Utility Software

Data Connection
For OFI-BIPM

Instruction Manual

Please read this instruction manual carefully before installation.
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# Table of contents

1. **Introduction** .............................................................................................................. 2

2. **System Requirements** ................................................................................................. 2

3. **Install** .......................................................................................................................... 3

4. **Install the Software** .................................................................................................. 4

5. **How to use the Data Connection For OFI-BIPM** ................................................. 14
   5.1. Firmware Update ........................................................................................................ 15
   5.2. Update Data Connection .......................................................................................... 22

6. **Uninstall the Data Connection** .................................................................................. 23

7. **Troubleshooting** ..................................................................................................... 26
   7.1. Installation of the Device Driver Failed ................................................................. 26
   7.2. Data Connection Does Not Run .............................................................................. 30
   7.3. Installation of Firmware Failed ................................................................................ 31
   7.4. USB Communication Does Not Work ..................................................................... 31

8. **Contact Address** ..................................................................................................... 32
1. Introduction

Data Connection For OFI-BIPM ("Data Connection") is the software included in the package of OFI-BI/BIPM, the optical fiber identifier series manufactured by AFL.
Read this installation manual before installing Data Connection

2. System Requirements

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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Computer and processor</td>
<td>1.6 gigahertz(GHz) processor or higher (In case Core™ i3, Intel Corp)</td>
</tr>
<tr>
<td>Operating System</td>
<td>Microsoft Windows Vista SP2 (32bit)</td>
</tr>
<tr>
<td></td>
<td>Microsoft Windows 7 SP1 (64bit / 32bit)</td>
</tr>
<tr>
<td></td>
<td>Microsoft Windows 8</td>
</tr>
<tr>
<td></td>
<td>*The operating system must be updated by Windows Update</td>
</tr>
<tr>
<td>Memory</td>
<td>2GB (Windows Vista SP2)</td>
</tr>
<tr>
<td></td>
<td>4GB (Windows 7 SP1, Windows 8)</td>
</tr>
<tr>
<td>Hard Disk</td>
<td>100MB available space</td>
</tr>
<tr>
<td>Drive</td>
<td>CD-ROM or DVD drive</td>
</tr>
<tr>
<td>Display</td>
<td>1024x768, or higher resolution</td>
</tr>
<tr>
<td></td>
<td>24bit, or higher color</td>
</tr>
<tr>
<td>Other</td>
<td>USB 2.0 Port</td>
</tr>
<tr>
<td></td>
<td>Capable of Internet Access, 56kbps or higher</td>
</tr>
<tr>
<td></td>
<td>Broadband access is recommended</td>
</tr>
</tbody>
</table>
3. Install

Login to the PC using an account with administrator privilege

Administrator privilege is required when installing the software. If you do not have an account which has administrator privilege, ask the supervisor of the PC for installation.

Exit all programs running on the PC

Exit all programs running on the PC. Some programs may prevent installation. Specifically do not install Data Connection when the communication software for another series of splicer is running.

Perform Windows Update or Microsoft Update

Operating System must be updated by latest update. Perform Windows Update or Microsoft Update before starting installation. To go to Windows Update or Microsoft Update, select [Start] > [All Programs] > [Windows Update] or [Microsoft Update].

Internet connection is necessary in order to perform Windows Update or Microsoft Update.
4. **Install the Software**

(1) Confirm that the USB cable is **not connected**.

(2) Insert the instruction CD into CD-ROM or DVD drive.

(3) After a few seconds, instruction menu will be shown automatically.
   - If the menu is not shown, double-click “Utility.exe” which is in the root of the instruction CD.

(4) Click [Load Data Connection Software] button.
“User Account Control” window may be shown during installation.

Click [Yes] if “Do you want to allow the following program from an unknown publisher to make changes to this computer?” message is shown.

Click [Continue] if “Windows needs your permission to continue” message is shown.

If you run the installer without administrator privilege, the following message will be shown. In this case, login with an administrator account, and run the installer.
(5) License Agreement confirmation window will be shown. Click [ACCEPT] button if you accept the License Agreement. If you do not accept the License Agreement, click [DECLINE] button. In this case, installation will be cancelled.

If the DataConnection has already been installed, the uninstall menu will be shown.

(6) Installation of necessary software and driver will start.

**Necessary software and driver for Data Connection**
- Microsoft .NET Framework 4 Client Profile
- Microsoft Visual C++ 2010 Redistributable
- Usb Driver
(a) Installation of Microsoft .NET Framework 4 Client Profile
If “Microsoft .NET Framework 4 Client Profile” has not been installed, [Microsoft .NET Framework 4 Client Profile Setup] window will be shown.

⚠️ If the installation is not necessary, the following window will not be shown. Proceed to following page

Check [I have read and accept the license terms] and click [Install] button.

When the following window is shown, click [Finish] button to complete the installation.
(b) Installation of Microsoft Visual C++ 2010 Redistributable
If “Microsoft Visual C++ 2010 Redistributable” has not been installed, [Microsoft Visual C++ 2010 Redistributable Setup] window will be shown.

If the installation is not necessary, following window will not be shown. Proceed to following page

Check [I have read and accept the license terms] and click [Install] button.

When the following window is shown, click [finish] button to complete the installation.
(c) Uninstallation of existing USB driver
If the old version of USB driver has been installed, [Confirm Uninstall] window will be shown.

💡 If the uninstallation is not necessary, the following window will not be shown. Proceed to following page

Click [OK].

When the following window is shown after the uninstallation, click [finish] to complete the uninstallation.
(d) Installation of USB driver

[FjkUsbDv InstallShield Wizard] window will be shown.

When the following window is shown after the installation, click [Finish] to complete the installation.
If the following message is shown, click [Install].

If the following security message was shown, click “Install this driver software anyway”.

If the following security message was shown, click “Install this driver software anyway”.

Don't install this driver software
You should check your manufacturer's website for updated driver software for your device.

Install this driver software anyway
Only install driver software obtained from your manufacturer's website or disc. Unsigned software from other sources may harm your computer or steal information.
(7) Installation of the main program of Data Connection will start. During the installation, the following message is shown.

![Installer.exe](image1)

**Installing Data Connection ...**

(8) When the following message is shown, click [OK] button to complete the installation.

![Installer.exe](image2)

**Installation was completed.**

(9) Click [Exit] button to close the menu.
(10) Install device driver.
Turn on the OFI-BI/BIPM and connect to the PC with USB cable.

“Installing device driver software” message will be shown at notification area in task bar.

When the driver installation is complete, “Device driver software installed successfully” message will be shown.

If the “Device driver software installed successfully” message was not shown in a few minutes, please read [Installation of the Device Driver Failed] in [Chapter 7: Troubleshooting]
5. How to use the Data Connection For OFI-BIPM

Double-click the shortcut on the desktop or click “Data Connection” in the [Start] > [All Programs] > [Fujikura] menu.

If the Data Connection does not run, please read [Data Connection Does Not Run] in [Chapter 7: Troubleshooting].

Connect the OFI-BI/BIPM to PC with USB cable and turn on the OFI-BI/BIPM. If the USB communication is ready, “CONNECTED” message will be shown at the bottom left of Data Connection window.

If the “CONNECTED” message was not shown, please read [USB Communication Does Not Works] in [Chapter 7: Troubleshooting].
5.1. **Firmware Update**

[Firmware Update] page provides firmware update function of the OFI-BI/BIPM.

When the PC is connected to internet, DataConnection downloads firmware update file from our server and installs it to the OFI-BI/BIPM. Otherwise, if you have the firmware update file, the firmware can be installed using Data Connection without internet connection.

![Firmware Update](image)

- **[1]** Information of latest firmware
- **[2]** Checkbox to enable check of the firmware information at logon. When the information is updated, message will be shown.
- **[3]** Button to check the firmware information.
5.1.1. **Install the Latest Firmware Released on the Internet**

During firmware installation,
- Do not turn off the OFI-Bi/BIPM.
- Do not disconnect USB cable.

1. Confirm the following
   - The OFI-Bi/BIPM is connected to PC with USB cable.
   - The PC is connected to Internet.

2. Select [Firmware Update] page, and click [Download and install latest firmware] button.

![Firmware Update Window](image)

If the update file can not be downloaded, “Connect the PC to the internet” message will be shown. In this case, confirm the internet connection using web browser.

If the message is shown despite the PC can access the internet, the firewall of network system may block downloading the file. Please consult the administrator of your network system.
(3) Firmware update will start, and status bar at bottom left of Data Connection will progress. If the latest firmware has already been installed to the OFI-BI/BIPM, the following message will be shown and firmware will not updated.
(4) When the following message is shown, click [OK] button to finish the update. Confirm that the OFI-BI/BIPM restarts and be ready to use.

If the firmware update failed, the following problem will occur:
- The OFI-BI/BIPM cannot be turned on. (The OFI-BI/BIPM does not restart after firmware update)
- The OFI-BI/BIPM is not ready to use although the OFI-BI/BIPM is turned on.

When above problem occurs, please read [Installation of Firmware Failed] in [Chapter 7: Troubleshooting]
5.1.2. Install the Firmware Using an Update File

During firmware installation,
- Do not turn off the OFI-BI/BIPM.
- Do not disconnect USB cable.

(1) Confirm the following
- The OFI-BI/BIPM is connected to PC with USB cable.

(2) Select [Firmware Update] page, and click [Install using an update file] button.
(3) When file open dialog is shown, select the update file.

(4) Firmware update will start, and status bar will progress.
If the latest firmware has already been installed to the OFI-BI/BIPM, the following message will be shown and firmware will not updated.

(5) When the following message is shown, click [OK] button to finish the update. Confirm that the OFI-BI/BIPM restarts and be ready to use.

If the firmware update failed, the following problem will occur
- The OFI-BI/BIPM cannot be turned on.
  (The OFI-BI/BIPM does not restart after firmware update)
- The OFI-BI/BIPM is not ready to use although the OFI-BI/BIPM is turned on.

When above problem occurs, please read [Installation of Firmware Failed] in [Chapter 7: Troubleshooting]
5.2. **Update Data Connection**

Data Connection has self-update feature. If the following message is shown when Data Connection is starting, click [OK] to start updating Data Connection.

![Message](image)

Internet connection is necessary for self-update.
6. **Uninstall the Data Connection**

(1) Confirm that the USB cable is **not connected**.
(2) Insert the instruction CD into CD-ROM or DVD drive.
(3) After a few seconds, instruction menu will be shown.
   If the menu is not shown, double-click "Utility.exe" which is in the root of the instruction CD.

(4) Click [Load Data Connection Software] button.
(5) When the following window is shown, click [Uninstall] button.

(6) When the [Confirm Uninstall] message is shown, click [OK] button to continue.
(7) When [Maintenance Complete] window is shown, click [Finish] button.

(8) When the following message is shown, click [OK] to complete installation.

(9) Click [Exit] button to close menu.
7. Troubleshooting

When trouble occurs during installation or when using Data Connection, please read this chapter.

If the trouble is not fixed despite performing the following procedure, please contact us.

7.1. Installation of the Device Driver Failed

When first connecting to PC, the device driver should be installed automatically. If the installation failed (the following window was shown), install device driver according to procedure listed in the following pages.
(1) Open [Start] > [Control Panel] > [System] > [Hardware] > [Device Manager] menu to open “Device Manager”.

(2) Right-click on “FJK-GS-005” in the [Jungo] or [Other devices] and select “Update Driver Software…”.
If “FJK-GS-005” is not listed, confirm the following.
• The OFI-BI/BIPM is connected to PC with USB cable.
• The OFI-BI/BIPM is turned on.
(3) Click “Browse my computer for driver software”.

(4) Click [Browse...] and select “C:\FjkUsbDv”. After selecting, check [Include subfolders] and click [Next] button.
(5) When the following message is shown, click “Install this driver software anyway”.

(6) When the following window is shown, click [Close] button.

(7) Close “System Properties” and “Device Manager”.
7.2. *Data Connection Does Not Run*

**Data Connection is not shown although the icon was clicked**
(a) Windows may not be updated to latest version. Perform Windows Update or Microsoft Update to update Windows.
(b) Memory capacity or CPU speed may be insufficient to meet the system requirement.
   • Close other running applications.
   • Confirm that memory capacity and CPU speed meet the system requirement.

**".NET Framework Initialization Error" is shown when Data Connection is launched**

(a) “Microsoft .NET Framework 4 Client Profile” may not be installed. Double-click “dotNetFx40_Client_x86_x64.exe” in “DotNetFx” folder in instruction CD to install “Microsoft .NET Framework 4 Client Profile”.
(b) Windows may not be updated to latest. Perform Windows Update or Microsoft Update to update Windows.

**.NET Framework error is shown when Data Connection is launched**

(a) “Microsoft Visual C++ 2010 Redistributable” may not be installed. Double-click following file in “vcredist” folder in instruction CD to install “Microsoft Visual C++ 2010 Redistributable”.
   64bit OS: vcredist_x64.exe
   32bit OS: vcredist_x86.exe
(b) Windows may not be updated to latest version. Perform Windows Update or Microsoft Update to update Windows.
7.3. **Installation of Firmware Failed**

If the installation of firmware failed, the following problem will occur. When the problem occurs, perform the following procedure to install the firmware again.

- The OFI-BI/BIPM can not be turned on (OFI-BI/BIPM does not restart after installation).
- The OFI-BI/BIPM turns on, but is not ready to use.

1. Turn off the OFI-BI/BIPM.
2. Confirm that the OFI-BI/BIPM is connected to PC and turn on the OFI-BI/BIPM again.
   (["UPGRADE MODE"] message should be indicated on the screen.)
3. In the [Firmware Update] page of Data Connection, click [Download and install latest firmware] button to install the firmware again.

![Tip]
If the update failure persists or you have some questions about this procedure, please contact us.

7.4. **USB Communication Does Not Works**

Confirm that the “CONNECTED” is indicated at bottom left of Data Connection window.

**“DISCONNECTED” is indicated**

(a) Confirm that the OFI-BI/BIPM is connected to PC with USB cable.
(b) Confirm that the OFI-BI/BIPM is turned on.
(c) If the external USB hub is used, connect the USB cable to PC directly.
(d) USB driver may not be installed correctly.
   Install the Data Connection again.

**“Communication Error” message was shown during downloading or uploading (“CONNECTED” is indicated)**

(a) If the external USB hub is used, connect the cable to PC directly.
(b) The firmware version of OFI-BI/BIPM may not be the latest.
   If the firmware is not the latest, update the firmware.
8. **Contact Address**

Inquiries concerning products should be made to the nearest distributor or one of the following:

<table>
<thead>
<tr>
<th>America Fujikura Ltd.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFL Test &amp; Inspection</td>
</tr>
<tr>
<td>16 Eastgate Park Road</td>
</tr>
<tr>
<td>Belmont, NH 03220 U.S.A.</td>
</tr>
<tr>
<td>Tel.  800-321-5298</td>
</tr>
<tr>
<td>603-528-7780</td>
</tr>
<tr>
<td>Fax.  603-528-2025</td>
</tr>
<tr>
<td>Email: <a href="mailto:AFLTestTechSupport@AFLglobal.com">AFLTestTechSupport@AFLglobal.com</a></td>
</tr>
<tr>
<td>URL <a href="http://www.AFLglobal.com">http://www.AFLglobal.com</a></td>
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