MX900021A
Remote Screen Software
Operation Manual

Second Edition

- For safety and warning information, please read this manual before attempting to use the equipment.
- Additional safety and warning information is provided within the MT9083 Series ACCESS Master Operation Manual. Please also refer to this document before using the equipment.
- Keep this manual with the equipment.

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This indicates a very dangerous procedure that could result in serious injury or death if not performed properly.

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- Network connections
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About This Manual

By connecting a personal computer to a projector, etc., the screens displayed to the MT9083A/B/C or MT9083A2/B2/C2 can be shown and the operation of the GUI, etc., can be explained to multiple persons.
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This chapter provides an overview and describes the configuration and specifications of this software. The screenshots used in this manual assumes the use of MT9083A/B/C.

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Chapter 1 Outline

1.1 Introduction

The MX900021A screen display software is software to display the MT9083 Series ACCESS Master screens to a personal computer via USB.

![Figure 1.1-1 Use Example](Image)

This software operates on the English versions of Windows XP and Windows 7 (32 bit).

The following things can be done by using this software.

- Saving waveform screen data on a Windows screen
- Remote monitoring using the remote desktop function

![Figure 1.1-2 Example of Remote Monitoring Using Remote Desktop](Image)
1.2 Product Configuration

The product configuration is shown below. This product is included in the CD-ROM provided as standard with MT9083A/B/C ACCESS Master.

<table>
<thead>
<tr>
<th>Model/Ordering Number</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>MX900021A</td>
<td>Remote Screen Software</td>
</tr>
<tr>
<td>W3327AE</td>
<td>MX900021A Remote Screen Software Operation Manual</td>
</tr>
</tbody>
</table>

The MX90021A folder is on the CD-ROM and contains the following folders and files.

MX900021A
  Exe
    MX900021A Remote Screen Software.exe
    usbcom.dll
  Driver
    libusb0.dll
    libusb0.inf
    libusb0.sys
1.3 Specifications

The operating environment of and restrictions on this software are described below.

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compatible OS</td>
<td>Microsoft Windows XP Professional Service Pack 2 (SP2) or later, English version</td>
</tr>
<tr>
<td></td>
<td>Microsoft Windows 7 (32 bit) Professional Service Pack 1 (SP1) or later, English version</td>
</tr>
<tr>
<td>Screen Resolution</td>
<td>800 × 600 or higher</td>
</tr>
<tr>
<td>Interface</td>
<td>USB 1.1 or 2.0</td>
</tr>
<tr>
<td>Free hard disk space</td>
<td>15 MB or more</td>
</tr>
<tr>
<td>MT9083A/B/C software version</td>
<td>5.20 or later</td>
</tr>
<tr>
<td>MT9083A2/B2/C2 software version</td>
<td>1.00 or later</td>
</tr>
</tbody>
</table>

Restrictions:

- Only one ACCESS Master unit can communicate with this software.
- This software does not have screen capture and print functions.
- ACCESS Master cannot be operated from the screens of this software.
This chapter explains how to install and uninstall this software. The screenshots used in this manual assumes the use of MT9083A/B/C.

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2.1 Preparation

Required Environments

The following is required to install this software.

- ACCESS Master
- MT9083A/B/C whose firmware version is 5.20 or higher
  Or
  MT9083A2/B2/C2 whose firmware version is 1.00 or higher
- USB cable (USB cable with A-B plugs for peripheral equipment connection)

Note:

When installing the USB driver on the PC, administrator authority is required.

Installation Procedure

The installation procedure consists of the following sequence of steps. Since communication with ACCESS Master is done during the installation of the USB driver, switch ACCESS Master to the screen USB Video output mode prior to installation.

1. Switch ACCESS Master to screen output mode
2. Installing USB Driver
3. Registration to Start menu

Switch ACCESS Master to screen output mode

1. Turn on the power of ACCESS Master.
   Press the 5 key on the top menu. Then press the f6 key to display About. Check that the firmware version is 5.20 or higher.
   If the firmware version is lower than 5.20, obtain the latest firmware from the Anritsu website.
   https://www1.anritsu.co.jp/Download/MService/Login.asp
   For the firmware version upgrade method, refer to Chapter 3 “General Operation/System Setups” in the MT9083 Series ACCESS Master Operation Manual.
3. Press the 5 key on the top menu to display the General settings.
4. Set USB Video Output to On.
5. Turn off the power of ACCESS Master.
2.1 Preparation

Installing Software

Figure 2.1-1  General Settings Screen of MT9083A/B/C

**Note:**

When **USB Video Output** is set to **On**, access from the PC to the internal memory of ACCESS Master is not possible.
2.2 Installing USB Driver (Windows XP)

This section explains the method of installing the USB driver. The use of Windows 7 is assumed.

1. Copy the MX900021A folder on the CD-ROM to the PC.
2. Turn on the power of the ACCESS Master and the PC, and connect them with a USB cable.
   The ACCESS Master should be placed in the screen output mode in advance, referring to section 2.1.
3. When the cable is connected in the above conditions, the Found New Hardware Wizard screen appears.
4. Select No, Don't Connect and click Next.
   Note: Depending on the Windows XP version, the above screen may not appear.
5. The wizard asks “What do you want the wizard to do?”

6. Select Install from a list or specific location (Advanced), and then click Next.
7. The Please choose your search and installation options page appears.
2.2 Installing USB Driver (Windows XP)

8. Select **Search for the best driver in these locations** and then select **Include this location in the search**. Specify the Driver folder located in the MX900021A folder saved in Step 1. (Click **Browse** and browse to the folder you saved on the PC.is clicked.)

9. Click **Next** to start the driver installation.

10. The installation has been successfully completed when the completion message is displayed. Press **Finish**.
2.3 Installing USB Driver (Windows 7)

This section explains the method to install the USB driver. The use of Windows 7 is assumed.

1. Copy the MX900021A folder on the CD-ROM to the PC.
2. Turn on the power of ACCESS Master and the PC, and connect them with a USB cable.
   Set ACCESS Master beforehand to the screen output mode, referring to section 2.1.
3. Click **Start menu** and click **Computer**.

4. Click **System properties**.
2.3 Installing USB Driver (Windows 7)

5. Click Device Manager.

6. Check that MT9080 COM is listed in the Device Manager.

7. Right-click MT9080 COM and select Update Driver Software....
8. Select **Browse my computer for driver software**.

![Image of Browse my computer for driver software]

9. Specify the Driver folder located in the MX900021A folder saved in Step 1. (The folder can be selected when **Browse** is pressed.)

![Image of Browse for driver software on your computer]

10. Click **Next** to start the driver installation.

11. Click **Install this driver software anyway** when Windows Security message is displayed.

![Image of Windows Security]

---

**Chapter 2  Installing Software**

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12. The installation has been successfully completed when the completion message is displayed. Click Close. (Restart the PC if requested.)

13. MT9080 COM is listed under LibUSB-Win32 Devices.
2.4 Registration to Start Menu

Register the file copied in step 1 of section 2.2 to the Start menu of Windows.

1. From the Start menu of Windows, select Control Panel.
2. Double-click **Taskbar and Start Menu**.

3. Click the **Start Menu** tab.
4. Select classic **Start Menu** and click **Customize**.
2.4 Registration to Start Menu

Register the file copied in step 1 of section 2.2 to the Start menu of Windows.

4. Click **Add**.

5. Press the **Browse** button, and then select MX900021A Remote Screen Software.exe, which is in the MX900021A folder saved in step 1 of section 2.2.
5. Click **Next**.

![Select Program Folder](image)

6. Select the program folder and click **Next**.

![Select a Title for the Program](image)

7. Input the name to be displayed in the Start menu and then click **Finish**.

8. Check if the Start menu program has been registered.
2.5 Uninstalling Software

Uninstallation Procedure
The uninstallation procedure consists of the following sequence of steps. Since communication with ACCESS Master is done during the uninstallation of the USB driver, switch ACCESS Master to the screen output mode prior to uninstallation.

- Uninstalling USB Driver
- Deleting Start menu shortcut

USB Driver Uninstallation Procedure
1. Turn on the power of ACCESS Master and the PC, and connect them with a USB cable.
   Set ACCESS Master beforehand to the screen output mode, referring to section 2.1.
2. Click Control Panel from the Start menu of Windows.
3. Double-click System.
4. Click the Hardware tab.
5. Click Device Manager.

7. Right-click MT9080 COM and then click **Uninstall**.

8. The **Confirm Device Removal** dialog box is displayed, so click **OK**.
2.5 Uninstalling Software

9. Check if LibUSB-Win32 Devices has been uninstalled.
10. Close Device Manager, System Properties and other opened screens.
11. Disconnect the USB cable connected to the ACCESS Master.

Start menu shortcut deletion procedure
1. Right-click the shortcut in the Start menu that was registered in section 2.4.
2. Click Delete.
3. The file deletion confirmation dialog box is displayed, so click Yes.
Chapter 3  Connection and Use

This chapter explains how to connect ACCESS Master and use this software.
The screenshots used in this manual assumes the use of MT9083A/B/C.

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3.2  Using the Software .................................................. 3-4
3.3  Checking Version Information .................................. 3-6
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3.1 Before Use

3.1.1 Connecting ACCESS Master

Procedure

1. Turn on the power of ACCESS Master.
   Press the 5 key on the top menu. Then press the f6 key to display About. Check that the firmware version is 5.20 or higher.
   If the firmware version is lower than 5.20, obtain the latest firmware from the Anritsu website.
   https://www1.anritsu.co.jp/Download/MService/Login.asp
   For the firmware version upgrade method, refer to Chapter 3 “General Operation/System Setups” in the MT9083 Series ACCESS Master Operation Manual.
3. Press the 5 key on the top menu to display the General settings.
4. Set USB Video Output to On.
5. Turn off the power of ACCESS Master.
6. Connect ACCESS Master and the PC with a USB cable.

![Figure 3.1.1-1  General Settings Screen of ACCESS Master](image)

Note:
When USB Video Output is set to On, access from the PC to the internal memory of ACCESS Master is not possible.
3.1.2 Disconnecting ACCESS Master

Procedure
1. Exit from this software.
2. Disconnect the USB cable from the PC.

Note:
When USB Video Output is set to On and the USB cable is connected, the Safely Remove Hardware icon is not displayed on the PC.
3.2 Using the Software

Starting the software
1. Double click MX900021A Remote Screen Software.exe in the MX900021A folder copied in step 1 of section 2.2.
2. A screen is displayed.
   If an error is displayed, check the connection of the USB cable and the ACCESS Master settings.

Note:
Black banding will occur across the screen of the MT9083A/B/C during operation. This is due to image capture by the PC and is not a malfunction.

Pausing the display
1. Click the display to display the STOP button at the upper left of the screen.
2. Click the STOP button. 'MX900021A Remote Screen Software – Paused –' is displayed on the title bar.

![Figure 3.2-1 STOP Button Display Example]

To hide the STOP button, click the screen again.

Canceling display pause
1. The START button is displayed on the screen while the display is paused.
2. Click the START button. 'MX900021A Remote Screen Software – Communicating –' is displayed on the title bar.
3.2 Using the Software

Connection and Use

To hide the START button, click the screen.

Changing the window size
1. Drag one of the corners of the screen.

Exiting the application
1. The application can be exited in one of the following ways.
   • Click the Close button (x) at the top right of the screen.
   • Right-click the title bar and select Exit.
   • Right-click the MX900021A task bar and select Exit.
2. The exit confirmation dialog box is displayed, so click OK.

Figure 3.2-2 START Button Display Example

Figure 3.2-3 Exit Confirmation Dialog Box
3.3 Checking Version Information

1. Start Explorer from the Start menu of Windows.
2. Open the folder to which this software was copied in step 1 of section 2.2 in Chapter 2.
3. Display the properties of MX900021A Remote Screen Software.exe
4. Click the Version tab in Properties.
5. Confirm the File Version.

![Figure 3.3-1 Program Version Display](image-url)
3.4 Error Messages

This software has the following error messages.

<table>
<thead>
<tr>
<th>Messages</th>
<th>Cause</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cannot connect to the ACCESS Master</td>
<td>ACCESS Master was not detected when this software was started up.</td>
</tr>
<tr>
<td>Check the following items</td>
<td></td>
</tr>
<tr>
<td>• Is the ACCESS Master connected to the PC through a USB cable?</td>
<td></td>
</tr>
<tr>
<td>• Is the ACCESS Master configured in Video Output mode?</td>
<td></td>
</tr>
<tr>
<td>Can’t connect to the ACCESS Master</td>
<td>ACCESS Master could not be detected when display pause was canceled.</td>
</tr>
<tr>
<td>Check the USB cable and ACCESS Master</td>
<td></td>
</tr>
<tr>
<td>Can’t get the image from the ACCESS Master.</td>
<td>Communication with ACCESS Master was disrupted during screen display.</td>
</tr>
<tr>
<td>Check the USB cable.</td>
<td></td>
</tr>
</tbody>
</table>

If communication with ACCESS Master is not possible, 'MX900021A Remote Screen Software – Communication failure –' is displayed on the title bar.

![Example of Display when Communication with ACCESS Master Is Not Possible](image)
Appendix A  Software License

This product includes the software shown in the following table.

For inquiries about software license related issues, visit the Anritsu website at http://www.anritsu.com.

The package software in the following table is not covered by the Anritsu software license agreement.

Table 1  Relationship between package name and license

<table>
<thead>
<tr>
<th>Package name</th>
<th>License</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>libusb-win32-device-bin-0.1.10.1</td>
<td>GPL (*1)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LGPL (*2)</td>
<td></td>
</tr>
</tbody>
</table>

(*1) GPL
(*2) LGPL
Appendix A  Software License

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Version 2, June 1991

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