

Video Inspection Probe G0306C

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G0306C Product Introduction



Scratches and stains to optic fiber ferrule endfaces are often said to have a negative impact on transmission quality.

The Video Inspection Probe G0306C can be connected to an MT1000A/MT1040A Network Master Series, MT9085 Series ACCESS Master, MT9090A Network Master Series (µOTDR module) and PC, to show the state of a ferrule endface.

This function is effective for determining whether a ferrule endface is clean, and whether connector replacement is necessary due to connector scratches.



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When a Connector Endface is Dirty...

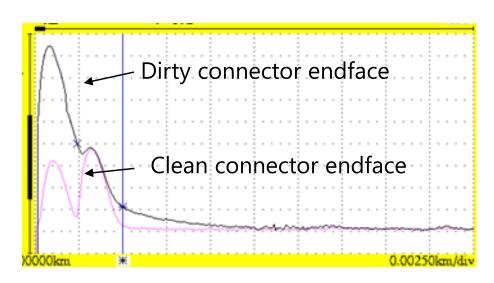


When a connector endface is dirty, it tends to produce a greater amount of reflection.

A good connection can be maintained by cleaning connector endfaces.

Optic Fiber Clad

Oil, Dust



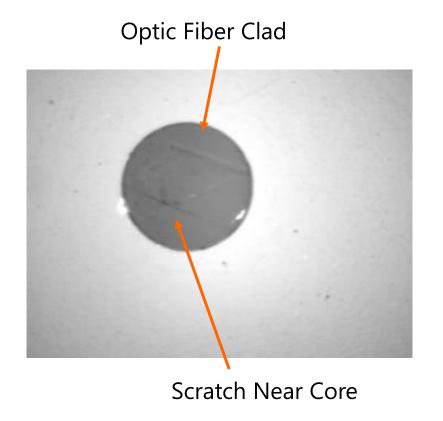
Verification through OTDR Output Port Connection

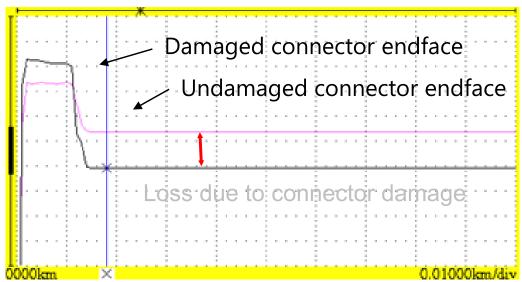
When a Connector Endface is Damaged...



When a connector endface is damaged, in addition to having a greater amount of reflection, it also tends to exhibit greater splice loss.

When the amount of reflection or loss caused by the damage is high, the connector port needs to be replaced.





Verification through OTDR Output Port Connection

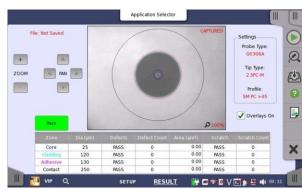
G0306C Support Products



Network Master Pro MT1000A/MT1040A



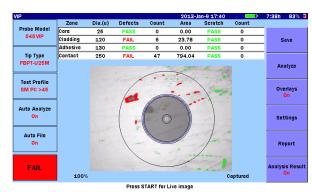




ACCESS Master MT9085 Series



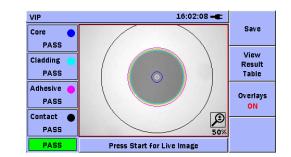




Network Master MT9090A Series μOTDR: MU909014/15







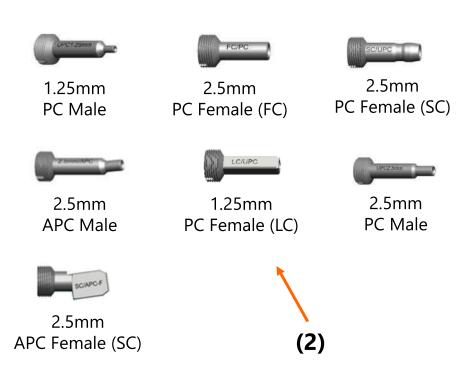
Video Inspection Probe G0306C

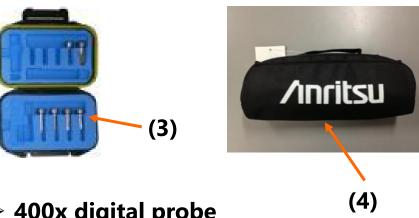




Video Inspection Probe G0306C (The following products $(1) \sim (5)$ are included as standard.)

- (1) Video Inspection Probe
- (2) Standard Tips
- (3) Case of Tips
- (4) Standard Soft Case
- (5) Operation Manual (Printed)





- ➤ USB 2.0/1.1 supported
- > Drivers pre-installed
- > Auto Pass/Fail analysis
- Optional connector tips

Examples of Tip Connection



- Tips for bulk type

As this figure shows, the ferrule endface of the connected fiber can be checked via this bulk type adapter.

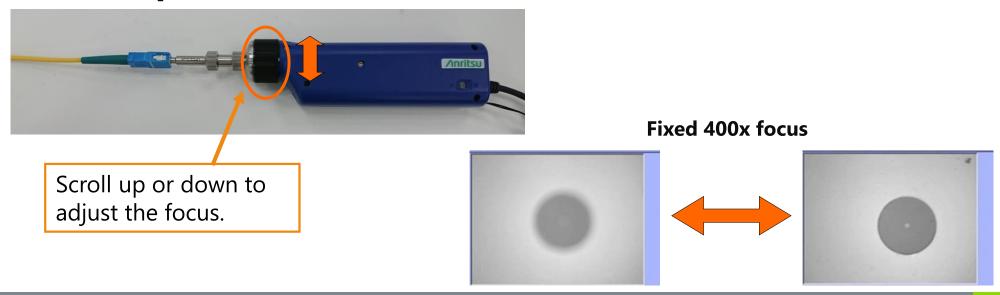


- Tips for universal type

As this figure shows, the universal type tip can be used to directly plug into the ferrule for test.



Basic Operation



Network Master Pro Measurement Example (1/4)





1. The VIP USB terminal is connected to the MT1000A/MT1040A series instrument's USB port.

2. The power is turned on. "Video Inspection Probe" is selected from the utilities menu.

:*Photo is the MT1000A

*Before starting, select the appropriate tip for the connector adapter and ferrule type to be connected to.

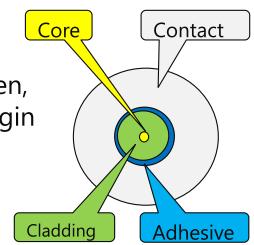
Network Master Pro Measurement Example (2/4)





Measurement Sequence

Adjust the focus in the Live screen, and press the Start button to begin analysis.





When analysis completes, the following information appears:

- Core
- Cladding
- Adhesive
- Contact

As well as a pass/fail determination for the total area for each.

Network Master Pro Measurement Example (3/4)







From the Table View, you can identify "defects" or "scratches" on the end of the fiber.

- (1) Defects in each area.
- (2) Scratches in each area.
- (3) Overall determination for each area merging (1) and (2)

Zone	Dia.(μm)	Defects	Defect Count	Area (μm²) 🗡	Scratch	Scratch Count
Core	25	PASS	0	0.00	PASS	0
Cladding	120	PASS	2	3.77	PASS	0
Adhesive	130	PASS	0	0.00	PASS	0
Contact	250	FAIL	203	2276.45	PASS	0

(2)

Pass

Zone	Dia.(μm)	Defects	Defect Count	Area (μm²)	Scratch	Scratch Count
Core	25	PASS	0	0.00	PASS	0
Cladding	120	PASS	0	0.00	PASS	0
Adhesive	130	PASS	0	0.00	PASS	0
Contact	250	PASS	0	0.00	PASS	0

The automatic pass/fail determination is made in accordance with the IEC61300-3-35 standard.

Network Master Pro Measurement Example (4/4)



Saving the Measurement Results

You can manage the measurement results in either of the following ways.

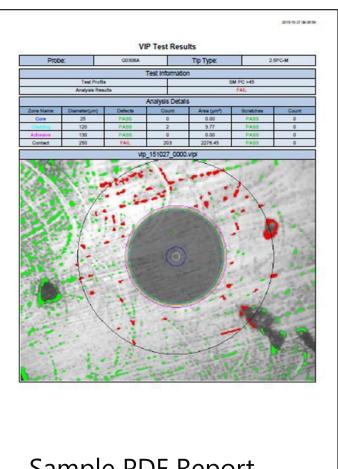
Save to File

- Screen capture (PNG format)
- VIP data file (file with .vipi extension)

Load from File

- PNG file
- VIP data file (file with .vipi extension)

You can also create a PDF report on the system.



Sample PDF Report

3

ACCESS Master Measurement Example (1/4)





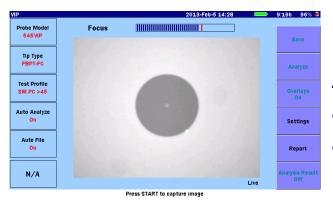
1. The VIP USB terminal is connected to the MT9083x2 series instrument's USB port.

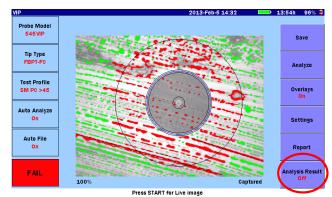
2. The power is turned on. "Video Inspection Probe" is selected from the top menu.

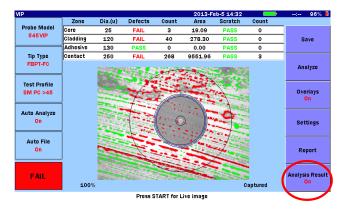
*Before starting, select the appropriate tip for the connector adapter and ferrule type to be connected to.

ACCESS Master Measurement Example (2/4)



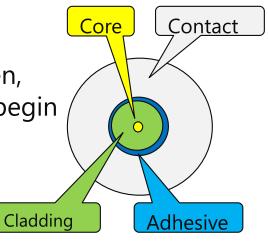






Measurement Sequence

Adjust the focus in the Live screen, and press the Start button to begin analysis.



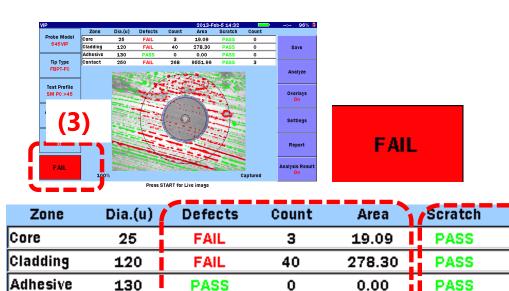
When analysis completes, the following information appears:

- Core
- Cladding
- Adhesive
- Contact

As well as a pass/fail determination for the total area for each.

ACCESS Master Measurement Example (3/4)





FAIL

(1)

Contact

250

From the Table View, you can identify "defects" or "scratches" on the end of the fiber.

- (1) Defects in each area.
- (2) Scratches in each area.
- (3) Overall determination for each area merging (1) and (2)

PASS

9551.96

PASS

(2)

Zone	Dia.(u)	Defects	Count	Area	Scratch	Count	
Core	25	PASS	0	0.00	PASS	0	
Cladding	120	PASS	0	0.00	PASS	0	
Adhesive	130	PASS	0	0.00	PASS	0	
Contact	250	PASS	0	0.00	PASS	0	

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The automatic pass/fail determination is made in accordance with the IEC61300-3-35 standard.

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Count

0

0

ACCESS Master Measurement Example (4/4)



Saving the Measurement Results

You can manage the measurement results in either of the following ways.

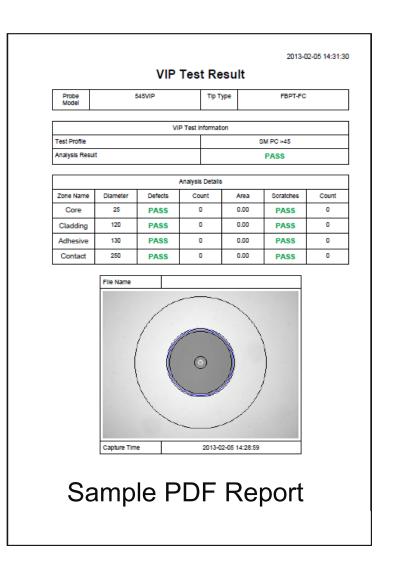
Save to File

- Screen capture (PNG format)
- VIP data file (file with .vipi extension)

Load from File

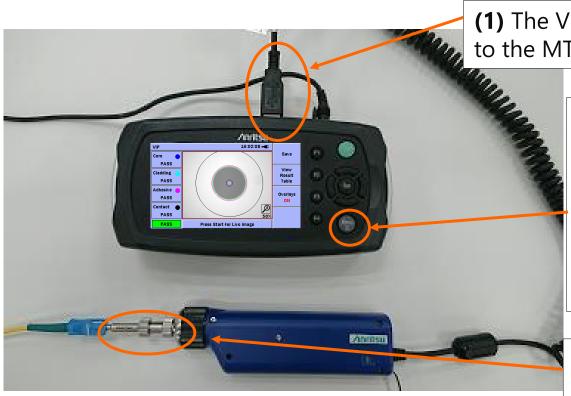
- PNG file
- VIP data file (file with .vipi extension)

You can also create a PDF report on the system.



MT9090A μOTDR (MU909014/15) Measurement Example (1/4) /





(1) The VIP USB terminal is connected to the MT9090A's USB port.

(2) The power is turned on. When unit has started up, the VIP screen will be displayed automatically.

*The screen will also be displayed automatically if the VIP USB terminal is connected after the MT9090A has been started.

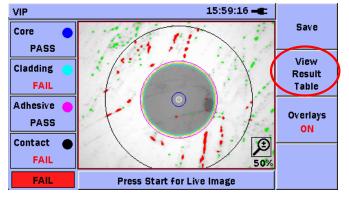
*Before starting, select the appropriate tip for the connector adapter and ferrule type to be connected to.

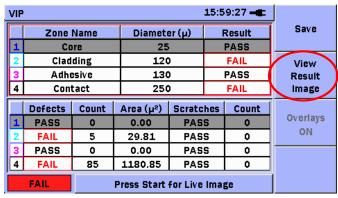
MT9090A μOTDR (MU909014/15) Measurement Example (2/4)





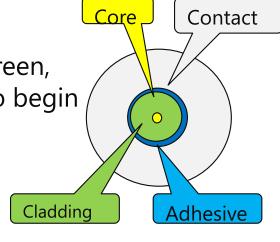






Measurement Sequence

Adjust the focus in the Live screen, and press the Start button to begin analysis.



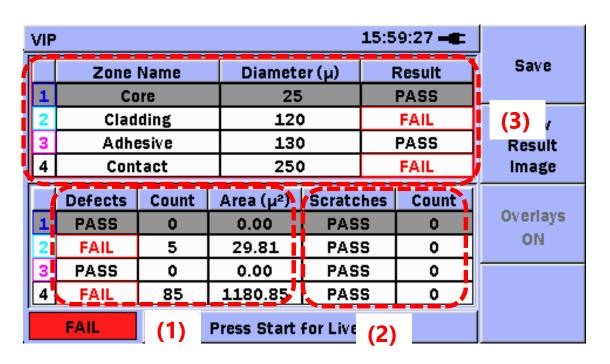
When analysis completes, the following information appears:

- Core
- Cladding
- Adhesive
- Contact

As well as a pass/fail determination for the total area for each.

MT9090A μOTDR (MU909014/15) Measurement Example (3/4) /





From the Table View, you can identify "defects" or "scratches" on the end of the fiber.

- (1) Defects in each area.
- (2) Scratches in each area.
- (3) Overall determination for each area merging (1) and (2)

١	/IP					16:0	2:20 🖛	
		Zone	Name	Diamet	Diameter (µ)		Result	Save
I	1	Co	re	25		PASS		
	2	Clad	ding	120	120		PASS	View
	3	Adhe	esive	130	130		PASS	Result
	4	Cont	tact	250	250		PASS	Image
Γ		Defects	Count	Area (µ²)	Scratc	hes	Count	
I	1	PASS	0	0.00	PAS:	5	0	Overlays
I	2	PASS	0	0.00	0.00 PAS		0	ON
	3	PASS	0	0.00	0.00 PAS		0	
	4	PASS	0	0.00	PAS:	5	0	
	PASS Press Start for Live Image							

The automatic pass/fail determination is made in accordance with the IEC61300-3-35 standard.

MT9090A μOTDR (MU909014/15) Measurement Example (4/4)



Saving the Measurement Results

You can manage the measurement results in either of the following ways.

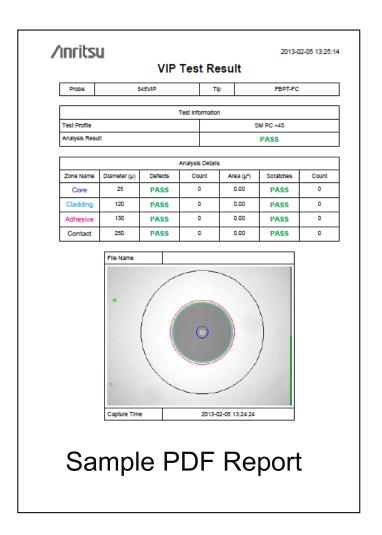
Save to File

- Screen capture (PNG format)
- VIP data file (file with .vipi extension)

Load from File

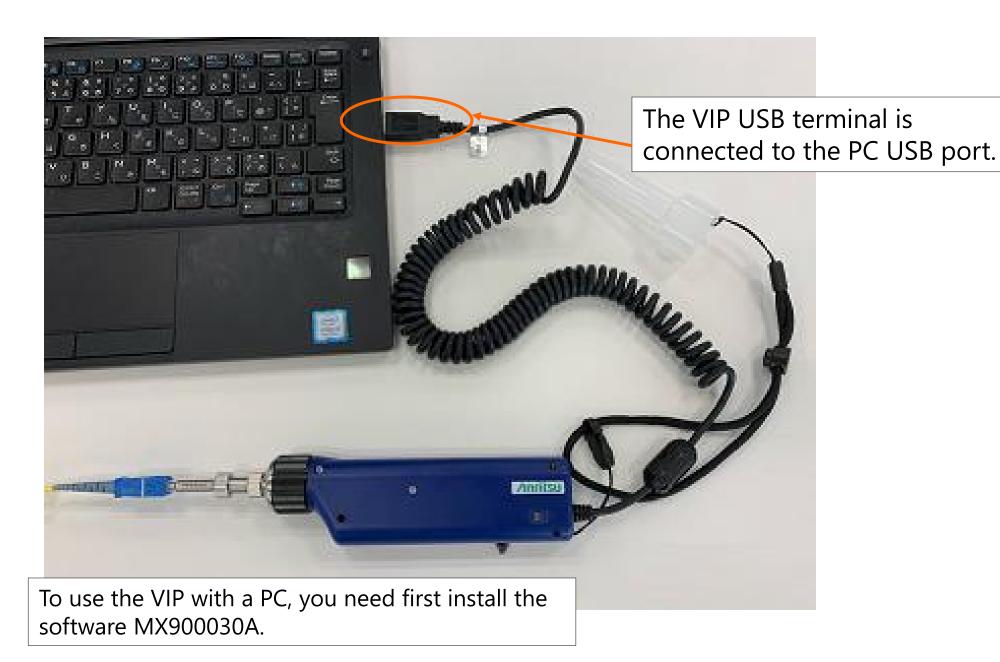
- PNG file
- VIP data file (file with .vipi extension)

You can also create a PDF report on the system.



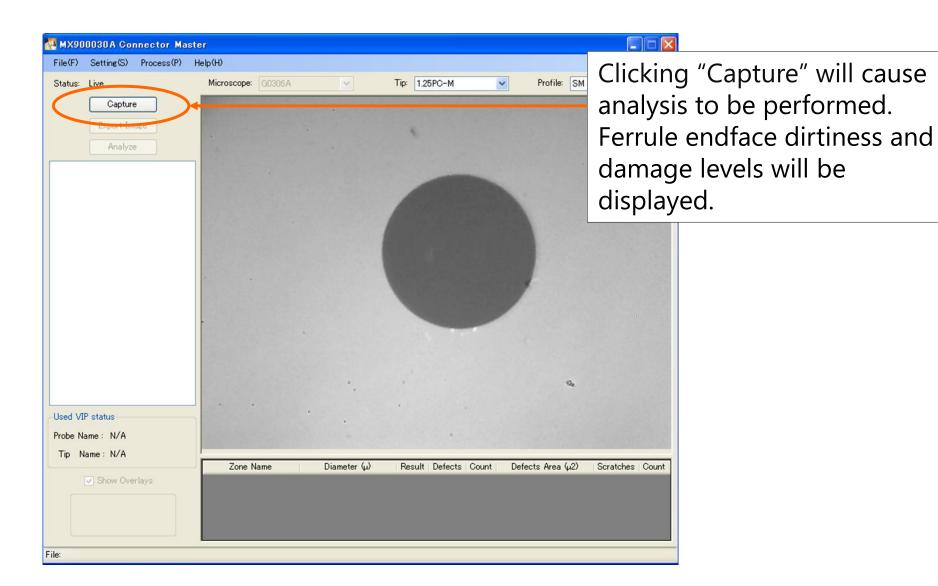
Examples of Measurement with the Windows PC (1/3)





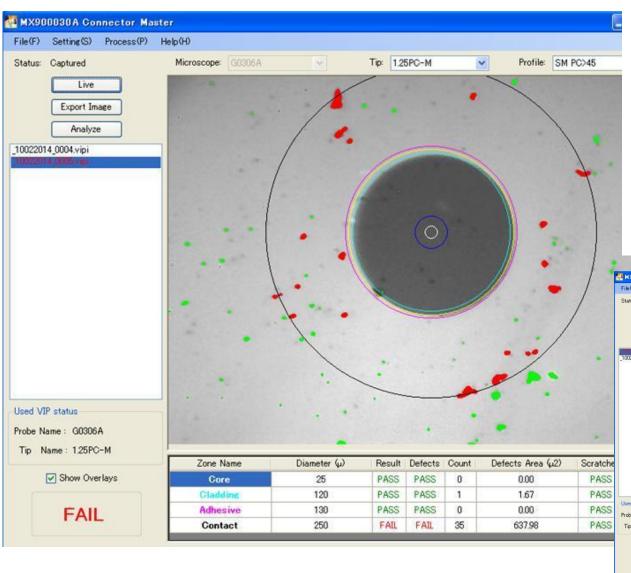
Examples of Measurement with the Windows PC (2/3)





Examples of Measurement with the Windows PC (3/3)





When analysis completes, the following information appears:

- Core
- Cladding
- Adhesive
- Contact

As well as a pass/fail determination for the total area for each.



Ordering Information



Model No.							
G0306C	Vide	Video Inspection Probe					
- Standard accessories -	Soft Tip o Seve - 1 - 1	Operation manual (Printed) Soft Bug Tip case Seven Connector Tips - 1.25mm PC Male, - 2.5mm PC Male, - 2.5mm APC Male - 1.25mm PC Female(LC), - 2.5mm PC Female(FC) - 2.5mm PC Female(SC), - 2.5mm APC Female(SC)					
	•	Appli	cation Parts				
Model No.	Name		Model No.		Name		
H0382A	2.5PC-M		H0388A		1.25APC-M		
H0383A	1.25PC-N	1	H0390A		E2000-PC-F		
H0387A	2.5APC-M		H0395A		FC-APC-F		
H0385A LC-P0			H0397A		MU-PC-F		
H0386A FC-PC-F			H0396A		ST-PC-F		
H0384A SC-PC-F		H0403A		LC65-PC-F			
H0398A SC-APC-F		H0393A		LC-PC-F-L			
H0391A E2000-PC-M		H0394A		LC-APC-F-L			
H0389A E20		PC-M					

G0306C Supported

- Network Master Pro MT1000A/MT1040A (v12.05 or late)
- Access Master MT9085 Series (v1.14 or late)
- Network Master MT9090A (MU909014/15: μOTDR) (v4.01 or late)
- Windows 7/8/10(32bit, 64bit) PC for MX900030A (v1.05 or late)

