

MT9082x8 ACCESS Master

Release Note

Version 3

I would like to thank you for your continuing business.

This release note explains the new functions of Anritsu's MT9082C8, MT9082B8 and MT9082A8 firmware version 4.10, as well as known faults and usage precautions.

***Note:**

- Firmware version 4.10 ONLY supports the MT9082C8, MT9082B8 and MT9082A8.
The MT9083x, MT9080x and MT9081x series CANNOT be upgraded using this software.

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1. Release Software

This upgrade contains the following MT9082x8 software.

Download File Name	Model Name	Version
MT9082x8 Download File	MX9082_v410_C.zip	4.10

2. Target Models

- MT9082C8
- MT9082B8
- MT9082A8

*Note:

- Firmware version 4.10 ONLY supports the MT9082C8, MT9082B8 and MT9082A8. The MT9083x, MT9080x and MT9081x series CANNOT be upgraded using this software.

3. Version Information

This table shows the firmware version. The version installed in the main frame can be confirmed at the self-diagnosis screen.

Product Name	Version
MT9082x8 Firmware Update File	4.10

4. New Features

The following main functions are added by upgrading the firmware to v4.10.

(OTDR features)

- Added “Very High Density” in sampling mode (100,001 pts).

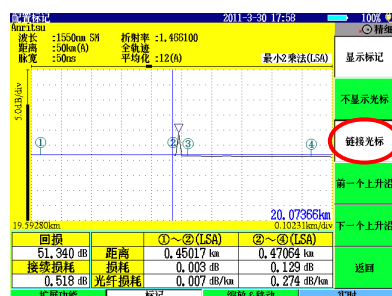
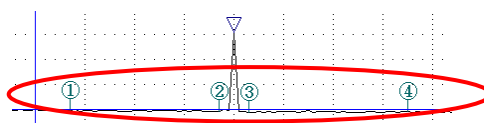
MT9082A8 and MT9082B8 are added “Very High Density” in the Sampling mode when selected the distance range to 100km or 200km. When you set the sampling mode “Very High Density”, then number of sampling point is 100,001pts, and sampling resolutions are 1m at 100km range and 2m at 200km range.

	Low Density		High Density		Very High Density	
	Resolution	Sampling pts	Resolution	Sampling pts	Resolution	Sampling pts
0.5 km	0.1 m	5,001 pts	N/A		N/A	
1 km	0.2 m	5,001 pts	0.05 m	20,001 pts	N/A	
2.5 km	0.5 m	5,001 pts	0.1 m	25,001 pts	N/A	
5 km	1 m	5,001 pts	0.2 m	25,001 pts	N/A	
10 km	2 m	5,001 pts	0.5 m	20,001 pts	N/A	
25 km	5 m	5,001 pts	1 m	25,001 pts	N/A	
50 km	10 m	5,001 pts	2 m	25,001 pts	N/A	
100 km	20 m	5,001 pts	5 m	20,001 pts	1 m	100,001 pts
200 km	40 m	5,001 pts	10 m	20,001 pts	2 m	100,001 pts
300* km	60 m	5,001 pts	15 m	20,001 pts	2 m	100,001 Pts

*MT9082C8 only

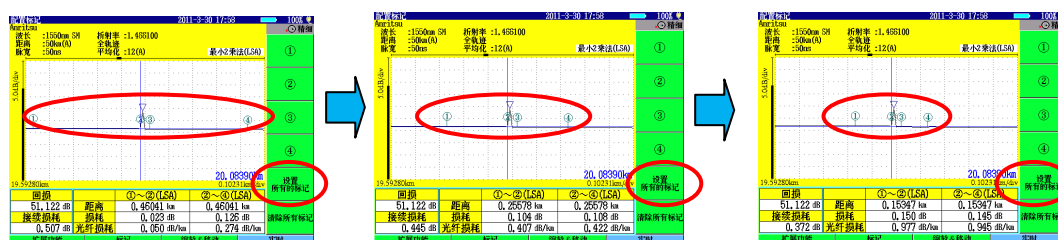
- Added “Cursor Link” for the Marker select menu

Four markers are moved simultaneously when set the marker at Standard OTDR screen to “Cursor Link”.

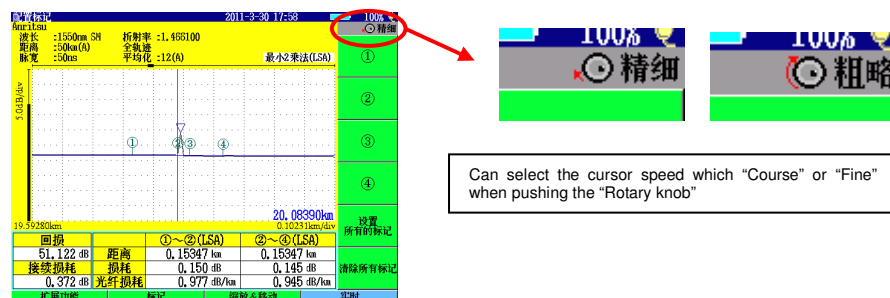


When moved a cursor then the other cursors are moved simultaneously with keeping the intervals

- Added “Place all Markers” for the Marker select menu
All markers (#1 to #4) are placed automatically when use “Place all Markers function” as below conditions.
#2 marker: On the cursor position
#3 marker: On the down edge of the event
#1 and #4 markers: On the same distance apart from #2 marker position
After set markers, #1 and #4 markers will be moved to close positions of #2 when push “Place all Marker position” key to adjust positions.

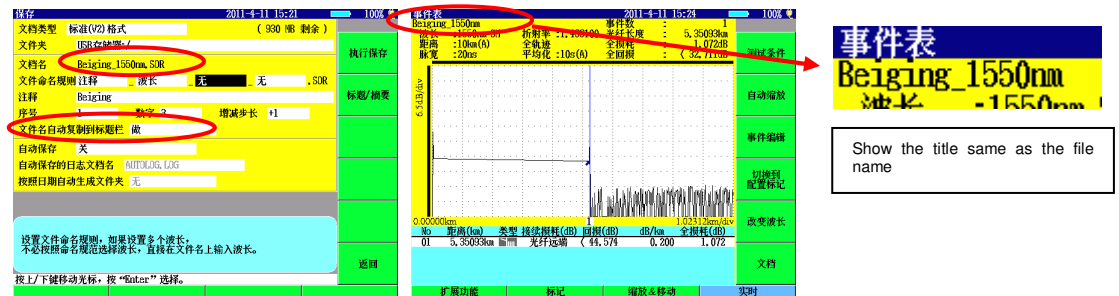


- Added cursor moving speed selection (“Coarse” and “Fine”)
When using the rotary encoder, that can be selected the cursor speed which “Course” or “fine” pushing knob.



- Added Link of the titles and the file names

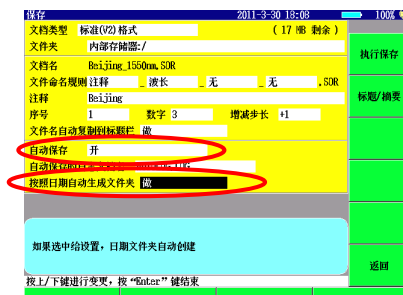
MT9082x8 is shown the measurement titles on OTDR features, that title is linked with the file name of measurement data (.sor file).



- Added auto generate the folder feature that named measurement date

When stored files then the folder is automatically generated that folder named measurement date.

After finished first measurement and store the file automatically, MT9082x8 is generated the folder that named date. From 2nd measurement data will be stored same folder automatically.



- Disable to show the Return loss and the Connection loss

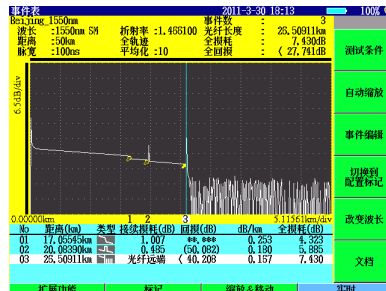
When using #1 - #2 and #3 - #4 markers to measure the distance and the losses at Standard OTDR screen, that's disable to show both "Return Loss" and "Connection Loss".

It's available to show "Return Loss" and "Connection Loss" when using #1 - #2 and #2 - #4 markers.

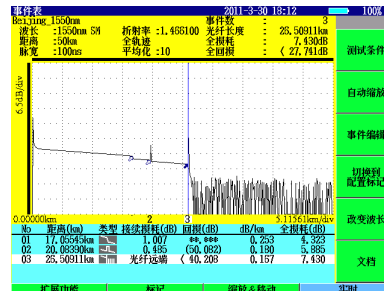
(General and the others features)

- Added “Black back-ground” for trace screen

New color of the back-ground of trace screen that black or white are selectable.



Back ground (Black)



Back ground (White)

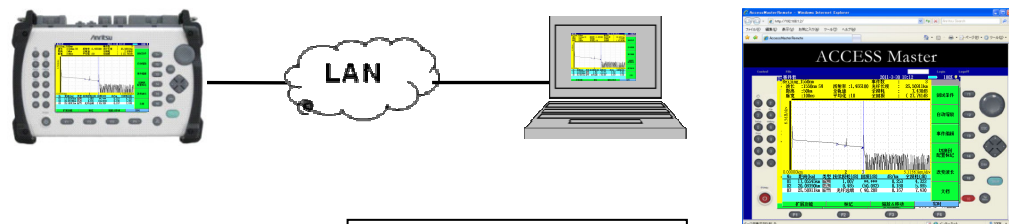
- Added Remote GUI function

MT9082x8 series can be operated PC via LAN (Ethernet network) without any additional software installed.

A PC is shown OTDR screen and can operate them using a mouse on PC.

You can operate far end MT9082x8 easily.

This function is required to use “USB-Ethernet Converter (J1480A)”, it's needed to connect USB Port A on MT9082x8 series.



PC is shown same screen of MT9082x8,
and can operate it similar operations

[Functions added by firmware version 4.06, 4.07]

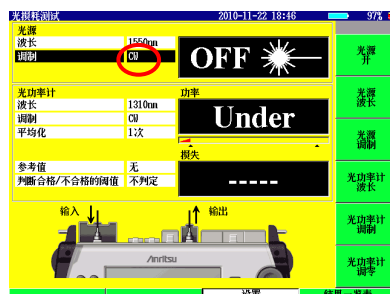
No functions have been added by firmware version both 4.06 and 4.07.

[Functions added by firmware version 4.05]

The following main functions are added by upgrading the firmware version to 4.05.

(Added functions and changes of optical pulse test solution operation)

- Added remote control function to MT9082B and MT9082A.
The remote control function used with the MT9082C has been added to the MT9082B and MT9082A. Connection to a PC using a USB cable supports measurement condition setting and measurement execution from the PC.
- Changed modulation signal output setting specification.
Now, the default modulation output setting at the “optical loss measurement” and “light source” menus at power-on is “CW”.
* The previous version returns the last modulation setting at the next power-on.



“CW” set as default at power-on

[Functions added by firmware version 4.04]

No functions have been added by firmware version 4.04.

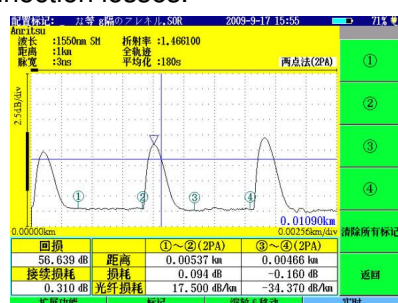
[Functions added by firmware version 4.03]

The following main functions are added by upgrading the firmware version to 4.03.

(Added functions and changes of optical pulse test solution operation)

- Added level cursor display function.

In addition to the conventional vertical axis distance display cursor, this new firmware adds a horizontal axis level cursor. It is useful for visual confirmation of connection losses.



Distance display and level display cursor

- Added internal averaging time (multiplier) display function

This new firmware adds a function to display the internal averaging time (multiplier) when the number of averagings is set when setting measurement conditions. It is calculated based on averaging time, pulse width, and distance range setting. (The internal averaging time cannot be set itself.)



平均化
16 次
1 - 9999 (次)
内部平均化次数 2^16

Internal averaging time display screen

- Improved automatic measurement accuracy of reflection attenuation at placement method display

This new firmware improves the automatic calculation of reflection attenuation when placing the marker near the rising Fresnel reflection at the placement method display.

5. Resolved Software Issues

Model Name	Description
MT9082A8/B8/C8 (V4.05)	➤ Fixed bug causing attempt to copy non-displayed analysis results (distance range, loss, transmission loss, etc.) of marker placement screen when hard copying (JPG, BMP, PNG) measurement screen (CM1992-0228)
MT9082A8/B8/C8 (V4.05)	➤ Fixed bug causing attempted shutdown of main unit 1 minute after high battery temperature alarm (45°C) generated irrespective of internal temperature range and changed high battery temperature alarm display reference temperature to 55°C (CM1992-0229)
MT9082A8/B8/C8 (ver.4.04)	➤ Fixed bug causing freeze at reboot after power-off when fiberscope screen displayed.

6. Known Problems

Firmware version 4.05 for the MT9082x8 contains the following known problems:

Model Name	Description
MT9082A8/B8/C8	➤ None

7. Cautions

Read the following terms and conditions carefully before using the MT9082x8.

Model Name	Description
MT9082A8/B8/C8	<ul style="list-style-type: none">➤ Some commercially available USB memory may not be supported. Refer to Section 8. Upgrade Precautions for details of USB memory supported by Anritsu.➤ BEFORE upgrading the firmware, ALWAYS read the MT9082x8 Series ACCESS Master Firmware Upgrade Procedure.

8. Upgrade Precautions

Download the newest firmware from the following URL.

➤ <https://www1.anritsu.co.jp/Download/MService/Login.asp>

However, site user registration is required first to obtain a Login ID and set a password.

Anritsu has confirmed compatibility with USB memory from the makers listed in the following table. If your USB memory is not recognized by the MT9082x8, please purchase one of the supported media types.

Manufacturer	Model/capacity
Biocryptodisk	ISPX/4GB
Sony	POCKET BIT/32MB
Sony	POCKET BIT 512MB Turbo
GREEN HOUSE	PicoDrive/64 MB
TOSHIBA	TransMemory/256 MB
TOSHIBA	TransMemory/512 MB
ADTEC	DATASTICK/64 MB
Princeton	X i a o Jr./64 MB
BUFFALO	RUF2 - E1G - B/512MB
I-O DATA	ToteBag/512MB
Scan Disk	Cruzer Micro with Skins USB Flash Drive/256MB
imation	Flash Drive Mini with swivel cap/256MB
Transcend	JetFlash/256MB
Sony	POCKET BIT/8GB USM8GJ-B
I-O DATA	ToteBag/4GB TB-AT4G/B
BUFFALO	RUF2-J4GS-BK

- NEVER remove the USB memory inserted into the MT9082x8 while updating, otherwise the firmware update will fail, leaving the MT9082x8 unable to restart.
- When updating the firmware, do not press any key on the MT9082x8, otherwise the firmware update may fail, leaving the MT9082x8 unable to restart.
- When updating the firmware, do not turn off the power to the MT9082x8, otherwise the firmware update will fail, leaving the MT9082x8 unable to restart.
- When updating the firmware, do not remove the AC adapter plug from the MT9082x8, otherwise the firmware update may fail, leaving the MT9082x8 unable to restart.

If the firmware update fails and the MT9082x8 cannot restart, please contact our Anritsu sales representative.