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# Equipment

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- IR camera FLIR T1020
- Instron 3343 tensile tester with a measuring range of +/-1000N (tension/pressure)
- Transmission electron microscope JEOL JEM 1400+ (LaB6 cathode, max. 120kV, direct magnification 50-1 200 000x, EDS SDD 129eV-Mn)
- Scanning electron microscope JEOL IT500 HR (cold Shottky cathode, resol. ? 1 nm @30kV, 500V - 30kV, HV, LV ( up to 150Pa), magnification 5- 300 000x, sample chamber up to 125x100x80 mm)
- 3D Printer Stratasys 30 Objet Prime (brachytherapy prints, teaching assignment)
- Nikon Eclipse TE2000-E / C1 confocal microscope, complete with spectral detector
- Nikon Eclipse 90i fluorescence microscope, complete with metallographic objectives and illumination for reflected light observation
- Nanosurf NaioAFM atomic force microscope
- Nanosrf NaioSTM scanning tunneling microscope
- Portable device for registration of visual evoked potentials (own patented design)
- 16 VEP - TrueTrace (Deymed), registers visual evoked potentials, allows registration of eye movements
- 64-channel EEG - TrueScan (Deymed), used for mapping brain activity with a sampling rate of up to 3 kHz
- HEP perimeter (Heidelberg Engineering) - computerised perimeter for flicker stimulus examination
- OCT Spectralis (Heidelberg Engineering) - the device allows examination of the retina with a resolution of micrometer units
- EyELink 1000 plus (SR research) - device for registration of eye movements
- NeuroConn DC Stimulator Plus (neurocare group AG) - single channel device for non-invasive transcranial current stimulation
- MagStim R30 (Magventure) - TMS device for non-invasive transcranial repetitive stimulation