

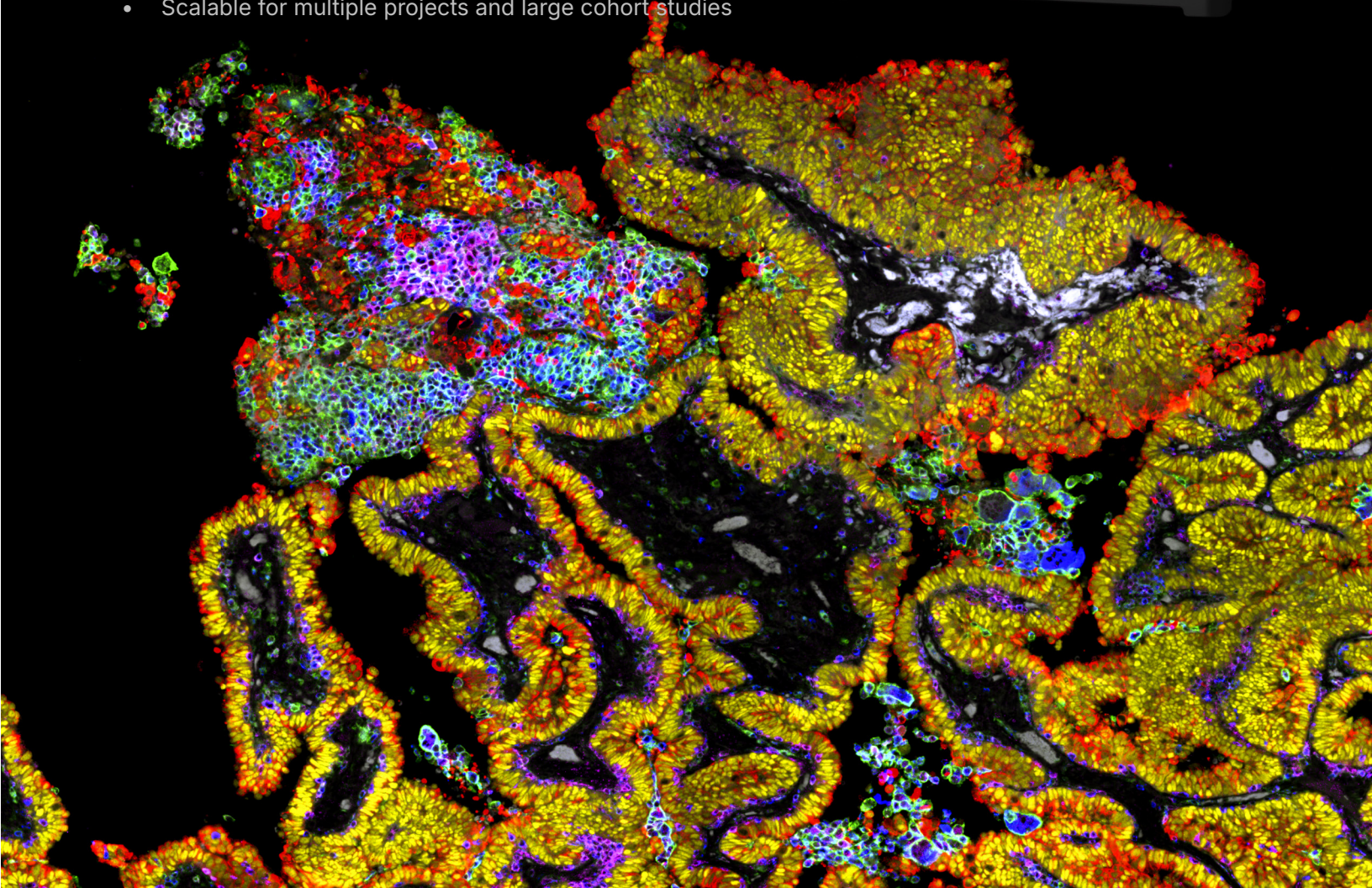
Orion™ HT

Spatial Biology at Clinical Scale

Powered by paradigm-shifting 20 channel per round technology, Orion unlocks the biomarker depth, throughput, and data quality clinical researchers require to translate spatial insights into clinical impact.

Orion HT: High-capacity 24/7 automation

- 20 channel high-speed imaging
- >100 slides per week with 30-slide barcode-driven automation
- Sub-micron resolution, whole slide imaging
- Quantitative image analysis output in parallel to imaging
- OMERO Plus data management for multi-user collaboration
- Integrated BF optics for same-section H&E imaging
- Multi-round capability for higher plex studies
- Scalable for multiple projects and large cohort studies



Instrument

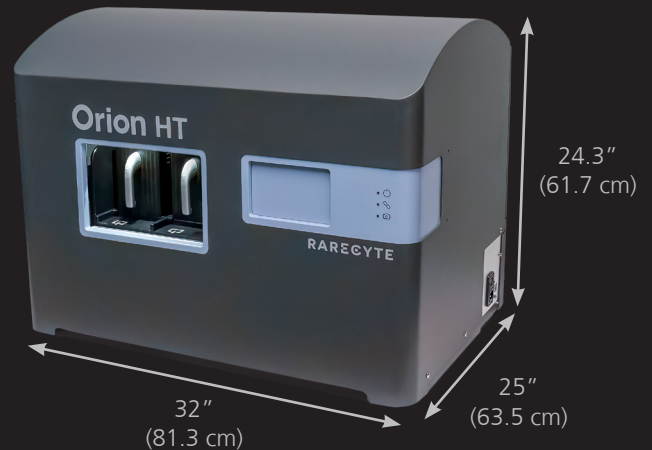
Specification	Value
Application	IF, IHC, H&E
Scan speed	4 min per cm ² per channel
Excitation lasers	402 nm - 808 nm
Emission	450 – 874 CWL range
Slide compatibility	1" x 3" x 1 mm
	25 mm x 75 mm x 1 mm
Slide capacity	30 slides
Load repeatability	+/- 5.0 µm
Focus	Image-based Autofocus
Objectives	4X 0.13 NA
	20X 0.8 NA
Camera	sCMOS
	2048 x 2048 pixels
	6.5 µm pixel size
	95% QE
	1.0 electron read noise
Safety	Class I LASER Product
File format	16-bit OME .TIFF

Workstation

Specification	Value
Storage	28 TB scan capacity
Connectivity	10 GB ethernet
OS	Windows 10 Enterprise
Imaging software	✓
Quantitative analysis	✓
Image viewing software	✓
Image annotation	✓
File management	✓
Remote review	Optional

Footprint

Specification	Value
Size	32 x 25 x 24.3 (W/D/H in)
	81.3 x 63.5 x 61.7 (W/D/H cm)



Experience Orion data through an interactive viewer at images.rarecyte.com

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