

TERREX s5 HED

POWERING THE NEXT GENERATION ARMY



SMARTNESS + SUPERIORITY + SUSTAINABILITY + SURVIVABILITY + SERVICEABILITY

 **ST Engineering**

TERREX s5 HED is a hybrid-electric 8x8 combat vehicle engineered for mobility, power, and adaptability. Its HED architecture enhances power availability, silent operations, and interior space, enabling seamless integration of advanced and high-powered mission systems. With strong urban performance, modular protection and a future-ready digital backbone, TERREX s5 HED delivers the versatility and survivability required for modern operations.

CAPABILITIES OVERVIEW

SMARTNESS

Leveraged intelligent technologies and advanced vetronics

-  Advanced Multi-Mission Crew Stations
-  360° Situational Awareness
-  Auto Target Detection & Tracking

SUPERIORITY

Supported with future-ready concept of operations

-  Integrated Multi-Domain Connectivity
-  AI-Enhanced Manned Unmanned Teaming
-  Configurable For Amphibious Operations

SUSTAINABILITY

Expanded operational envelope for power/range and design with modularity

-  Smart Power Management
-  Secured Digitalised Vehicle Architecture
-  Sustain High-Powered Payloads

SURVIVABILITY

Protected with customisable systems

-  Smart Defence System
-  Bird's Eye View with Object Bearing and Range Detection
-  Drive By Wire Allows Handing Over of Mobility Controls

SERVICEABILITY

Incorporated with practical designs for ease of maintenance

-  Condition-Based Maintenance with Health and Utilisation Monitoring System
-  Smart Maintainability Features Enhancing Users' Operational Experience
-  On-Board Diagnostics



HYBRID ELECTRIC DRIVE: POWERING MORE THAN MOBILITY



Last-Mile Stealth Operations
Enabled Through Electric Mode



Extended Auxiliary System
Power Capacity, Enabling New
Operational Capabilities



Improved Reliability and
Maintainability Due To Fewer Moving
Components And System Modularity



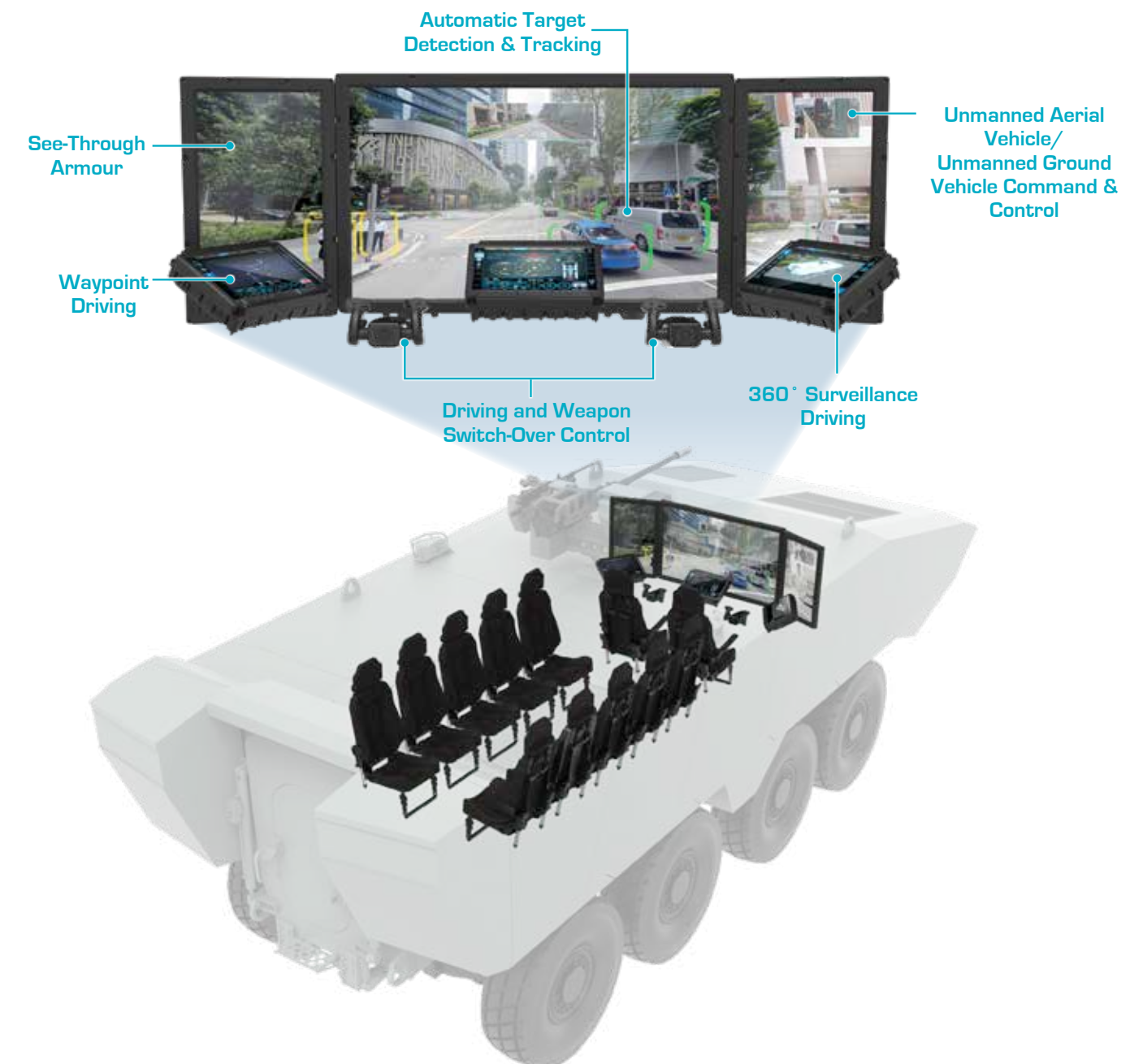
Extended Silent Watch



Increased Operations Range With
Improved Fuel Efficiency



Additional Internal Space to Allow
Different Seating Configurations



TECHNICAL SPECIFICATIONS	
DIMENSIONS	
Length	8.3 m
Width	3.0 m
Height	2.7 m
WEIGHT	
Gross Vehicle Weight	35,000 kg
Payload	13,000 kg
Personnel	2 Crew + 10 Troopers
PROTECTION	
Ballistic Protection	STANAG 4569 Level 4 (Configurable)
Mine Protection	STANAG 4569 Level 4a / 4b (Configurable)
MOBILITY SYSTEM	
Power Plant	Range Extender with Lithium Ion Battery
Traction Motor Output	1,200 hp
Suspension	Independant, Double Wishbone, Hydropneumatic
Steering	Hydraulic Assisted Power Steering
Brake System	Regenerative Pneumatic with Anti-lock Braking System
MOBILITY PERFORMANCE	
Maximum Speed	120 km/h
Road Range	1,000 km
Approach Angle	40°
Departure Angle	40°
Gradient	60%
Side Slope	30%
Vertical Obstacle	0.7 m
Trench Crossing	2.0 m
Fording Depth	1.8 m
HYBRID ELECTRIC DRIVE PERFORMANCE	
Silent Range	50 km
On-board Power	50 kW @ 28 VDC 450 kW @ 700 VDC
SMARTNESS FEATURES	
Drive-by-Wire Manned-Unmanned Teaming (MUM-T) Teleoperation Kit Driver Status Monitoring Lane Departure Warning Blind Spot Warning Thermal Imaging Camera	

Note: Specifications are subject to change by the manufacturer without prior notice. Pictures shown are for illustrative purposes only, actual product may vary.