



ARTICULATING FIBERSCOPES FOR CONTRABAND DETECTION

Our high-performance fiberscopes provide clear, sharp images of inaccessible areas, making remote inspection, evaluation and imaging possible in almost any situation.

They offer durable construction and exceptional value in a range of diameters and lengths. A simple knob controls the articulation while a focusing eyepiece enhances high-resolution imaging and accommodates 35mm and video cameras. The Flexible shaft resists water, gasoline or diesel and jet fuels, simplifying inspection of liquid-filled vessels.



APPLICATIONS

- CUSTOMS INSPECTIONS
- BOMB SQUAD / SWAT
- POLICE INVESTIGATIONS
- SURVEILLANCE

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
- OLYMPIC GAMES



ARTICULATING FIBERSCOPES

OPTICAL INSPECTION DEVICE

The **6mm two-way articulation** and the **8mm four-way articulation** help quickly locate contraband in hard-to-reach areas. These systems are used daily by national, international, and government law enforcement agencies to successfully detect concealed materials. Both the 6mm and 8mm compact systems include a fuel proof fiberscope, portable illuminator and all the accessories needed for on-site inspection.

In response to requests from police departments and U.S. Customs, these systems have been totally redesigned to improve articulation, image and brightness. The Sas Fiberoptics Inspection System is a critical equipment addition for customs, police departments, and countless others who need extended visibility in otherwise inaccessible areas.

ADVANTAGES

- Lower cost of acquisition
- Access hard to get areas with less wear on scope
- One scope for all applications
- More efficient Light Transfer

FEATURES

- Durable construction tungsten braid
- Portable rechargeable battery pack
- Light source in handle
- Fuel proof shaft

HIGH LIGHT HANDLE

A portable illuminator standard in the Inspection Kit. DC powered, rechargeable 24 watt halogen light source designed for use under any condition where AC outlets are not readily available. The light source offers a high light output for photographic applications with instruments up to 60 inches. Can operate from battery, car cigarette lighter or wall outlet.

OPTIONAL EQUIPMENT FOR FIBEROPTICS INSPECTION SYSTEMS

- 90 degree right angle adapter
- 35mm camera adapter
- Video adapter
- AC powered illuminators

SPECIFICATIONS

FIBERSCOPE VIEWING ELEMENT

2 Way Articulation (6 mm Diameter)

4 Way Articulation (8 mm Diameter)

Tungsten Outer braid

Fuel proof inner sheath

Fibers in Image Bundle, 18,000 minimum

Focus, Objective Lens, 20 mm to Infinity

Field of View, Standard 70 degrees

Protective Cap, on lens

90 Degree Right Angle Adapter (Available Option)

Minimum Bend Radius

2 Way Articulation: 35 mm

4 Way Articulation: 45 mm

Articulation, in degrees

2 Way Articulation: Up/Down 120°

4 Way Articulation: Up/Down 130° - Right/Left 100°

Ratchet Brake on Controls

Image Bundle Length

FO-xx(-)-1.5 = 60 inches (1.5 m)

FO-xx(-)-2.0 = 80 inches (2.0 m)

FO-xx(-)-xx = Special Length

Light Guide Connections

FO-xx(R) = Removable, Twist Lock Connection

FO-xx(F) = Fixed

FO-xx(B) = Bayonet (Retrofit for fiberscopes purchased from us previously)

Rubber Eyepiece



**2 WAY ARTICULATION
6 MM**

- 6mm fuel tight flexible Fiberoptics Inspection System
- Shoulder strap
- Replacement bulb
- Rubber eyecap
- Lens cleaner
- Carrying case

**4 WAY ARTICULATION
8 MM**

- 8mm fuel tight flexible Fiberoptics Inspection System
- Shoulder strap
- Replacement bulb
- Rubber eyecap
- Lens cleaner
- Carrying case

HI-LIGHT HANDLE

Connects directly to the Fiberscope, Lights Guides are eliminated

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

Weight - 14 oz (0.4 kg)

Power Requirements - 12VDC, 25 W max.

Lamp, 12V Halide Arc, 5500 Kelvin

Model FO-1100L-C 24 W 1,000 hours

Connector - 3 pin, Locking

On/Off Switch, Integral Cooling Fan

LIGHT SOURCE, REMOTE (OPTIONAL-SPECIAL ORDER ONLY)

Requires Light Guide to transmit light to scope

Size overall - 5.0L x 3.5W x 2.5D inches (127 x 90 x 64 mm)

Weight - 1.75 lbs (0.8 kg)

Power Requirements - 12VDC, 25 W max.

Lamp, 12V Halide Arc, 5500 Kelvin

Model FO-1100L-C 24 W 1,000 hours

Connector - 3 pin, Locking

On/Off Switch, Integral Cooling Fan, Manual Brightness Control, Rubber Bumpers, Carrying Strap Ears.

LIGHT GUIDES (OPTIONAL-SPECIAL ORDER ONLY)

Used with Remote Light Sources

Universal, all light guides, (R) and (F)

Flexible corrosion resistant armor

Standard Length - 2.0 m (Optional lengths available)

Plug, Std. - Match ACMI Standard Light Source

Plug, Adapters (Optional) - Match other light sources, must specify

Minimum Bend Radius - 35 mm

Removable only (R)

Connector to fiberscope viewing element - Universal, Twist Lock connection

12 VDC VEHICLE CABLE

25 ft (8 m), spring coiled, weatherproof, Cigarette Plug one end, Light Source or Hi-Light Handle connector at the other end.

AC/DC CONVERTER POWER SUPPLY

AC/DC Converter - GlobTek Model or equivalent

Power Input - 90 - 240VAC, 50 - 60Hz

Power Output - 12VDC, 4200 MA

AC Power Cord - 5.5 ft (1.4 m), IEC 2-Pin connector to Converter Connector to Light Source

BATTERY

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

Weight - 4.5 lbs (2.0 kg)

Power output - 12VDC 4.5 AH

Connector - BEAU P-3302 Panel Mt. Plug, or equal

Mount - Carrying Strap Ears

Operating time per charge - 2 hours continuous with 24W lamp

CHARGER, AC POWER

Power-Sonic - 12VDC 500 milliamp Cycling Duty

Plug - US Standard 2-Prong

Cable/Connector - 6 ft (1.5 m) w/CINCH S-302-CCT or Beau S-3302 Socket

CHARGER CABLE, 12VDC POWER (VEHICLE)

8 ft (2.4 m), integral current limiting resistor, anti-reverse charge diode, cigarette lighter connector at one end, battery connector other end.

TRANSPORTATION CASE

Size overall - 23.0L x 18.0W x 8.0D inches (585 x 460 x 200 mm)

Hi-impact, hi-density polyethylene, minimum 0.10 to 0.15 inches (2.5 to 3.8 mm) thickness with 1/4 inch (6.4 mm) molded ribbing for rigidity. Full length aluminum continuous piano hinge. Mating edges are a 1.84 inches (47 mm) #6063 T2 aluminum valance moisture proof seal with padlock fittings. The interior is high density polyethylene die cut foam containing all fiberscope system components. The interior includes an additional 5 x 9 inches (127 x 230 mm) closed storage/convenience box for spare parts and accessory items.

The transportation case cover includes a 9 x 19 inches (230 x 480 mm) document pocket behind the cover's foam padding.



LIGHTING BRIGHTNESS

External to the articulating Distal Tip, expressed in Lux.

Measured with a 2 inch diameter Lux meter in a dark room, 21 W lamp

	2 inches (51 mm)	36 inches (915 mm)
BEFORE: FO-20(R)-2.0 with Remote Light Source and 2 Meter Light Guide	5,000	25
NOW: FO-20(R)-2.0 with Hi-Light Handle	9,000	45
BEFORE: FO-10(R)-2.0 with Remote Light Source and 2 Meter Light Guide	3,000	15
NOW: FO-10(R)-2.0 with Hi-Light Handle	5,500	27

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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