

## High-Performance Optical Video Inspection Probe

### For verification of connector quality



#### Key Features

- Back panel or patchcord connector inspection
- High-resolution image for detailed damage investigation
- Convenient handling for field use
- Rechargeable handheld display capability
- Optional USB connection for use in combination with JDSU's optical test platforms or directly with a PC



#### Connector quality verification

Serving as a complementary tool during installation and maintenance, the High-Performance Optical Video Inspection Probe allows for quality verification of the front connector. The use of the video inspection probe allows for visualization of the connector in a safe environment, even when the fiber is active.

#### Connect and view

The High-Performance Optical Video Inspection Probe is a portable microscope that is used to inspect fiber optic connectors. Whether the connector is front side or installed or located inside the hardware device or on the backside of a patch panel, the video inspection probe eliminates the need to access the backside of the patch panel or to disassemble the hardware device prior to inspection. Connected to the handheld video display or a JDSU optical test platform, a clear and high-resolution image is displayed for connector qualification.



High-performance video display



High-performance video inspection probe

### Field-dedicated handheld video display

The ergonomic handheld video display generates instant, sharp images using a 3.5" TFT active matrix LCD display. Crisp, clear images of microscopic debris and ferrule damage are projected to the LCD display with a 530- $\mu$ m field of view.

The handheld video display features a built-in Lithium ion rechargeable battery with a user-defined automatic shut-off function to preserve battery life.

### A high-performance video inspection probe

The small and lightweight video inspection probe contains a long-life coaxial LED light source and a 1/3" CCD video camera. A small focusing mechanism is conveniently positioned in the probe handle. Its multipurpose capability makes it suitable for field testing as well as manufacturing and lab environments.

#### Features:

- Convenient handling
- Easy hands-free operation for even the smallest connectors
- Accepts several types of connector-specific tips

### Supports a large variety of tips for bulkhead adapters and patchcord connectors

The video inspection probe tip mates with the bulkhead or mating connector and pre-centers the image on the display, eliminating the need to "find" the image by moving the probe around the connector.

In addition to being compatible with standard connectors, such as ST, SC, and FC, the video inspection probe's design includes precision optics and lighting, which have been optimized for inspecting small form factor connectors including 1.25-mm LC connectors.

## High-Performance Optical Video Inspection Probe

### General technical specifications (typical at 25°C)

#### High-Performance Optical Video Inspection Probe

Weight	4.08 oz (115.6 g)
Dimensions (W x H x L)	1.8 x 1.7 x 5.5 in (45.7 x 43.2 x 140 mm)
Optical magnification	200X or 400X using the 2.5" LCD
Camera type	1/3" CCD
Light source	Blue LED, internal to probe, 100,000+ hours
Lighting technique	Coaxial
Focus control	Adjustable, in-probe
Video output	NTSC or PAL
Power source	From HD1a or USB port of a PC
Attenuation filter	2-mm thick Schott KG1

#### Handheld Video Display with Rechargeable Battery

Weight	16.4 oz (465 g)
Dimensions (W X H)	3.3 x 8.5 in (84 x 216 mm)
Display size	3.5" TFT active matrix LCD (480 x 234 pixels)
Video out	NTSC, with dedicated connector for probe
Power	Rechargeable, NiMH battery, or AC power adapter (110/220 VAC)
Battery life	3 hours of continuous use

#### Adapter tips

Connector-specific probe tips (ST, SC, FC, and universal patchcord tips) included.  
For additional probe tips, see ordering information.

### Ordering information

#### Optical Video Inspection Probes

EOVIKit1	High-Performance Optical Video Inspection Kit 200X/400X
EOVIKit2	High-Performance Optical Video Inspection Kit 200X

#### Connectors and Adaptors

ETIPSCAPC	Optical inspection SC/APC tip, bulkhead adapter
ETIPE2000	Optical inspection E2000 tip, bulkhead adapter
ETIPSCPC	Optical inspection SC/PC tip, bulkhead adapter
ETIPU125MM	Optical inspection patchcord tip for 1.25-mm ferrule
ETIPU25MM	Optical inspection patchcord tip for 2.5-mm ferrule
ETIPFCAPC	Optical inspection FC/APC tip, bulkhead adapter
ETIPSTPC	Optical inspection ST/PC tip, bulkhead adapter
ETIPLC	Optical inspection LC tip for bulkhead adapter
ETIPFCPC	Optical inspection FC/PC tip, bulkhead adapter
ETIPMPOAPC	Optical inspection MPO/APC tip, bulkhead adapter
ETIPMPO	Optical inspection MPO tip, bulkhead adapter

#### Accessories

EOCIS-SC1	Carrying case for the probe and accessories
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Additional probe tips are available upon request. Please contact your local JDSU account representative for more information.