



D-MINE™

PRACTICE SYSTEM
FOR DEMINING

WWW.D-MINE.COM





D-MINE™

D-Mine™ is a wireless electronic practice system for training demining personnel. The system simulates authentic landmines and alerts the instructor when a mine has been triggered.

When practicing with D-Mine™, the demining personnel become more confident and they feel more secure when they are about to clear their first real mines.

ABOUT D-MINE™

D-Mine™ consists of a control panel and ten practice mines that communicate individually with the control panel through a wireless radio link.

Each triggered mine is indicated by a light-emitting diode on the control panel, telling exactly which mine(s) has been triggered. A sound signal can be used as an additional indication for triggered mines.



The indication for a triggered mine is easy to reset by using a reset-button on the control panel. The practice mines reset themselves automatically and do not need to be uncovered in order to proceed with the exercise.

The practice mines can be placed up to a distance of 30 meters from the control panel, which under the right conditions makes it possible to mine over 2500 square meters.

Every D-mine™ kit contains; the control panel, 10 practice mines, transport case (Peli 1630), charger and cable for cigar lighter plug.

THE CONTROL PANEL

The control panel D-Mine™ BT-R400 has a yellow chassis made in hard plastic shaped as a suitcase with a lid to protect the inside instrument panel and a handle for easy carrying.

The lid has been fitted with a window to make the indications of the instrument panel visible even when the lid is closed. Tripod and PELI 1630 Transport Case is included.

The instrument panel has ten numbered light-emitting diodes for indicating triggered mine with corresponding reset buttons. It also has two turning knobs, one for turning on and off sound indication and one main power switch. The product is powered by a rechargeable battery, recharger and cable for cigar lighter plug is included.

Designation: D-Mine™ BT-R400
Size: 270 x 250 x 130 (mm)
Material: Hard plastic
Weight: 4.0 kg
Power source: Sealed lead acid battery 12v/5,0Ah



THE PRACTICE MINE

The practice mine D-Mine™ BT-R200 is made in durable delrin and green rubber. It has been designed with regard to size, looks as well as functionality in order to appear as an ordinary anti-personnel blast mine which makes it very suitable for, as an example, prodding. The product is run by a single 9-volt battery (PP3) that under normal usage will last up to approximately 2 years.

Designation: D-Mine™ BT-R200
Size: Diameter 115 mm, height 63 mm
Material: Chassis in durable delrin, the top in rubber
Weight: 0.460 kg incl. battery
Power source: 1 PP3 Battery 9.0 volt



TRIPWIRED STAKE MINE

The tripwire stake mine BT-R300 consists of a mine attached to a metal stake that can be fixed in the ground or to a tree etc. After easily connecting the tripwire to the releasing spring, the stake mine is ready to use.

Designation: D-Mine™ BT-R300
Size: Height 495 mm, width 147mm
Material: Chassis in delrin, top in rubber, metal stake
Weight: 1.1kg incl. battery and stake
Power source: 1 PP3 Battery 9.0 volt



ANAMA Azerbaijan National Agency of Mine Action

ANAMA is the national Mine Action Centre, responsible for all integrated mine action in Azerbaijan. ANAMA cooperates with UN agencies, International NGOs and private demining companies as well as with Azeri Ministries and NGOs regarding impact surveys, mines clearance and Mine Risk Education.

ANAMA's present resources include more than 500 staff, three demining and technical survey teams (2 run by NGOs and 1 by ANAMA) with more than 139 deminers, 19-man Emergency Response Team, 78-man UXO Team, 6 mechanical demining machines and 32 mine-detection dogs. With these resources in hand, ANAMA has cleared about 100 km² since 1998.

More about ANAMA Azerbaijan National Agency of Mine Action can be found at: www.anama.gov.az

Gazanfar Ahmadov, Directors Assistent Purchase and Logistic Officer at ANAMA Azerbaijan National Agency of Mine Action

"In order to develop national training and demining capacity by applying new innovative technologies ANAMA has procured a very effective electronic AP blast landmine simulator BT-R100 from Swedish company Arne Nordstroms Mechanical Inc.

This wireless training set consisting of ten practice landmines and one control device will allow instructors of ANAMA TSQA Division to conduct more realistic training and evaluation of existing demining personnel as well."



*Gazanfar Ahmadov
ANAMA Azerbaijan National Agency of Mine Action*

Elnur Gasimov, Division Leader at ANAMA Training, Survey and Quality Control Division Azerbaijan National Agency of Mine Action

"We use our D-MINE™ set to prepare a realistically looking demining work line in a safe area for a deminer who supposed to come and work inside. We usually bury 3 mines 1-3 meter apart of each other in different depths and also put 1 or 2 false signal sources such as nails, metal fragments just to give a deminer an opportunity to investigate and find those items without simulated explosion.

After each alarm we find out the reason of explosion (mine detector drill, prodding, and excavation) and after we provide that person with the needed instructions. By this method of evaluation we do not spent an extra time for re-training a person and doing everything again.



ANAMA uses this equipment not just for training and also for testing of the present field personnel, involving every one beginning from deminer up to the site supervisor. The periodical testing approach using D-MINE™ has already created an atmosphere of competition among demining teams and implementing demining NGOs and transparency as well."

*Elnur Gasimov,
ANAMA Azerbaijan National Agency of Mine Action*

D-MINE demonstration at ANAMA training camp, Baku, Azerbaijan



D-MINE training at DANDEC, Skive, Denmark



UNDP Iraq Mine Action

Salomon Schreuder, Senior Mine Action Consultant to UNDP Iraq Mine Action and previously Senior Mine Action Advisor of UNDP Iraq.

"This is indeed a very interesting concept and offers realistic training of deminers that will provide them with self-confidence when starting to do the real job and without putting life and limb at risk during training. This system will also provide the training institution with a means of evaluating deminers before they start with operations and also on a routine basis to sharpen-up their skills."

This system has not only potential in the humanitarian demining world, but also in the military. I see a lot of potential for the system and the wireless electronics simplifies the use of the system. I will certainly recommend the system to potential users."

Salomon Schreuder

Senior Mine Action Consultant to UNDP Iraq Mine Action

The Professional Ex-Deminer

Stefan Alstermo, has three and a half years as a professional deminer worked in West Sahara, Kosovo and Bosnia.

"D-Mine™ is simply excellent! The instructor can easily detect if the student is cheating or not. It's perfectly safe to use and the practice mines look just like real anti-personnel blasting mines."

This makes it much easier to follow the progress of each student and gives the student a more realistic experience from the exercise despite the lack of risk. Future deminers will certainly feel more secure after having practiced with D-Mine™."

Stefan Alstermo

Ex Deminer Kosovo och Bosnien



WHY CHOOSE D-MINE™?

There are many things to consider when teaching something as vital as demining. Here we have tried to summarize the main reasons for choosing D-Mine™ as your practice system:

SAFE TO USE

With D-Mine™ you can learn from your mistakes, you may fail to clear a mine without risking life or limb.

EASY TO USE

D-Mine™ is very easy to use: rig the control panel, place the mines and you are set for training. Neither the control panel nor the practice mines need to be connected by wire. No complicated configuration of the control panel is necessary in order to get started.

REALISTIC

The training mines are very similar in appearance and functionality to ordinary anti-personnel blast mines or tripwire stake mines. This makes it easier for the trainees to imagine themselves in the situation and gain more from the training. When practicing with D-Mine™, the demining personnel become more self-confident when they clear their first real mines.

SWEDISH ENGINEERING

The original idea for D-Mine™ was conceived by two Swedish inventors and was developed and realized by the Swedish corporation Arne Nordströms Mekaniska AB.

In spite of its seemingly simple construction, D-Mine™ is unique of its kind with its realistic design and usage. The technique has been tested and improved upon for several years in consultation with SWEDEC, the Swedish EOD and Demining Centre, and has been approved as training equipment for educating demining personnel by the Swedish Defence Materiel Administration (FMV).

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