Operation Manual





# /inritsu

# Anritsu Corporation <u>https://www.anritsu.com</u> February 2022 (First Edition)

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The operational instructions of this manual may be changed without prior notice.

Printed in Japan

# General

The G0306C Video Inspection Probe (hereafter, VIP) can be used to check for scratches or dirt on the end faces of the optical I/O connector and the optical fiber.

The Video Inspection Probe can be connected to the following instruments:

- MT1000A Network Master Pro
- MT1040A Network Master Pro
- MT9085 Series Access Master
- MT9090A μOTDR
- MX900030A Connector Master

For how to use with each instrument, refer to the operation manual for the corresponding instrument.

The MX900030A Connector Master is the software to observe, analyze and make a pass-fail judgment of the fiber optic connector endface on a PC. The files for installation can be downloaded from following web site.

https://www.anritsu.com/en-us/test-measurement/support/downl oads/software/dwl010383

# Note:

To use the VIP on each instrument, updating the firmware is

necessary. Confirm the latest information on the following homepage.

https://www.anritsu.com/en-US/test-measurement/support/dow nloads?model=MT1000A#downloadSoftware https://www.anritsu.com/en-US/test-measurement/support/dow nloads?model=MT1040A#downloadSoftware https://www.anritsu.com/en-US/test-measurement/support/dow nloads?model=MT9085%20Series#downloadSoftware https://www.anritsu.com/en-US/test-measurement/support/dow

# Configuration

The VIP consists of the following component parts. Video Inspection Probe (VIP) - Standard Accessory -

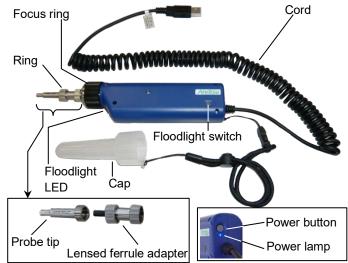
- Stanuaru Accessory –	
Soft case	1
Probe tip case	1
Probe tip	
FC-PC-F	1
LC-PC-F	1
SC-PC-F	1
SC-APC-F	1
1.25PC-M	1
2.5PC-M	1
2.5APC-M	1
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Soft case





Name of parts



### Probe Tip

To the VIP tip, connect the probe tip that fits the connector type. The G0306C Video Inspection Probe comes with the following standard accessories: Four kinds of bulk-type probe tip and three kinds of universal-type probe tip. The bulk-type probe tips are used mainly for inspecting receptacle connector ends that are located inside of devices and equipment and on the back of the patch panel. The universal-type probe tips are used for inspecting plug connector ends of the patch cords.



# Universal type

1.25mm/APC
1.25APC-M
φ1.25 mm APC Universal
2 Oning APG
2.5APC-M
φ2.5 mm APC Universal
E2000-APC-M
For E2000 Connector

Figure 2 Name of Parts

# ■Attaching probe tip Replacing the probe tip

To replace the probe tip, perform the following procedure:

1. Loosen the ring by rotating it in the direction shown in the figure.



2. Pull and remove the probe tip.



3. Plug the ferrule adapter in with its groove aligned with the protrusion on the ring.



4. Fasten the ring by rotating it in the direction shown in the figure.



## Note:

Fasten the ring, checking the position of the image, when attaching a probe tip. The image may not be displayed in the center of a focus area if the ring is tightened excessively.

# How to Install 60-LC-PC-F, Long-LC-PC-F, and Long-LC-APC-F

When using the 60-LC-PC-F, Long-LC-PC-F, or Long-LC-APC-F probe tip, the lensed ferrule adapter is not required, so detach it before installing the ferrule adapter.

1. Loosen the ring fastening the lensed ferrule adapter by rotating it in the direction shown in the figure.



2. Remove the lensed ferrule adapter.



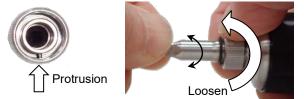
3. Plug the ferrule adapter in with its protrusion aligned with the groove on the probe.

a. For 60-LC-PC-F or Long-LC-APC-F



b. For Long-LC-PC-F

The protrusion on the Long-LC-PC-F cannot be seen from outside. Lightly tighten the ring, and then return it 90° to loosen. While pushing in and rotating the ferrule adapter, align the protrusion with the groove on the probe.



4. Fasten the ring by rotating it in the direction shown in the figure.



#### Note:

Depending on the angle where the probe tip has attached, the fiber edge may be out of the image field. Adjust the angle by monitoring the image.

#### **Power Button**

When the power button is pressed, the power lamp lights up. If the VIP is connected via USB to a battery-powered PC or measuring instrument, turn off the PC or measuring instrument, and you can save the battery.

#### Adjusting the focus

- 1. Connect the USB connector to the Anritsu product or PC.
- 2. Start the VIP control application and display the image.
- 3. Insert the optical connector into the probe tip.
- 4. Rotate the focus ring while checking the image displayed by the application.

#### Floodlight LED



Slide the floodlight switch to the  $\dot{\phi}$  side to turn on the floodlight LED. The floodlight LED can illuminate a dark place, so you can handle VIP in the dark.

#### Cleaning

If there is dirt on the lens surface, wipe it with a soft cloth moistened with alcohol.

Avoid leaving any wiping traces on the lens surface.

# Сар

Put the protective cap on the ferrule adaptor when the VIP is not used.

#### Equipment Certificate

Anritsu Corporation guarantees that this equipment meets the published specifications.

#### Warranty Information

Anritsu Corporation provides the following warranty against stoppages arising due to manufacturing error, and against problems with operation occurring even though the procedures outlined in the operation manual were followed.

The equipment is warranted for one year from delivery and will be replaced free of charge under warranty.

After the expiration of one-year warranty period, repairs or replacement will not be made on the failed equipment. Please consider purchasing a new one.

The warranty is not valid under any of the following conditions:

- The fault is due to mishandling, misuse, or unauthorized modification or repair of the equipment by the customer.
- The fault is due to severe usage clearly exceeding normal usage.
- The fault is due to improper or insufficient maintenance by the customer.
- The fault is due to natural disaster, including fire, wind or flood, earthquake, lightning strike, or volcanic ash, etc.
- The fault is due to damage caused by acts of destruction, including civil disturbance, riot, or war, etc.
- The fault is due to explosion, accident, or breakdown of any other machinery, facility, or plant, etc.
- The fault is due to use of non-specified peripheral or applied equipment or parts, or consumables, etc.
- The fault is due to use of a non-specified power supply or in a non-specified installation location.
- The fault is due to use in unusual environments <sup>(Note)</sup>.
- The fault is due to activities or ingress of living organisms, such as insects, spiders, fungus, pollen, or seeds.

In addition, this warranty is valid only for the original equipment purchaser. It is not transferable if the equipment is resold.

Anritsu Corporation shall assume no liability for damage or financial loss of the customer due to the use of or a failure to use this equipment, unless the damage or loss is caused due to Anritsu Corporation's intentional or gross negligence.

#### Note:

For the purpose of this Warranty, "unusual environments" means use:

- In places of direct sunlight
- In dusty places
- Outdoors
- In liquids, such as water, oil, or organic solvents, and medical fluids, or places where these liquids may adhere
- In salty air or in place chemically active gases (sulfur dioxide, hydrogen sulfide, chlorine, ammonia, nitrogen dioxide, or hydrogen chloride etc.) are present
- In places where high-intensity static electric charges or electromagnetic fields are present
- In places where abnormal power voltages (high or low) or instantaneous power failures occur
- In places where condensation occurs
- In the presence of lubricating oil mists
- In places at an altitude of more than 2,000 m
- In the presence of frequent vibration or mechanical shock, such as in cars, ships, or airplanes

#### Anritsu Corporation Contact

In the event that this equipment malfunctions, please contact a

sales office listed in Anritsu Service and Sales office. Contact information can be found in a separate file.

#### Compliance Information CE Conformity Marking:

Anritsu affixes the CE conformity marking on the following product in accordance with the Decision 768/2008/EC to indicate that it conforms to the EMC and RoHS directive of the European Union (EU).

Product Model Model:

G0306C Video Inspection Probe

Applied Directive EMC: RoHS:

RoHS:

Directive 2014/30/EU Directive 2011/65/EU, (EU) 2015/863

Applied Standards

EMC: Emission: Immunity:

EN 61326-1: 2013 (Class A) EN 61326-1: 2013 (Table 2) EN IEC 63000:2018 (Category 9)

If the third digit of the serial number is "7", the product complies with Directive 2011/65/EU as amended by (EU) 2015/863.

(Pb,Cd,Cr6+,Hg,PBB,PBDE,DEHP,BBP,DBP,DIBP) If the third digit of the serial number is "6", the product complies with Directive 2011/65/EU.

(Pb,Cd,Cr6+,Hg,PBB,PBDE)

	Third digit
	SN 626000000
ANRITSU CORP.	

Serial number example

Contact	
Name:	Anritsu GmbH
Address, city:	Nemetschek Haus,
	Konrad-Zuse-Platz 1
	81829 München,
Country:	Germany

#### **UKCA Marking:**



Anritsu affixes the UKCA marking on the following products in accordance with the guidance to indicate that they conform to the EMC and RoHS regulations in the United Kingdom.

Product Model Model:

G0306C Video Inspection Probe

Applied Regulations EMC: RoHS:

S.I. 2016 No. 1091 S.I. 2012 No. 3032

Applied Standards

EMC: Emission: Immunity: RoHS:

#### EN 61326-1: 2013 (Class A) EN 61326-1: 2013 (Table 2) EN IEC 63000:2018 (Category 9)

#### Contact

Name: Address, city: Country: ANRITSU EMEA Ltd. 200 Capability Green, Luton

Bedfordshire, LU1 3LU

United Kingdom

#### **RCM Conformity Marking:**



Anritsu affixes the RCM mark on the following product in accordance with the regulation to indicate it conforms to the EMC framework of Australia/New Zealand.

Product Model Model:

G0306C Video Inspection Probe

#### Recycling:



After this product has served its purpose, it should be recycled according to local regulations. In the European Union, the WEEE (Waste Electronic and Electrical Equipment) Directive 2012/19/EU specifies that electronic waste be returned to a recycling center for dismantling and re-use of materials. Please contact your Anritsu representative for directions as to disposal of Anritsu products for your area.

#### Specifications

Item	Specification
Interface	USB 2.0 (Compatible USB 1.1)
Display Resolution	640*480
Resolution	< 1 µm
Field of View	0.365*0.273 μm
Focus Mode	Manual
Operating Voltage	$5 \pm 0.2 \text{ V}$
Operating Temperature	-10 to +50°C
Storage Temperature	-40 to +70°C
Dimensions	33 mm (W) x 44 mm (H) x 211 mm (D)
Mass	260 g
Cable Length	3 m

#### Accessories

Model	Name	Туре
H0382A	2.5PC-M	φ2.5 mm PC universal
H0383A	1.25PC-M	φ1.25 mm PC universal
H0384A	SC-PC-F	For SC connector (PC), bulkhead
H0395A	FC-APC-F	For FC connector (APC), bulkhead
H0386A	FC-PC-F	For FC connector (PC), bulkhead
H0387A	2.5APC-M	φ2.5 mm APC universal
H0388A	1.25APC-M	φ1.25 mm APC universal
H0389A	E2000-APC-M	For E2000 connector (APC), universal
H0390A	E2000-PC-F	For E2000 connector (PC), bulkhead
H0391A	E2000-PC-M	For E2000 connector (PC), universal
H0393A	LC-PC-F-L	For LC connector (PC), long bulkhead
H0394A	LC-APC-F-L	For LC connector (APC), long bulkhead
H0385A	LC-PC-F	For LC connector (PC), bulkhead
H0396A	ST-PC-F	For ST connector (PC), bulkhead
H0397A	MU-PC-F	For MU connector (PC), bulkhead
H0398A	SC-APC-F	For SC connector (APC), bulkhead
H0403A	60-LC-PC-F	For LC connector (PC), bulkhead

Anritsu Corporation 5-1-1 Onna, Atsugi-shi, Kanagawa, 243-8555, Japan

