

Opentrons OT-2 Liquid Handler
Specifications

Item	
Number of deck slots	11
Volume Range	1 μ L to 300 μ L
Speed	Fast-fill a 96-well plate in 22 seconds
Accuracy	<ul style="list-style-type: none"> • 15% accuracy at 1μL • 5% precision at 1 μL
Pipette Configuration	<p>Pipettes available:</p> <ul style="list-style-type: none"> • P20/ P300 single channel pipettes • P20/ P300 multi-channel pipettes <p>(P20: 1-20 μL; P300: 20-300 μL)</p> <p>Configurations allowed in one run: 2x 8-Channel, 2 x Single-Channel, or one of each</p>
Compatible Labware	<p>Any automation-compatible, ANSI/SLAS standard footprint well plates, plus a wide range of snap-cap and screw-cap tubes up to a 50mL conical tube (e.g. Agilent, Axygen, Bio-Rad, Corning, Eppendorf, Falcon, GEB, NEST, Opentrons, USA Scientific)</p>
Modules Available	<ul style="list-style-type: none"> • Magnetic (supports 0.2mL plate sizes up to 22mm in vertical height and deep well trays up to 47mm in vertical height) • Heater-shaker (37-95°C, 200-3000rpm, universal flat adapter) • Temperature (4-95°C, supports 1.5-2mL tubes)
Accessories Available	<ul style="list-style-type: none"> • 4-in-1 Tube Rack Set • Aluminium Block
Compatible Liquids	<ul style="list-style-type: none"> • Aqueous Liquids (e.g. water, medium) • Viscous Liquids (e.g. Tween 20, Triton X, mineral oil, glycerol) • Volatile Liquids (e.g. ethanol, isopropanol, acetone, methanol)
Protocols	<ul style="list-style-type: none"> • Protocol Library • Protocol Designer • Python API
Applications	<p>NGS library preparation; PCR setup; nucleic acid isolation and purification; reagent distribution and sample aliquoting; serial dilution; cherry picking; normalisation;</p>

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	biochemical assays; small-scale protein purification; SP3 sample preparation for LC-MS; sitting-drop protein crystallisation
Consumables available at BioCRF	<ul style="list-style-type: none">• Opentrons 20 ul Non-Filtered Tips• Opentrons 300 ul Non-Filtered Tips• Opentrons 20 ul Filtered Tips• Opentrons 200 ul Filtered Tips• Armadillo 96-well plate (skirted)• NEST single well reservoir• NEST 96 deep well plate, square well, V-bottom, sterile• NEST 96 deep well plate, square well, V-bottom, nonsterile