**Manufacturer:**
Viavi

**Product Name:**
Viavi INX 760 Probe Scope Kit with MPO Tips - (Kit 1)

**Manufacturer Part Number:**
INX-760-KIT1

▶ Click here for more details on the Viavi INX 760 Probe Scope Kit with MPO Tips - (Kit 1)

VIAVI
VIAVI Solutions

Data Sheet

# VIAVI
## INX 760 Probe Microscope
Automated single and multifiber connector inspection and analysis

Elevating Fiber Inspection: Faster, Simpler, Stronger, Smarter

The INX™ 760 is the ultimate tool for field technicians, offering unparalleled efficiency in ensuring pristine fiber connections. As the culmination of over 25 years of pioneering innovation and expertise, it stands as the apex of next-generation fiber end face inspection and analysis.

While fiber inspection has become a standard practice for many field technicians, contamination still continues to be the #1 cause of optical network problems. With new connector types emerging, greater connector volumes used in the field, and an increase in new fiber technicians, the industry has reached an inflection point, causing the need for a new inspection solution – the INX 760.

INX 760 Probe Microscope

### Benefits
- Faster – Get results faster with true automated operation in seconds
- Simpler – Simplify fiber inspection with easy automated inspection of multi-fiber, single-fiber, and duplex connectors
- Stronger – Ensure performance you can depend on with a strong and durable microscope that delivers excellence in the field
- Smarter – Achieve inspection excellence with trusted results

### Features
- True Automated Inspection delivers the industry's fastest workflow for user applications that automates every step of the inspection process.
- AutoID Inspection Tips eliminate mistakes of error-prone manual or RFID configuration when changing tips.
- PanOptic Imaging Engine ensures edge-to-edge field-of-view without compromising magnification and resolution quality.
- VIAVI TPA Enabled, ensuring alignment, efficiency, and accuracy at every stage of a job with Test Process Automation.

### Applications
- Datacenters
- Central offices
- Head ends
- Enterprises
- Aerospace

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## Elevating Fiber Inspection

With remarkable speed, simplicity, and precision, the INX 760 effortlessly addresses the diverse connector types and applications prevalent in today's evolving fiber optic networks to Inspect Before You Connect and ensure fiber network excellence with unmatched ease for any connector, in any environment, every time.

### FASTER

Get results faster with true automated operation in seconds

With a complete process taking under 10 seconds for a 12x1 multifiber connector, 6 seconds for duplex connectors, and 5 seconds for simplex connector, the INX 760 equips field technicians to ensure clean fiber connectors in record time, every time.

**Flawless Fiber Connections...Fast**

### SIMPLER

Simplify fiber inspection with automated configuration, operation and job management.

As multifiber connector adoption grows, technician workflows increasingly require inspecting a mix of multifiber, VSFF duplex, and simplex connectors. The INX 760 microscope is the all-in-one microscope for all connector categories. Inspecting a multifiber or duplex connector is as easy as inspecting a simplex connector.

**Effortless Inspection...Any connector**

### STRONGER

Ensure performance in any environment with a microscope that delivers excellence in the field.

The INX 760 microscope is a field tool. The rugged stainless-steel tips thread securely onto a steel chassis that protects the optical system during field use. A textured, ergonomically shaped handle provides a secure grip, with and without gloves. An energy absorbing overmold protects the microscope from damage due to handling in harsh field conditions.

**Performance You Can Depend On...Everywhere**

### SMARTER

Achieve inspection excellence with trusted results for any connector.

The INX 760 microscope produces automated analysis results that are accurate and repeatable. Accuracy ensures that even the smallest defects are detected and used to assess the condition of the connector end face, minimizing the occurrence of false passes and dirty fibers being placed into service. Repeatability, obtaining the same result test after test, provides confidence in the inspection test results.

**Results You Can Trust...Always**

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### Achieve Faster Workflow with True Automated Operation

The INX 760 automates every step of the inspection process to deliver fast, reliable, and repeatable results without any hassles. With the ability to support simplex, duplex, and multi-fiber connector types, users simply attach the appropriate tip and inspect. The INX 760 microscope automates setup, image focus, camera panning, image analysis, and results storage; which can occur both on the device or to the VIAVI TPA ecosystem.

**Fully Automated with INX 760**

SETUP → IMAGE FOCUS → IMAGE PANNING → ANALYSIS → RESULTS STORAGE

With complete cycle times under 5 seconds for simplex and 10 seconds for MPO 12x1 multi-fiber connectors combined with the industry's fastest tip changing process, the fully automated capability of the INX 760 equips technicians with the industry's fastest workflow in fiber connector inspection.

### AutoID Inspection Tips Ensure Hassle-Free Simplicity

INX 760 utilizes the new FPT series of inspection tips. Designed for use in any field environment, each rugged stainless-steel tip is equipped with AutoID technology that auto-configures the INX 760 for the type of connector under test without any additional steps or mistakes that occur with manual or RFID configuration methods.

- Easily switch between any connector type
- Automatically configures the optical setting parameters
- Automatically recalls the last Analysis Profile for the attached tip
- No additional optical attachments required
- Rugged stainless steel design
- Fast-threading coupling collar
- Visual feedback upon connection

Easy attachment to the INX 760

Each tip equipped with AutoID technology

Tips for simplex, duplex, and multi-fiber connectors

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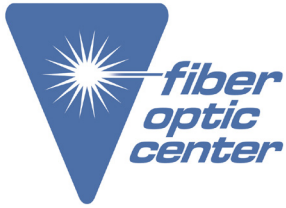
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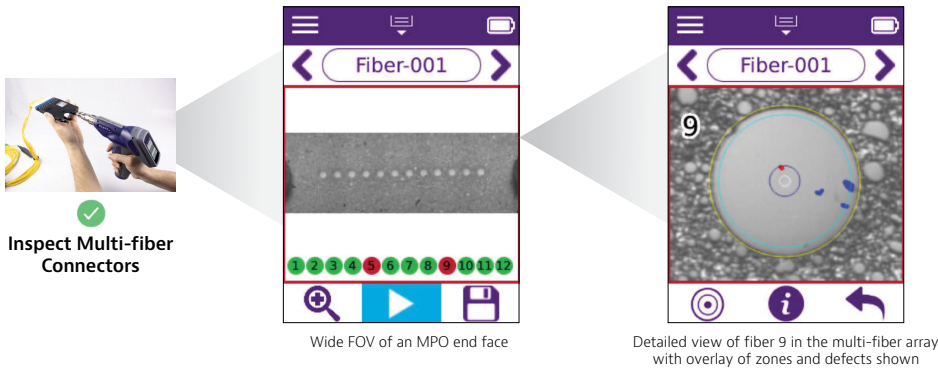Viavi INX 760 Probe Scope Kit with MPO Tips - (Kit 1)

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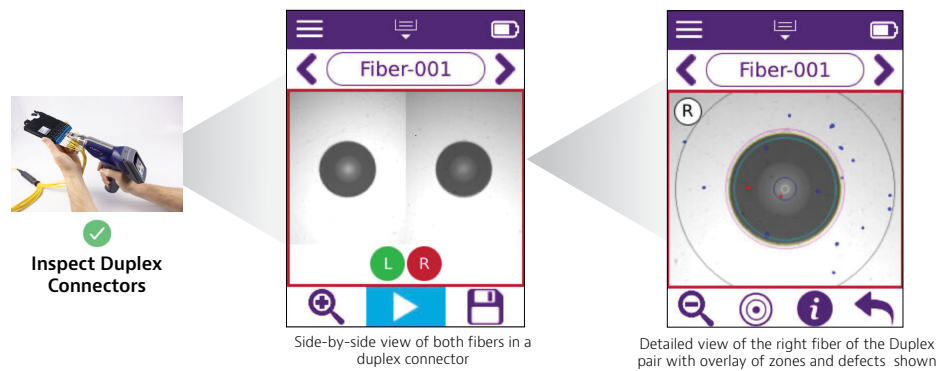
## See What Other Microscopes Can't

The INX 760 features our revolutionary PanOptic Imaging Engine, which ensures an edge-to-edge field-of-view without compromising magnification and resolution quality. By using the same optical chain throughout the entire process, the INX 760 delivers optimized performance across the board in image quality, analysis reliability, and overall speed.

The PanOptic Imaging Engine revolutionizes multi-fiber connector inspection by providing both wide Field-of-View images with full visibility of the alignment pins and guide holes at the edge and thorough details of each individual fiber in the array; all in under 8 seconds.

**Inspect Multi-fiber Connectors**

Wide FOV of an MPO end face

Detailed view of fiber 9 in the multi-fiber array with overlay of zones and defects shown

Duplex fiber connectors can be inspected in a single test, delivering a side-by-side view and analysis of both connectors in under 5 seconds.

**Inspect Duplex Connectors**

Side-by-side view of both fibers in a duplex connector

Detailed view of the right fiber of the Duplex pair with overlay of zones and defects shown

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### Key Features



WiFi and Bluetooth enabled

1-piece threaded collar

High-visibility status LED band

AutoID Tips

Bright 2.4" glove-compatible touch display with intuitive controls and suitable for viewing both indoors and outdoors.

Slim front end

1/4-20 mounting point

Action wheel

Trigger

USB-C port

- 1-handed operation
- Field-hardened ergonomic design with protective over-mold grip

Speaker

Field serviceable battery

### Stay Connected with VIAVI TPA

INX 760 connects with the VIAVI TPA ecosystem to streamline field workflows, boost productivity, and increase visibility. This systematic, closed-loop workflow solution connects teams with their VIAVI test instruments to ensure repeatability, efficiency, and accuracy at every stage of a job.

**VIAVI TPA™ Ecosystem Overview**



**StrataSync Suite**

Corporate Network

Workflow API*
Test Data API*

VIAVI StrataSync™

- Job Template Manager
- Job Manager Dashboard
- Analytics
- Asset Tracking
- Configuration Mgmt
- Instrument Assignment

**VIAVI Mobile Tech***

- Instrument Sync
- Geo Location
- Photos
- Signatures

**Field Test Instruments**

VIAVI TPA ENABLED

Project Leads (managers, designers, engineers, etc.)

*Not required for all use cases, but is helpful in streamlining workforce efficiency

Workforce (direct or contract)

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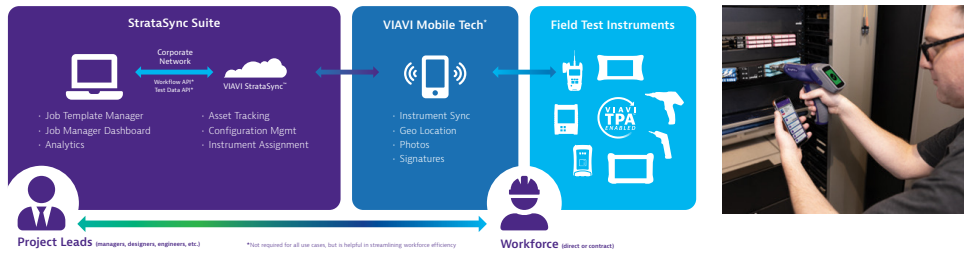### Specifications

| Parameters | Specification |
|---|---|
| Field of view | Multifiber: 6400 x 1425 μm |
| | Simplex: 1000 x 1425 μm |
| View modes | Live, Inspected |
| Magnification modes | Low, High (auto center) |
| Focus | Auto (on insert, triggered), Manual (simplex, duplex) |
| Panning | Auto (duplex, multifiber), Manual (multifiber) |
| Image analysis | Auto: IEC 61300-3-35 edition 2, IEC 61300-3-35 edition 3 |
| Test results | Save: triggered, auto if pass, auto always |
| | Simplex: ≤ 10,000, Duplex: ≤ 5,000, MPO 12x1: ≤ 1,500 saved |
| | Or proportional combination of the above |
| Auto focus + pan + analysis | Simplex: ≤4 s, Duplex: ≤5 s, MPO 12x1: ≤8 s |
| Auto save | Simplex: ≤1 s, Duplex: ≤1 s, MPO 12x1: ≤2 s |
| Hard buttons | Power, trigger, wheel |
| Display | 320 x 240-pixel (2.4 in) color backlit touch screen |
| Status indicators | LED ring, power/battery charging LED, speaker |
| Power supply | 5V/2.1A USB AC adapter |
| Battery | Li-ion (field serviceable) |
| Operating time | > 4 hr (1 MPO 12x1 test + save/min) |
| Wired connectivity | USB-C port with optional locking mount |
| Wireless connectivity | Bluetooth® 5.2 BLE, Wi-Fi 802.11b/g/n |
| Mounting point | ¼ inch diameter, 20 threads per inch (1/4-20) socket |
| Operation temperature | 0 to 40°C (32 to 104°F) |
| Operation humidity | 0 to 90% non-condensing |
| Storage temperature | -20 to 60°C (-4 to 140°F) |
| Dimensions (L x H x W) | 253 x 191 x 60 mm (9.9 x 7.5 x 2.4 in) without a tip |
| | 275 x 191 x 60 mm (10.8 x 7.5 x 2.4 in) with an LC tip |
| Weight | 0.665 kg (1.5 lb) without a tip |
| Inspection tips | Simplex, Duplex, Multifiber (rows ≤2, fibers/row ≤16) |
| | Integrated AutoID technology |
| | Stainless steel with threaded mounting nut and tether point |
| VIAVI TPA compatibility | VIAVI Mobile Tech 5.2 or later, StrataSync 16.1 or later |
| PC reporting software | ReportPRO™ |

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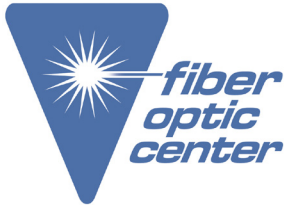
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## Ordering Information

**Kits**

| Part Number | Description |
|---|---|
| INX-760-KIT1 | INX 760 Microscope: Automated Simplex Multifiber Inspection, BT Wi-Fi Connectivity |
| | Tips: Bulkhead tips for MPO/PC, MPO/APC |
| | Mating adapters: MPO |
| | Accessories: Tip cover, tip storage case, USB charging adapter and cable, carrying case |
| INX-760-KIT2 | INX 760 Microscope: Automated Simplex Multifiber Inspection, BT Wi-Fi Connectivity |
| | Tips: Bulkhead tips for MPO/PC, MPO/APC, LC/PC, LC/APC, SC/PC, SC/APC |
| | Mating adapters: MPO, LC duplex, SC duplex |
| | Accessories: Tip cover, tip storage case, USB charging adapter and cable, carrying case |

**Tips**

| Part Number | Description |
|---|---|
| FPT-LC | Tip LC PC Bulkhead for INX |
| FPT-LC-A | Tip LC APC Bulkhead for INX |
| FPT-LC-L | Tip LC PC Bulkhead Long Reach for INX |
| FPT-LC-D | Tip LC PC Bulkhead Duplex for INX |
| FPT-SC | Tip SC PC Bulkhead for INX |
| FPT-SC-A | Tip SC APC Bulkhead for INX |
| FPT-CS | Tip CS PC Bulkhead for INX |
| FPT-SN | Tip SN PC Bulkhead for INX |
| FPT-MDC | Tip MDC PC Bulkhead for INX |
| FPT-MPO | Tip MPO PC Bulkhead for INX |
| FPT-MPO-A | Tip MPO APC Bulkhead for INX |
| FPT-MPO-A6 | Tip MPO PC Bulkhead Angled for INX |
| FPT-MPO-A-A6-U | Tip MPO APC Bulkhead Angled Key Up for INX |
| FPT-MPO-A-A6-D | Tip MPO APC Bulkhead Angled Key Down for INX |

**Accessories**

| Part Number | Description |
|---|---|
| FPT-MPO-COUPLER | MPO Bulkhead Mating Adapter for INX |
| ZP-HW-00457 | SC Duplex Bulkhead Mating Adapter |
| ZP-HW-00458 | LC Duplex Bulkhead Mating Adapter |
| FPP-INX7-HOLSTER | Holster for INX-7 Probe |
| FPP-INX7-TIPC | Tip Cover for INX-7 Probe |
| FPP-INX-TCASE1 | Tip Case for INX |
| FPP-INX7-BATTERY | Rechargeable Battery for INX-7 Probe |
| FCPP-PS1 | USB Output AC Input Charger with US EU UK AU Adapters |
| FBPP-DPAC9 | Type C USB Male to Type A USB Male Cable |
| FCLP-LAN-10 | Tip Lanyard 10 cm |

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