Part A: Hardware

Hardware

for
digital x-ray scanner EZ series

1 Hardware installation

1.1 Safety information

It is urgently required to take the following safety information in account:

> ☞ **If you want to connect/disconnect the scanner to/from the PC, the PC and the mains appliance for the scanner has to be switched off!** ☜

> ☞ **Use the scanner only with the enclosed cables! Other cables are not compatible.** ☜
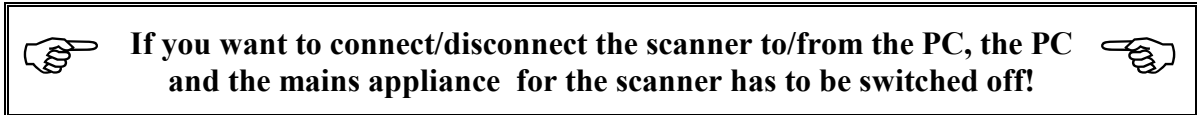
Disregard of the safety information can cause damages of the hardware and leads to loss of the right to claim under guarantee.

1.2 Placement of the Scanner

Caution! Avoid physical shocks and pay attention to avoid mechanical damage to the camera housing.
You either have the possibility to operate the scanner horizontally or to mount it with the help of the nuts in the aluminum profiles to a wall. In case of the wall mounting, the connectors of the scanner should show to the right side. If the connectors show upwards or downwards, it might lead to problems during the operation.
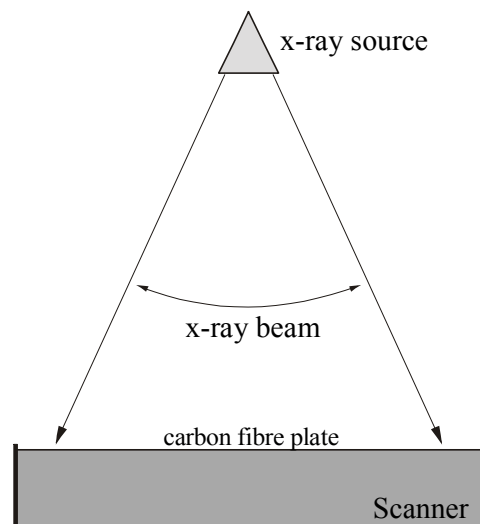
Place the scanner as central as possible in the x-ray beam. The objects which should be inspected are placed for the imaging onto the carbon fibre plate. So the carbon fibre plate must be irradiated from the x-ray source (see Figure 2).

upper left corner of the image

power connector

scanning direction
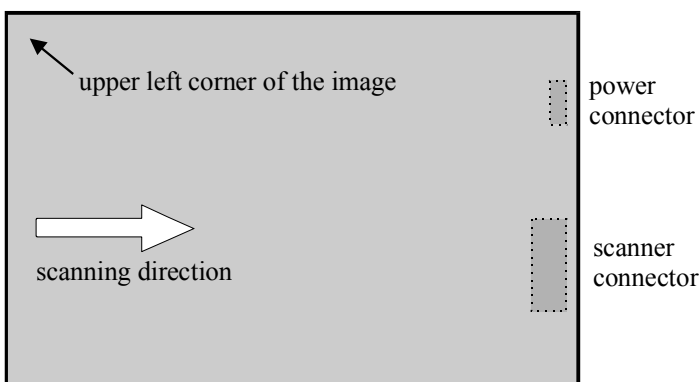
scanner connector

Scanner

Top view

Figure 1

x-ray source

x-ray beam

carbon fibre plate

Scanner

Front view

Figure 2

1.3 Connection the scanner

Important: Please note the safety information in chapter 1.1!

The enclosed scanner cable transmits the control signals and the image information between the scanner and the PC. Make sure, that the mains appliance for the scanner and the PC are turned off. Then connect one side of the cable with the plug at the scanner. On the rear side of the PC you find a plug which is lettered with "Scanner". Connect the other side of the cable with this plug.

1.4 Power supply

Important: Please note the safety information in chapter 1.1!

The scanner needs an additional power supply for the operation. Make sure, that the mains appliance for the scanner and the PC are turned off. Then connect the nine channel plug of the mains appliance with the scanner, connect the mains appliance to the mains and turn the mains appliance on.

1.5 Using the ribbon cables

If the scanner is used in a cabinet without access port, or the access port of the cabinet is to small, the ribbon cables can passed under the cabinet's door to connect the scanner.

Please note that the use of the ribbon cables are only optional. If required, they can be used, but it is not necessary to use them.