

Modaplex System Specifications

Instrument Dimensions

Depth:	61 cm / 24.0 inch
Height:	51 cm / 20.0 inch
Width:	84 cm / 33.1 inch
Weight:	122 kg / 270 lb

Instrument Specifications

Technology:	Automated Polymerase Chain Reaction and Capillary Electrophoresis. Sample preparation as for standard PCR.	
Throughput:	48 samples per run.	
Run time:	Instrument run: 2.5 – 3 hours; Data analysis: 15 minutes;	
Optical System:	Excitation source: 488 and 639 nm lasers; Detector: Integrated CCD camera	
Consumables:	Modaplex Cartridge, POP-7 gel, Modaplex Buffer, Modaplex Decon, Modaplex Wash	
Assay Modalities:	Mutations	miRNAs
	Copy number variations	Methylation
	Gene expression	Polysomy
	Gene fusions	Splicing variants
Sample Material:	Isolated DNA and RNA from:	
	Tissue	Whole blood
	Cell lines	Stool
	FFPE	Fungi
	Liquid biopsies	Bacteria
	Plasma	Viruses.
Serum		
Reaction Volume:	20 – 50 µl	
Software:	Integrated Modaplex software; Assay dependent data interpretation modules	
Additional Components:	Integrated barcode reader; Touchscreen monitor, keyboard and mouse included	
Service:	Full Service Agreements available	

Instrument Performance

Targets:	Up to 50 targets per well can be quantified
Required Sample Input:	2 ng *
Sensitivity [% mutations in healthy background]:	0,1 – 5% *

* – (assay dependent)

Power Requirements

Power consumption:	≤ 1000 W (peak); 250 W (standby);
Power Supply:	110 – 240 VAC ± 10%; 50-60 Hz