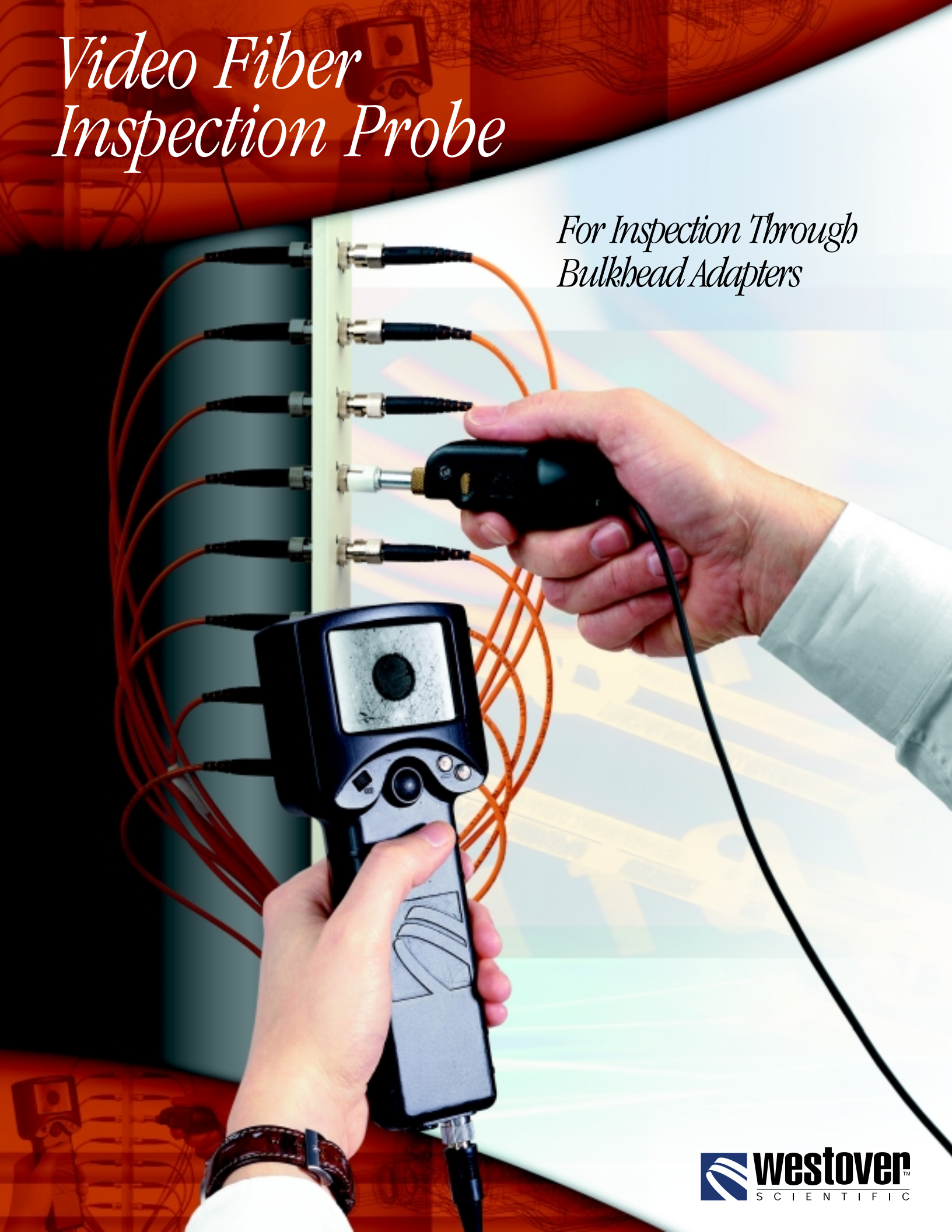
Video Fiber Inspection Probe

For Inspection Through Bulkhead Adapters



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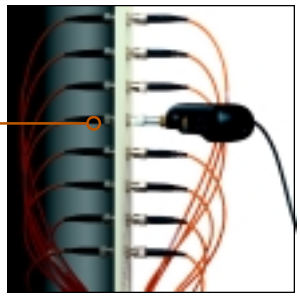
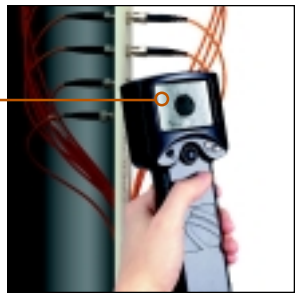
Saves valuable time when installing or troubleshooting patch panels

The Westover Scientific Video Fiber Inspection Probe is a portable, video microscope used to inspect fiber optic terminations. More specifically, the FBP is used to inspect installed connectors that are located inside hardware devices or on the "backside" of patch panels. It eliminates the need to access the backside of patch panels or disassemble hardware devices prior to inspection.

1. *The probe tip mates with the female bulkhead adapter or mating adapter. A variety of dedicated adapters are available which allow you to inspect several types of connectors.*



2. *The tiny, lightweight probe holds itself in place for hands free operation.*



3. *The image of the fiber will appear centered and in sharp detail on the hand held display.*

   The focusing mechanism on the probe allows you to set the initial focus position with a minimum of re-focusing when the probe is moved to another connector position.

Patch Panels

Many patch panels feature a design wherein one connector is easily inspected (front), but the other is difficult to access (back). Inspecting the connector on the front side of the panel is commonly performed using a simple fiber inspection microscope. However, the backside connectors are not as easily inspected with traditional microscopes, thus requiring time consuming troubleshooting or neglect. The FBP system combined with Westover's line of "Cleaning Sticks" produce a fast and effective means for installing, troubleshooting, or maintaining fiber optic patch panels.

Hardware Devices and Test Equipment

Most hardware devices feature connectors, at the faceplate of a "box", that lead to back-plane circuitry. These connectors are very difficult to access since they are built inside the device's enclosure. If a contaminated jumper is inserted, the termination inside the device is now contaminated and contributes to signal loss. Many test equipment designs feature the same type of "back plane" fiber wherein a critical fiber termination lies just inside a piece of hardware. The FBP system used in conjunction with Westover's line of "Cleaning Sticks" can be used to ensure that the termination inside is clean and in good condition.

Mil/Aero Connectors

Most Mil/Aero connectors are based on multiple fiber plugs that embody "Termini" ferrules. Typically, one end of the connector contains multiple "pins" and the other contains multiple "sockets". In either case, you cannot inspect the terminations with a traditional microscope because you're not able to "look" down into the holes. Therefore, manufacturers and users waste hours disassembling the connector to see if the terminations are clean. The FBP system is ideally suited for inspecting these connectors while fully assembled.

Cable Assemblies

In addition to inspecting backside connectors through bulkhead adapters, the FBP is available with an adapter tip for inspecting patch cables and cable assemblies.

Inspecting every termination in today's high bandwidth systems is a must. Carrying this one tool will handle all of your fiber inspection needs. Westover Scientific's Video Fiber Inspection Probe was designed to quickly and effectively inspect all terminations for positive determination of cleanliness and condition.

Video Fiber Inspection Probe

Features & Benefits

Hand-Held Video Module

Ergonomic Hand-held Display presents instant, sharp images with the 2.5" TFT Active Matrix LCD. Crisp, clear images of microscopic debris and/or ferrule damage are projected to the LCD display with a 530-micron field of view.

The display features a built-in NiMH rechargeable battery with an automatic shutoff function to preserve battery life. This selectable, shutoff interval can be set by the user.

Optional accessories are available that allow you to attach or mount the hand held display to surfaces for complete hands-free operation.

Probe

This small, lightweight probe measures 4.5" long. It contains a long-life coaxial LED light source, and 1/3" CCD video camera. A small focusing mechanism is conveniently positioned in the probe handle. The probe accepts several connector specific tips.

The Probe tip mates with the female bulkhead or mating connector and pre-centers the image in the Display, thus eliminating the need to "find" the image by moving the probe around the connector. The 1.6 oz. probe holds itself in place for hands free operation.

In addition to being compatable with standard connectors (i.e. ST, SC, and FC), our design includes precision optics and lighting which have been optimized for inspecting small form-factor connectors - including 1.25mm (**LC**) connectors.

System Specifications

Video Inspection Probe

Weight: 1.6oz

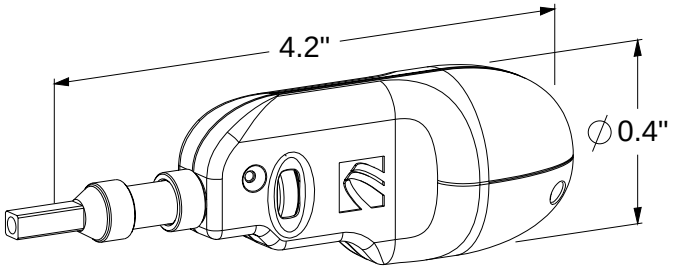
Optical Magnification: 250x using the 2.5" LCD display

Camera Type: 1/3" CCD

Light Source: Red LED, internal to probe

Lighting Technique: Coaxial

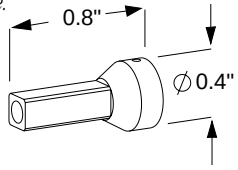
Focus Control: Adjustable, in-probe



Adapter tips available

Several connector-specific adapter tips are available now (ST, SC, LC, FC and Patch Cord), while others are in development (i.e. MTRJ, MT, OptJack, Mil/Aero, etc.). Call for most recent information.

** Length and shape of tip varies with connector type.*



The system is sold in several configurations or as modular components. Our deluxe system includes the Video Inspection Probe, Hand Held Video Display, 5 adapter tips (SC, ST, FC, LC, and Patch Cord), NiMH rechargeable battery, AC adapter and battery charger, hard-sided carrying case, and a Display Module Accessory pack for hands-free operation.

Hand-held Display

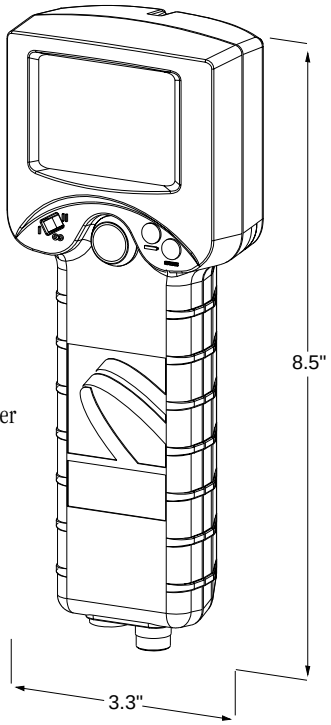
Weight: 16.4oz

Display: 2.5" (6.35cm) TFT, Active Matrix (480 x234 pixels)

Video Out: NTSC, w/dedicated connector for probe

Power: Rechargeable, NiMH battery or AC power adapter (110 and 220 VAC)

Battery life: 3 hours continuous use

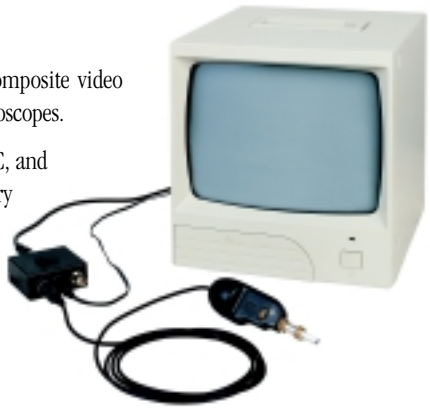


Other Configurations

Video Output Module

Accepts video input from the probe and another composite video source, i.e. Westover bench-top video inspection microscopes.

Other packages includes: Inspection probe with ST, SC, and LC tip, video output module, AC adapter for battery recharging and/or AC power use, and hard sided case.



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