MD1230 Family Upgrade Manual

(Ver. 5.0 - 8.0)

Anritsu Corporation

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1. Introduction

The MD1230 family software supports the following platforms and application software.

Supported Platforms

Model	Name
MD1230A	Data Quality Analyzer
MD1230B	Data Quality Analyzer
MD1231A	IP Network Analyzer
MD1231A1	IP Network Analyzer
MT7407A	Multislot Chassis
MX123001A	Data Quality Analyzer Control Software

This document explains how to install the MD1230 family software version 5.0 - 8.0. Refer to the release notes for the changes from the previous version and refer to the manual for function explanations.

The installation/upgrade procedure varies according to the platform as follows:

- Read "MD1230A/30B/31A/31A1 Upgrade " for the MD1230A/30B/31A/31A1.
- Read "MX123001A Upgrade" for the MX123001A.
- Read "MT7407A Upgrade " for the MT7407A.

Read "About Sniffer Technologies Option (Decode Module)" when using these options.

Read " Version Downgrading and uninstalling" when downgrading the software version for some reason.

2. MD1230A/30B/31A/31A1 Upgrade

This section explains how to upgrade the software of the MD1230A, MD1230B, MD1231A, main and MD1231A1 main units to version 5.0 - 8.0. Check the firmware update and normal operation after the update by following the instructions in "Checking Installation."

2.1. Required Items

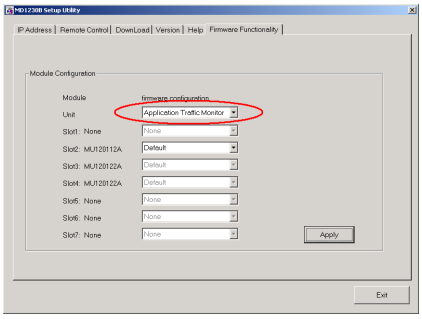
The following items are required to perform the installation.

Item	Explanation
MD1230/MP1590 Family Control Software CD-ROM	This contains the installer, release notes, and this upgrade manual.
Product Key	This 24-digit key on the CD-ROM label must be input to install the software.
MD1230A/30B/31A/31A1	This is the platform to be upgraded.
Mouse and keyboard	These are connected to the MD1230A/30B/31A/31A1 main unit for input of the product key and running the software installer, etc.
PC with CD-ROM drive	This is needed to copy the installer from the CDROM to the hard disk of the main unit. Refer to "Copying Installer" for details.

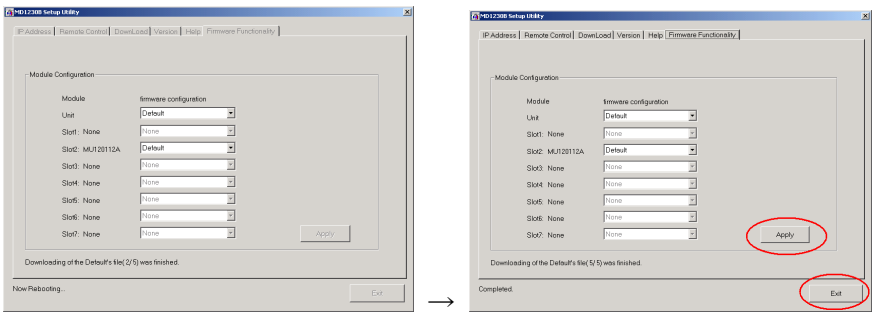
2.2. Changing the firmware functionality

The main unit should be set to the Default mode before the upgrade as follows:

1. Choose Setup Utility at the Selection screen, and click the Firmware Functionality tab. Change the Unit field to "Default" and click the [Apply] button. (If the setting is already "Default", this step is unnecessary.)



2. The switch to the Default mode takes a few minutes. When the switchover processing ends, the [Apply] and [Exit] buttons become enabled.



2.3. Copying Installer

Copy the installer on the CD-ROM to a suitable place (such as the desktop) on the hard disk in the MD1230A/30B/31A/31A1 main unit.

Mainframe	Installer file name
MD1230A, MD1231A, MD1231A1	MD1230A_31A_31A1-X.XX.XX.exe
MD1230B	MD1230B-X.XX.XX.exe

Windows 98 is built into the MD1230A/31A/31A1, and Windows XP is built into the MD1230B, and a USB I/F and Ethernet I/F are installed. Therefore, the file can also be copied and transferred via a USB memory stick or over a network.

Notes:

1. If USB memory is used with the MD1230A/31A/31A1, a USB driver must be installed first.

2. There is no FDD in the MD1231A/31A1, so the USB driver must be installed over a network.

Transfer the file over a network as follows:

1. Share a folder on the hard disk of MD1230A/30B/31A/31A1.
2. Set the MD1230A/30B/31A/31A1 network connection
   - Right-click the "Neighborhood Network " icon to open properties.
   - Click the "Identification" tab and set "Workgroup" as the network.
   - Click the "Configuration" tab, choose TCP/IP and click the "Properties" button.

- Click "IP Address" and set the IP address and subnet mask. For example, if the PC IP address is 192.168.0.1 and the subnet mask is 255.255.255.0, set the MD1230A/30B/31A/31A1 IP address to 192.168.0.10 and the net mask to 255.255.255.0.

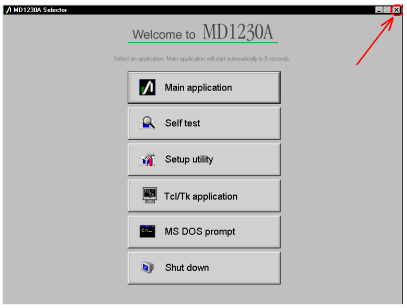
3. Connect the PC and MD1230A/30B/31A/31A1 by Ethernet cable.
4. At the PC, click "My Network" and connect to the shared folder on the MD1230A/30B/31A/31A1.
5. Move the required files from the PC to the MD1230A/30B/31A/31A1.

Note: When the file transfer is completed, reset the IP address that was changed to make the network connection for file transfer.

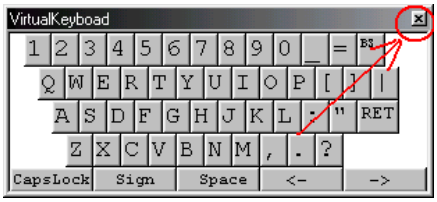
2.4. Installation

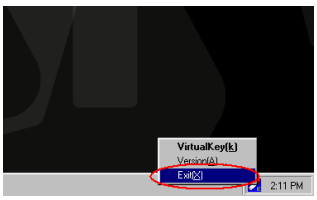
Run installer copied to the hard disk to install the version 5.0 - 8.0 software.

1. Quit all other Windows applications.
   - Close the Selector screen, by clicking the [X] button at the top right of the screen.



   - Close the MD1231A/31A1 virtual keyboard by clicking the [X] button at the top right of the screen. Select the icon in the Windows system tray and right-click Exit.





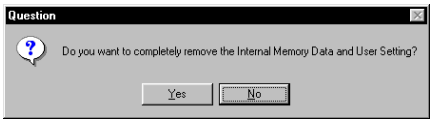
If the version 4.x or earlier software has already been installed, please see 7. (the

previous version is automatically deleted.)

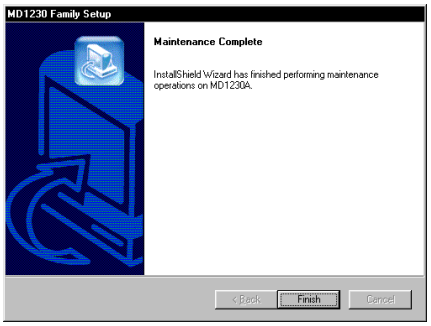
2. Copy the installer to the hard disk as described above and start the uninstaller.
3. Click the [OK] button when the dialog enquiring about proceeding with uninstallation is displayed.



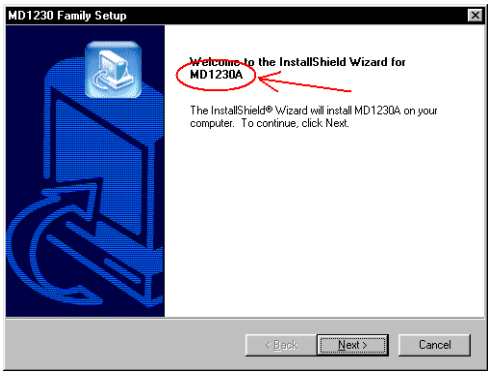
4. Click [No] when wanting to save the settings and measurements in internal memory. Click [Yes] to clear all settings data and measurement results.



5. Click the [No] button when the dialog enquiring about deleting the Read Only file is displayed.
6. The following screen is displayed when the uninstallation is finished. Click the [Finish] button to complete the uninstallation.

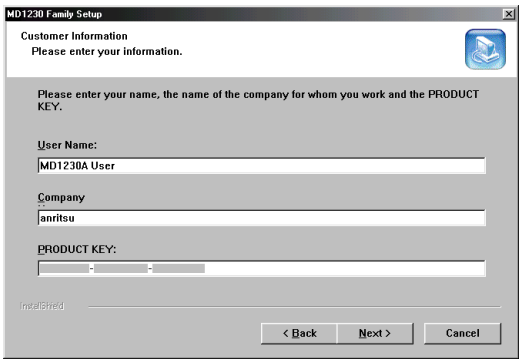


7. Run the installer to display the following screen. Confirm that the displayed model is the same as the model to be upgraded and then start installation by clicking the [Next] button.



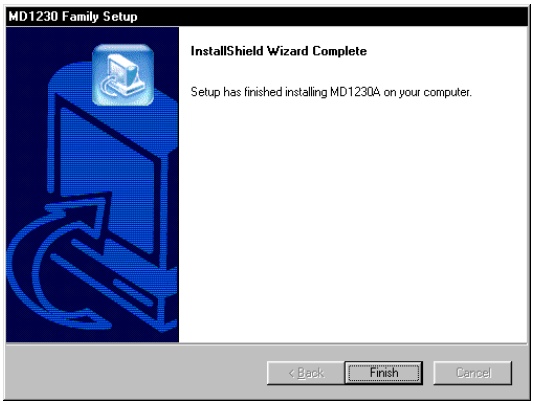
Note: When the uninstallation is executed immediately before, wait for about 10 seconds from completion of uninstallation to restart of the installer.

8. Input the name of the company and 24-digit product key (including hyphens (-) from the CD-ROM. Click the [Next] key.



Note: The product key is tied to the serial number of the main unit and cannot be used with another main unit. Make sure to use the CD-ROM provided with the main unit.

9. The following screen is displayed when the installation is completed. Finish the installation by clicking the [Finish] button.



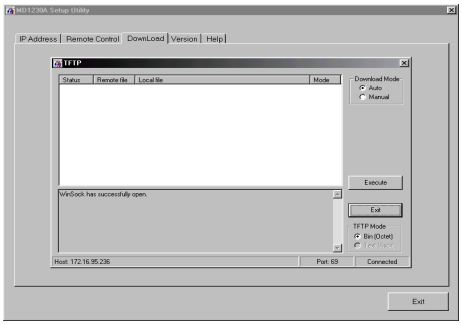
2.5. Updating Firmware

After installing the software as described above, update the firmware as follows:

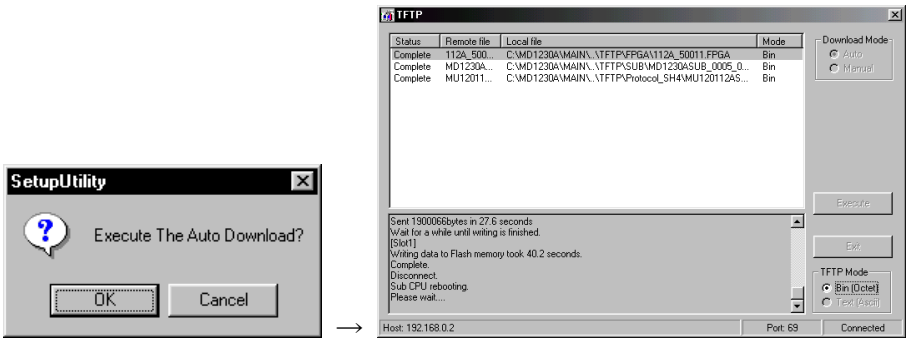
Note: Run the firmware update before inserting an additional interface module. If the interface module is inserted before the firmware update, the update process might not complete normally.

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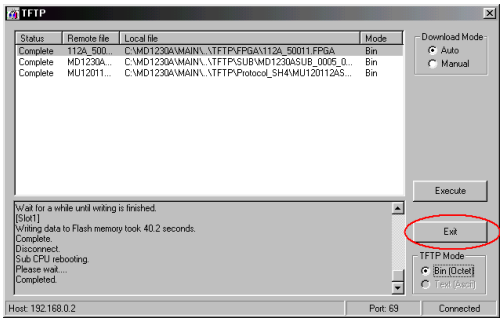
1. Start the Setup Utility, and click the [Download...] button of the Download tab to display the firmware update screen.



2. Click the [Execute] button. Click the [OK] button at the dialog screen enquiring whether the Auto Download should be executed. The list of updated files is displayed as the firmware is updated.



3. The firmware update requires about 2 to 15 minutes per file. When updating is completed, the [Exit] button becomes enabled as shown below.



Note: The firmware is not updated if there is no firmware needing to be updated. (Nothing is displayed in the list.)

4. Confirm that the firmware update completed normally as described in the "Confirming Installation" below.

2.6. Setting Application Monitor Option

Note: If the application traffic monitor (option) is not used, this procedure is not necessary.

When the application traffic monitor option was used with an earlier version than version 5.0, the option information must be set again as follows:

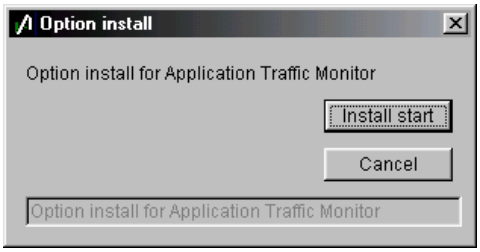
Notes:

1. If this procedure is not done after the firmware upgrade, the application traffic monitor option cannot be used.

2. Execute this procedure after updating the firmware as described

above. The option cannot be reset if this procedure is not executed after the firmware update.

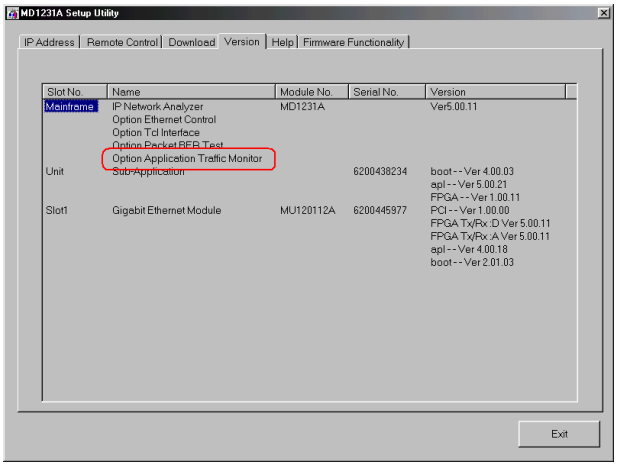
1. Quit all applications.
2. Run Setup.exe in the "ETC" -> "for Application Traffic Monitor" folder to display the Option install screen shown below.



3. Click the [Install start] button to reset the option information. Completion of this processing requires several minutes. When the following dialog screen is displayed when processing is completed, click the [OK] button to complete the resetting.



4. Confirm that the option setting process completed normally by selecting Setup Utility at the Selector screen and clicking the Version tab. Processing completed normally if "Option Application Traffic Monitor" is displayed as shown below.



3. MX123001A Upgrade

This section explains how to upgrade the software of the MX123001A (control software) to version 5.0 - 8.0. Check the firmware update and normal operation after the update by following the instructions in "Checking Installation."

3.1. Required Items

The following items are required to perform the installation.

Item	Explanation
MD1230/MP1590 Family Control Software CD-ROM	This contains the installer, release notes, and this upgrade manual.
Product Key	This 24-digit key on the CD-ROM label must be input to install the software.
PC	This is needed to copy the installer from the CDROM to the hard disk of the main unit. Refer to "Copying Installer" for details.

3.2. Installation

1. Copy the installer on the CD-ROM to a suitable place on the hard disk in the PC.

Mainframe	Installer file name
MD1230A, MD1231A, MD1231A1	MD1230A_31A_31A1-X.XX.XX.exe
MD1230B	MD1230B-X.XX.XX.exe

2. Quit all other Windows applications.

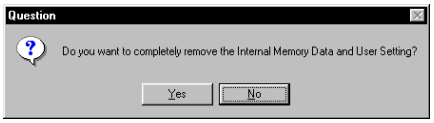
If first installation of this software or the version 4.x or earlier software has already been installed, please see 8.

3. Run the installer and start the uninstaller.
4. Click the [OK] button when the dialog enquiring about proceeding with uninstallation is displayed.

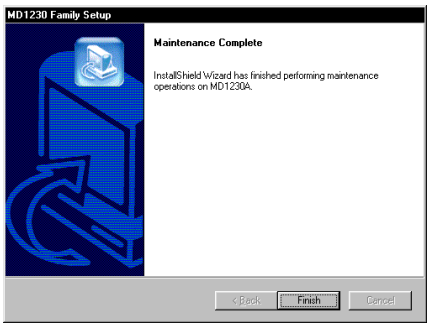


5. Click [No] when wanting to save the settings and measurements in internal

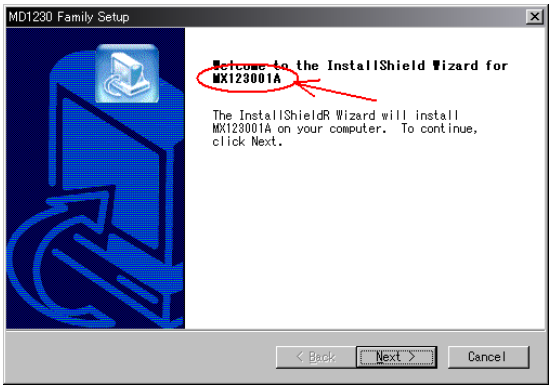
memory. Click [Yes] to clear all settings data and measurement results.



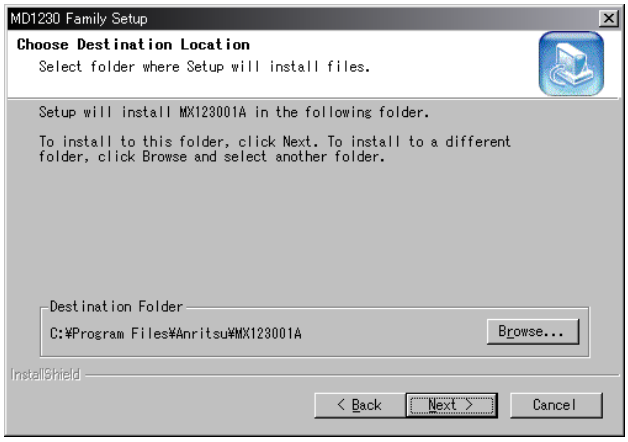
6. Click the [No] button when the dialog enquiring about deleting the Read Only file is displayed.
7. The following screen is displayed when the uninstallation is finished. Click the [Finish] button to complete the uninstallation.



8. Run the installer copied to the hard disk to display the following screen. Confirm that "MX123001A" is displayed model and then start installation by clicking the [Next] button.

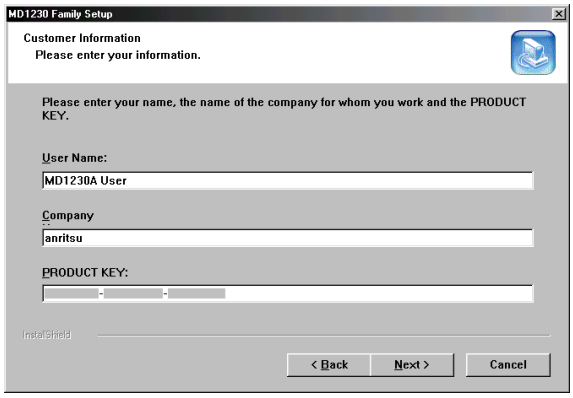


9. Click the [Next] button at the dialog to confirm the installation destination.



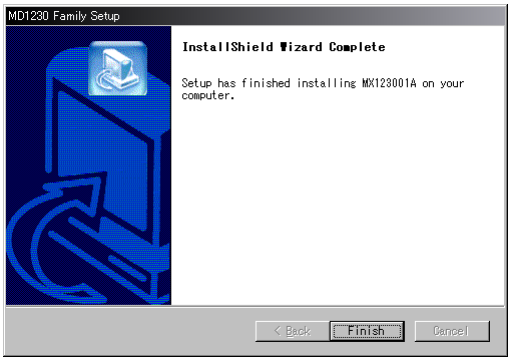
Note: The default installation is:
C:¥Program Files¥Anritsu¥MX123001A
Specify the folder where the MX123001A was last installed.

10. Input the name of the company and 24-digit product key (including hyphens (-) from the CD-ROM. Click the [Next] key.



Note: Use the product key provided when the software was purchased. It is different from when installing in the main unit. The product key is not updated for each version.

11. The following screen is displayed when the installation is completed. Finish the installation by clicking the [Finish] button.



12. Confirm that the firmware update completed normally as described in the "Confirming Installation" below.

Note: Perform the following when wanting to use settings and measurement saved in internal memory when using software earlier than version 3.1 prior to the firmware update.

・ Copy the Internal Memory folder (*) in the directory where the former MX123001A version was installed.

・ Paste the copied Internal Memory folder into the Main folder of the newly installed MX123001A software.

*The default path is C:¥Program Files¥Anritsu¥MX123001A.

4. MT7407A Upgrade

This section explains how to upgrade the software of the MT7407A main unit. Check the firmware update and normal operation after the update by following the instructions in "Checking Installation."

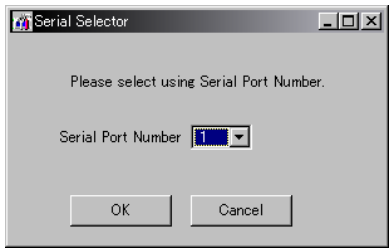
4.1. The requirement of the setup

The following one is prepared before setup.

Item	Explanation
MD1230/MP1590 Family Control Software CD-ROM	This contains the installer, release notes, and this upgrade manual.
Product Key	This 24-digit key on the CD-ROM label must be input to install the software.
MT7407A and Control PC	This is the PC for controlling the main unit and the main unit. The PC must have a CD-ROM drive to copy the installer from the CDROM to the hard disk of the main unit.
Ethernet cable and RS-232C cross cable	Connect MT7407A and PC. Ethernet cable use to control MT7407A. RS-232C cross cable use to update firmware.

4.2. Installation

1. Install the software (MX123001A) onto the PC controlling the MT7407A. Refer to "MX123001A Upgrade " described above for the procedure.
2. Connect the PC and MT7407A using an Ethernet cable.
3. Connect the PC and MU740701A (MT7407A control module) using an RS-232C crossover cable.
4. Switch on the power to the MT7407A and wait until startup is completed (confirmed by Ready LED).
5. Start Serial Selector at MX123001A under Programs of the Windows Start menu to display the following screens. Specify the number of the COM port where the RS-232C cable is connected here.

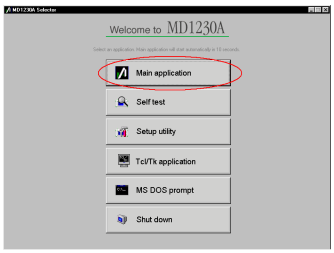


6. Start the MX123001A Setup Utility under Programs of the Windows Start menu to update the firmware. Refer to the "Updating Firmware" described above for details of the procedure.
7. Confirm that the firmware update completed normally as described in the "Confirming Installation" below.

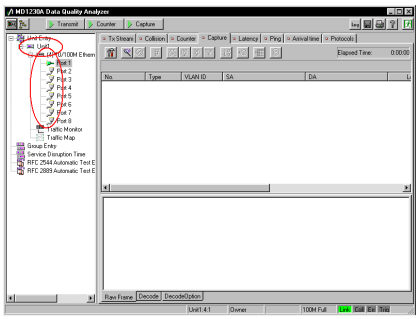
5. Confirming Installation

This section explains how to confirm that the software installation and firmware update completed normally.

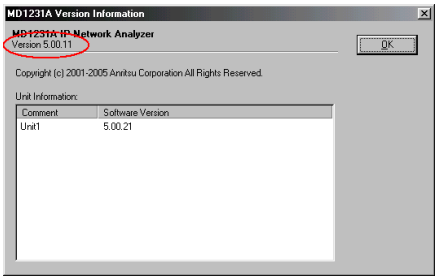
1. Click [Main application] at the Selector screen.



2. The main application starts, and connection to the Unit is performed. (The icon of the inserted interface module is displayed under the Unit icon). If connection is not performed, execute the "Connecting to Unit" procedure described later. Moreover, if a dialog is displayed at connection, refer to "Installation Problem" described below.



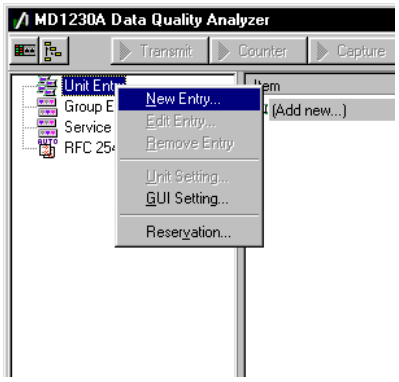
3. Click the [?] button on the right of the Main application screen to open the MD1231A Version Information screen. When the value displayed on the left of the screen is same as software version installed, the installation was completed normally.

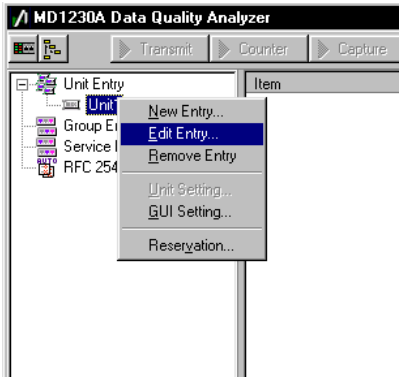


5.1. Connecting to Unit

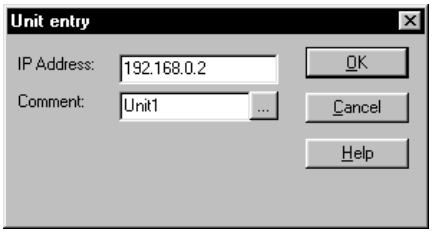
Connects to the unit as follows:

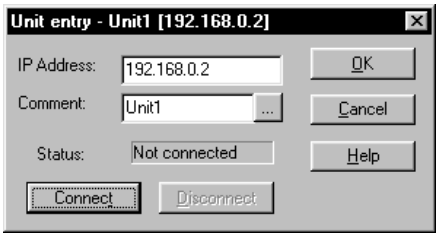
1. If the Unit icon is not displayed Unit Entry, right-click Unit Entry and select "New Entry." When the Unit icon is displayed, right-clicks the icon and select "Edit Entry."





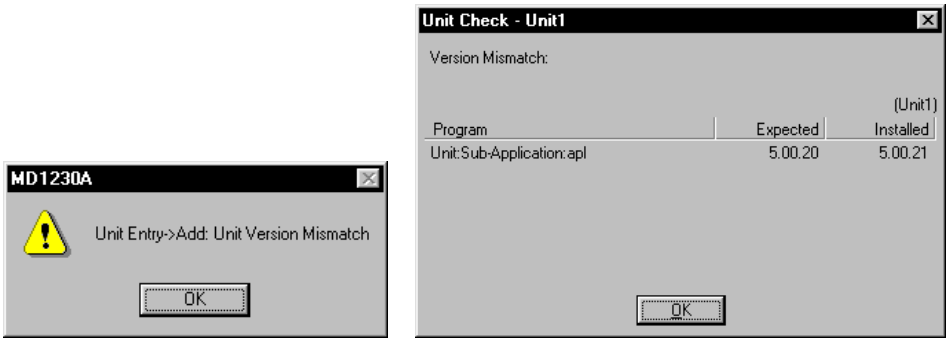
2. When New Entry is selected, input the IP address of the Unit and click the OK button. When "Edit Entry" is selected, click the [Connect] button is pushed. The Unit IP address Internet can be confirmed at the IP Address tab of Setup Utility.





5.2. Installation Problem

When connecting to with Unit, the following dialogs are displayed if there is a problem at installation. Moreover, when OK is clicked at this dialog, an X symbol is displayed at the tree icon. (If it is normal, the  is displayed; if it abnormal, the  icon is displayed.).



This indicates that a mismatch occurred between the versions when performing the Version Check for connecting to the Unit. The Version Check confirms whether the various firmware versions installed in the main unit match the installed Windows application.

"Program" in the dialog indicates the name of the mismatched version information, "Installed" indicates the name of the actually installed program and "Expected" indicates the version of the expected program.

Caution: If this occurs, refer to "Updating Firmware" and check the execution of the firmware update.

6. Version Downgrading and Uninstalling

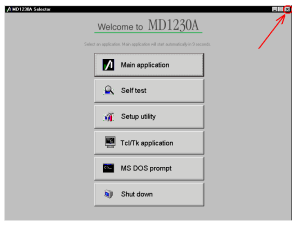
To return to an earlier firmware version than version 5.0, it is necessary to uninstall the version 5.0 - 8.0software and then install the version downgrade software. This section describes the procedure for uninstalling software version 5.0 - 8.0 for the MD1230 family.

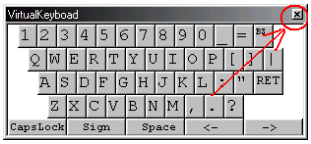
Caution: For the reinstallation procedure after uninstalling version 5.0 - 8.0, refer to the MD1230 Family Upgrading Manual (Ver. 1.0 - 4.2) (Readme_v4.2_eng.pdf) of "ETC" folder.

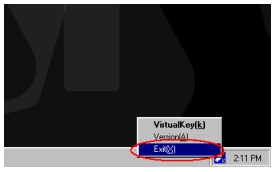
6.1. Uninstallation

Uninstall as follows:

1. Quit all Windows applications.
   - Close the Selector screen, by clicking the [X] button at the top right of the screen.
   - Close the MD1231A/31A1 virtual keyboard by clicking the [X] button at the top right of the screen. Select the  icon in the Windows system tray and right-click Exit.





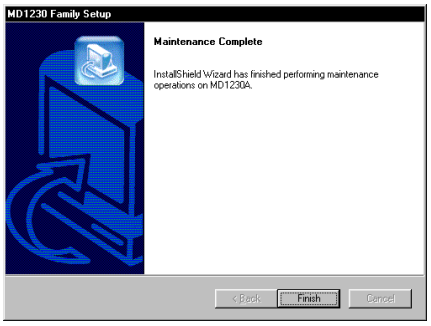


2. Copy the installer to the hard disk as described above and start the uninstaller.
3. Click the [OK] button when the dialog enquiring about proceeding with uninstallation is displayed.
4. Click [No] when wanting to save the MD1230A settings and measurements in internal memory. Click [Yes] to clear all settings data and measurement results.



5. Click the [No] button when the dialog enquiring about deleting the Read Only file is displayed.

6. The following screen is displayed when the uninstallation is finished. Click the [Finish] button to complete the uninstallation.



7. About Sniffer Technologies Option (Decode Module)

Customer using previous-version decode modules (MD1230A/30B/31A/31A1-04, MU740701A-04, MX123001A-01) before version 5.0 must read the following notes.

Notes: Please refer to the attachment for how to install for each decode and expert analysis module.

After reinstalling the decode module, copy (overwrite) the SniffIt2.dll in the ETC¥DecodeModule folder on the upgrade CD-ROM into the Main folder at the MD1230 family software installation path (*). If this procedure is not done, the capture function cannot be used and an error message is displayed at the capture results.

*:C:¥md1230a¥Main for MX123001A (default) and

C:¥ProgramFiles¥Anritsu¥ for MX123001A and MD1230A/30B/31A/31A1

8. Q&A

Q. The firmware update (download) did not complete and Unit cannot be registered in the main application. What happened?

A. Maybe the IP address (Windows/Unit) is incorrect. Start the Setup Utility and click the IP Address tab. If the settings are not as follows, change the settings.

Windows

IP Address: 192.168.0.1

Netmask: 255.255.255.0

Gateway: 0.0.0.0

Unit

IP Address: 192.168.0.2

Netmask: 255.255.255.0

Gateway: 0.0.0.0

Q. How do I read settings and results data saved by the previous version?

A. This can be done using the Setup File Converter. See the manual for use of the Setup File Converter.

Q. At Unit connection, icons such as Unit becomes X. Why?

A. Refer to the "Installation Problem" section.

Q. Why can’t we uninstall the software?

A. This problem happens when the folder {B900EDE1-7F98-11D5-9604-00004CA31724} remains in the Windows registry. Use the registry editor (regedit) started from "Run" under the Windows Start menu to delete the following key if it is found:
¥¥HKEY_LOCAL_MACHINE¥Software¥Microsoft¥Windows¥CurrentVersion¥Uninstall¥{B900EDE1-7F98-11D5-9604-00004CA31724}