

Interdisciplinary Sensors and Microwave Devices Laboratory

Software
CAD software: COMSOL Multiphysics 5.6 (Wave optics module), HFSS, ADS.
Equipment for fabrication
- Optical fibre fusion splicer T-72C - Optical fibre cleaver Sumitomo FC-6RS - Voltera V-one PCB printer - Monoprinter2 3D SLA-DLP resin printer - Dimatix materials printer DMP-2831 - FormLabs 3D Form 3+ SLA printer - Wire bonding machine Kulicke & Soffa 4523 - Electroplating station GSPlating HSEPS-2013 - Weighing machine Mettler Toledo ML203T/00 - Hotplate and stirrer Thermo Scientific SP8850105 - Ultrasonic cleaner 3sae Technologies ACC-01-01XX
Measurement equipment
- Optical workstation Newport M-VIS3036-SG2-325A - SPR Spectrometer (NanoSPR77) - Probe station Süss Microtec PA200 - Spectrometer Ocean Insight HR4PRO-XR-ES - Spectrometer IBSEN Freedom C-VIS-NIR FCT-109 - Optical Power Meter Thorlabs PM-100D + S130C - Vector network analyser PicoVNA 106 300kHz - 6GHz Quad RX - Oscilloscope - Lock in amplifier
Other equipment
- Telstar vertical laminar flow cabinet CAM 9000 - Hydrogen generator VICI DBS PG-100 plus - Gas chamber Applied Vacuum Engineering AVE21072020/ACB - Wet bench, and fume extractor (custom fabrication) - Microscope Di-Li 2001 - Light source Ocean Insight HL-2000 - Soldering station Weller WX1

- DC source TTI EX354RD dual power supply
- Desiccator Nalgene 5317-0120
- Automated translation stage ThorLabs LTS150/M