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Bio-Plex 200 Systems

The Bio-Plex suspension array system offers protein and nucleic acid researchers a flexible and reliable multiplex assay solution that permits analysis of up to 100 biomolecules in a single sample.
Read more

- Bio-Plex Array Reader Design

Ordering information

On this page
Bio-Plex 200 Systems

Have Questions?
Contact an Expert ↗
Give Feedback

Overview

The Bio-Plex 200 system is a suspension array system which offers protein and nucleic acid researchers a reliable multiplex assay solution that permits analysis of up to 100 biomolecules in a single sample.

Included System Components

- **Array reader** — combines 2 lasers, high-throughput fluidics, and real-time digital signal processing to distinguish up to 100 different color-coded bead sets, each representing a different assay

- **Microplate platform** — automates the reading of 96-well plates, yielding up to 9,600 data points in about 35 min
- **Calibration and validation kits** — system tools for daily calibration of signal output and for IQ/OQ and monthly validation of the primary performance parameters of the reader
- **Bio-Plex MCV plate IV** — maintenance, calibration, and validation (MCV) plate customized for hands-free startup, shutdown, and performance testing
- **PC and monitor** — includes Windows 10 operating system, Bio-Plex Manager, Microsoft Office and Adobe Acrobat Reader software, and a 17" flat-screen monitor"
- **Bio-Plex Manager software** — controls the instrument, data acquisition, and data analysis for superior curve fitting, statistics reporting, and charting features, without requiring the exporting or importing of files
- **Bio-Plex SNP Manager™ data analysis utility** — simple-to-use data analysis tool for nucleic acid applications

Bio-Plex Quick Tip Videos



Bio-Plex Quick Tips — Planning for Assay Success Part 1



Bio-Plex Quick Tips — Planning for Assay Success Part 2



Bio-Plex Quick Tips — Planning for Assay Success Part 3

Related Technologies

› Bio-Plex Assay Data Analysis

Related Products

› Bio-Plex 100 and 200 Components and Consumables

› Bio-Plex System Validation and Calibration Tools

› Bio-Plex Manager Software, Standard Edition

› Bio-Plex Software® Upgrades and Conversions

› Bio-Plex 3D Suspension Array System

› Bio-Plex Pro Wash Station

› Bio-Plex Manager™ Software, Security Edition

› Aurum™ Vacuum Manifold

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Specifications

Environment conditions

Operating temperature	15–30°C (59–86°F)
Operating humidity, noncondensing	20–80%
Operating altitude	Designed to operate at up to 2,000 m (6,600') mean sea level
Compensatory range	±2°C
UL installation category	UL Installation Category II, as defined in Annex J of UL 3101–1
Pollution degree	UL Pollution Degree 2, as defined in Section 3.7, 3.2, of UL 3101–1

Bio-Plex Array Reader Specifications

Input voltage range	100–240 V, 1.5 A, 47 – 63 Hz
Physical dimensions (W x D x H), cm	43 x 51 x 23
Weight, kg/lb	23/60

Lasers

Reporter laser	532 nm, >10 mW, frequency-doubled diode; 30 x 60 µm elliptical beam
Classification laser	635 nm, 10 mW, diode; 30 x 60 µm elliptical beam

Fluidics

Sheath flow rate, µl/sec	90
Cuvette	200 µm square flow channel
Sample injection rates, µl/sec	60

Electronics

Reporter channel detection	Photomultiplier tube, A/D resolution 14 bits
Classification and doublet discriminator channel detection	Avalanche photodiodes with temperature compensation, A/D resolution 12 bits

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Communication interface	RS–232

Signal Processing

Measurement resolution	15 bits effective
Processor modes	Linear, with logarithmic or linear display option
Dynamic range, dB	70

Bio-Plex Microplate Platform Specifications

Input voltage range	100–240 V, 1.8 A, 47–63 Hz
Physical dimensions (W x D x H), cm	44 x 61 x 8
Weight, kg/lb	14.4 (32)
Communications interface	RS–232
Plate capacity	One 96-well microtiter plate, ≤0.75

Ordering



Bio-Plex® 200 System

171000201

100–240 V, multiplex array system, includes reader, microplate platform, Bio-Plex Manager™ 6.0 software, PC, calibration kit, validation kit 4.0, MCV plate IV, reservoir, sheath fluid, 2 sample needles

List Price: **Inquire**

Quantity: 1 **Add to Quote**

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Bio-Plex® 200 System With HTF

171000205

100–240 V, multiplex array system (#171-000201) with high-throughput fluidics

List Price: **Inquire**

Log in to see your price

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Quantity: 1 Add to Cart

Add to Quote Buy It Now

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Accessories



Bio-Plex® Handheld Magnetic Washer

171020100

Includes magnetic washer and adjustment hex tools for use in manual wash steps for all Bio-Plex Magnetic Assays

List Price: **$1,204.00**

Log in to see your price

Quantity: 1 Add to Cart

Add to Quote Buy It Now

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Sheath Fluid

171000055

20 L, 1x fluid in cube container with pour spout, for use with the Bio-Plex® 200 and Bio-Plex 3D system array readers and high-throughput fluidics (HTF) system

List Price: **$99.00**

Log in to see your price

Quantity: 1 Add to Cart

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Sheath Fluid Bottle

171002010

Pkg of 1, 1 L polypropylene bottle with sheath-fluid and air-intake ports and tubing, for use with the Bio-Plex 200 system

List Price: **$612.00**

Log in to see your price

Quantity: 1 Add to Cart

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Sheath Waste Bottle

171002012

Pkg of 1, 1 L polypropylene bottle with waste port and tubing, for use with the Bio-Plex 200 system

List Price: **$612.00**

Log in to see your price

Quantity: 1 Add to Cart

Add to Quote | Buy It Now

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Sample Needle

171002020

Pkg of 1, 11.6 cm (4.6"), long stainless steel sampling needle for use with the Bio-Plex 200 system

List Price: **$451.00**

Log in to see your price

Quantity: 1 Add to Cart

Add to Quote | Buy It Now

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Alignment Guide with Shipping Pin

171002024

Pkg of 1, replacement fitting and blue shipping pin for Bio-Plex 200 system; aligns array reader on microplate platform

List Price: **$367.00**

Log in to see your price

Quantity: 1 Add to Cart

Add to Quote | Buy It Now

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Needle Adjustment Wrench

171002026

Pkg of 1, tool for adjusting sample needle on the Bio-Plex 100 system

List Price: **$140.00**

Log in to see your price

Quantity: 1 Add to Cart

Add to Quote | Buy It Now

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Protective Shield for Sample Needle

171002030

List Price: **$197.00**

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Pkg of 1, covering for sample needle on the Bio-Plex 200 system



Log in to see your price

Quantity: 1 Add to Cart

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Air Intake Filter

171002032

Pkg of 1, replacement maintenance part for the Bio-Plex 200 system

List Price: **$345.00**

Log in to see your price

Quantity: 1 Add to Cart

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Syringe Seal

171002033

Pkg of 4, replacement maintenance parts for syringe plunger on the Bio-Plex 200 system

List Price: **$100.00**

Log in to see your price

Quantity: 1 Add to Cart

Add to Quote | Buy It Now

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Syringe Seal With Cylinder

171002034

Pkg of 1, replacement syringe assembly for internal fluidics system on the Bio-Plex 200 system

List Price: **$633.00**

Log in to see your price

Quantity: 1 Add to Cart

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Sheath Fluid Filter With Quick Connect Tubing

171002038

List Price: **$303.00**

Log in to see your price

Give Feedback



Pkg of 1, replacement maintenance part for internal fluidics system on the Bio-Plex 200 system; removes >5 µm diameter particles

Quantity: 1 Add to Cart

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Sheath Cube Filter

171002040

Pkg of 1, replacement maintenance part for use with high-throughput fluidics (HTF) system and Bio-Plex 200 system; removes >10 µm diameter particles

List Price: **$338.00**

Log in to see your price

Quantity: 1 Add to Cart

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HTF Tubing

171002056

Pkg of 1, air tubing HTF to reader, sheath tubing HTF to reader, tubing sheath container to HTF (including 10 µm filter), and waste tubing (reader to waste container)

List Price: **$712.00**

Log in to see your price

Quantity: 1 Add to Cart

Add to Quote Buy It Now

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Documents

Number	Description	
6006	Bio-Plex MAGPIX, Bio-Plex 200, and Bio-Plex 3D Systems – Comparable Performance Across the Board, Product Information Sheet, Rev A	
6457	The Bio-Plex Success Guide for Multiplex Immunoassays, Rev B	
5405	Bio-Plex® Multiplex System Brochure, Ver E	Add to Cart (Free)
6156	Composite Profiling of Angiogenic Factors Using Bio-Plex Pro Human Cancer Biomarker Panel 1, Rev A	
3076	Bio-Plex Care and Maintenance Quick Guide, Rev B	

2993	Bio-Plex Glossary, Rev A
4100205	Bio-Plex Maintenance Log, Rev A
5336	Bio-Plex Suspension Array System Nucleic Acid Analysis Flier, Rev B
3000	Correlation of Bio-Plex Suspension Array Reader Validation With Multiplex Cytokine Assay Performance, Rev A
10005042	Instruction Manual, Bio-Plex 200 System Hardware Instruction, Rev G
4100180	Instruction Manual, Bio-Plex Protein Array System High Throughput Fluidics (HTF) System, Rev A
5578	Xenograft Samples By Bio-Plex Tech note, Rev A
2879	Bio-Plex System Tools Brochure, Rev C
6458	Bio-Plex Success Guide/Assay Sample Prep, Rev B

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