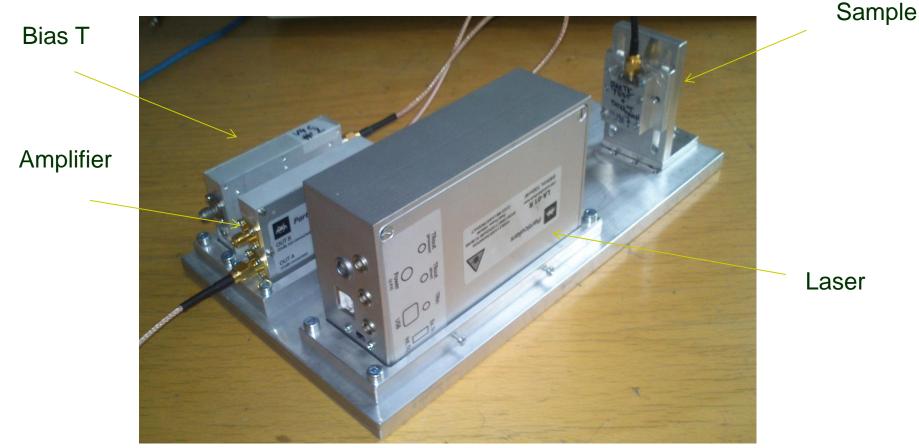
Demonstration of a Compact TCT System

Particulars Ltd. (www.particulars.si) For any additional information contact: gregor.kramberger@particulars.si

Compact TCT setup

Very light, portable with state of the art performance. Suitable for material studies and educational purposes. It comes with full data acquisition to a PC.



The lid covering the setup is not shown.

Laser

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- laser diodes (free or coupled to optical fibre) from 405 nm to 1064 nm, power few-hundred mW (DC)
- pulse lengths from 350 ps to 4000 ps
 - operation modes:
 - single pulses, 50 Hz to 1 MHz
 - pattern mode: 1024 bit deep sequence (repetition mHz to 100 kHz)
 - full control over USB

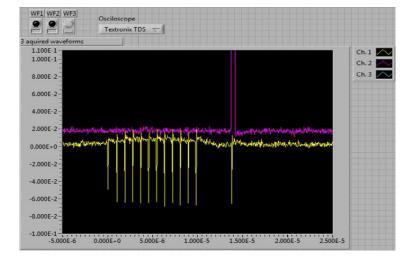




Lasers (free and fiber coupled)

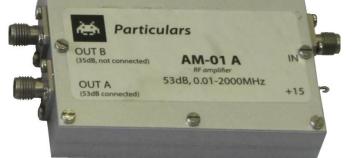


Pulse sequence (yellow), trigger pulse (pink)

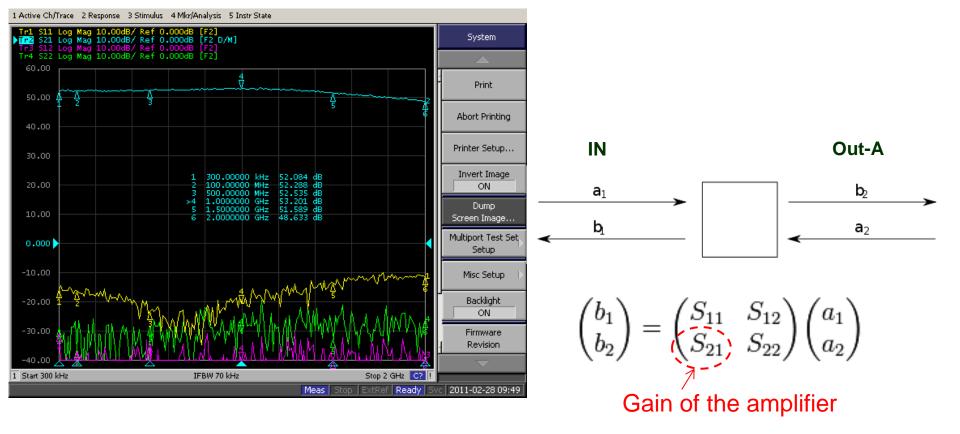


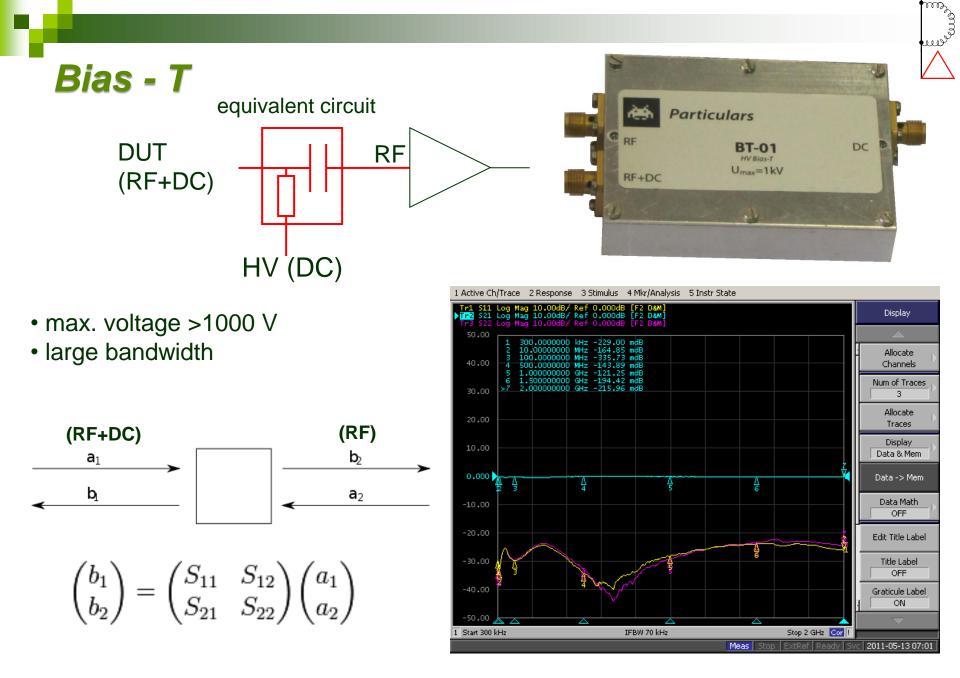
Wide band current amplifier

- bandwidth <0.3 kHz >2 GHz
- possibility of high gain or low gain outputs



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Detector mounts

Different detector mounts are available:

- Standard RD50 pad detectors
- Strip detectors Edge-TCT (to be used with our full Scanning-TCT)
- Strip detectors (to be used with our full Scanning-TCT)

Detector mounts can be connected to our Peltier coolers:

- ➢ air cooled (to around 0°C)
- Water cooled (to around -20°C)
- Multi stage water cooled (to around -50°C)

