INX 660 Probe Microscope

Automated single fiber connector inspection and analysis

Elevating Fiber Inspection: Faster, Simpler, Stronger, Smarter

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 the increasing deployment of fiber optic connectors in the field and a growing number of technicians new to fiber, new inspection solutions are needed — the INX 660™ Probe Microscope.

With remarkable speed, simplicity and precision, the INX 660 brings the power of INX inspection to single fiber connectors.

INX 660 Probe Microscope

Key Benefits

- **Faster:** results in seconds
- **Simpler:** true automated inspection of single fiber connectors
- **Stronger:** durability and dependability for field applications
- **Smarter:** inspection excellence with trusted results

Features

- True Automated Inspection automates every step of the inspection process to deliver the industry's fastest end-to-end workflow
- AutoID inspection tips eliminate manual setup and mistakes when changing tips
- VIAVI Test Process Automation (TPA) ensures alignment, efficiency and accuracy at every stage of the job

Applications

- Service providers
- MSOs
- FTTx installers

Elevating Fiber Inspection

FASTER

Get results faster with true automated operation in seconds

With end-to-end inspection in under 5 seconds for a simplex connector, the INX 660 empowers 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.

AutoID technology auto-configures the microscope for the connector under inspection. The VIAVI TPA ecosystem connects project leads and field technicians to ensure repeatability, efficiency and accuracy at every stage of a job.

Effortless Inspection ... Single Fiber Connectors

STRONGER

Ensure performance in harsh environments with a microscope that delivers excellence in the field.

The INX 660 microscope is a field tool. The rugged stainless-steel tips thread securely onto the microscope. 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 demanding field conditions.

Performance You Can Depend On ... Everywhere

SMARTER

Achieve inspection excellence with trusted results.

The INX 660 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

Achieve Faster Workflow with True Automated Operation

The INX 660 automates every step of the inspection process to deliver fast, reliable, and repeatable results. Users simply attach the appropriate tip and inspect. The microscope automates setup, image focus, image capture, image analysis, and results storage.

Fully Automated with INX 660

SETUP → FOCUS → CAPTURE → ANALYZE → SAVE

With complete cycle times under 5 seconds for single fiber connectors, combined with the industry's fastest tip changing process, the fully automated capability of the INX 660 equips technicians with the fastest workflow in fiber connector inspection.

AutoID Inspection Tips Ensure Hassle-Free Simplicity

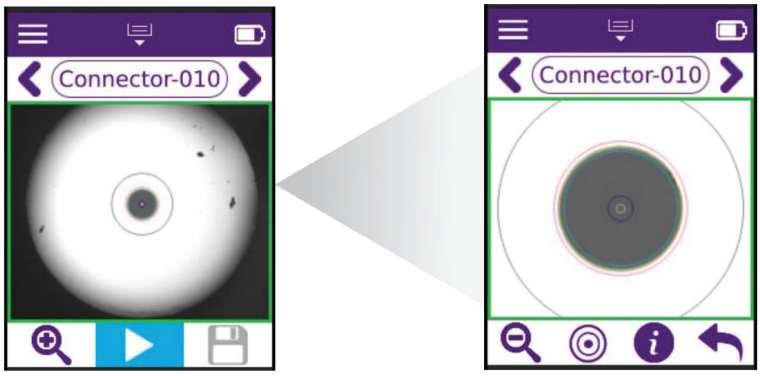
INX 660 utilizes FPT inspection tips. Designed for use in field environments, each rugged stainless-steel tip integrates AutoID technology that auto-configures the microscope for the connector under inspection, eliminating additional actions and potential mistakes that occur with manual or RFID configuration methods.

- Easily switch between connector types
- Optical settings configured automatically
- Most recent analysis profile applied automatically
- Rugged stainless-steel construction
- Single piece design
- Fast-threading coupling collar

See What Other Microscopes Can't

Fully Automated Simplex Connector Inspection

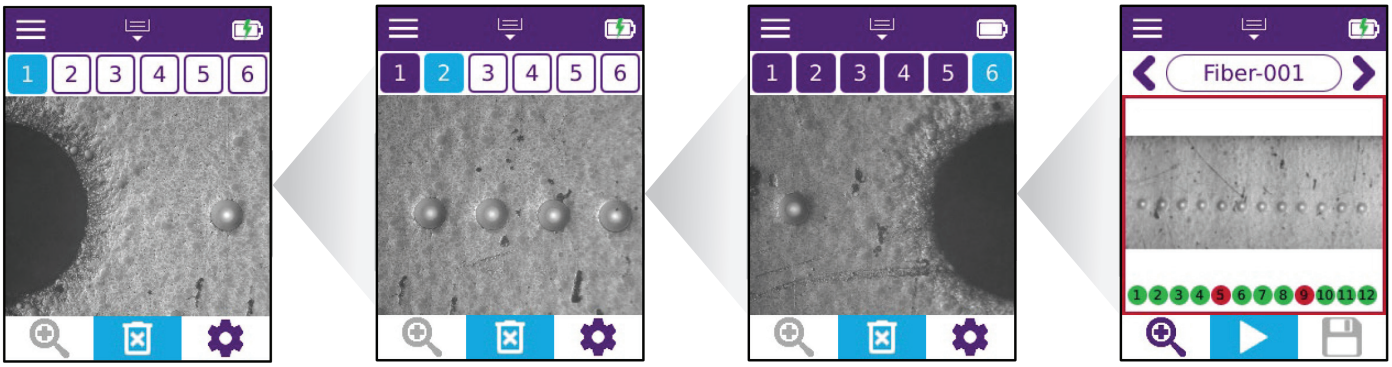
The INX 660 and INX 760 microscopes share the same simplex inspection tips. Simply mate the tip with the connector end-face to trigger True Automated Inspection.



Live view Tested view

Semi-Automated Multifiber Connector Inspection

Prompted inspection of multifiber connectors with INX 660 semi-automated tips. Rotate the manual panning wheel to the indicated position and capture an image. The individual captures are automatically stitched together and pass/fail image analysis is performed for the entire connector.



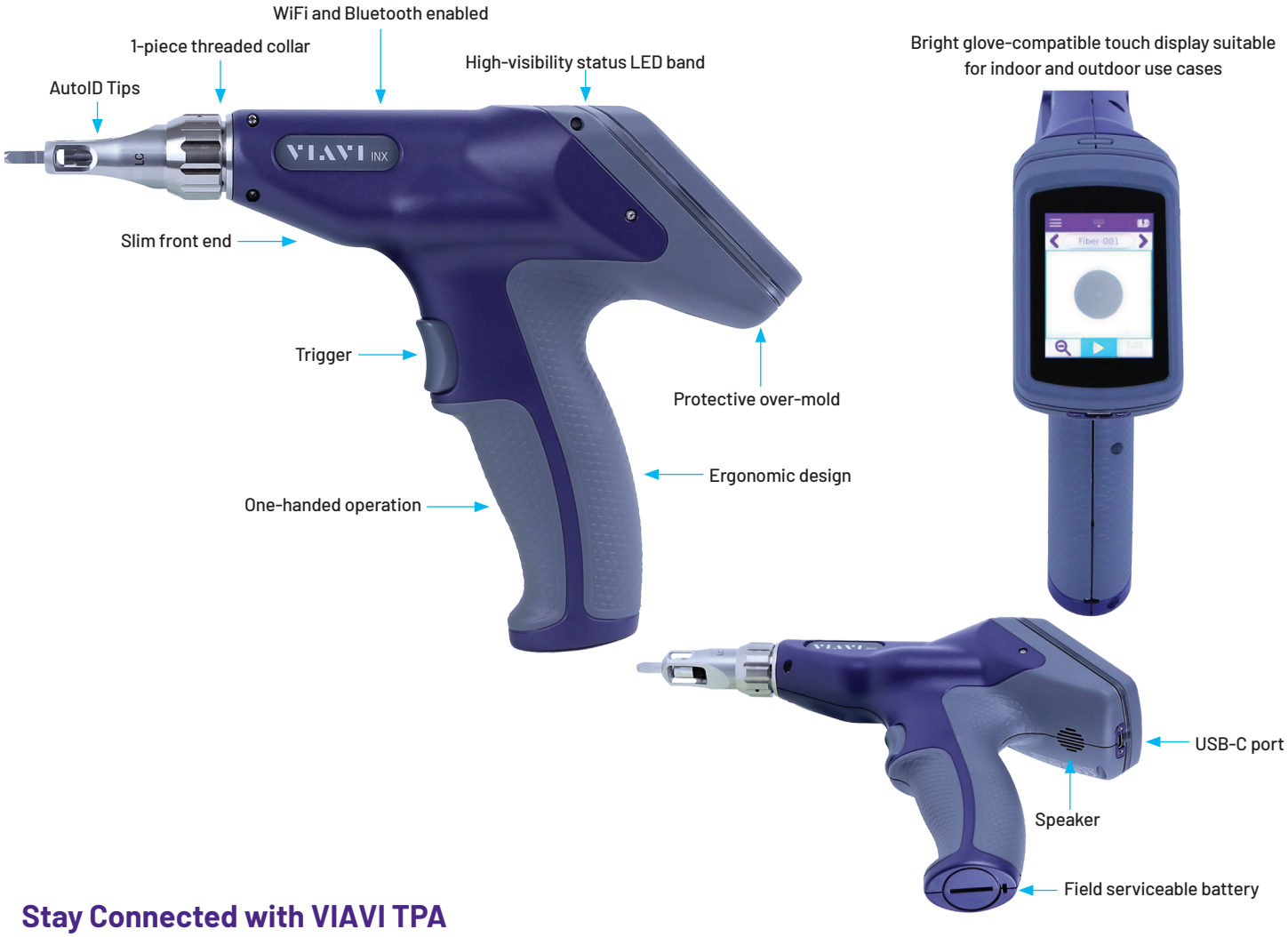
Rotate tip to indicated position

Capture image and move to next position

Repeat the process

View the entire connector end face and analysis result

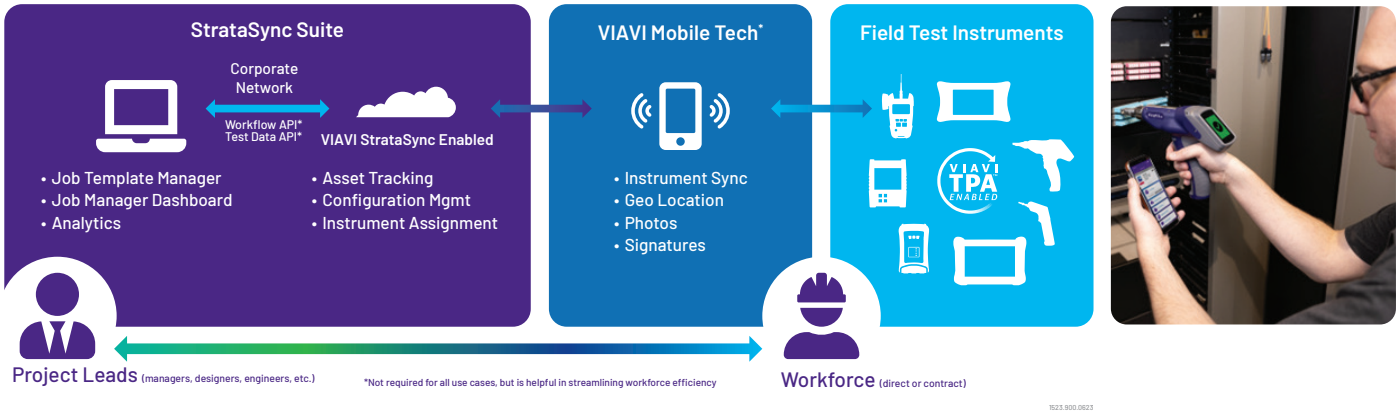
Key Features



Stay Connected with VIAVI TPA

INX 660 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



Specifications

Parameters	Specification
Field of view	Single fiber: 1000 x 1425 µm
	Multifiber: 4750 x 1425 µm
View modes	Live, Inspected
Magnification modes	Low, High (with auto center)
Focus	Auto (on insert, on trigger)
Image analysis	Auto (IEC 61300-3-35 edition 2 or 3, user defined)
Auto focus + image analysis time	≤ 4 s (single fiber)
Results	Save action: manual, auto (if pass, if fail, always)
	Save time: ≤ 1 s (single fiber)
	Storage: ≤ 10,000 single fiber, ≤ 1,500 multifiber, or proportional distribution
Hard buttons	Power, Trigger
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)
Wired connectivity	USB-C port with optional locking mount
Wireless connectivity	Bluetooth® 5.2 BLE, WiFi 802.11b/g/n
Operation temperature	0°C to 40°C (32°F to 104°F)
Operation humidity	0 to 90% non-condensing
Storage temperature	-20°C to 60°C (-4°F 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	0.4 kg (0.9 lb.) without a tip
Inspection tips	Simplex
	Semi-auto multifiber (rows ≤ 2, fibers/row ≤ 16)
	Integrated AutoID technology
	Stainless steel with threaded mounting nut and tether point
VIAVI TPA compatibility	VIAVI Mobile Tech 5.6 or later, StrataSync 17.0 or later
PC reporting software	ReportPRO™

Ordering Information

Kits

Part Number	Description
INX-660-KIT1	INX 660 Microscope: Automated Simplex Inspection, BT WiFi Connectivity
	Tips: Bulkhead tips for LC/PC, SC/PC
	Mating adapters: LC duplex, SC duplex
	Accessories: Tip cover, tip storage case, USB charging adapter and cable, carrying case
INX-660-KIT2	INX 660 Microscope: Automated Simplex Inspection, BT WiFi Connectivity
	Tips: Bulkhead tips for LC/PC, LC/APC, SC/PC, SC/APC
	Mating adapters: LC duplex, SC duplex
	Accessories: Tip cover, tip storage case, USB charging adapter and cable, carrying case
INX-660-KIT3	INX 660 Microscope: Automated Simplex Inspection, BT WiFi Connectivity
	Tips: Bulkhead tips for MPO/APC, LC/PC, SC/PC
	Mating adapters: MPO, LC duplex, SC duplex
	Accessories: Tip cover, tip storage case, USB charging adapter and cable, carrying case

Tips

The INX 660 supports FPT simplex and semi-automated multifiber tips. Duplex and fully automated multifiber tips are not supported. Refer to the selection guide for Fiber Inspection Tips And Adapters viavisolutions.com/tipguide

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 660 and 760 microscopes
FPP-INX6-TIPC	Tip Cover for INX 660 and 760 microscopes
FPP-INX7-TIPC	Tip Cover for INX 660 and 760 microscopes
FPP-INX-TCASE1	Tip Case
FPP-INX7-BATTERY	Rechargeable Battery for INX 660 and 760 microscopes
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

VIAVI Care Support Plans

Increase your productivity for up to 5 years with optional VIAVI Care Support Plans:

- Maximize your time with on-demand training, priority technical application support and rapid service.
- Maintain your equipment for peak performance at a low, predictable cost.

Plan availability depends on product and region. Not all plans are available for each product or in every region. To find out which VIAVI Care Support Plan options are available for this product in your region, contact your local representative or visit: viavisolutions.com/viavicareplan

Features

*5-year plans only

Plan	Objective	Technical Assistance	Factory Repair	Priority Service	Self-paced Training	5 Year Battery and Bag Coverage	Factory Calibration	Accessory Coverage	Express Loaner
BronzeCare	Technician Efficiency	Premium	✓	✓	✓				
SilverCare	Maintenance & Measurement Accuracy	Premium	✓	✓	✓	✓*	✓		
MaxCare	High Availability	Premium	✓	✓	✓	✓*	✓	✓	✓

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