Product Introduction



G0306A USB 400x Video Inspection Probe

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March 2014

Anritsu Corporation



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VIP Series Support Products

Mainframe	G0306A (Fixed x400 type)		OPTION-545VIP (Selectable x200 /x400 type)	
	Live View	Pass/Fail Analysis	Live View	Pass/Fail Analysis
MT9	090A Networ	k Master™		
MU909014x/15x (µOTDR)	✓ (Ver.2.13 or later) *1		~	✔ (Ver.2.10 or later) *1
MU909011x (DCFL)			~	
MU909020A (OCA)			~	
MU909060Ax (GigE)			~	
AC	CESS Maste	er Series		
MT9083x2 Series ACCESS Master	(Ver.1.09 or later) *1		~	✔ (Ver.1.03 or later) ^{*1}
MT9083x/83x1 Series ACCESS Master			~	
	Others			
MX900030A with Windows PC *2		v		
Windows PC software *3				~

*1: Mainframe's software version

- *2: PC analysis software for G0306A (Support Windows XP, Windows 7(32bit, 64bit) and Windows 8(32bit, 64bit)) The MX900030A is available from the Anritsu public web site.
- *3: PC analysis software for OPTION-545VIP (Support Windows XP)

G0306A Video Inspection Probe

Scratches and stains to optic fiber ferrule endfaces are often said to have a negative impact on transmission quality. The G0306A can be connected to an MT9083x2 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.







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.



Scratch Near Core

Verification through OTDR Output Port Connection



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•MT9090A Series Network Master µOTDR: MU909014/15 Include Pass/Fail analysis function (Software version 1.09 or later)



Include Pass/Fail analysis function (Software version 2.13 or later)



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G0306A Video Inspection Probe

- (1) Standard Soft case
- (2) Video Inspection Probe
- (3) Tip for measurement
- (4) CD include Operation Manual
- (5) Standard Tips
 - > 400x digital probe
 - USB 2.0/1.1 supported
 - Drivers pre-installed
 - > Auto Pass/Fail analysis
 - Multiple connector tips



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G0306A Accessories



Tips are connected to the end of the VIP based on the shape of connector (adapter) to be connected. This unit comes standard with 7 types of tips.



1.25mm PC Male



2.5mm PC Male



2.5mm APC Male



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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.

Connected to OTDR output port ferrule endface



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Basic Video Inspection Probe Operation





Fixed 400x focus

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MT9083x2 Series ACCESS Master Measurement Example





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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.

Press f6 to toggle between Details (Table) and Image View.



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Core

Cladding

С

Contact

Adhesive

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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.





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Examples of Measurement Using the MT9090A Series µOTDR (MU909014/15)





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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.



Press F2 to toggle between Details (Table) and Image View.



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Core

Cladding

0

Contact

Adhesive

	VIP					15:5	9:27 🛋		
		Zone Name		Diamet	Diameter (µ)		Result	Save	
	н	Co	Core		25		PASS		
1	2	Clad	ding	120	120		FAIL	(3)	
	3	Adhe	esive	130	0	PASS		Result	
	4	Cont	tact	250	250		FAIL	Image	
ĺ		Defects	Count	Area (µ²)	Scratc	hes	Count		
I	1	PASS	0	0.00	PAS	S	0	Overlays	
I	2	FAIL	5	29.81	29.81 PAS		0	ON	
I	3	PASS	0	0.00	00 PAS		0		
	4	FAIL	85	1180.85	PAS	S	0 /		
ĺ	FAIL (1) Press Start for Live (2)								

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)

	VIP 16:02:20 -							
		Zone	Name	Diameter (µ)		I	Result	Save
	1	Co	Core		25		PASS	
	2	Clad	ding	120		PASS		View
	3	Adh	esive 130)	PASS		Result
	4	Con	tact 2)	PASS		Image
ĺ		Defects	Count	Area (µ²)	Scratc	hes	Count	
	1	PASS	0	0.00	0.00 PAS		0	Overlays
	2	PASS	0	0.00	0.00 PAS		0	ON
	3	PASS	0	0.00	PAS	S	0	
	4	PASS	0	0.00	PAS	S	0	
İ		PASS						

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



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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.

Probe	5	45VIP		τιρ)	FBPT-FC	
Test Destin			Test Infor	rmation			
Analysis Result				PASS			
-							
			Analysis	Details			
Zone Name	Diameter (µ)	Defects	Cou	int	Area (µ²)	Scratches	Count
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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Examples of Measurement With the Windows PC



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Examples of Measurement With the Windows PC



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Examples of Measurement With the Windows PC



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Ordering Information

Model No.							
G0306A	400x Video Inspectio	n Probe					
- Standard accessories -	Operation manual (P Soft Bug Seven Connector Tip - 1.25mm PC Male, - 1.25mm PC Femal - 2.5mm PC Female	Operation manual (Printed) Soft Bug 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)					
	Application Parts						
Model No.		Model No.					
H0360A	2.5PC-M	H0366A	SC-APC-F				
H0361A	1.25PC-M	H0372A	E2000-PC-F				
H0362A	2.5APC-M	H0373A	FC-APC-F				
H0363A	LC-PC-F	H0374A	MU-PC-F				
H0364A	FC-PC-F	H0375A	ST-PC-F				
H0365A	0365A SC-PC-F		1.25APC-M				

G0306A Supported...

•MT9083x2 ACCESS Master

•MT9090A Network Master (MU909014/15: µOTDR)

•Windows XP, Windows7(32bit, 64bit) and Windows8(32bit, 64bit) PC for MX900030A



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