CYBERNET

Deployable Advanced Technology and Systems to Support Military Operations

Ammunition Case Sorting

Cybernet Systems' Spent Brass Sorter (SBS) automatically, safely, and efficiently sorts spent cases from live rounds, to facilitate rapid certification and resale of used ammunition cases:

- Sorts live rounds from spent cases.
- Sorts by both caliber and material type (nickel vs. brass).
- Verifies presence/absence of projectile.
- Verifies condition of the primer (fired / not fired).
- Significantly reduces manpower required to recycle cases.
- Ensures no live rounds are mixed in with spent cases.
- Field proven technology.
- Field transportable.
- Provides faster, more consistent processing.

Our sorting systems automate ammunition recycling tasks

Ammunition Inspection

Cybernet Systems' ATACS and µATACS products provide faster, more consistent ammunition reclamation through automating the inspection and recovery process -- while drastically reducing manual labor costs:

- High volume inspection.
- Very high resolution inspection.
- Mixed-lot ammunition sorting.
- Full optical round chambering testing.
- As-manufactured specification qualification.
- Field-proven and transportable technology.
- Chambering dimension inspection.
- Defect and spent brass detection.
- Non-standard round detection.

Our automation systems sort and inspect turned-in ammunition

Process

Cost Effective Ammo Handling

Lower Material Handling Cost

Long Duration Surveillance

Automation

Automated Material Handling

Cybernet Systems increases mission effectiveness by reducing the cost, time and labor required to support military logistics through autonomous material handling systems:

- Quicker and safer munitions handling.
- Improved storage configurations.
- Reduced labor time, costs, and exposure to hazards.
- Automate difficult, dangerous and/or tedious tasks.
- Free-up soldier labor for other critical tasks.

Our automated equipment reduces the logistical chain

Automated Logistics Support

Cybernet Systems increases field effectiveness by augmenting the Gladiator platform with remote supply line support capabilities:

- Autonomously follows in formation, reducing control effort.
- Autonomous resupply capability, using dynamic paths.
- Auto obstacle avoidance, vehicle following, and other tasks.
- Trailer tow capability, for squad resupply support.
- Power export capability, for Forward Operating Base support.
- Remote control fire capability, for squad combat support.

Our automated technology provides field logistics support

Persistent Visual Surveillance

Cybernet Systems' unstructured body and hand tracking software is used for military and commercial device control, enhanced gesture recognition interfaces, and 24/7 surveillance in unstructured environments:

- Automatic detection, classification, and notification of "suspicious behavior" to help stop malicious activity.
- Uses existing cameras and sensing equipment.
- Alleviate the surveillance operator's "information overload" problem.
- Large scale networked surveillance environment for capturing, storing, and analyzing aggregate sensor data.
- Machine vision, image analysis, and gesture/behavior recognition for determining soft-biometric features for classifying people, objects, and activities.

A single operator can monitor dozens of cameras simultaneously

Animal Census Technology

Cybernet Systems' portable device can actively track and identify animals through the camera's field of view in both day and night operations:

- Military and Natural Resource Management is required, based on the Sikes Act, to maintain the area's natural environment while still meeting military mission objectives and national park needs.
- Data used to protect threatened and endangered species through continuous monitoring.
- System can be deployed in almost any land environment and does not require supervision.
- Operates continually for months through the use of solar panels and battery storage.
- System can be trained to identify additional species as needed.

Low cost solution for continuous land management