



NFESC Technical Bulletin 02/04: Low Cost Vehicle Search Kits Description and Pricing

March 2004

The Naval Facilities Engineering Service Center developed the Low Cost Vehicle Search Kit (LCVSK) for use at controlled vehicle entry points. The LCVSK combines lighting, camera, and optical systems in simple to use configurations. Each package within a kit is stored in weatherproof cases. Field survivable documentation and inventory tags are also provided. There are three levels of LCVSK available. Prices quoted include shipping. Level 2 and Level 3 Kits include on-site CONUS training.

Expeditionary Pack. Cost: \$2,500

This lightweight tool set is intended for field deployment or to complement Level 1, 2, or 3 Kits.

➤ **Exp. Pack**

- SLAM Mirror System with integral fiber optic illumination powered by an Surefire 8NX Flash Light (1ea.)
- IW-1000 inspection Wand System, powered by a SureFire 8NX flashlight to provide a hand-held illumination wand for searching wheel wells, engine compartments, etc. (1ea.)
- Additional 8NX Flash Light (1ea.)
- 8NX Replacement bulb (3 ea.)
- 12 VDC adapter cable. Permits direct connection to a single 12 VDC automotive battery to charge the flashlight batteries in the field. (2ea)
- Vestlyte with tactical light shield and two sets of batteries. Provides a night operations marker for personnel or equipment. (2ea.)
- Field deployable storage case with NFESC Quick Reference Cards hard mounted to the exterior.
- TSWG Vehicle Inspection Check List
- USMC Fleet Marine Force Reference Publication FMFRP 7-37, Vehicle Bomb Search

Level 1- Basic Vehicle Search Kit. Cost: \$24,000

This is a basic level tool set that enables effective vehicle searches, including improved under-vehicle screening. Ideal for permanent deployment at checkpoints or with rapid deployment forces.

➤ **Lighting Pack**

- Flashlight - Sure Fire 8NX (4ea.)
- Spare rechargeable battery (4 ea.)
- Battery charger (4ea.)
- 8NX Replacement bulb (4 ea.)
- Flashlight - Sure Fire G2 (2 ea.)
- G2 Replacement bulb (2 ea.)
- Type 123 Battery (20 ea.)

➤ **Lumenyte® Pack**

- Security Illuminated Mat System (SIMS) for under vehicle lighting.
- IW-1000 Inspection Wand (2 ea.) Attaches to a SureFire 8NX flashlight to provide a hand-held illumination wand for searching wheel wells, engine compartments, etc.
- IW-2000 Inspection Light (1 ea.) High intensity, 2-meter long fuel resistant, fiber optic with SureFire M6 flashlight used for inserting into tanks, etc.

➤ **SnakeEye® Pack**

- Color camera head. Waterproof to 100 feet
- Hand-held monitor
- 4' Video cable
- Finger camera mount
- Battery pack (2 each)
- Extension wand with swivel mount
- 110 VAC battery charger
- 12 VDC power cable
- Video out adapter cable mini plug to RCA

➤ **SnakeEye® Support Pack**

- Extended life battery with fanny pack and belt
- 110 VAC charger
- 30' waterproof video cable, longer lengths available
- 12 VDC adapter cable. Permits direct connection to a single 12 VDC automotive battery.

➤ **Inspection Mirrors**

- 8" Square telescoping mirror with armrest support. (2ea.)
- Mirror with 10' telescoping pole (1ea.)

➤ **Information Pack**

- NFESC Quick Reference Card (QRC) book
- TSWG Vehicle Inspection Check List
- USMC Fleet Marine Force Reference Publication FMFRP 7-37, Vehicle Bomb Search

➤ **Reusable Field Packaging**

- Mil-Spec polyethylene, waterproof shipping and storage container

Level 2 - Infrared Imaging Kit. Cost: \$50,000

This configuration builds on the basic kit and provides Infrared imaging and evidence documentation capability. This level includes quality reusable packaging. This kit covers most vehicle and vessel inspection needs.

Telescoping Infrared Camera Pack

- 15' telescopic pole with infrared camera & cable
- 6.4" LCD monitor
- Spare rechargeable battery
- 110 VAC power supply/charger
- Adapter, BNC to RCA. Allows connection of IR monitor to external devices

Video Camera Pack

- Sony Digital Video Camera. Hand held digital video camera. Capable of being connected to any other electronic component in kit
- Spare rechargeable battery
- Battery charger
- Memory Stick (2 ea.) 32mb memory stick
- I/O cable set

Explosive Trace Detector

- Chemical reagent spray kit. Easy to use, no power method of determining if trace amounts of explosive are present on packages, vehicles, etc.

➤ **Lighting Pack** (see Level 1 kit)

➤ **Lumenyte® Pack** (see Level 1 kit)

➤ **SnakeEye® Pack** (see Level 1 kit)

➤ **SnakeEye® Support Pack** (see Level 1 kit)

- **Inspection Mirrors** (see Level 1 kit)
- **Information Pack** (see Level 1 kit)
- **Reusable Mil-Spec Crates**
- **On-Site Training**
 - 2 day training course. Module 1 detailing the setup, operation, and care of the equipment. Module 2, hands on vehicle search using LCVSK tools.

Level 3- Comprehensive Package. Cost: \$65,000

This is the most comprehensive configuration. This kit includes fiber optic tools that allow in-depth searches of areas with limited access in vehicles and vessels. These fiberscopes are submersible, and fuel-resistant. Ideal for large facilities, or in areas with frequent high threat conditions.

- **8 mm Fiberscope Pack**
 - 8 mm diameter, 2 meter working length, 100° FOV, remote articulated, flexible fiberscope.
 - Eyeshade
 - Power Adapter Cable.
 - Video and Power Cable.
 - AC/DC Light Source.
 - Rechargeable battery
 - 110 VAC Battery Charger
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- **4mm Nonconductive Semiflexible Fiberscope Pack**
 - 4mm diameter, .5 meter working length, nonconductive, semiflexible fiberscope with quick disconnect eyepiece
 - Eyeshade
 - Quick disconnect to C-mount camera adapter
 - 6' Liquid light guide. Can be used with either fiberscope
 - Non-marring Access Wedge. Provides access to door interiors via window seals.
 - Non-marring Access Wedge. Provides access to door interiors via window seals.
- **Handheld Thermal Imaging System**
 - This system can be substituted in lieu of or in addition to the fiber optics. Contact listed POC's for information.
- **Telescoping Infrared Camera Pack** (see Level 2 kit)
- **Video Camera Pack** (see Level 2 kit)
- **Explosive Trace Detector** (see Level 2 kit)
- **Lighting Pack** (see Level 1 kit)
- **Lumenyte® Pack** (see Level 1 kit)
- **SnakeEye® Pack** (see Level 1 kit)
- **SnakeEye® Support Pack** (see Level 1 kit)
- **Inspection Mirrors** (see Level 1 kit)
- **Information Pack** (see Level 1 kit)
- **Reusable Field Packaging**
- **On-Site Training** (see Level 2 kit)

Ordering Information. Navy customers can order any LCVSK configuration using NAVCOMPT Form 2275. Other DOD order using MIPR, DD 448. Specify LCVSK level desired. Mission specific configurations available on request. OCONUS customers call for additional pricing information.

Address:

Naval Facilities Engineering Service Center
1100 23rd Ave
Port Hueneme, CA 93043-4370

Technical POCs:

Explosive Detection Equipment E-mail address: explosivedetection@nfesc.navy.mil

Project Manager, ESC 66. (805) 982-3556, DSN 551-3556,

EDE Specialist, ESC 66. (805) 982-1156, DSN 551-1156

EDE Specialist, ESC 66. (805) 982-1489, DSN 551-1489

Financial POC:

ESC 60. (805) 982-1224, DSN 551-1224,

*Explosive Detection Equipment (EDE)