

Interdisciplinary Sensors and Microwave Devices Laboratory

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1. EQUIPMENT

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-20 B Weighing machine Mettler Toledo ML203T/00 Hotplate and stirrer Thermo Scientific SP8850 I05 Ultrasonic cleaner 3sae Technologies ACC-0 I-0 IXX
Measurement equipment:
Optical workstation Newport M-VIS3036-SG2-325 A 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 CAM9000
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