

Installation instructions for Large Scanning Transient Current Setup

Particulars, Advanced Measurement System Ltd.



To start with

- The system comes almost completely preassembled.
- Please have a look at the presentation of installation of Scanning TCT as the large number of installation steps are similar.
- In the present instructions only the details related to Large Scanning TCT systems will be pointed out.



Unpacking

- ❑ The system comes in a large wooden box (90x75x75 cm³)
- ❑ There are two handles on top to pull it out.
- ❑ Open the front door and unpack the content.



Doors

- ❑ The box is equipped with retractable doors
- ❑ For more complex assemblies where better access may be required the doors can be taken off the holder by pressing the **spring** (see below)
- ❑ The **handle bar** should be mounted first



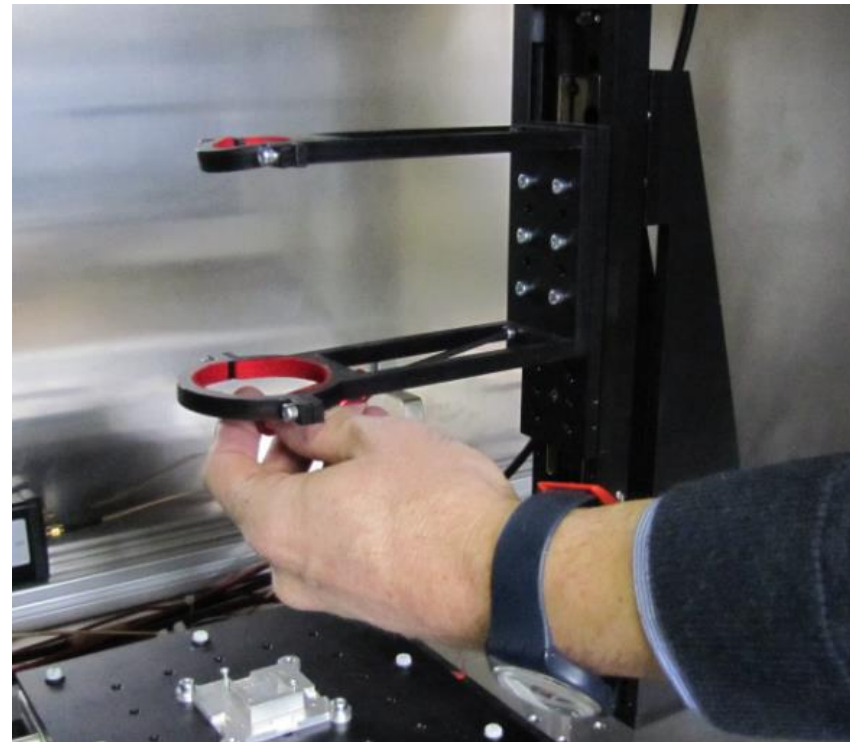


Lighting

- The box is supplied with lighting for easier use
- It is placed on top of the box
- The position of the switch may vary

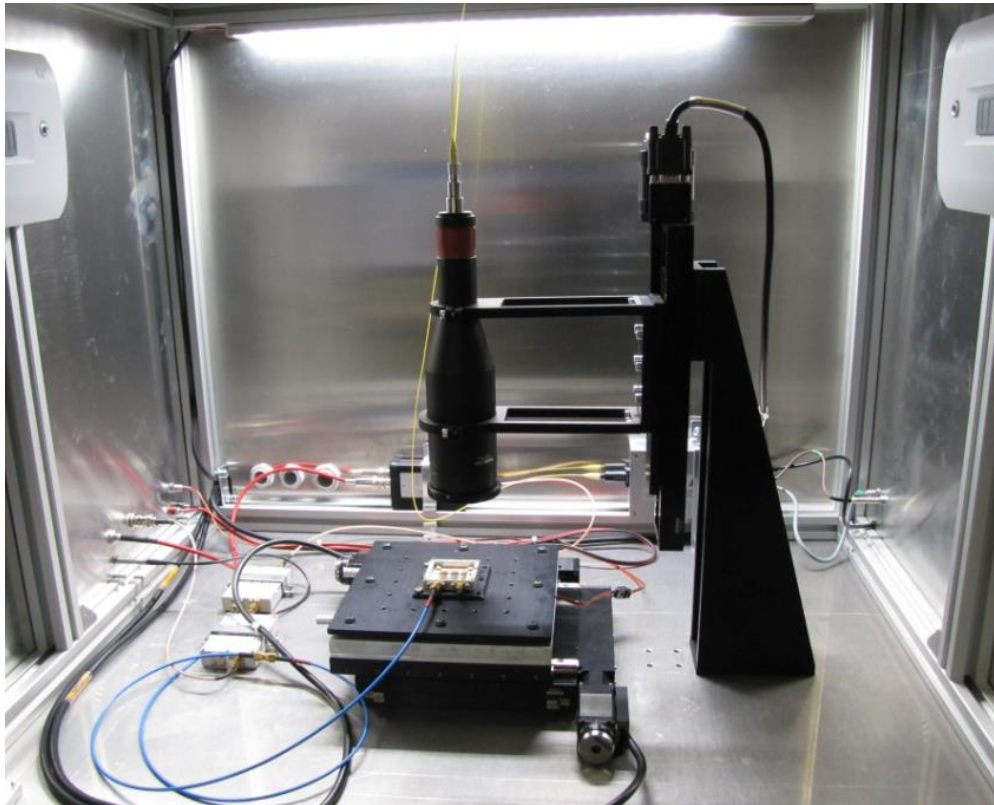
Assembly of optics (I)

- ❑ Follow the instructions for Scanning-TCT for assembling the optics (it usually comes preassembled)
- ❑ The holder for optics should be fixed to the stage as shown in the figure



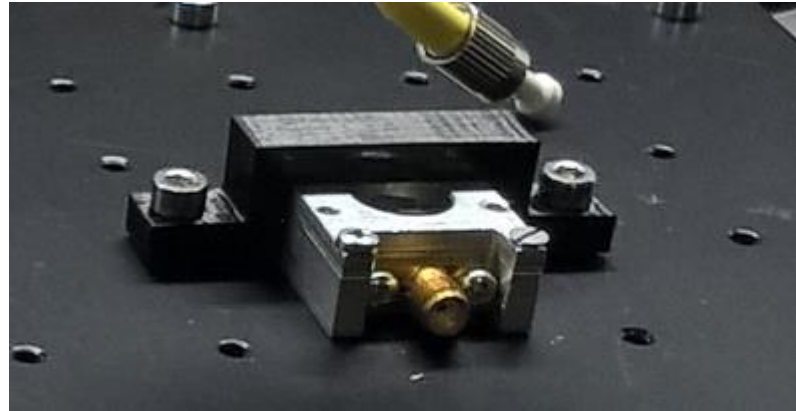
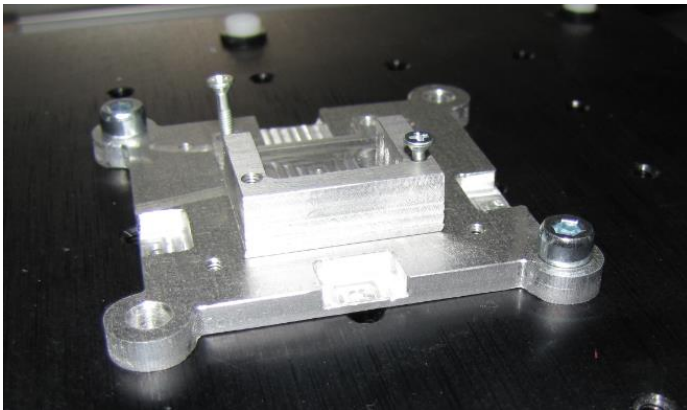
How it should look when assembled.

- ❑ Note that laser should be placed at foreseen location and fiber routed through the holders at the ceiling – make sure nothing comes in its way
- ❑ The laser has a clamp which is used to fix it to the box (grounding)



Mounting plane

- ❑ Mounting plane is a large Peltier cooled surface. An array of four Peltier elements is used (200 W combined) to cool the 10x10 cm² surface. Two are connected in parallel – therefore maximum 30 V can be applied (15 V on each) and as much as 7 A.
- ❑ Isolate the unused part of the surface to minimize the loss
- ❑ For smaller samples an adapter or a clamp is also supplied (see below)





Have fun