



THE BUSTER K910B

The Model K910B Contraband Detector can positively detect drugs, explosives, weapons, currency and much more. It's a fast and effective way of detecting contraband in objects such as containers, tires, car doors, fuel tanks and other objects which can contain illegal substances such as vehicles, trucks, boats and airplanes.



BUSTER will positively detect concealed

- DRUGS
- EXPLOSIVES
- WEAPONS
- SECRET COMPARTMENTS
- CURRENCY
- WORKS OF ART
- JEWELRY

In Use with the

- U.S. CUSTOMS SERVICE
- U.S. NATIONAL GUARD
- U.S. COAST GUARD
- DRUG ENFORCEMENT ADMINISTRATION (DEA)
- FEDERAL, STATE AND CITY LAW ENFORCEMENT THROUGHOUT THE U.S.A.
- EXPORTED TO OVER 70 COUNTRIES AROUND THE WORLD



THE BUSTER

PRINCIPLE OF OPERATION

The Model K910B **Contraband Detector** indicates the difference in density between contraband (drugs, explosives, weapons, currency, etc.) and the object in which the contraband is hidden... for example, an "empty" tire filled with air as opposed to an "illegal" tire filled with drugs or an "empty" cross member in a freight container stuffed with contraband.

Buster directs a beam of energy into the object being inspected. A filled space reflects back more energy than an empty space. As Buster is moved across the surface of the object, the measurement is displayed on a digital LCD, and an alarm sounds if the density changes.

EASY TO USE

Using Buster is simple. Hold Buster on the surface of an object that is known to be clean (e.g. on a package that has been physically inspected out of a group of packages). Then squeeze the trigger and turn Buster on. This opens a shutter in the shield to direct a beam of gamma rays through the article being inspected. A two second "normalizing" period begins in which the reflected energy is averaged, digitized, and displayed on the LCD. The normalized reading is set into Buster's memory as the "zero" or baseline reading, against which subsequent densities are compared.

As Buster is swept across the surface of the (suspected) object and a change of density is detected, a "beep" will sound as the density changes. At the same time, the LCD display updates every half second to show higher numbers as the density increases or lower numbers as the density decreases.

Thus, through sight and sound, Buster identifies changes in density. For example, when passed over a wall it will locate the studs, or in like manner, it will discover contraband hidden in bodies of vehicles and in fuselages and wings of aircraft. It will also indicate concealed spaces in objects that are supposed to be solid, thus identifying secret compartments.

LOOKS BENEATH THE SURFACE

Buster's directed beam of gamma rays will penetrate the surface of an object. It can "see" through wood, metal, textiles, plastic, etc. Since every material has a specific density, unexpected changes become obvious. The gamma rays cause no damage to the objects being inspected.

TYPICAL INSPECTION PROCEDURES

Tires. Compare readings on a known "clean" tire to readings on a "suspect" tire. High display values indicate something is in the tire.

Car Doors. Normalize Buster on center of door with window up. Changing display and alarm will locate contraband behind panels.

Fuel Tanks. Normalize Buster on the underside of the tank. Sweep across underside of tank and observe changes in display or alarm. Buster will indicate fuel level on side of tank.

Aircraft. Buster is excellent on aircraft. Use in same manner as on car doors and on walls.

Trucks, Caravans, Buses, Trains, etc. Normalize Buster on objects to be inspected: tires, fuel tanks, water tanks, wall mattresses, compartments, ceilings, etc. Move Buster over the object and investigate unaccountable changes in readings as indicated by the display and the alarm.

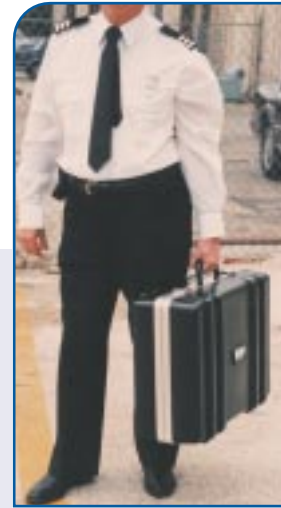
Identical Packages, Flower Shipments, etc. Physically inspect one package, then normalize Buster on this package. Move Buster over remaining packages and investigate unaccountable changes in readings which deviate from the original trial package. This method can be used to check seats on a bus, for example.

Boats and Ships. Test bulkheads, cabin insulation, decks and overheads, fuel tanks and storage areas for false compartments.

Freight Containers. Check walls for hidden panels, examine cross members which may have contraband hidden in them.

Walls and Lined

Containers. Normalize Buster on the wall. Move Buster horizontally over the wall noting changes in display and alarm as structural members are detected. Investigate unaccountable changes from normal structural pattern.



THE BUSTER K910B

The **Buster K910B Contraband Detector** is a one piece assembly requiring only one hand for operation. During routine field use no components or subassemblies require, or permit, removal, other than replacement of the single standard 9V transistor battery, attachment of a separate, audible alarm headset, or the optional remote arm. The unit has a rubber grip pad surface for comfort and an integrally mounted safety wrist strap. The unit has an easily replaceable Velcro anti-scratch pad. A spare Velcro pad and display overlay panel are provided with each Buster.

SPECIFICATIONS

DIMENSIONS

5.5 x 2.5 x 2.5 inches (140 x 64 x 64 mm)

WEIGHT

2.50 lbs. (1.1 Kg.)

DISPLAY

3 1/2 digit LCD with LO BAT and "minus sign" indicators. The display updates every 1/2 second and includes a pushbutton operated electroluminescent back light panel for use of the unit in dark spaces or at night.

DETECTOR

Cesium Iodide scintillation crystal.

SOURCE

Barium 133, not exceeding 10 microcuries (370 Kbcq).

SOURCE SHIELD ASSY

Tungsten Carbon with stainless steel assembly parts. For maximum safety, the shield assembly is spring loaded and automatically retracts the source when the operating trigger is released. A visible RED indicator indicates when the source is in the operating position.

SCAN RATE

0.25 second per reading

ALARM

The unit is provided with an audible alarm driven by the microprocessor in the appropriate operating modes, producing 59db pulsed of 0.50 second duration when actuated. The alarm is not heard externally when the optional headset is plugged into the device.

OPERATION MODES

The unit is provided with a Raw Data Mode with no alarm and current valued display reading; a Data Scan Mode with alarm and current value plus display reading; a Zero Scan Mode with alarm and a zero based display value reading, Calibration Mode, and Self-Diagnosis Mode. A Lock Mode is also provided to temporarily lock the operating display for taking a reading in an inaccessible space.

AUTO ALARM TRIP

The microprocessor automatically adjusts the alarm trip point on an internal standard deviation calculation formula, to assure the most sensitive operation.

DEPTH OF READING

Variable to 6 inches (152 mm).

CALIBRATION

Each unit is provided with a Universal Calibration Standard, permitting all similar model units to be calibrated to a common base. All units read the same, within $\pm 2\%$ of each other, after calibration. The calibration automatically compensates for decay of the source as well as routine internal component aging. This calibration is easily carried out in the field within 30 seconds. The feature makes it possible to exactly compare results on the telephone.

BATTERY

The unit uses only one commonly available 9V alkaline transistor battery, easily replaceable in the field by the user. The unit operates for more than 20 hours continuous "ON" duty on a single alkaline 9V transistor battery, operational life is therefore several months.

CARRYING CASE

The K910B unit is provided with a lockable high impact carrying case with internal foam padding for each component and with a document pocket for the manuals and accessories.



CT-30 KIT

This Contraband Enforcement Team - CT-30 Kit provides a variety of instruments in a reinforced, custom padded compact case, easy to store and transport, always ready to take to a search site. It includes an assortment of tools and instruments for the detection of contraband materials in confined spaces.

CT-30C TRANSPORTATION CASE

Specially lined, rugged heavy duty water resistant case with snap seal locks and security padlock hasp with die cut foam padding containing above instruments. Case size 27 x 19 x 9 inches (68 x 48 x 23 cm). Weight only 30 lbs (13.6 kg) with all instruments. Includes instruction manuals.

CT-30 KIT WITH ACCESSORIES



SPECIFICATIONS

K910B SERIES CONTRABAND DETECTOR

The K910B Buster Contraband Detector "looks beneath the surface" of objects to detect hidden contraband. Handheld, and easy to use, the K910B provides a combination of visual and audible signals to tell the inspector that an object appears "normal" or is suspicious and may require further investigation.

P-41 HEAVY DUTY STEEL INSPECTION PROBE

A 3/8 inch diameter stainless steel probe with pocket in the needle tip to trap contraband, when the probe is inserted into an object and retracted. Suitable for sacks, bales, containers of flowers, or bulk materials. Supplied with four 11 inch (30 cm) extensions to provide an overall length of 4 ft (1.3 m). Includes P40 3/16 x 12 inch (4.76 mm x 30.5 cm) intermediate SS probe.

PN-30 POCKET PENCIL PROBE

Small pocket probe with retractable needle for inspection of suitcases, furniture padding and other small objects. Pocket in needle traps contraband. The 3 inch (7.5 cm) tip retracts into convenient metal body which clips into shirt pocket, and looks like a propelling pencil. Six are provided in the CT-30 Kit.

FO-10 FIBER OPTICS INSPECTION SET

1/4 inch (6 mm) diameter x 80 inch (2 m) fuel proof flexible fiberoptic probe with 2 way articulating tip with integral light source permits detailed examination of small diameter pipes, ports, car doors, fuel tanks, or hidden spaces of all kinds to avoid cutting or dismantling the object for initial internal examination. Other configurations also available. (See Articulating Fiberscopes Catalogue for more information)

LASER MEASURING METER (LRF-1)

Laser distance meter measuring between 1 ft – 300 ft (0.3 m – 100 m) with an accuracy of ± 0.1 inch (± 3 mm). It is used to detect false walls or bulkheads in the interior of freight containers or vehicles where the exterior dimension is known or can be measured.

PM-10 EXTENDING INSPECTION MIRROR WITH FLASHLIGHT

Permits viewing into dark, hard-to-get-at places, around corners, as well as over and under obstacles. 5 x 7 inch (13 x 18 cm) mirror for wide angle viewing, arm extends from 24 – 48 inches (61 x 122 cm).

ALL ACCESSORIES ARE ALSO AVAILABLE SEPARATELY

BUSTER K910B CONTRABAND DETECTOR SPECIFICATIONS

- Dimensions**5.5 x 2.5 x 2.5 inches (140 x 64 x 64 mm)
- Weight**2.5 Pounds (1.1 Kg)
- Display**3 1/2 digit LCD, updates every 1/2 second, LO BATT and Minus sign. The display includes a push button operated electroluminescent back light panel.
- Alarm**50 db pulse, 0.50 second interval.
- Battery**9V Alkaline Disposable. Low Battery warning. (Battery Life several months)
- Scan Rate**0.25 second per reading.
- Auto Alarm**1 Std. Deviation + 1 count. 50 db pulses of 0.50 second deviations.
- Operation Modes**Raw Data, Data Scan (Alarm), Zero Scan (Alarm) Calibration, Self-Diagnosis Modes, plus Lock Mode.
- Depth of Scan**Variable to 6 inches (152 mm).
- Detector**.....Cesium Iodide Scintillation Crystal.
- Source**Barium 133 - Max 10 microcuries / 370 Kbcq.
- Shield**Tungsten Carbide, automatic retraction when not in use with safety indicator.
- Carrying Case**K910B Contraband Detector with remote display, one pocket pencil probe, headset, manuals and consumables.



In full conformity with electrical emissions requirements established by the European Economic Community.



K9-150B EXTENSION POLE

The aluminum **Telescoping Extension Pole** extends out to 16 ft (5 m) including the length of the Clamp Assembly. The Clamp Assembly, mounted to the far end of the Arm, securely holds the Buster, permitting placement against the exterior of high vehicles, ceilings, or other locations more than arms length from the inspector. The results can be read directly from Buster or using the Remote Display.

Lengths available are:

- Standard**5 - 8 ft (1.54 - 2.43 m)
- Long**7 - 12 ft (2.13 - 3.65 m)
- Extra Long**.....9 - 16 ft (2.74 - 4.87 m)
- Custom Made** - as required



REMOTE DISPLAY

The **Remote Display** is connected to the **K910B Buster** by a flexible stretch cable which extends to 4 ft (1.21m) to permit use of the Buster in spaces which are inaccessible for direct viewing.

Examples would be:

- Underneath vehicles
- Exterior walls of high sided vehicles
- On the roofs of vehicles
- Behind the inner walls of tires on cars of trucks
- Inside cabinets or closets in caravans or RV's
- May be used separately as well as with extension pole

The Remote Display can be carried attached to the extension arm or on a belt using its integral pocket clip and it uses the same common 9V battery as is used in the Buster.



LASER MEASURING METER LRF-1

This unit is used to detect false walls or bulkheads in the interior of vehicles when the exterior dimensions are known or can be measured. No need to unload the cargo – as long as the back wall can be seen, the unit will indicate it's distance correct to ±0.2 inches (±3 mm). Measures in inches or metric.



SPECIFICATIONS

- Measuring Range** - 1 ft to +300 ft (0.3 m to +100 m)
- Measuring Accuracy** - 0.1 inch (±3 mm)
- Laser** - Class 2 in accordance with IEC825-1 and EN60825-1
FDA 21 CFR CH.IS1040
- Diameter of Laser Spot** - 6 mm @ 10 m / 30 mm @ 50 m /
60 mm @ 100 m
- Beam Divergence** - 0.16 x 0.6 m rad
- Impulse Duration** - 1 x 10-9S
- Max Emittted Power** - 0.95 MW
- Battery** - 4 x AA 1.5V
- Dimensions** - 5.9 x 2.75 x 1.9 inches (150 x 70 x 50 mm)
- Weight** - 17.6 ounces (500 grams)
- Operating Temperature** - 32 - 122° F (0 - 50° C)
Splash proof and dust proof

HI-LIGHT HANDLE UPGRADE KIT

FOR FIBER OPTICS INSPECTION DEVICES SUPPLIED PRIOR TO JANUARY 2000

This kit includes the Hi-Light Handle which is a 24W Xenon Super Bright White Lamp, with up to 1,000 hours of life and at least three times brighter than previous light handles. It provides a full spectrum color band for improved discrimination of objects. Also included is an adapter for the bayonet connector scopes, 3 ft (1 m) coiled power cord with connector for NICAD battery furnished with original scopes, 25 ft (8 m) coiled 12VDC vehicle cable, auto switching 90 – 240VAC AC/DC Converter. Brings previous devices up to date.

SPECIFICATIONS

HI-LIGHT HANDLE

Does not require Light Guides or Remote Light Source ON/OFF Switch, integral cooling fan

Kit includes spare Xenon bulb

Size overall - 8.0L x 2.75W inches (203 x 70 mm)

Weight - 0.8 lbs (0.35 kg)

Power Requirements - 12VDC, 25W max.

Lamp, 12V Xenon, 5500 K - C 24W 1000 Hours

Connector, Electrical - 3 pin, Locking

Connector, Light - Bayonet Adapter

BATTERY POWER CORD

3 ft (1.0 m) with 3-Pin locking socket and 3-pin connector for NICAD battery

VEHICLE POWER CORD

25 ft (8 m) coiled with fused cigarette light plug and 3-Pin locking socket

AC POWER SUPPLY

AC/DC converter

Power Input - 90 – 240VAC, Autoswitching, 50 – 60 Htz

Power Output - 12VDC 50W

Connector to Hi-Light Handle - 3-Pin locking socket

LIGHT SPECIFICATIONS

Net lumens @ 1 meter - 10 (Previously 3)

Color of light - White (w/ blue spectrum) (Previously Yellow)

Degrees Kelvin - 5500K (Previously 3300K)

Lamp - Xenon (Halide Arc) (Previously Halogen)

BATTERY (Not required if original battery is working)

Optional at additional cost. Includes shoulder strap.

Size - 6.5L x 4.5W x 3.0D inches (165 x 114 x 76 mm)

Weight - 4.5 lbs (2.0 kg)

Power Output - 12VDC 4.5 AH, two hours per charge

Charger - 12VDC 500 milliamp Cycling Duty

HI-LIGHT HANDLE can be used with most other fibre optics inspection devices. We need to know the manufacturer, model number and year of purchase. Bring new life to your inspection capabilities – see what you have been missing.



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