITECH ROBOTICS
UNMANNED SYSTEMS

VIPER PRO LOW PROFILE

LOW PROFILE CONFIGURATION

The **Viper Pro Low Profile** is built for confined and difficult-to-access environments, combining compact dimensions, rugged mobility, and reliable visual inspection capability.

DEPLOY /
EXPLORE /
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2K CAMERA
High-resolution daytime imaging

OPERATES INVERTED
Maintains functionality in any orientation

LOW PROFILE
Designed for confined spaces

COMPACT DEPLOYMENT
Rapid setup and easy transport

IDEAL FOR

- CRAWLSPACES
- UNDER-VEHICLE INSPECTION
- TECHNICAL VOIDS
- RAPID DEPLOYMENT MISSIONS

COMPACT FOOTPRINT | **RUGGED CHASSIS** | **REMOTE VIDEO** | **MISSION-READY**

VIPER PRO THERMAL

THERMAL CONFIGURATION

The **Viper Pro Thermal** delivers enhanced visual intelligence through combined 4K imaging, thermal sensing, and 30x zoom for observation, reconnaissance, and inspection tasks.



4K CAMERA
Ultra high-resolution visual imaging

30X ZOOM
Long-range target identification

THERMAL SENSOR
Day and night operation

LONG-RANGE OBSERVATION
Enhanced situational awareness

IDEAL FOR

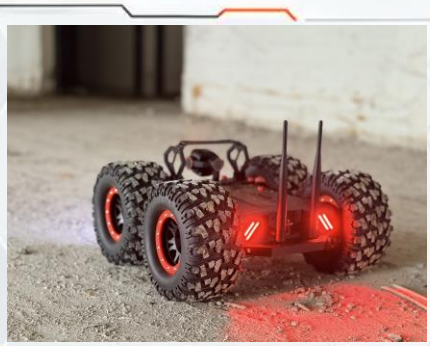
- Perimeter inspection
- Search and observation
- Low-light operations
- Extended situational awareness

- ADVANCED OPTICS
- THERMAL AWARENESS
- MODULAR PAYLOADS
- FIELD RELIABILITY

PLATFORM FEATURES

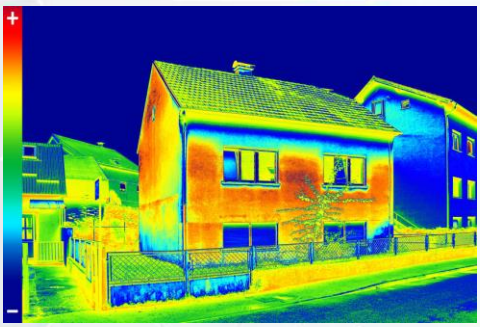
CORE CAPABILITIES OF THE VIPER PRO SERIES

Built on a shared platform, the **Viper PRO Series** delivers rugged mobility, modular design, advanced imaging integration, and operator-focused safety features. This combination enables a versatile system that adapts to a wide range of missions in challenging environments.



ALL-TERRAIN MOBILITY

Four-wheel platform designed for rough terrain and obstacle negotiation.



ADVANCED IMAGING

Support for high-resolution visual and thermal camera systems.



MODULAR PAYLOAD INTEGRATION

12 mounting points for sensors and mission-specific equipment.



REMOTE OPERATION

Intuitive control and live video transmission for safe stand-off operation.

QUICK-SWAP BATTERY | RUGGED CONSTRUCTION | MISSION READY | FIELD DEPLOYABLE | EXPANDABLE PLATFORM | OPERATOR SAFETY

TECHNICAL SPECIFICATIONS

Platform dimensions, mobility and sensor configurations

PLATFORM COMPARISON

SYSTEM ATTRIBUTE	VIPER PRO LOW PROFILE	VIPER PRO THERMAL
Dimensions (L × W × H)	330 × 350 × 170 mm	330 × 350 × 200 mm
Weight	4 kg (nominal)	4 kg (nominal)
Imaging system	3-axis gimbal · 2K QHD	3-axis gimbal · 4K + thermal
Zoom	Camera-dependent	30× zoom
Thermal resolution	Not applicable	512 × 384 px
Inverted operation	Full driving functionality	Not specified
Drive system	4 × heavy-duty 12 V motors	4 × heavy-duty 12 V motors
Steering	Zero-turn capability	Zero-turn capability
Wheel configuration	170 mm all-terrain rubber	170 mm all-terrain rubber
Optional drive	Interchangeable tracks	Interchangeable tracks
Climbing capability	Up to 45° incline	Up to 45° incline
Travel speed	3.5 km/h	3.5 km/h

MECHANICAL ARCHITECTURE

12 MOUNTING POINTS
Modular threaded top hatch

REAR TOW HOOK
Safety line / retrieval / towing

COMPOSITE HOUSING
PETG / carbon / glass-fiber

SYSTEM POWER & TELEMETRY

Lighting, endurance, motor protection and operator control

12 W	> 2 HOURS	5,200 mAh
HIGH-POWER LED	OPERATING TIME	LiPo BATTERY
Wide-angle · remotely switchable	Depending on operating conditions	Quick-swap energy pack

ILLUMINATION + SAFETY

HIGH-VISIBILITY LIGHTING

12 W main LED, wide-angle; controlled remotely

FRONT & REAR DRIVING LIGHTS

White front / red rear running lights

INTELLIGENT POWER MANAGEMENT

REGENERATIVE MOTOR CONTROL

Energy recovery during deceleration

LOW-VOLTAGE PROTECTION

Automatic cutoff and advance warnings

SMART TELEMETRY / LIVE MONITORING

COMPASS + HEADING
Directional awareness

TILT / ROLL ANGLE
Attitude monitoring

ROBOT TEMPERATURE
Onboard heat monitoring

BATTERY VOLTAGE
Live power status

LINK STRENGTH
Telemetry signal indication

BATTERY ALERTS
Protection warnings

COMMAND & CONTROL

SKYDROID H12 PRO	7-INCH 1080p	LIVE VIDEO FEED
Android controller	Integrated full-HD display	Remote visual operation

APPLICATIONS & FUTURE UPGRADES

ADAPTABLE SYSTEMS FOR INDUSTRIAL, SECURITY AND DEFENSE MISSIONS



CONFINED-SPACE INSPECTION
Access hard-to-reach and hazardous environments.

UNDER-VEHICLE INSPECTION
Inspect vehicles quickly and safely.

SECURITY PATROL SUPPORT
Enhance perimeter and facility security.

OBSERVATION & RECONNAISSANCE
Gather real-time situational awareness.

INFRASTRUCTURE INSPECTION
Monitor critical industrial and civil assets.

REMOTE HAZARD ASSESSMENT
Investigate and assess dangerous areas.

READY FOR FUTURE UPGRADES

- Autonomous navigation
- Robot swarm support
- LiDAR scanning
- Laser range finding
- Mothership with drone launching platform
- Gripper addon
- Trailer towing
- AI-powered object recognition

Future capabilities subject to development and configuration.

MODULAR | UPGRADEABLE | MISSION READY | BUILT FOR EXPANSION

ABOUT OMNITECH ROBOTICS

OmniTech Robotics is a Dutch developer and manufacturer of advanced unmanned systems for inspection, security, and mission-specific robotics. We design and build rugged, reliable platforms that operate in the world's most demanding environments, combining innovative engineering with practical real-world experience to deliver dependable solutions for critical missions.

INCLUDED IN DELIVERY

- Viper PRO platform
- Handheld controller
- Battery set
- Protective transport case
- Charging accessories
- Documentation





Ferry Onstenk
Founder

CONTACT

OmniTech Robotics
Made in the Netherlands
info@omnitechrobotics.nl
www.omnitechrobotics.nl

WHY OMNITECH

- Custom robotics
- R&D engineering
- Embedded systems
- Mission-specific solutions