

REMAVA



XRANGE

ADVANCE YOUR TESTING.
PERFECT YOUR PERFORMANCE.



TEST, VERIFY, PERFORM —

THE ONLY STATE-OF-THE-ART, MULTI-DOMAIN LAND, AIR AND SEA PRODUCTS TESTING TRAINING AND REHEARSALS RANGE IN THE REGION

The REMAYA X-Range testing range brings sophisticated, flexible and comprehensive testing capabilities to the heart of the Middle East, Africa, and Central and South Asia region. Offering state-of-the-art air, ground and maritime testing capabilities, the range enables the most accurate data capture and analysis to assess all types of manned and unmanned platforms and systems, and both conventional and electronic warfare weapons.

Conventional munitions, such as bombs and rockets, and electronic warfare lasers and signal jamming can be tested with cutting-edge high-precision, video and data acquisition systems. These are aided by multiple asset surveillance and tracking technologies and advanced hemispheric tracking radars. For electronic warfare, passive RF monitoring creates a known RF environment to facilitate the scientific testing of these systems.

Assessment of data is automated through high-level telemetry and data acquisition systems. Real-time, remote monitoring of test conduct is enabled through a range-wide data network

THE ISLAND

A short 100km drive from Abu Dhabi city, the X-Range is located on an island approximately 8km offshore. It is 35km by 15km, enabling a land danger area of 350km², inclusive of a 3.8-km-long, 60-metre-wide runway. The air danger area is permanently closed to 10,000ft and can be extended significantly higher. A 50km² sea danger area enables shallow- and deep-water testing, training and rehearsal.

WORLD-CLASS RANGE OPERATIONS

X-Range operates an automated, online booking system for an efficient client interface. This ensures the most experienced test specialists are engaged early to develop the optimal test strategies. This includes consideration of diverse factors such as location, time of year, test set up, data capture and analysis plan, and both live and after-the-fact test reporting.

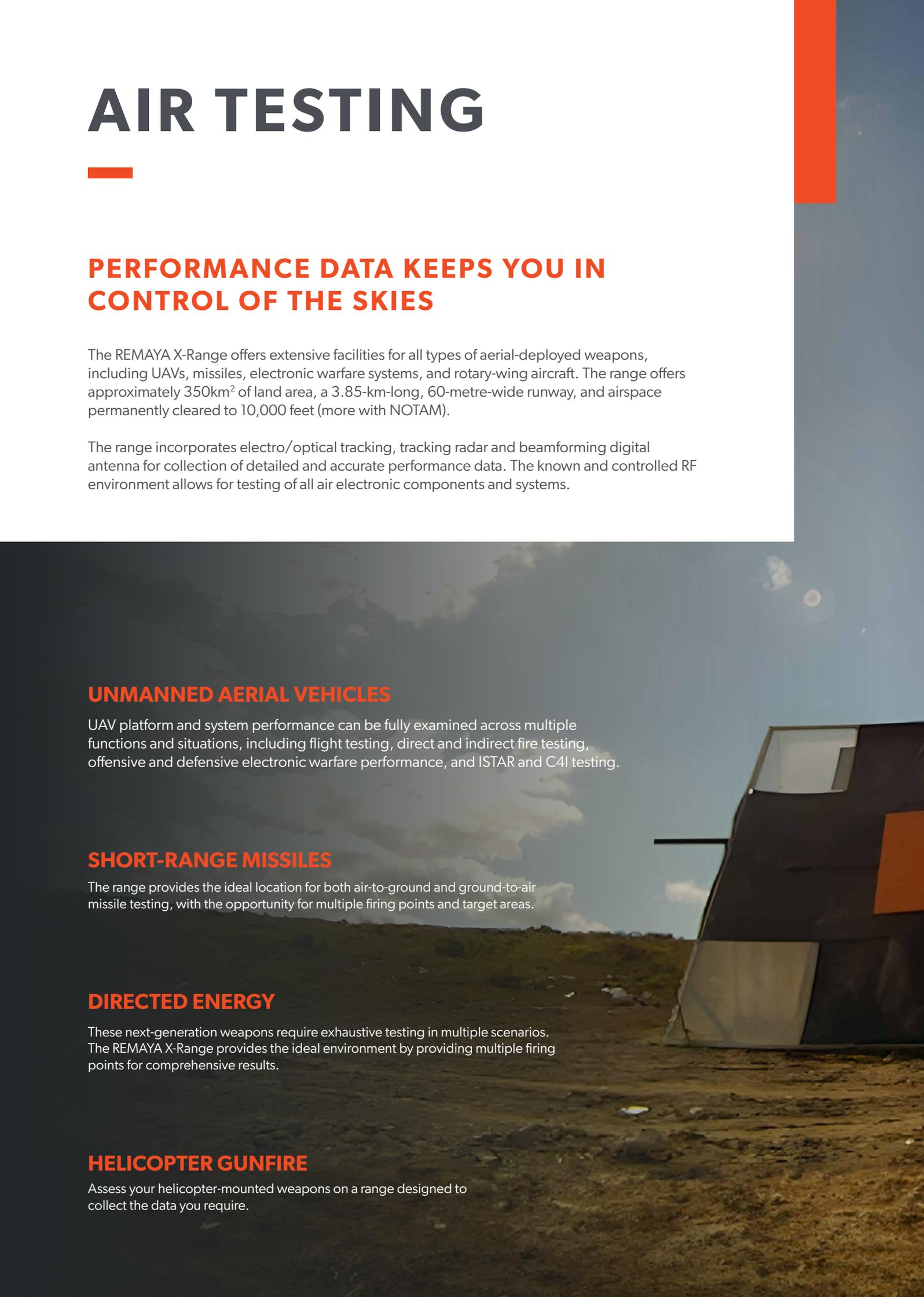
Safety at X-Range is delivered through global best-practice range control that is supported by passive RF monitoring, an island-wide digital communications network, air and sea tracking, and surveillance radars and RF tracking of all people and assets when the range is operational.

KEY FEATURES

- Large land, sea and air danger area for testing
- Secure, non-populated range area
- Known, controlled RF environment
- Cutting-edge instrumentation, data capture and analysis
- Highly trained range operators
- High visibility and premium weather conditions for hot weather testing
- Close proximity to Abu Dhabi city



AIR TESTING



PERFORMANCE DATA KEEPS YOU IN CONTROL OF THE SKIES

The REMAYA X-Range offers extensive facilities for all types of aerial-deployed weapons, including UAVs, missiles, electronic warfare systems, and rotary-wing aircraft. The range offers approximately 350km² of land area, a 3.85-km-long, 60-metre-wide runway, and airspace permanently cleared to 10,000 feet (more with NOTAM).

The range incorporates electro/optical tracking, tracking radar and beamforming digital antenna for collection of detailed and accurate performance data. The known and controlled RF environment allows for testing of all air electronic components and systems.

UNMANNED AERIAL VEHICLES

UAV platform and system performance can be fully examined across multiple functions and situations, including flight testing, direct and indirect fire testing, offensive and defensive electronic warfare performance, and ISTAR and C4I testing.

SHORT-RANGE MISSILES

The range provides the ideal location for both air-to-ground and ground-to-air missile testing, with the opportunity for multiple firing points and target areas.

DIRECTED ENERGY

These next-generation weapons require exhaustive testing in multiple scenarios. The REMAYA X-Range provides the ideal environment by providing multiple firing points for comprehensive results.

HELICOPTER GUNFIRE

Assess your helicopter-mounted weapons on a range designed to collect the data you require.



SHARED FEATURES

- Trials planning and risk assessment assistance
- Bespoke workshops and hangars
- Ground targets (static and moving)
- Passive RF monitoring ensures no mutual interference

SHARED MONITORING EQUIPMENT

- Flight termination system
- Digital beamforming telemetry antenna
- Electro/optical tracker
- High-speed digital video
- Integration of all systems

LAND TESTING

DEEPER UNDERSTANDINGS SET THE STAGE FOR SUCCESSFUL GROUND-FOCUSED MISSIONS

To meet the needs of all types of ground-based platforms and systems, REMAYA X-Range provides a variety of test environments – from tracks, climactic facilities and fixed shooting ranges, to clean areas – across 350km² of land area with navigation points and fixed and moving targets.

VEHICLE PERFORMANCE TESTING

For all types of land vehicles, X-Range has a 350km² danger area, as well as a 30km purpose-built track with NATO-grade obstacles, a 3.8km runway, and multiple testing surfaces.

MONITORING EQUIPMENT

- Platform instrumentation (CAN data)
- Live streaming of platform data
- World-class noise and vibration testing and analysis

DISCRETE ENVIRONMENTS

Vehicle performance testing For all types of land vehicles, X-Range has a 350km² danger area, as well as a 30km purpose-built track with NATO-grade obstacles, a 3.8km runway, and multiple testing surfaces.

SHARED FEATURES

- Trials planning and risk assessment assistance
- Bespoke workshops and Hangars

SPECIALISED MONITORING EQUIPMENT

- Platform instrumentation (CAN data)
- Live streaming of platform data
- World-class noise and vibration testing and analysis



ENVIRONMENTAL TESTING

Forces and equipment operate in some of the most unforgiving environments. By testing here in both our climatic and dynamic facilities, clients can demonstrate the performance characteristics of their systems.

FEATURES

- Dynamic shock and vibration testing of inert and explosive assets
- Sequential environmental testing, including the ability to fire/detonate post environmental testing
- Hot and cold testing
- Salt water testing
- Dust and sand testing
- Drop testing
- Fast and slow cook-off

SPECIALISED MONITORING EQUIPMENT

- High-speed digital photography

SURVIVABILITY

All types of platforms and other assets can be assessed in any of our bespoke testing areas within the 350km² range.

FEATURES

- Arena set up
- Fragment analysis

SPECIALISED MONITORING EQUIPMENT

- Six Phantom cameras in synchronised setup
- Velocity acquisition system
- Platform instrumentation

FIXED AND VEHICLE-MOUNTED FIRING (5.56MM TO 12.7MM)

For weapons from 5.56mm to 12.7mm, we provide both fixed and ground vehicle-mounted testing in diverse firing areas, including those with maximum-range capabilities.

FEATURES

- Trials planning and risk assessment assistance
- Static and moving targets

MONITORING EQUIPMENT

- High-speed digital photography
- Target photography
- Vehicle instrumentation
- Firing stands
- Muzzle velocity

LARGE-CALIBRE GUNFIRE – DIRECT-FIRE MODE

With a testing area of 350km² and airspace clearance up to 10,000 ft, the REMAYA X-Range ensures unfettered direct-fire testing options for large-calibre weapons.

FEATURES

- Targets

SPECIALISED MONITORING EQUIPMENT

- High-speed digital photography
- Gun stands
- Muzzle velocity radar, tracking radar
- Flash X-ray
- Blast and pressure



SHORT-RANGE INDIRECT FIRE MUNITIONS

With a testing area of 350km², the REMAYA X-Range provides flexibility to examine all performance outcomes for short-range indirect-fire munitions such as mortars and grenades.

FEATURES

- Targetry

MONITORING EQUIPMENT

- High-speed digital photography
- Muzzle velocity radar, tracking radar
- Blast and pressure

SHORT-RANGE MISSILES

With ample distance provided by a 350km² testing area, REMAYA X-Range ensures valuable data collection regarding short-range missile performance.

FEATURES

- Targetry
- Controlled RF environment

MONITORING EQUIPMENT

- Video cameras
- Tracking radar
- Surveillance radar
- Electro/optical trackers

NAVIGATION, TARGETING, COMMUNICATION

Evaluate navigation, targeting and communication features and functionality under diverse conditions and situations across 350km² of terrain.

NAVIGATION TESTING

- Navigation points
- Clear landscape
- Vehicle Instrumentation

TARGETING TESTING

- Navigation points
- Static and moving targets
- Video cameras
- Telemetry

COMMUNICATION AND DIRECTED-ENERGY TESTING

- Known RF environment
- 'Clean' area
- Hangars and workshops
- Video cameras
- Platform instrumentation

MARITIME TESTING —

UNDERSTAND PERFORMANCE TO SECURE YOUR GOALS ACROSS THE NAVAL DOMAIN

To enable effective maritime weapons, platforms and systems testing, the offshore testing area features more than 50km² of controlled shallow- and deep-water area. Components include launching and landing points, shoreline support facilities and jetty hangars.

SURFACE PLATFORM PERFORMANCE

A wide range of surface vessels, from high-speed combat vessels to offshore patrol vessels, can be evaluated in this controlled environment.

COMPLEX SITUATIONS, ADVANCED SYSTEMS

The REMAYA X-Range is purpose built to deliver insights regarding the most advanced systems and complex testing scenarios.

- Sub-surface platform performance
- Anti-surface and sub-surface weapons testing
- Navigation and communications testing
- Directed energy weapons testing

SHARED MONITORING EQUIPMENT

- Video cameras
- Tracking radar
- Surveillance radar

RANGING AND MAGNETIC SIGNATURES

The REMAYA X-Range delivers advanced marine solutions to assess the ability of instruments to accurately collect maritime platform signatures and radar cross sections (ranging) and maritime platform magnetic signature measuring.

MONITORING EQUIPMENT

- ☐ Magnetic signature sensors
- ☐ Radar cross-section sensors





ELECTRONIC WARFARE —

TESTING THE FUTURE OF WARFARE TODAY, IN PREPARATION FOR THE CONFLICTS OF TOMORROW

Recognising the emerging role of electronic warfare in strategic battle planning, the REMAYA X-Range has customised capabilities to evaluate weapons in the field of signal jamming and high-powered lasers.

Covering both land and sea, the testing range offers the ideal environment to assess systems either targeting or launching from sea, air or ground platforms.

JAMMING AND SPOOFING

The REMAYA X-Range provides 350km² of land area for diverse testing of ground-based scenarios.

FEATURES

- Known RF environment
- Client support facilities

TRAINING VILLAGE

**WHEN FLAWLESS MISSION
PERFORMANCE IS ESSENTIAL,
DRILLING AND PREPARATION ARE
NON-NEGOTIABLE**

A highly versatile training and practice venue, the Training Village provides your forces with an exceptional urban village engagement venue for close combat training. With ample terrain for air, land and sea insertion and extraction possibilities, all types of scenarios – even complex multi-terrain missions – can be run at our facility.

Defence, special forces, security and intelligence, civil defence, and law enforcement teams can conduct force-on-force, building penetration, hostage rescue, and additional mission contingencies at the Training Village.

FEATURES

- Full-scale close-combat village environment
- Diverse terrain for beach landings, paratrooper drops
- Suitable for complex mission preparation
- Discrete location for operational security

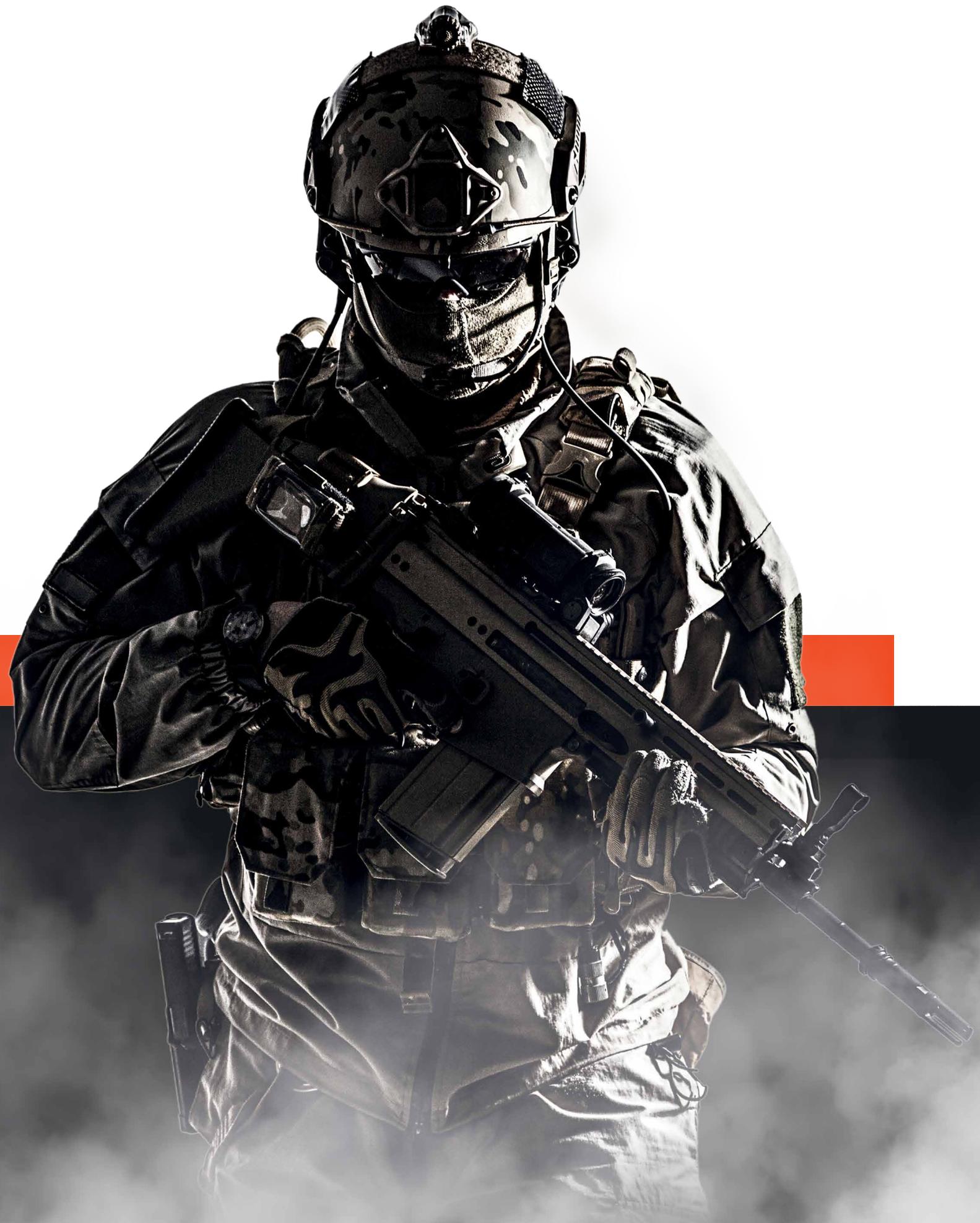


ABOUT REMAYA



In a volatile and unpredictable world where military and security forces need to be flexible and responsive and weapons systems must deliver flawlessly, testing, training and operational excellence are critical to mission success. At REMAYA, we believe that world-class weapons testing and personnel training are the foundation of assured capabilities.

REMACA is part of the Trading & Mission Support Cluster at EDGE, where we leverage the Group's R&D in advanced technologies to be a global leader in ground, air and sea military platforms and weapons systems testing; systems integration and operation and maintenance of testing and training ranges for law enforcement and defence; and consultancy on military testing and training capacity development.



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