Leica IP C and IP S
Printer Driver Software
For the Windows 8.1 (32/64 bit) and Windows 10 (64 bit) operating systems

Installation Instructions
English

Order No.: 14060282101 - Revision C
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.

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1. Introduction

1.1 Symbols and their meanings

<table>
<thead>
<tr>
<th>Symbol:</th>
<th>Title of the symbol:</th>
<th>Description:</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Warning]</td>
<td>Warning</td>
<td>Warnings appear in a box and are marked by a warning triangle.</td>
</tr>
<tr>
<td>![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>![Item number]</td>
<td>Item number</td>
<td>Item numbers for numbering illustrations. Numbers in red refer to item numbers in illustrations.</td>
</tr>
<tr>
<td>![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>![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.
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 (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. Uninstalling existing IP printer driver installations

2.1 Uninstall the existing IP printer driver software

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

4. Confirm the system message with Yes (→ Fig. 2-1).

5. Windows is then preparing to remove the printer driver software (→ Fig. 3).

Note

The uninstallation can be canceled by clicking on Cancel (→ Fig. 3-1).

6. After the preparation is done, the uninstallation of the IP driver software will be carried out (→ Fig. 3-2).
Uninstalling existing IP printer driver installations

7. Check in the list of installed programs (→ Fig. 1), if the Leica IP Printer software has been removed.

2.2 Uninstall the IP printer

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

3. Confirm the system message with Yes (→ Fig. 5-1).
Uninstalling existing IP printer driver installations

The IP Printer has been successfully removed.

**Warning**

Before proceeding with the next step (→ p. 9 – 2.3 Uninstalling the IP printer driver), close all applications and windows and restart the computer.

### 2.3 Uninstalling the IP printer driver

1. After deleting the printer icon and restarting the computer, any printer, such as Microsoft XPS (→ Fig. 6-1), can be selected with the right mouse button.
2. The **Print server properties** menu (→ Fig. 6-2) appears in the system menu bar. Open this menu item by clicking it.

3. In the **Print Server Properties** menu (→ Fig. 7) select the **Drivers** tab (→ Fig. 7-1) and select the printer driver, for example, IP-C (→ Fig. 7-2).
4. Delete the driver by clicking **Remove...** (→ Fig. 7-3).
5. To update to a new driver version, Remove driver and driver package (→ Fig. 8-2) has to be selected and confirmed with OK (→ Fig. 8-3). If only one IP printer is to be removed from among multiple installed IP printers, the selection Remove driver only (→ Fig. 8-1) is sufficient.

6. Click Yes (→ Fig. 8-4) to confirm the system message.

7. Click Delete in the following window (→ Fig. 9-1).

8. After successful deletion, close this window by clicking OK (→ Fig. 9-2).
9. Click **Close** (→ Fig. 10-1) to close the Print Server Properties window to finish the uninstallation.

![Fig. 9](image9)

![Fig. 10](image10)

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

3.1 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>V3.2</td>
</tr>
<tr>
<td>Windows 8.1 / 64-bit</td>
<td>V3.3</td>
</tr>
<tr>
<td>Windows 10 / 64-bit</td>
<td>V4.3</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.

3.2 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.

3.3 Installing the printer driver

1. Browse to the folder on your local hard disc (→ Fig. 11-1) 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. 11-2) and select Run as administrator (→ Fig. 11-3).
3. The InstallShield Wizard is now extracting the required installation files (→ Fig. 12-1).
4. To abort the installation, press Cancel (→ Fig. 12-2).
5. To confirm having the InstallShield Wizard perform the installation, click Next (→ Fig. 12-3).

6. The following message box shows the License Agreement. Read it carefully, select I accept the terms in the license agreement (→ Fig. 13-1) and click Next (→ Fig. 13-2).
**3 Install the IP printer driver and help files**

7. Fill in your **User Name** (→ Fig. 13-3) and **Organization** (→ Fig. 13-4) in the next message box and click **Next** (→ Fig. 13-5).

**Note**
If I do not accept the terms in the license agreement is selected, the driver will not be installed.

8. In the next step, confirm the installation on drive **C:** (→ Fig. 13-6) by clicking **Next** (→ Fig. 13-7).

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

9. Click on **Install** (→ Fig. 14-1) to start the installation process. The installation process may take several minutes (→ Fig. 14-2).
10. Once the installation is finished, click Finish (→ Fig. 15-1) to close the InstallShield Wizard (→ Fig. 15).

![Fig. 14](image)

![Fig. 15](image)

Note
After successful installation of the driver, installation of the printer begins automatically. Continue with the installation with (→ p. 15 – 3.4 Install the printer).

3.4 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.
Install the IP printer driver and help files

1. The Add a device (→ Fig. 16) menu appears. Click The printer that I want isn’t listed (→ Fig. 16-1).

2. In the next menu, select Add a local printer or network printer with manual settings (→ Fig. 17-1) and click Next (→ Fig. 17-2).
3. Select Use an existing port (→ Fig. 17-3) in the following menu and click on the drop down menu.
4. Choose COM3: (Serial Port) (→ Fig. 17-4) in the list and click Next (→ Fig. 17-5).

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. 18-1) and then click Browse (→ Fig. 18-2) in the following Install From Disk (→ Fig. 18-3) menu.
NEVER select an IP C/IP S printer driver via the Manufacturer (→ Fig. 18-4) and/or Printers (→ Fig. 18-5) selection fields, because the outdated versions can also be shown here and selected.

6. Navigate to the folder C:\CSPrinter\... (→ Fig. 19-1) 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. 19-2) driver file (1) and confirm the selection by clicking Open (→ Fig. 19-3).

8. After selecting the file (→ Fig. 20-2), click on OK (→ Fig. 20-1) in the Install From Disk menu.
3 Install the IP printer driver and help files

9. Select the IP printer to be installed (IP-C or IP-S) (→ Fig. 21-1) and confirm your selection by clicking Next (→ Fig. 21-2).

**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. 4) Add a local printer or network printer with manual settings (→ Fig. 17-2).

10. Use the suggested printer name (for example, IP-C) (→ Fig. 21-3) and confirm the selection with Next (→ Fig. 21-4).

**Note**
If multiple IP-C printers are installed, IP-C 1 or IP-C 2, for example, can be entered here (→ Fig. 21-3).

**Note**
The first time an IP printer is installed, a security message might appear (→ Fig. 22). To start the installation, confirm the Windows security message by clicking Install this driver software anyway (→ Fig. 22-1).
11. After the installation has been successfully completed, the Printer Sharing (→ Fig. 23-1) dialog appears. Select the Do not share this printer (→ Fig. 23-2) option and confirm your selection by clicking Next (→ Fig. 23-3).

12. Click Print a test page (→ Fig. 23-4) to test whether communication between the computer and printer functions properly.

**Note**

Due to the size of the printable surface of a specimen slide or a cassette, no printout will be discernible. The test print merely indicates that the connection between printer and computer has been set up correctly.

13. Click Finish (→ Fig. 23-5) to complete the installation.

14. Close all applications and restart the computer.
3 Install the IP printer driver and help files

Note
Select the Set as the default printer option (→ Fig. 24-1) only if no other printer is operated on this computer.

Fig. 24
4. **Verify installation**

4.1 **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. 25-1).
2. Mark the installed IP printer (for example IP-C) with a single left click (→ Fig. 25-2).
3. Click on Print server properties (→ Fig. 25-3).

4. In the Print Server Properties menu (→ Fig. 26-1), select the Drivers tab (→ Fig. 26-2), select the IP-C printer just installed (→ Fig. 26-3) and click Properties (→ Fig. 26-4).
4 Verify installation

5. Select the Dependent File csprt.DLL (→ Fig. 27-2) in the Driver Properties (→ Fig. 27-1).
6. Open the file by clicking Properties (→ Fig. 27-3).

7. In the csprt.DLL Properties (→ Fig. 28-1), select the Details tab (→ Fig. 28-2). The installed Product version (→ Fig. 28-3) of the Windows 10 64-bit driver must be displayed as Version 4.3.0.0.

**Note**

If the driver was installed on a Windows 8.1 operation system, the driver version displayed should be Version 3.3.0.0 for Windows 8.1 64-bit (2). If the Windows 8.1 32-bit driver was installed, the correct File version is 3.2.0.0.
**Warning**

If any other version than those listed above is displayed, the driver has to be uninstalled and reinstalled.

8. If the corresponding driver was correctly installed, close the `csprt.DLL Properties` window by clicking **OK** (→ Fig. 28-4).

![Fig. 28](image)

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