

# Small, Medium and Large Calibre Ammunition, Fuses, Primers and Missile Components

Universal Defense and Associate are an enterprise with a long tradition,. As an individual Treasury Company it is involved in the production of goods for defense purposes. Specifically we offer: small caliber ammunition, medium caliber ammunition, artillery ammunition, hunting ammunition, blanks, gases, fuses, primers, tracers, missile sets and elements of rockets.

Universal Defense and Associate are one of the biggest domestic and foreign producers of a wide range of assorted ammunition and anti-aircraft missiles. We have high-class treatment centers able to put on custom elements as well as ready-made metal products and plastics. We also possess production lines for thermal and surface treatments. Our new products, adapted to NATO standards, guarantee that the company will develop, prevail and strengthen its position in the military products market.

Universal Defense and Associate are has domestic and international quality certificates ISO 9001:2001; ISO 14001:2005; AQAP 2110:2003.

## SMALL CALIBER AMMUNITION

Our small caliber ammunition includes NATO and Russian standard rifle, pistol and revolver ammunition.

Rifle ammunition:

- 5.56mm x 45mm - NATO standard FMJ steel core and lead core, T, Armour Piercing (AP) and blanks
- 7.62mm x 51mm - NATO standard Ball, T, AP, API, and blanks
- 7.62mm x 54mm R and 7.62mm x 39mm - Russian standard

Pistol ammunition:

- 9mm - FMJ and blanks
- 9mm parabellum (Luger) - FMJ, SP, LRN, blanks, anti-



[Our small caliber ammunitions include NATO and Russian standard rifle, pistol and revolver ammunition.](#)



[Our medium caliber ammunition includes 12.7mm, 20mm, 23mm, 30mm and 35mm ammunition.](#)



[The 'GROM' anti-aircraft missile set is a 72mm anti-aircraft missile set with a flight speed<http://www.universal->](#)

ricochet, increased piercing force

Revolver ammunition:

- .38 special - with bullet – SP, WC, LRN and plastic (bullet consists of a disk with lead balls and plastic jacket)
- .357 Magnum - with bullet – SP, WC and SWC

## MEDIUM CALIBER AMMUNITION

Our medium caliber ammunition includes 12.7mm, 20mm, 23mm, 30mm and 35mm ammunition.

- 12.7mm – MP, ball and APS, MPT
- 20mm - MP M70 LD and TP-RRR
- 23mm antiaircraft - OFZ-T, BZ-T, APDS-T, FAPDS-T and blank
- 23mm air - OFZ-T, BZA, OZ-T and BZ
- 30mm - MP-T/SD, TP-T, APFSDS-T and FAPDS-T
- 35mm – HEI, TP-T and FAPDS-T

Thanks to the cooperation with Universal Defense and Associate ammunition company UDME started production of modern medium caliber ammunition projectiles, whose lethality effect is a combination of strike, fragmentation and incendiary effects.

The projectile consists of a nose cap and shell body made of very hard steel. In order to obtain the maximum level of penetration an incendiary charge is placed in the front part of the projectile, and a high-explosive charge in the rear.

Universal Defense and Associate are also introducing the production of other products like seven new types of 12.7mm ammunition; 20mm ammunition MP and TP-R3 for F-16 aircraft; 30mm MP, TP-T, APFSDS-T; FAPDDS-T for armored vehicles.

## ANTI-AIRCRAFT MISSILE SET

The anti-aircraft missile set is a 72mm anti-aircraft missile set with a flight speed of 650m/s. The anti-aircraft missile has a targeting range of 400m to 5,500m and aircraft can be engaged at altitudes from 10m to 3,500m. The set weight is only 16.5kg, with a missile weight of 10.5kg.

[defense.com](http://defense.com) of 650m/s.

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[Spike anti-armor guided missile.](#)

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[Universal Defense and Associate owns two lines for ammunition demilitarization, one for 5.56mm to 35mm ammunition, the other for disassembly and demilitarization of 57mm to 152mm ammunition.](#)

Course parameters: Jet aircraft to 2,000m

- Helicopters and piston engine aircraft to 3,000m

## ANTI-ARMOR GUIDED MISSILE

modern medium range missile used as an anti-armor weapon of high lethality, for various terrains and climatic conditions.

The military set gives infantry units the possibility to combat threats from advanced tanks and armored vehicles in different combat situations.

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# Artillery Ammunition, Fire Control Systems and Training and Simulation Systems

Universal Defense and Associate Have been creating new developments for the armed forces. The institute deals with many projects of scientific research, design, development, upgrading or qualification with regard to the following weapons systems:

- Modern ammunition for artillery guns, mortars and small arms
- Small arms
- Training and simulation systems
- Fire control systems
- Armours for vehicle ballistic protection
- Light and personal ballistic screens
- Camouflage coverings and equipment
- Explosive ordnance disposal utilisation and artillery ammunition disassembling systems
- Electronic warfare and surveillance systems
- Jamming devices
- Checking and measurement system for missiles
- Monitoring systems for fielded weapons and explosive ordnance.



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## ARTILLERY AMMUNITION

Purpose Bomblets (DPBs).

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Service and practice ammunition for 125mm PT-91 and 120mm

## **FIRE CONTROL SYSTEM (FCS)**

The FCS for a self-propelled artillery battalion is a computerised fire-control centre for the artillery battalion of 122mm self-propelled howitzers.

The FCS for a mortar battery, meanwhile, is a computerised fire-control centre for the movable mortar battery.

[Technological stand for disarming the artillery ammunition.](#)

## **EXPLOSIVE REACTIVE ARMOURS**

explosive reactive armours are vehicle ballistic protection systems against shaped charge ammunition. ERA protects tanks, and light armoured vehicles.

## **RADAR-ABSORBING CAMOUFLAGE SYSTEMS**

Our radar-absorbing material camouflages naval and ground military equipment, and reduces the possibility of its detection by radar systems.

We also provide an 81mm GM-81 smoke grenade to camouflage tanks by smoke on the wider optical band, including the near and far infrared bands.

## **EXPLOSIVE ORDNANCE DISPOSAL**

The containerised Explosive Ordnance Disposal (EOD) system for safe disassembling and rearming of artillery ammunition provides:

- Safe handling through the remote control of hazardous processes
- Environmental safety through reinforced design
- Process monitoring
- System mobility
- Modular design

## **PORTABLE SURVEILLANCE RADAR DETECTION SYSTEM**

Warning radar is a portable detection system for surveillance of an area. The radar is designated to measure co-ordinates of movable objects and



may be deployed by police, border guard and special services. The detection range is up to 4km, and all settings and regulations can be carried out remotely within 100m.

# Jamming, ECM and Covert Surveillance Systems and Services

Universal Defense and Associates' designs and manufactures innovative solutions for the covert surveillance and jamming of wireless communications. With over 30 years experience, Universal Defense and Associates' expert staff have supplied various governments, law enforcement departments and Olympic events with a variety of hi-tech counter-terrorism systems.

Universal Defense and Associates' can offer a 24 hour response time for both sales, marketing and technical support. As manufacturers and suppliers Universal Defense and Associates' pride themselves in their ability to provide customized solutions to meet end-user requirements.

## High-power convoy jamming system

Our high-power convoy jamming system is characterized by using state-of-art technology based on unique modulation of mixed signals for maximum jamming efficiency and performance. Our system can be customized to cover frequencies including 2GHz, 3GHz, 4GHz, 5GHz and even 6GHz with an output power of up to 5500W.

The system features a user-friendly, display and control which identifies:

- Power supply failure
- Maintenance requirements
- Errors
- Battery status
- Antenna status
- Individual jamming module status

## Wideband portable RF or Bomb Jammer

Our system is a transportable RF or bomb jammer that uses RF jamming signals to defeat remote controlled improvised explosive devices or an RCIED. The system is expandable because it can cover both known threats as well as future threats determined by the user.

## Programmable jamming system

Our system programmable jammer is customized for each specific country and region in order to fully concentrate its specific frequency

[the system intended for radio-monitoring of the preset area and can be used for electronic reconnaissance and control of the data pick-up channels. It covers the frequency band of 9 kHz to 3 GHz.](#)



[It is ideally suited for use during riot control situation at public demonstrations, or crowd control at large sports events. The Jammer is equipped as standard with internal directional antennas.](#)

range to defeat all known and unknown threats. The desired frequencies and power output are programmed via a windows interface, with the operator having access to all parameters such as frequency, power output and status of jamming modules. The system uses a simple and intuitive mouse-driven menu system that is easy to operate.

[installed inside the lid of the case.](#)

## cellular monitoring system

The cellular monitoring system takes and deciphers all GSM encryption A5.0, A5.2, A5.1, A3 mode, A8 mode in real time. The system operates in "REAL NETWORK", and cannot be identified by either a GSM supplier or targeted mobile. the system can be remotely controlled by special access code over the IP network, or through multiple networked units.



[Expand Image](#)

The system intercepts both incoming and outgoing calls and 100% of the target's information such as phone number, IMSI, IMEI, TMSI, Kc, KI and ID info is gathered along with all active mobile phones in the local area where equipment is in operation.

[The GSM Interception system can break the GSM](#)

[A5.0/A5.1/A5.2/A5.3 encryption algorithm used in GSM](#)

[communications during real time operation enabling tracking and monitoring of the activities of suspected terrorists and criminals.](#)

## Jamming and covert surveillance solutions and services

We offer a wide range of jamming and covert surveillance solutions and services, including:

- Prison jamming systems to detect and immobilizing cellular phones
- Electronic counter measure (ECM) equipment for bug detection, wiretap, IR/Laser and hard wired microphones
- Single-sided radar and through-the-wall surveillance systems, for counter-terrorism units, police and SWAT teams, and kidnap recovery situations
- Voice and data encryption systems for mobile, landline, fax and data communications
- Audio and data monitoring systems, transmitters, wiretaps and digital or analogue, remote control, hard wired and laser monitoring systems
- X-ray and parcel scanning units
- Ground-penetrating systems



[Expand Image](#)

### ECM sweeping services

UDME also offer an ECM sweep service worldwide, with a professional team dispatched globally within 24 hours of confirmation of instruction. They are also able to offer training seminars, site surveys and a

[NDR-V6 DDS Programmable Jammer is customized for the](#)



consultancy service to end-users and potential resellers alike.

UDME and its authorized, fully-trained resellers/distributors welcome any enquiries from suitable qualified government agencies clients and VIPs from around the world. They are able to offer full support to approved clients with in country demonstrations, exhibitions and a full in depth quotation service.

[specific country and region to concentrate on its specific frequency range to defeat all known and unknown threats. The desired frequencies and power output are programmed via a windows GUI interface.](#)

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