

ONSO SYSTEM SPECIFICATION SHEET

Next level accuracy with the Onso™ system

The Onso short-read sequencing system is a scalable and flexible benchtop platform that provides an unprecedented level of accuracy through unique sequencing by binding (SBB®) technology. The Onso system features dual lanes, no index-hopping, and low duplications.

Sequencing specifications

Onso reagents	Read length	Number of reads	Output (Gb)	Approximate run time	Quality score
200 cycle sequencing kit	2 x 100 bp 1 x 200 bp	400–500M	80–100	32 hours	≥90% Q40+
300 cycle sequencing kit	2 x 150 bp	400–500M	120–150	48 hours	

Instrument specifications

Operating environment	
Temperature	15–30°C (59–86°F)
Humidity	20–80% relative humidity, non-condensing
Altitude	Below 2,000 m (6,562 ft)
Sequencer dimensions	
W x D x H	37 in (94 cm) x 29 in (73.7 cm) x 25.75 in (65.4 cm)
Weight	275 lb
Crated W x D x H	38" L x 43.25" W x 37.5" H
Crated weight	161 lb (crate) + 275 lb (sequencer)
Cluster generator dimensions	
W x D x H	15.6 in (39.6 cm) x 25.4 in (64.5 cm) x 27.5 in (69.9 cm)
Crated W x D x H	32" W x 22" L x 26" H
Crated weight	75 lb
Electrical power	
Power requirements	208–240 VAC at 50–60 Hz
Compute	
Network connection	≥100 Mbps
ICC ¹ operating system	Windows 10 Enterprise
Output file format	FASTQ
Output file size	35–60 GB



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¹ICC = instrument control computer