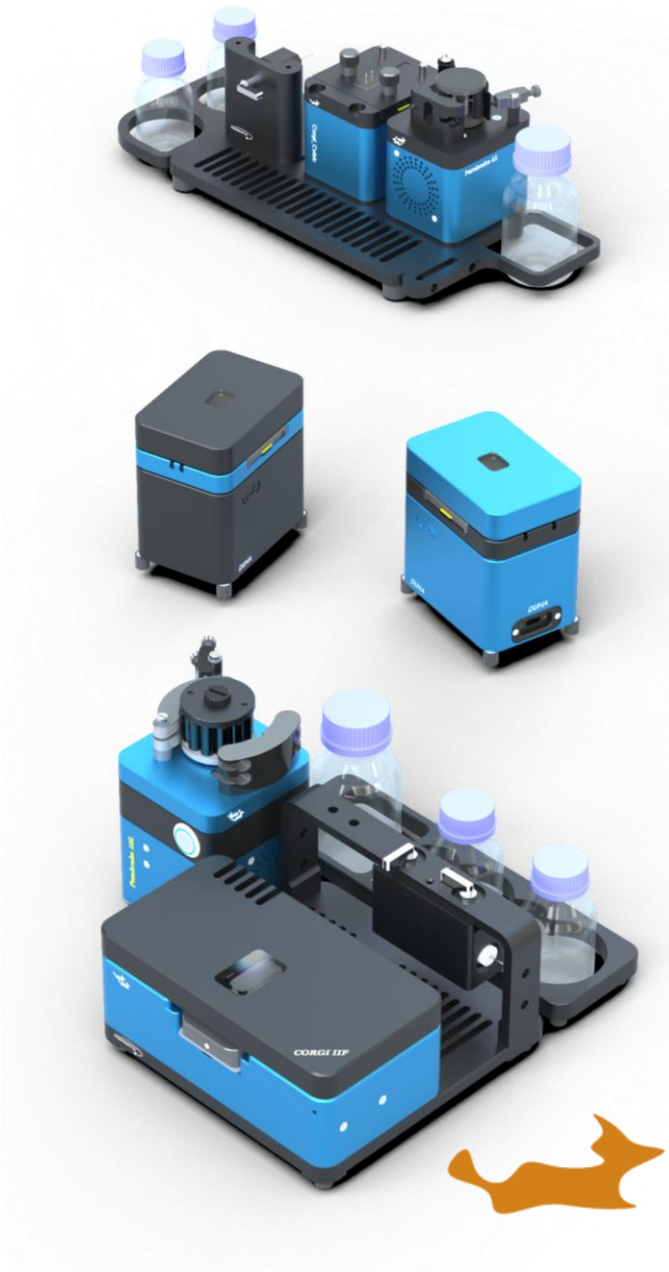
Plasmetrix Inc products. Datasheets.



www.plasmetrix.com
contact@plasmetrix.com

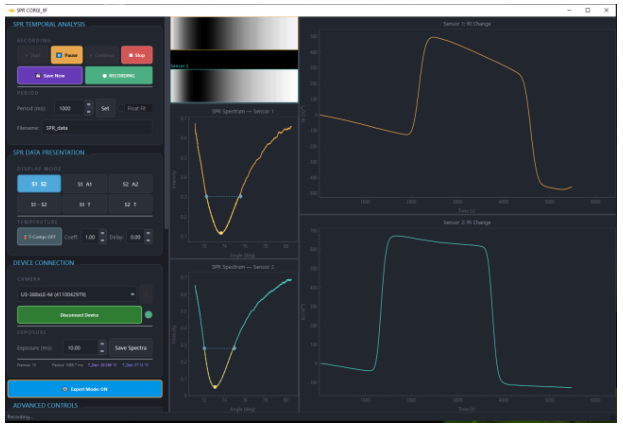
Plasmetrix Inc Surface Plasmon Resonance devices:

Compact Optical Research Instrument "Corgi IIF"

The flagship dual-channel SPR platform for researchers who need simultaneous reference and sample measurements. Ideal for kinetic studies, binding affinity determination, and real-time biosensing with temperature compensation.

Specification:

Measuring principle	Angular SPR
RI range	1.33 – 1.36 RIU
Working Wavelength	650 nm
Throughput	Double channel
Flow channel volume	1.5mL
Flow rate range	0 - 100mL/min
Detection resolution	up to 1*10-6 RIU
Sample injection method	Pipette, Pump
Detector	2D CMOS
Sensor chip	50nm gold coated 12.6 x 7mm
Data processing	via USB3.1 port
Control software	Visual C++
Power Requirements	USB3.1 powered
Temperature compensation	Integrated Temperature sensor
Outer Dimension	80(W)x150(L)x40(H)mm



Low Cost

Visual Flow Control

SPR & Microscopy

Easy to Use

Double channel **Transparent** Flow-injection cell

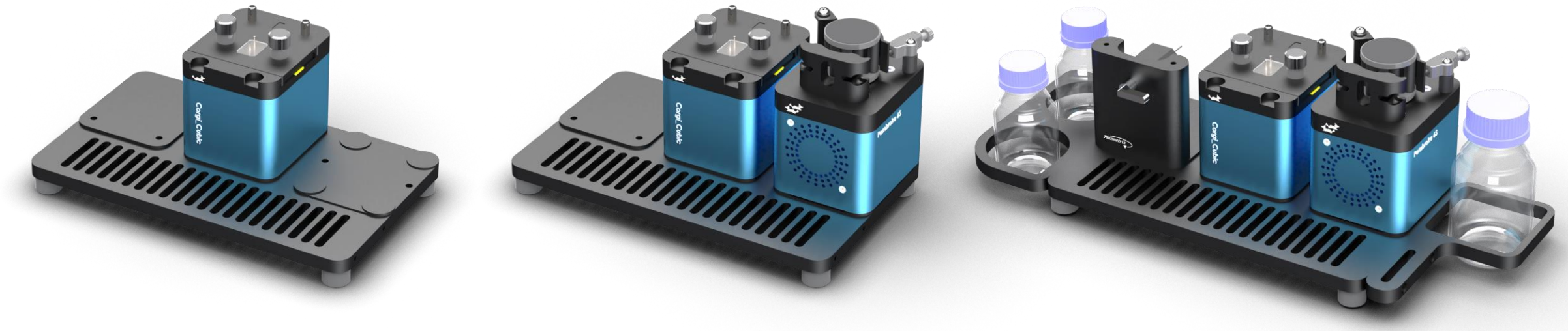
Integrated temperature sensor - **External temperature** compensation

Portable: USB3.1 C-type **single cable for** Data processing & **Power supply**

Accessories: SPR **Chips**, Manual fluidic **Valves**, portable peristaltic **Pumps**

Plasmetrix Inc Surface Plasmon Resonance devices:

Compact Optical Research Instrument "Corgi_Cubic"



CORGI_Cubic SPR device specification:

Measuring principle	Angular SPR
RI range	1.33 – 1.36 RIU
Working Wavelength	650 nm
Throughput	Single channel
Flow channel volume	1.5mL
Flow rate range	0 - 100mL/min
Detection resolution	up to 1*10-6 RIU
Sample injection method	Pipette, Pump
Detector	2D CMOS
Sensor chip	50nm gold coated 12.4 x 5mm
Data processing	via USB3.1 port
Control software	Python, Visual C++
Power Requirements	USB3.1 powered
Temperature compensation	Integrated Temperature sensor
Outer Dimension	60(W)x72(L)x74(H)mm

+

Pembroke 6S peristaltic pump specification:

Pump head	6 Rollers
Channels	1
Speed range	1-100rpm
Flow rate	continuously adjustable 0.0017 – 20 ml/min
Tube holder	Universal – for various types of pump tubing
Direction of rotation	Right/left switchable
Power required	24v Power supply,
Data processing	via USB2.0 port
Outer Dimension	63(W)x62(L)x90(H)mm
Control software	Python, Visual C++

+

One manual Fluidic valve (Hamilton)

Baseboard

= ***"Corgi_Cubic Platform"***

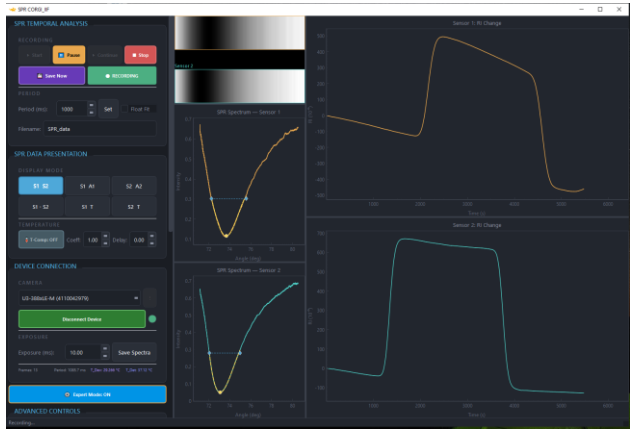
Plasmetrix Inc Surface Plasmon Resonance devices:

Ultra-Compact SPR Instrument "DUNA"

Plasmetrix DUNA SPR is an ultra-portable double-channel surface plasmon resonance system engineered to deliver robust performance and high sensitivity at exceptional value. Designed for universities, research institutes, and biotechnology companies, it accelerates discovery through practical, cost-effective plasmonic solutions—while serving as a powerful platform for the development of next-generation point-of-care (POC) diagnostic technologies.

Specification:

Measuring principle	Angular SPR
RI range	1.33 – 1.36 RIU
Working Wavelength	650 nm
Throughput	Double channel
Flow channel volume	1.5mL
Flow rate range	0 - 100mL/min
Detection resolution	up to 1*10-6 RIU
Sample injection method	Pipette, Pump
Detector	2D CMOS
Sensor chip	50nm gold coated 12 x 7mm
Data processing	via USB3.1 port
Control software	Python, Visual C++
Power Requirements	USB3.1 powered
Temperature compensation	Integrated Temperature sensor
Outer Dimension	60(W)x85(L)x86(H)mm



CORGI Control Software