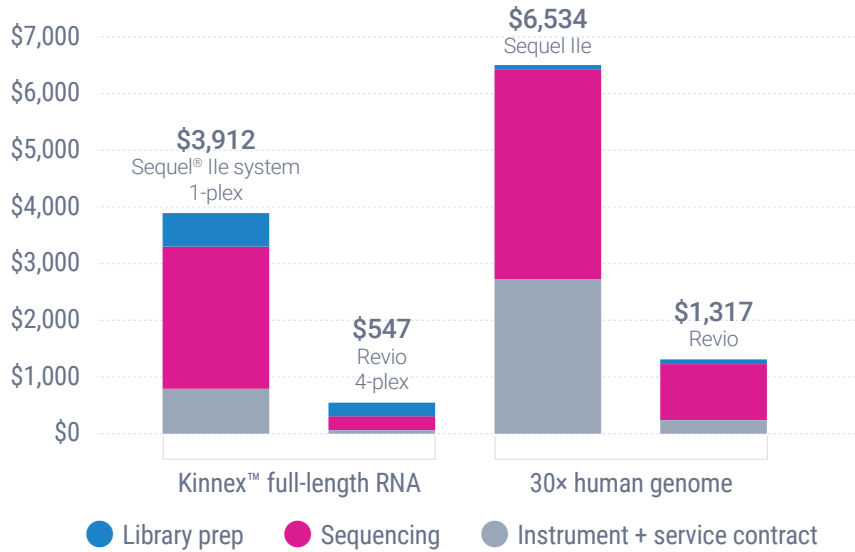


The Revio™ system is built for core labs who want to scale

HiFi sequencing on the PacBio® Revio system brings higher throughput and reduced cost to labs where scale is important.

Total cost per sample*



Key benefits of Revio system



Scale: 1,300 human HiFi genomes per year†



Affordability: \$1,000 human HiFi genome†



Accuracy: 90% of bases ≥Q30 and median read accuracy ≥Q30

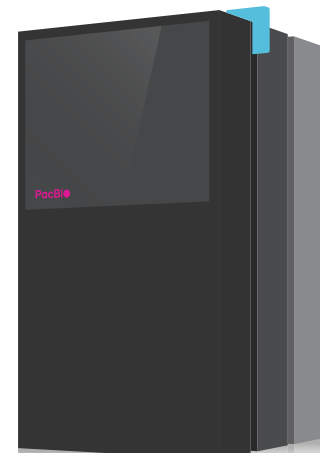
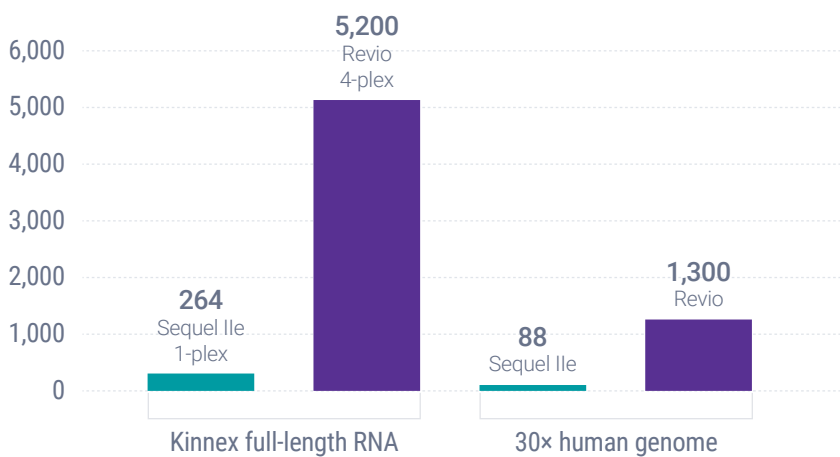


Ease of use: simplified consumables and flexible run setup



Compute power: Google DeepConsensus and more on board

Samples per year



* All pricing is USD list price. Library prep includes: 30x human genome = SMRTbell® prep kit 3.0 + AMPure® PB beads size selection; System amortization = (system list price + two-year service contract) / (total SMRT Cells per year @ 90% utilization) = amortization per SMRT Cell, assumes three-year instrument plan; Kinnex full-length RNA assumes a total of 40M reads regardless of plexity. Sequel IIe system requires three 8M SMRT Cells for 30x human coverage.

† US list price is \$995 for sequencing reagents for one Revio SMRT Cell, which has an expected yield of 90 Gb, equivalent to a 30x human genome. Annual throughput is based on 1,300 Revio SMRT® Cells.

HiFi accuracy, now at scale and with improved economics



15× increase in throughput

With a high-density, 25 million ZMW SMRT® Cell, up to 4 SMRT Cells in parallel, and configurable sequencing run times, the Revio system delivers 360 Gb* of HiFi reads per day, equivalent to 1,300 human whole genomes per year.



\$1,000 complete, phased genome

HiFi sequencing provides detection of small variants, structural variants, repeat expansions, methylation, and haplotype phasing from a single library and sequencing run.



Multiple experiments in a single run

The Revio system has four independent sequencing stages, each of which accepts a different library. With 4 SMRT Cells running in parallel, the Revio system can perform whole genome sequencing, transcriptome sequencing, and amplicon sequencing simultaneously.

Application	Samples per SMRT Cell*	Samples per Revio run using 4 SMRT Cells*	Estimated samples per year†
Whole genome sequencing			
<i>De novo</i> assembly	1	4	~1,300
Variant detection	Structural variants: 3 All variants: 1	Structural variants: 12 All variants: 4	Structural variants: ~3,900 All variants: ~1,300
Microbial <i>de novo</i> assembly	96	384	~124,800
RNA sequencing			
Kinnex single-cell transcriptomics	1	4	~1,300
Kinnex full-length RNA	4	16	~5,200
Targeted sequencing			
Amplicon sequencing	≥1,000	≥4,000	~2.6M for 1–5 kb ~1.3M for 5+ kb
Target enrichment	20 Mb panel: 12 2 Mb panel: 72 100 kb panel: 288	20 Mb panel: 48 2 Mb panel: 288 100 kb panel: 1,152	20 Mb panel: ~15,600 2 Mb panel: ~93,600 100 kb panel: ~374,400
Metagenomics			
Shotgun metagenomic profiling	96 communities	384 communities	~124,800 communities
Shotgun metagenomic assembly	12 communities	48 communities	~15,600 communities
Kinnex 16S rRNA	1,536 communities	6,144 communities	~2M communities

* All sample throughputs are estimates per Revio run using 1 or 4 SMRT Cells. Coverage may vary based on sample quality, library quality, and fragment lengths. Currently available SMRTbell® barcoded adapter plate 3.0 contains 96 SMRTbell barcoded adapters. Whole genome sequencing for a 3 Gb human-like genome at >15× per haplotype for *de novo* assembly, >10× coverage for structural variants, and >30× coverage to detect more variants. Microbial *de novo* assembly assumes microbes with ~1.2 Gb of total genome size per SMRT Cell at >50× per sample. Single-cell transcriptomics assumes ≥80 million reads per library. Full-length RNA assumes a total of 40M reads regardless of plexity. Amplicon sequencing assumes 12-hour movie time for 1–5 kb, 24-hour movie time for 5+ kb, and >50× per sample. Target enrichment assumes >50× per sample.

† Estimated samples per year calculated by assuming 1,300 samples per year for each Revio system run using 4 SMRT Cells, 365 days in a year, and 90% utilization.



Quick return on investment

When run at full capacity, the Revio system can sequence 1,300 SMRT Cells per year. The total instrument cost will be recovered in less than one year by running only ~72 SMRT Cells per month at 2.5x markup.*

Months to recoup Revio system purchase cost

Utilization	SMRT Cells per year	2x markup	2.5x markup	3x markup
90%	1,300	10.7	7.2	5.4
60%	867	16.1	10.7 (ROI in <1 year)	8.1
30%	433	32.2	21.5	16.1
SMRT Cells to recoup Revio system purchase cost		1,159	780	585

* Months of operation required at various capacity levels and consumables markup rates to recoup Revio system cost; Includes assumption of one FTE for three years at \$75k/year, and service contracts (service contract for three years, where first year is included in purchase price and two years at \$75k each).



Simple to operate

A combined reagent and sample plate along with rapid run setup and no external nitrogen supply translates to less labor and a streamlined operating experience.



Financing available

PacBio Capital enhances accessibility by eliminating the up-front capital expenditure barrier. This financing program offers highly competitive rates, six-month, same-as-cash financing option, and a streamlined credit and funding process to fast-track your purchase.



An ecosystem to support you

The PacBio Compatible program integrates products optimized for HiFi sequencing at every step of the workflow for a seamless, highly efficient experience. This includes seamless sample prep and library prep workflow and integrated automation products.



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What will you discover with Revio?



Learn more about the Revio system:

pacb.com/revio



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EMEA: emea@pacb.com

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Revio ordering information

Part number	Product	Description
102-090-600	Revio system	Sequencing instrument
102-301-900	Nanobind CBB kit	HMW DNA extraction for cells, bacteria, and blood (24 reactions)
102-182-700	SMRTbell prep kit 3.0	Library prep for 24 libraries
102-817-600	Revio polymerase kit	Reagents for binding polymerase to 24 SMRTbell libraries
102-202-200	Revio SMRT Cell tray	Tray of 4 Revio SMRT Cells
102-587-400	Revio sequencing plate	Sequencing reagents supporting 4 Revio SMRT Cells

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