

A-SYSTEMS INCORPORATED™ LANDMINE DESTROYER ASLD™

The A-Systems Landmine Destroyer System (ASLD™) is designed to be used by the Humanitarian Deminer to remove A/P and A/T landmines, UXO and IEDs, in-situ, through low level neutralization by deflagration (burning the explosives). This approach minimizes the danger and possible collateral damage to personnel and infrastructure compared to neutralizing with explosives. In addition, ASLD™ typically leaves metal ordinance cases relatively intact, facilitating the removal of debris. This permits an efficient quality evaluation of the area once the demining has been completed.



The ASLD™ Cartridge differs from many other deflagration systems. It meets the DOT rating of 4.1. Case shipments meet the Small Quantity Exception of 49 CFR 173-4. This provides great flexibility in how and where ASLD™ Cartridges can be shipped.

BACKGROUND

A-Systems, IncorporatedTM was founded in 1975 with the goal of applying advanced electronics technology to our products. Schladitz Technology was founded in 1984 to develop polycrystalline metal fibers. In 2004, we teamed with Dr. Herman Schladitz to develop a device for destroying landmines, UXO and IEDs, utilizing his patented iron whiskers to trigger our proprietary Thermite Cartridge. This Cartridge directs a stream of molten iron, burning through the ordinance case, neutralizing the explosive by deflagration. The iron whiskers provide the high temperature necessary to reliably ignite the Thermite. This patented technology has the advantage over other ignition mechanisms which are more flammable or explosive. The **ASLDTM** Cartridge simplifies shipping, reduces delays and saves transportation costs compared to many other demining systems.

The **ASLDTM** Transmitter and Receiver are small, light weight, rugged units which utilize A-Systems's proprietary LASER signaling technology. This technology has a long history in remote signaling applications.

The **ASLDTM** Cartridges have been field tested against armed A/P and A/T landmines. The current **ASLDTM** Cartridge design is capable of breaching ordinance having a case made of up to 6.3 mm (¼ inch) mild steel. It is also effective against some types of plastic landmines.

ASLDTM SYSTEM SPECIFICATIONS

ASLDTM TRANSMITTER	11 cm x 8 cm x 4 cm (plus scope)	320 grams
ASLDTM RECEIVER	11 cm x 8 cm x 4 cm	300 grams
ASLDTM TYPE 200 CARTRIDGE	23 cm long x 3 cm diameter	400 grams
POWER SUPPLY	9 volt transistor battery for transmitter and receiver	
BATTERY LIFE	1 year (transmitter)	3 months (receiver)
INFRARED RANGE	600 meters (max. between transmitter and receiver)	
WIRE RANGE	300 meters (max. between receiver and cartridge)	
PENETRATION	up to 6 mm in mild steel	

For more information: web www.a-systems.com e-mail sales@a-systems.com phone (434)295-7200



A-Systems IncorporatedTM
2030 Avon Court, Suite 8
Charlottesville, VA 22902