

Appendix A: Product Specifications

Technical Specifications

Physical characteristics	Instrument type:	Benchtop cell counter and suspension cell-based assay platform
	Instrument dimensions:	11½" (W) × 17½" (D) × 11½" (H)
	Weight:	19.4 lbs
	Operating power:	100–240 VAC, 2.5 A, 120 V
	Frequency:	50/60 Hz
	Electrical input:	12 VDC, 13 A
	Installation site:	Indoor use only, Class A Environments (i.e., non-residential or light industrial); Pollution degree 2.
	Operating temperature:	10–40°C
	Operating humidity:	< 80% (non-condensing)
	Technical specifications	Processing time:
Sample concentration range:		1 × 10 ⁵ –1 × 10 ⁷ cells/mL
Particle/cell diameter range:		5–60 µm
Required sample volume:		25 µL
Firmware:		Tali® Image-Based Cytometer Firmware (visit www.lifetechnologies.com/tali for updates)
USB Drive :		4 Gigabyte
Optics	Optics:	3 channels (bright field, green fluorescence, red fluorescence)
	Excitation:	Green channel LED: 458 ± 20 nm Red channel LED: 530 ± 20 nm
	Filters:	Green channel: 466/40 EX, 495 LP Di, 525/50 EM Red channel: 543/22 EX, 580 LP Di, 585 LP EM
	Camera:	1.3 Mega pixels, 4× objective, 4× or 16× digital zoom
Tali® Cellular Analysis Slide	Material:	Polylactic acid (PLA)
	Dimensions:	110 mm (W) × 24 mm (D) × 1.9 mm (H)
	Chamber volume:	25 µL
