

**Hong Kong Science and Technology Parks Corporation
Medical Device Testing Laboratory**

Equipment List

No	Equipment	Model	Specification
1	Universal Mechanical Tester	MTS Acumen 3 AT	Dynamic force: Max 3000 N / Static force: Max 2000 N / Torsion: Max 30Nm
2	Universal Mechanical Tester	Hualong WDW-10	Static force: 10000 N
3	Temperature and Humidity Chamber	ESPEC PL-2J	Temp: -40 - 100°C / RH: 20 - 98%
4	Temperature and Humidity Chamber	ESPEC SH-661	Temp: -60 - 150°C / RH: 30 - 95%
5	Temperature Chamber	Espec SU-242-5	Temp: -40 - 150°C
6	Sintering Furnace*	Ivoclar Vivadent Programat S1	Max Temp: 1600 °C
7	Furance*	Nabertherm 1650C LHT03/17D	Max Temp: 1650 °C
8	SandBlaster*	Sirio SR 923 R	N/A
9	Grinder & Polisher*	Buehler EcoMet 30 Twin Manual Grinder-Polisher	50-500rpm stepless speed
10	Precision Cutter*	Buehler IsoMet 1000 Precision Sectioning Saw	Blade Speed: 100-975rpm
11	High Speed Precision Cutter*	Buehler IsoMet High Speed Precision Cutter	Blade Speed: 200-5000rpm
12	Ultrasonic Bath*	Crest 1875DAE	N/A
13	Stereo Microscope*	Leica S6D	Magnification: 6.3x - 40x
14	Roughness Tester*	Taylor Hobson Surtronic S-128	Ra: 400µm/100µm/10µm
15	Benchtop Power Supply*	Rohde & Schwarz NGA100	Single output 35V 6A High accruacy (0.15%)
16	Benchtop Power Supply*	Rohde & Schwarz NGM201	1 Channel, 20V 6A, with battery simulation
17	Oscilloscope*	Rohde & Schwarz RTB	Bandwidth 200MHz Channels: 2+ 16 Digital Sample rates 2.5Gsample/s Application Bundle (I2C, SPI, UART, ARB Generator)
18	Oscilloscope*	Rohde & Schwarz MXO44	Bandwidth: 1 GHz, 4+16 Channels 18bit HD mode 4.6Mwfms/s acquisition rate 400Mmpts acquisition memory 5Gsample/s 4 passive 700Mhz probes
19	Benchtop Digital Multimeter*	Rohde & Schwarz HMC8012	5 3/4 Digit Display 0.015% acc. (Vdc) Vdc:400mV -1000V ; Idc 20mA-10A Vac: 400mV-750V; Iac: 20mA to 10A freq: 5Hz-700kHz 12 Measurement Function: DCV, DCI, True RMS, ACV and ACI,Frequency, 2- and 4-Wire Resistance, Capacitance, Continuity,Diode Test, Temperature, Power
20	Network Analyzer*	Rohde & Schwarz ZNL	Network Analyzer + signal analyzer up to 6Ghz 40Mhz signal analysis bandwidth Time Domain Calibration kit: 3.5mm 2pcs Calibration cable
21	Scanning Electron Microscope	Carl Zeiss Gemini 300	Acceleration: Voltage 0.02-30kV Resolution < 0.9nm at 30kV (<1.5 nm at 1kV) Equipped with Back-scattered and In-lens detectors EDX capability for Elemental Composition Analysis Can handle both conductive and non-conductive samples
22	3D X-Ray	Nordson Dage XD7600NT	10 W maximum target power < 0.10 µm feature recognition 30 - 160 kV for < 4 W target power (< 0.95 µm feature recognition when above 4 W) Maximum inspection area: 20" x 17.5" (508 x 444 mm) 2,500 X geometric magnification 3D scanning and reconstruction

*Remark: Equipment for Lab Access Service