

Juno

- **Efficient:** Reduce costs with nanoliter-scale reaction volumes and walkaway automation
- **Flexible:** Perform NGS library preparation or pair with a Biomark™ HD to implement genotyping, sample identification, gene expression and copy number variant analysis and digital PCR
- **Scalable:** Scale from 12 to 192 samples and assays per run, depending on the application
- **Proven:** Deliver reproducible results day after day using robust microfluidic automation that you can rely on

Core Technology

At the heart of the Juno™ platform are Fluidigm integrated fluidic circuits (IFCs) that use patented microfluidics technology to reduce reagent costs and improve scalability using nanoliter-scale reactions. Application-specific IFCs are available in a large variety of formats and configurations to meet institutional needs for genotyping, sample identification, gene expression, CNV analysis, digital PCR, and targeted next generation sequencing (NGS) library preparation. These IFCs, combined with walkaway automation that enhances reproducibility while reducing hands-on time, make Juno a cornerstone of genomic interrogation.

Targeted Library Preparation

The Juno system increases economic return and streamlines library preparation for Illumina®-based targeted NGS. Capable of

generating dozens to hundreds of barcoded sample libraries with one operator in a single day and supporting panels of up to 4,800 amplicons in size, a Juno instrument makes NGS library preparation substantially more affordable, efficient and reproducible.

Supporting PCR-Based Assays

Juno's capabilities are amplified when combined with a Biomark HD or EP1™ system, where it supports IFC processing for the complete suite of Fluidigm IFCs for genotyping, sample identification, gene expression, CNV analysis and digital PCR. Both Biomark HD and EP1 are bundled with powerful data collection and analysis software and both support multiple commercially available chemistries (including TaqMan®, SNP Type™ and Delta Gene™ assays) for genotyping, gene expression and digital PCR.

Whether sequencing gene panels, analyzing tumor microenvironment gene expression, or performing SNP-based sample identification, Juno has been tested and proven in a broad range of applications. This system is ready to help meet your lab's genomic interrogation goals.



Instrument

Thermal control	Peltier-based, ranging from 4 °C to 99 °C Maximum heating rate: >4 °C/sec Maximum cooling rate: >3 °C/sec
Depth	69.8 cm (27.5 in)
Width	43.9 cm (17.3 in)
Height	50.0 cm (19.7 in)
Weight	52 kg (115 lb)
Voltage	100–240 V AC
Frequency	50–60 Hz
Maximum current	8.0 A
Typical average power consumption	Idle: 40 W Operating: 175 W

Data Storage

Ethernet connection	1 GB/sec
Hard drive	40 GB
Port	USB
Computer	Internal CPU with touchscreen interface

Software

System	Juno software v3.9.1 or later
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Work Environment (indoor use only)

Minimum rear clearance	10 cm (4 in)
Minimum front clearance	25 cm (10 in)
Ambient temperature	15–28 °C (59–82 °F)
Humidity	20–80%, noncondensing
Pollution degree	2
Electrical installation	Category II
Altitude	Up to 2,000 m (6,562 ft)

IFC Compatibility

Genotyping	<ul style="list-style-type: none">• Juno 96.96 GT IFC• 96.96 GT IFC• 48.48 GT IFC• 192.24 GT IFC• Flex Six™ GT IFC
Gene expression	<ul style="list-style-type: none">• 96.96 GE IFC• 48.48 GE IFC• 192.24 GE IFC• 24.192 GE IFC• Flex Six GE IFC
Digital PCR	<ul style="list-style-type: none">• 12.765 dPCR IFC• 48.770 dPCR IFC• qdPCR 37K™ IFC
Targeted sequencing	<ul style="list-style-type: none">• LP 48.48 IFC• LP 192.24 IFC

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