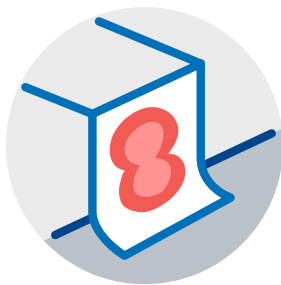
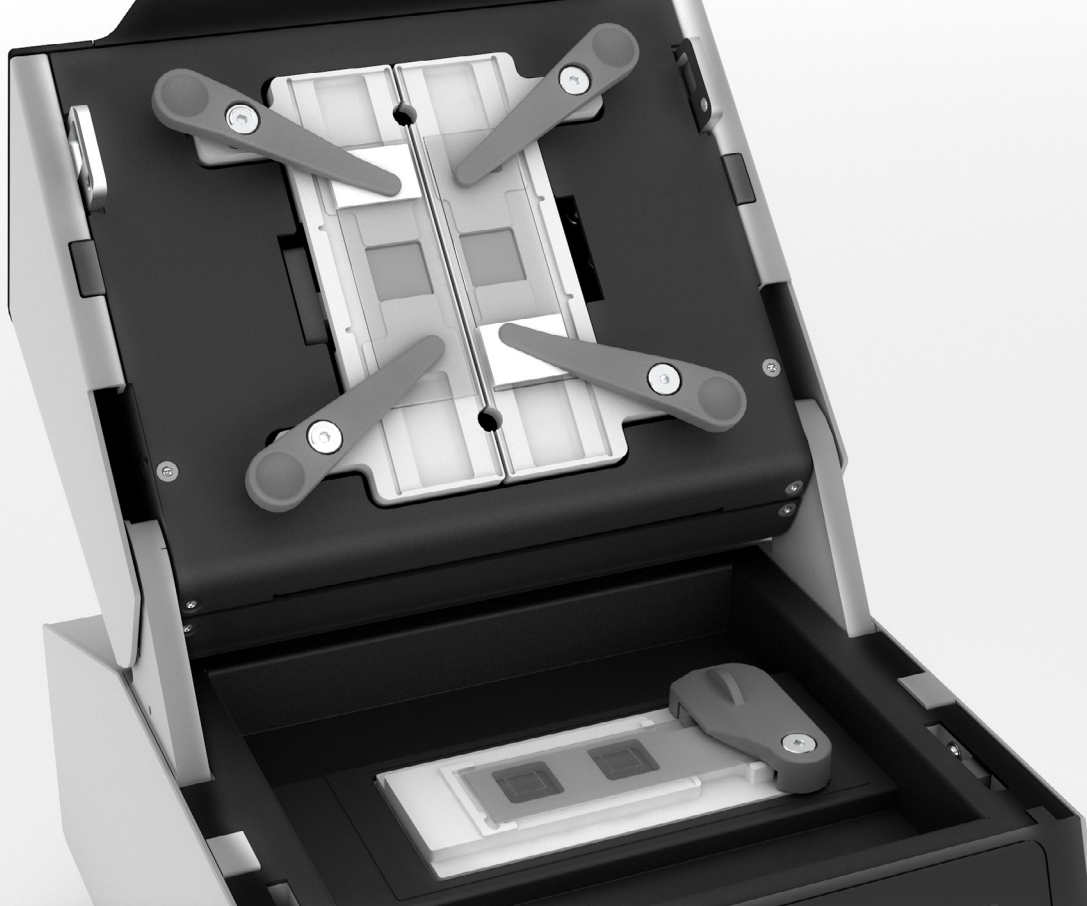




Bridging histology and genomics

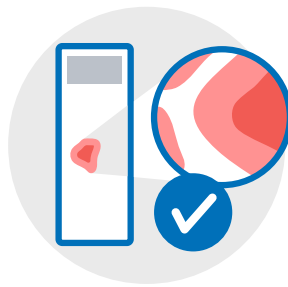
Visium CytAssist





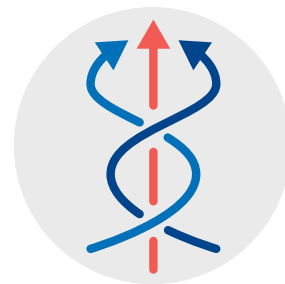
Choice

Start from FFPE blocks, presectioned FFPE, Fresh Frozen, or Fixed Frozen tissues on glass slides



Confidence

Pre-screen to find the most biologically significant tissue sections



Simplicity

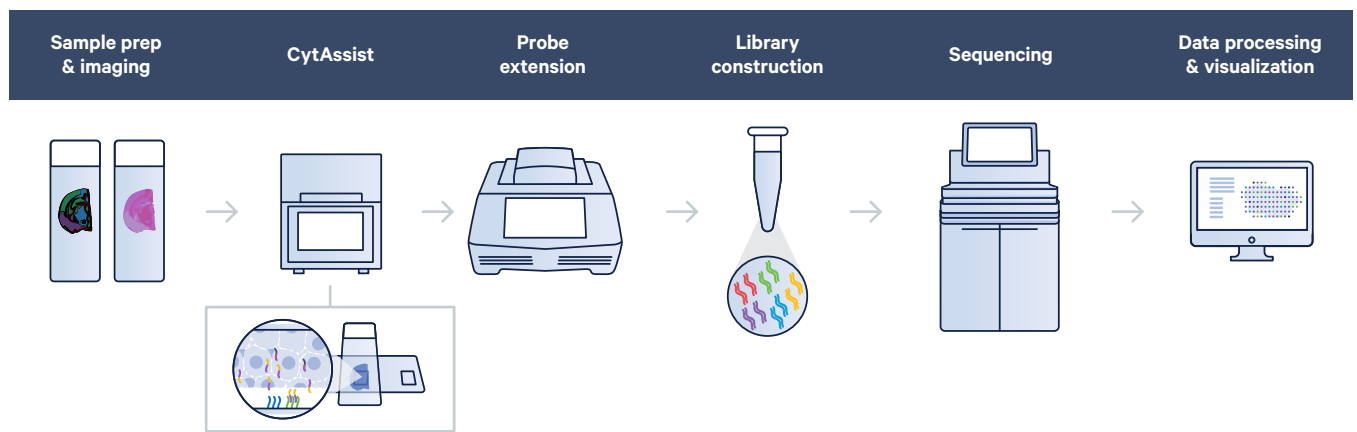
Integrate seamlessly with standard histology workflows

Introducing Visium CytAssist

The new Visium CytAssist is a compact, benchtop instrument that enables the transfer of transcriptomic probes from standard glass slides to Visium slides, enabling spatial profiling insights to be gained from even more samples. Compatible with hematoxylin and eosin (H&E)- or immunofluorescence (IF)-stained tissue sections, CytAssist allows pre-sectioned tissues to be used for the Visium workflow. You can further maximize your Visium experiments by screening tissue sections using standard histological techniques to find biologically significant sections and then precisely align those sections within the Visium slide Capture Area using CytAssist.

Expand access and simplify sample management

Visium CytAssist lets you begin your spatial profiling experiment by sectioning your tissue onto a standard glass slide. Just like your typical histology workflow, you can then deparaffinize, stain (H&E or IF), and image the sections. When you are ready to begin spatial profiling, the sections are de-crosslinked and hybridized with transcriptomic probes to inform presence of a target RNA. Following probe hybridization, Visium CytAssist facilitates transfer of these transcriptomic probes from the glass slide to a Capture Area on the Visium slide. Within the instrument, two standard glass slides and a two-Capture Area Visium slide are placed so that the tissue sections on the glass slides are aligned on top of the two Visium Capture Areas. You can then proceed with the remaining steps of the Visium workflow.



Facilitate transfer of transcriptomic probes from FFPE or frozen samples with Visium CytAssist. In the Visium CytAssist workflow, sectioning, deparaffinization, and staining and imaging (H&E or IF) take place on a standard glass slide. After probe hybridization, two standard glass slides and a two-Capture Area Visium slide are placed in the CytAssist instrument so that the tissue sections on the standard slides can be aligned on top of the two Visium Capture Areas. Within the instrument, a brightfield image is captured to provide spatial orientation for data analysis, followed by hybridization of transcriptomic probes to the Visium slide. The remaining steps, starting with probe extension, follow the standard Visium workflow outside of the instrument.

Highlights

- Simplify sample handling with facilitated transfer of transcriptomic probes from standard slides onto the Visium Capture Area
- Expand sample compatibility to pre-sectioned and pre-stained tissues on standard glass slides
- Maximize insights from Visium experiments by prescreening tissue sections with standard histological techniques to select biologically significant sections
- Precisely capture up to two FFPE or frozen tissue sections per run in less than one hour using Visium CytAssist



Visium CytAssist compatibility

- Visium 2-reaction slides with 6.5 x 6.5 mm or 11 x 11 mm Capture Areas
- Visium Spatial Gene Expression

Visium CytAssist target specifications

Weight	18.3 lbs
Dimensions (max)	8" x 12" x 13.1" (W x D x H)
Samples per run	2 input tissue sections
Temperature range	32–55°C
Run time range	30–90 minutes

Contact us

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LIT000161 - Rev D - Brochure - Bridging histology and genomics - Visium CytAssist

