Leica IP C and IP S

Printer Driver Software

For the Windows 8.1 (32/64 bit) and Windows 10 (32/64 bit) operating systems

Installation Instructions

English

Order No.: 14060282101 - Revision B

Always keep this manual with the instrument.
Read carefully before working with the instrument.
The information, numerical data, notes and value judgments contained in this Instructions for Use represent the current state of scientific knowledge and state-of-the-art technology as we understand it following thorough investigation in this field.

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For the instrument serial number and year of manufacture, please refer to the nameplate on the back of the instrument.

Note

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1. Introduction

1.1 Symbols and their meanings

**Warning**

Leica Biosystems GmbH assumes no liability for consequential loss or damage due to failure to observe the following instructions, particularly in relation to transportation and package handling, and failure to observe the instructions for handling the instrument carefully.

<table>
<thead>
<tr>
<th>Symbol:</th>
<th>Title of the symbol:</th>
<th>Description:</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Warning" /></td>
<td>Warning</td>
<td>Warnings appear in a box and are marked by a warning triangle.</td>
</tr>
<tr>
<td><img src="image" alt="Note" /></td>
<td>Note</td>
<td>Notes, i.e. important user information, appear in box and are marked by an information symbol.</td>
</tr>
<tr>
<td>→ “Fig. 7 - 1”</td>
<td>Item number</td>
<td>Item numbers for numbering illustrations. Numbers in red refer to item numbers in illustrations.</td>
</tr>
<tr>
<td><img src="image" alt="Function key" /></td>
<td>Function key</td>
<td>Function keys to be pressed on the instrument are displayed as bold, gray and undelined text.</td>
</tr>
<tr>
<td><img src="image" alt="Software key and/or Display Messages" /></td>
<td>Software key and/or Display Messages</td>
<td>Software keys to be pressed on the display and/or messages on the display are displayed as bold, gray text.</td>
</tr>
</tbody>
</table>

1.2 Overview

The Leica Biosystems website makes separate, up-to-date drivers for the Leica IP C/IP S printers available for download for the operating systems

- Windows 8.1 (64-bit) and
- Windows 10 (64-bit) operating systems.

These drivers are also available on the CD-ROM accompanying the printed Instructions for Use.
Introduction

The installation is carried out in four steps:

1. Uninstalling or checking whether any IP printer drivers are preinstalled in the system.
2. Installing the help files for users.
3. Installing and configuring the printer driver.

Note

An incomplete installation without, say, help files will not be accepted by the system.

The difference compared to previous drivers is the new help files, which, in the event of an error message, show the user corresponding on-screen instructions. The handling of these files is documented by an integrated help function.

Note


1.3 Area of validity

For using the IP C/IP S printers with the Windows 8.1 or Windows 10 (all 32-bit or 64-bit) operating systems, including the new help function.

1.4 General installation instructions

Requirements

- If necessary, the local IT administrator has to grant the user the needed user rights for installing the printer driver.
- For every printer to be installed, a functional COM port has to be available under the device manager before the installation is carried out.

General:

Note

The IP printer driver and IP C or IP S printer installation is explained in this installation guide only for the Windows 10 operating system. The described procedures are similar on Computer with installed Windows 8.1 operating systems. When using the operating system Windows 8.1, individual menus and windows may differ from those shown here.
2. How to disable the driver signature enforcement

2.1 Temporary disabling of the driver signature enforcement

**Note**
The Windows Driver Signature Enforcement has to be disabled by the user prior the installation of the new driver.

Disabling the Driver Signature Enforcement

1. Open the Power Options menu (→ Fig. 1).
2. Hold the Shift key on the keyboard and press Restart (→ Fig. 1-1).
How to disable the driver signature enforcement

Note
Once the computer has rebooted, the option Troubleshooting has to be selected.

3. Click on Troubleshooting (→ Fig. 2-1).
4. In the next menu, click on Advanced options (→ Fig. 2-2).
5. Select Startup Settings (→ Fig. 2-3).
6. Click on Restart (→ Fig. 2-4) on the following screen.
7. Press F7 on the keyboard to disable the Driver Signature Enforcement (→ Fig. 2-5).

Note
The computer will reboot automatically after pressing F7. It is now possible to install unsigned drivers.
How to disable the driver signature enforcement

Choose an option
- Troubleshoot
- Turn off your PC

Troubleshoot
- Restart the PC
- Go back to the previous build

Advanced options
- System Restore
- System Image Recovery
- Startup Repair
- Command Prompt
- Startup Settings

Startup Settings
Restart to change Windows options such as:
- Enable hot plug bus add/remove
- Disable debugging inserts
- Disable lock keylogging
- Disable HID debug
- Disable driver signature enforcement
- Disable audit start and stop services
- Enable automatic rescan on system failure

Press a number to choose from the options below:
1) Enable debugging
2) Enable boot logging
3) Enable low resolution video
4) Enable Safe Mode
5) Enable Safe Mode with Networking
6) Enable Safe Mode "No Network"
7) Disable driver signature enforcement
8) Create early launch sub-key
9) Disable automatic repair if failure

Press F10 for more options
Press Enter to return to your operating system

Fig. 2
Uninstalling existing IP printer driver installations

3. Uninstalling existing IP printer driver installations

3.1 Uninstall the existing IP printer driver software

1. Browse to `Control Panel\Programs\Programs and Features` (→ Fig. 3-1).
2. Browse the list of installed programs until you find the Leica IP Driver (→ Fig. 3-2).
3. Select the Leica IP Driver and click `Uninstall` (→ Fig. 3-3) on the task bar.

4. Confirm the system message with `Yes` (→ Fig. 4-1).

5. Windows is then preparing to remove the printer driver software (→ Fig. 5).

*Note*

The uninstallation can be canceled by clicking on `Cancel` (→ Fig. 5-1).

6. After the preparation is done, the uninstallation of the IP driver software will be carried out (→ Fig. 5-2).
7. Check in the list of installed programs (→ Fig. 3), if the Leica IP Printer software has been removed.

3.2 Uninstall the IP printer

1. Browse to Control Panel\Hardware and Sound\Devices and Printers (→ Fig. 6-1).
2. Either right click on the IP Printer (→ Fig. 6-2) to be uninstalled and select **Remove device** (→ Fig. 6-3) or left click on the IP Printer (→ Fig. 6-2) and click **Remove device** on the task line (→ Fig. 6-4).

3. Confirm the system message with **Yes** (→ Fig. 7-1).
3 Uninstalling existing IP printer driver installations

✔ The IP Printer has been successfully removed.

⚠️ Warning
Before proceeding with the next step (→ p. 12 – 3.3 Uninstalling the IP printer driver), close all applications and windows and restart the computer.

3.3 Uninstalling the IP printer driver

1. After deleting the printer icon and restarting the computer, any printer, such as Microsoft XPS (→ Fig. 8-1), can be selected with the right mouse button.
2. The Print server properties menu (→ Fig. 8-2) appears in the system menu bar. Open this menu item by clicking it.

3. In the Print Server Properties menu (→ Fig. 9) select the Drivers tab (→ Fig. 9-1) and select the printer driver, for example, IP-C (→ Fig. 9-2).
4. Delete the driver by clicking Remove... (→ Fig. 9-3).
Uninstalling existing IP printer driver installations

Fig. 9

5. To update to a new driver version, Remove driver and driver package (→ Fig. 10-2) has to be selected and confirmed with OK (→ Fig. 10-3). If only one IP printer is to be removed from among multiple installed IP printers, the selection Remove driver only (→ Fig. 10-1) is sufficient.

6. Click Yes (→ Fig. 10-4) to confirm the system message.

Fig. 10

7. Click Delete in the following window (→ Fig. 11-1).

8. After successful deletion, close this window by clicking OK (→ Fig. 11-2).
Uninstalling existing IP printer driver installations

9. Click **Close** (→ Fig. 12-1) to close the Print Server Properties window to finish the uninstallation.

![Figure 11](image)

![Figure 12](image)

**Warning**

- Close all open windows and restart the computer.
- Before restarting, save your current work to prevent data loss.
4. Install the IP printer driver and help files

Note
The following chapters describe how to install the printer driver, the printer and the help files to the directory C:\CSPrinter.

4.1 Available printer driver versions for Windows 8.1 and Windows 10

<table>
<thead>
<tr>
<th>Operating system</th>
<th>Driver version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows 8.1 / 32-bit</td>
<td>V3.0</td>
</tr>
<tr>
<td>Windows 8.1 / 64-bit</td>
<td>V3.1</td>
</tr>
<tr>
<td>Windows 10 / 32-bit</td>
<td>V4.0</td>
</tr>
<tr>
<td>Windows 10 / 64-bit</td>
<td>V4.1</td>
</tr>
</tbody>
</table>

Note
Go to the Leica Biosystems website and download the latest driver file Leica 64-bit IP Driver or Leica 32-bit IP Driver suitable for your operating system or use the corresponding file from the CD accompanying the printed Instructions for Use.

4.2 Downloading the IP printer driver from the Leica Biosystems website

1. Open www.LeicaBiosystems.com in your browser and select the Products category, select Specimen Labeling Products, select either IP C or IP S,
2. click Documents and scroll down to the item Drivers,
3. select the driver necessary for your operating system from the drivers available,
4. right-click the corresponding file and select Save as...,
5. download the file and save it in a suitable folder on the computer’s hard drive.

Note
A version of the printer driver is also available on the Instructions for Use CD-ROM which is part of the standard scope of delivery of the printer IP C and IP S.

We recommend to always check on www.LeicaBiosystems.com for the most current version of the driver.

4.3 Installing the printer driver

1. Browse to the folder on your local hard disc (→ Fig. 13-1) were you have downloaded the printer driver or open the printer driver folder on the CD-ROM.
2. Right click on the ....Driver.exe file (→ Fig. 13-2) and select Run as administrator (→ Fig. 13-3).
Install the IP printer driver and help files

3. The InstallShield Wizard is now extracting the required installation files (→ Fig. 14-1).
4. To abort the installation, press Cancel (→ Fig. 14-2).
5. To confirm having the InstallShield Wizard perform the installation, click Next. (→ Fig. 14-3).

6. The following message box shows the License Agreement. Read it carefully, select I accept the terms in the license agreement (→ Fig. 15-1) and click Next (→ Fig. 15-2).
7. In the next step, confirm the installation on drive C:\ (→ Fig. 15-3) by clicking Next (→ Fig. 15-4).

**Warning**
Do not alter the installation path!

8. Click on Install (→ Fig. 16-1) to start the installation process. The installation process may take several minutes (→ Fig. 16-2).

9. Once the installation is finished, click Finish (→ Fig. 17-1) to close the InstallShield Wizard (→ Fig. 17).
4 Install the IP printer driver and help files

![Image of the IP printer driver installation screen]

**Fig. 17**

**Note**
After successful installation of the driver, installation of the printer begins automatically. Continue with the installation with (→ p. 18 – 4.4 Install the printer).

4.4 Install the printer

**Warning**
The installation of the printer cannot be carried out without previous installation of the printer directory.

**Note**
Installation step 3 starts (→ p. 5 – 1.2 Overview) automatically after the printer directory has been created in installation step 2.

1. The Add a device (→ Fig. 18) menu appears. Click The printer that I want isn’t listed (→ Fig. 18-1).

![Image of the Add a device menu]

**Fig. 18**
2. In the next menu, select Add a local printer or network printer with manual settings (→ Fig. 19-1) and click Next (→ Fig. 19-2).
3. Select Use an existing port (→ Fig. 19-3) in the following menu and click on the drop down menu.
4. Choose COM3: (Serial Port) (→ Fig. 19-4) in the list and click Next (→ Fig. 19-5).

![Fig. 19](image)

**Note**
The IP C/IP S printers have to be installed on a free COM port. A suitable COM port can be found under System\Control Panel\Device Manager under Ports (COM & LPT1). If an RS-232 port is lacking, a tested USB to RS-232 converter (serial to USB) must be installed. This adapter is not available in the printer’s scope of delivery and has to be purchased from a specialist shop.

5. Click Have Disk... (→ Fig. 20-1) and then click Browse (→ Fig. 20-2) in the following Install From Disk (→ Fig. 20-3) menu.

**Warning**
*NEVER* select an IP C/IP S printer driver via the Manufacturer (→ Fig. 20-4) and/or Printers (→ Fig. 20-5) selection fields, because the outdated versions can also be shown here and selected.
Install the IP printer driver and help files

6. Navigate to the folder `C:\CSPrinter\...` (→ Fig. 21-1) on your hard disk to install the 64-bit driver or the 32-bit driver for your operating system.

7. Select the `ip.inf` (→ Fig. 21-2) driver file (1) and confirm the selection by clicking Open (→ Fig. 21-3).

8. After selecting the file (→ Fig. 22-2), click on OK (→ Fig. 22-1) in the Install From Disk menu.

9. Select the IP printer to be installed (IP-C or IP-S) (→ Fig. 23-1) and confirm your selection by clicking Next (→ Fig. 23-2).

Note

If multiple IP printers are to be operated on a computer, the respective driver for these printers must also be installed under Control Panel\Hardware and Sound\Devices and Printers\Add a printer by selecting (→ Fig. 6) Add a local printer or network printer with manual settings (→ Fig. 19-2).
10. Use the suggested printer name (for example, IP-C) (→ Fig. 23-3) and confirm the selection with Next (→ Fig. 23-4).

**Note**

If multiple IP C printers are installed, IP-C 1 or IP-C 2, for example, can be entered here (→ Fig. 23-3).

11. After the installation has been successfully completed, the Printer Sharing (→ Fig. 25-1) dialog appears. Select the Do not share this printer (→ Fig. 25-2) option and confirm your selection by clicking Next (→ Fig. 25-3).

12. Click Print a test page (→ Fig. 25-4) to test whether communication between the computer and printer functions properly.
Install the IP printer driver and help files

13. Click **Finish** (→ Fig. 25-5) to complete the installation.

14. Close all applications and restart the computer.

**Note**

Select the **Set as the default printer** option (→ Fig. 26-1) only if no other printer is operated on this computer.
5. Verify installation

5.1 Version check

Note

It is mandatory to verify that the correct IP printer driver version has been installed after the restart of the computer.

To verify the installation, proceed as follows:

1. Browse to Control Panel\Hardware and Sound\Devices and Printers (→ Fig. 27-1).
2. Mark the installed IP printer (for example IP-C) with a single left click (→ Fig. 27-2).
3. Click on Print server properties (→ Fig. 27-3).

4. In the Print Server Properties menu (→ Fig. 28-1), select the Drivers tab (→ Fig. 28-2), select the IP-C printer just installed (→ Fig. 28-3) and click Properties (→ Fig. 28-4).
5. Select the Dependent File csprt.DLL (→ Fig. 29-2) in the Driver Properties (→ Fig. 29-1).
6. Open the file by clicking Properties (→ Fig. 29-3).

7. In the csprt.DLL Properties (→ Fig. 30-1), select the Details tab (→ Fig. 30-2). The installed Product version (→ Fig. 30-3) of the Windows 10 64-bit driver must be displayed as Version 4.1.0.0 (2). If the Windows 10 32-bit driver was installed, the correct File version is 4.0.0.0.

**Note**

If the driver was installed on a Windows 8.1 operation system, the driver version displayed should be Version 3.1.0.0 for Windows 8.1 64-bit (2). If the Windows 8.1 32-bit driver was installed, the correct File version is 3.0.0.0.
8. If the corresponding driver was correctly installed, close the csprt.DLL Properties window by clicking **OK** (→ Fig. 30-4).

9. Close all windows that are still open to return to the desktop.