

StructureExpert Weld-6

With SewSoft

Installation Manual

Original Instructions



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1 About StructureExpert Weld-6

StructureExpert Weld is an imaging tool designed for weld bead analysis.

Features:

- inverted optical system
- built-in digital camera
- automatic lighting
- focus
- calibrated optical zoom steps
- software-controlled magnification adjustment
- internal light system with 4 ramps of LED that can be controlled simultaneously or individually
- Field of view from ~ 82 to 1.8 mm (~ 3.2" to ~ 0.07")
- Equivalent to ~ 2.5x - ~ 120x optical magnification

Included:

- StructureExpert USB key with SewSoft 4.00
- USB license dongle

Options (modules not included):

- DataView
- Report Generator
- QDas
- XML/JSON
- SewSoft AI 4.0
- Data Sharing and Visualization

2 Installation of the hardware

Requirements

Carry out the installation in the order described in this procedure.

Procedure

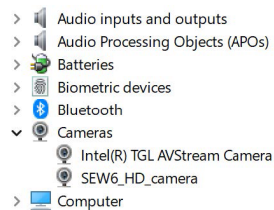
1. Plug in the power supply cable.

2. Plug in the two USB 2.0 cables in the computer.

- One is marked **Light**.
- One is marked **Camera**.

When you have connected the USB cables, Microsoft Windows automatically installs the camera drivers and the light drivers.

3. After the automatic installation, launch the Microsoft Windows Device Manager.
4. In the **Cameras** section, make sure that you can see the entry for the device **SEW6_HD_camera**.



5. In the **Ports (COM & LPT)** section, make sure that you can see two entries, one for the camera and one for the light.



The port values must be in the range of 1 to 10.

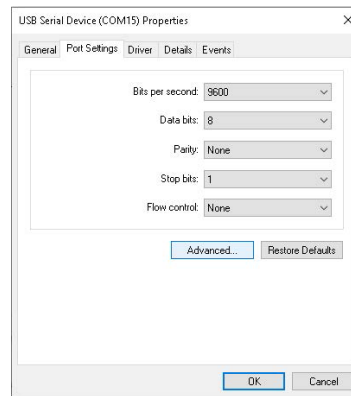
If the com port values are incorrect, you can change the values manually within the range of 1 to 10. Manually change the port com value.

Manually change the port com value

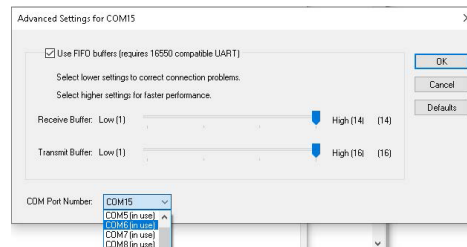
1. If the com port values are incorrect, right-click on the port you wish to change, and select **Properties**.



2. Select the tab **Ports (COM & LPT)**, and click on **Advanced...**.



3. Select a value lower than 10, even if the selected port value is shown as **in use**.

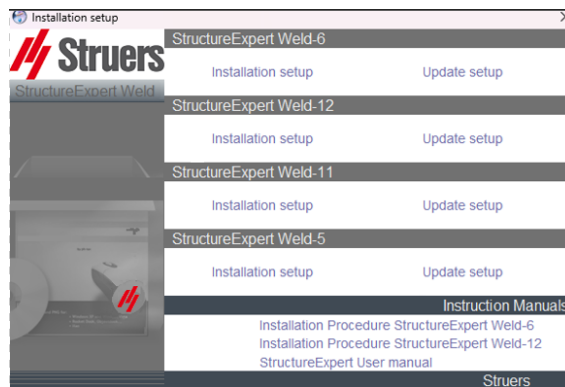


4. Click **OK**.
5. Repeat the procedure for the other port if the value is higher than 10.
6. Switch the device off and on.
7. Make sure that the port com values are correctly set.

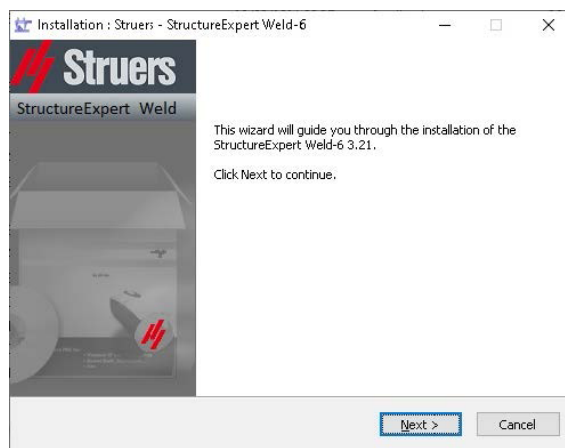
3 Installation of SewSoft

1. Plug in the power cable.
2. Connect the USB license dongle with SewSoft to the computer.
3. Open the Microsoft Windows File Explorer, and launch **setup.exe** located at the root of the USB key.

4. The installation setup window opens. Click on StructureExpert Weld **Installation setup** to install the SewSoft software.



5. Click **Next**.



6. In the **License Agreement** window, click **I Agree**.
7. Click **Install**.
8. Choose the language you prefer to use and the folder where you wish to save the file, then click **Save settings**.
9. In the **Saving folder** field, select the saving folder path you wish to use.
10. When the software installation is complete, select **Close**.
11. The **Com ports definition** window is shown.

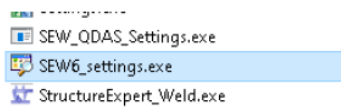
12. Click **Save settings**.



13. Make sure that the com port values are within the range of 1 to 10.

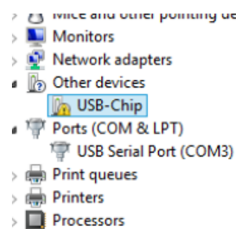
If the com port values are incorrect, you can change them manually. See [Installation of the hardware ►4](#).

14. In the event of a change of com port number, it is possible to open **SEW6_settings.exe** to redetect the correct port com for both camera and light.

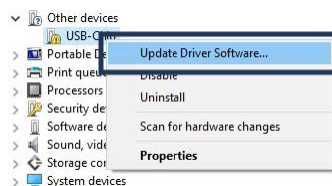


4 Installation of the USB license dongle

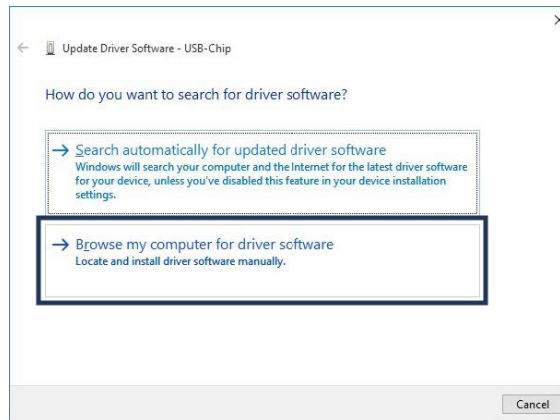
1. Connect the USB license dongle to a USB port of the computer.
2. Open the **Device Manager**, then right-click on **USB-Chip**.



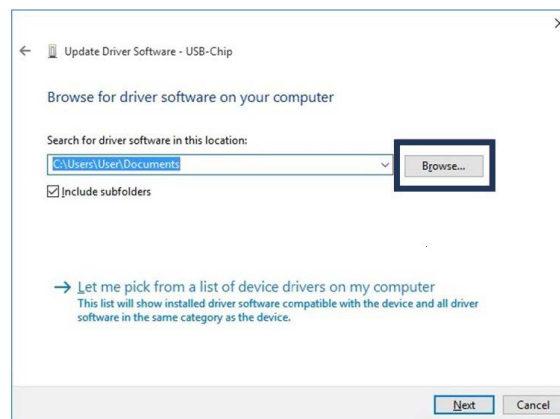
3. Select **Update Driver Software**.



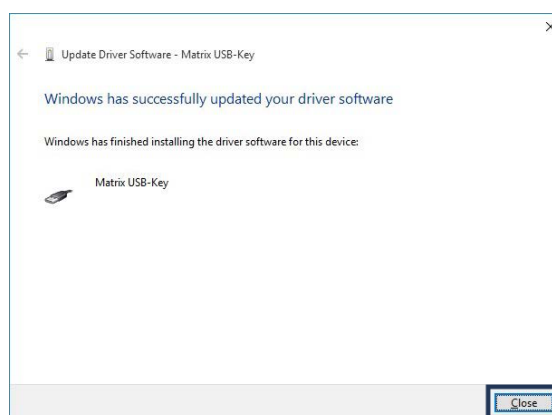
4. Select **Browse my computer for driver software**.



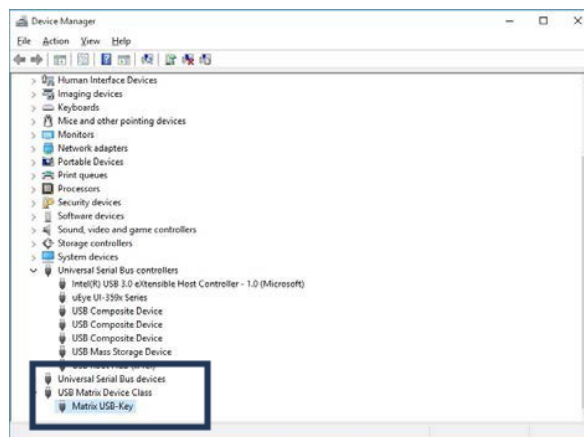
5. Click **Browse**.



6. Click **Close**.



The dongle is now shown in the **Device Manager**.



5 Troubleshooting for SewSoft

Error	Action
Issues with the software interface after installation, such as missing panels, white panels, etc.	1. Open the folder Tools Version 3.30, located in the provided pen drive. 2. Install one of the following files: • If you are running a 64-bits computer, install MicrosoftEdgeWebView2RuntimeInstallerX64.exe • If you are running a 32-bits computer, install MicrosoftEdgeWebView2RuntimeInstallerX86.exe 3. After installation, SewSoft should work correctly.

6 Manufacturer

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en For translations see
bg За преводи вижте
cs Překlady viz
da Se oversættelser på
de Übersetzungen finden Sie unter
el Για μεταφράσεις, ανατρέξτε στη διεύθυνση
es Para ver las traducciones consulte
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