V20

User Manual

Fiber Microscope

Please read this manual before operating the device. Please keep this manual together with the device.



V20 User Manual

Important: INNO Instrument strongly recommends all users to read this manual before operating the V20.
This manual is valid for the following software version:
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Fiber microscope

Handheld fiber microscope enables fiber face inspection Available in 200(µm) x or 360(µm) x magnification

With this tool, the process of fiber testing can be simplified and performed quickly. Accurate test results can be generated to demonstrate successful pass.



- · Test report
- · S/W program to use with PC
- · Pass/Fail Result
- · Image magnification

Importance of a cleaning the connector end interface

It is essential to utilize auto-analysis software to test the connector and assess its quality during the commissioning and installation of the fiber. It is important to save the verification records of the connector for future reference. The end-to-end verification can be achieved by combining the connector test with the fiber verification. The following are the displayed test images.

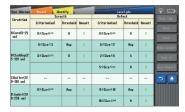




Passed

Failed

It can also analyze and report data through the corresponding software, as shown in the following picture:



Operation



Fiber interface: Connect the fiber connector to V20 after unscrewing the cap of V20.



USB interface: It is used for connecting to PC and other corresponding instrument.



Rotary knob for adjusting focus: It is used for focusing to make the image clear. In order to enable the fuction of V20, you just need to connect the V20 with the fiber connector to the instrument or to the PC which is able to communicate with upper computer. After making the image of the fiber, it will become clear by adjusting the rotary knob for focus, allowing you to analyze the image.

Patchcord Tip Adapters

2.5mm / APC



Universal patchcord tip for 2.5 mm ferrules(APC)

2.5mm / UPC



Universal patchcord tip for 2.5 mm ferrules(UPC)

1.25mm / APC



Universal patchcord tip for 1.25 mm ferrules(APC)

1.25mm / UPC



Universal patchcord tip for 1.25 mm ferrules(UPC)

Convenient test with PC software

The result of INNO software can be analyzed through the following step: connecting the optical fiber to the device, adjusting the sharpness and then tapping "screenshot".



Meanwhile, the data can be analyzed in detail.



The corresponding test task can be marked under the identification function.



Test report

V20 Fiber Microscope Report



General Information

File name: 1112.pdf Analysis version: 1.0 Job ID: Checking date: Analysis date: Customer: Comment: 2017-2-15 15:38:22 2017-2-15 15:38:22

Company: Location

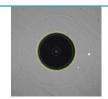
	Location A	Location B
Operator		

Identification

Cable ID	Fiber ID	Location A	Location B	Connector ID

Image





Result

nesult							
	Layered		Scratch		Defect		
Layering	Diameter (μm)	Criterion	Thresh old	Amour	t Criterion	Thresh old	Amount
A: Core	0 - 25	0≤size<∞	0	0	0≤size<∞	0	0
B:Cladding	25 - 120	0≤size<3	any	0	0≤size<2	any	0
	ř	3≤size<∞	0	0	2≤size<5	5	0
					5≤size<∞	0	0
C: Coating	120 - 130	_			_	_	
D: Jacket	130 - 250	0≤size<∞	any	0	0≤size<10	any	5
					10≤size<∞	0	0

Signature: Date: 2017-2-15 1/1

Specifications

Parameters		
Size	150 x 35 x 34mm	
Weight	168g	
Resolution	3.2µm	
Image sensor	640 x 480 (VGA)	
Visual test	< 5μm	
View engle	200μm*200μm of high magnification	
View angle	360μm*360μm of low magnification	
Light source	Blue LED	
Digital zoom	3 grades	
Connector	USB 2.0	
Operating temperature	-10°C to 50°C	
Storage temperature	-40°C to 70°C	
Bulkhead tips	2.5mm (UPC, APC), 1.25mm (UPC, APC)	

Maintenance and technical support

Any operation, such as alignment, maintenance or repair of the device, can only be performed by qualified maintenance personnel. Please contact the engineers of INNO Instrument. You can also consult any queries through the following website.

www.innoinstrument.com

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www.innoinstrument.com



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