

Sync

Synchronous Size and Shape Particle Analyzer



Microtrac Sync Features

- Laser diffraction and image analysis integrated in one instrument
- Measurement capability from 0.01 to 4000 microns
- Measure over 30 size and shape parameters
- Easily switch between wet and dry measurements
- High and low concentrations
- Small bench footprint

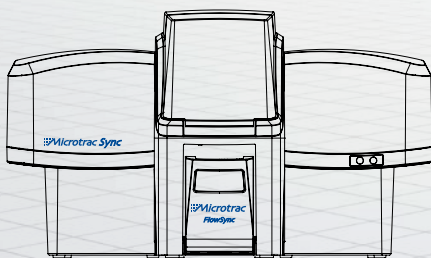
www.microtrac.com/sync

Microtrac
Total Solutions in Particle Characterization

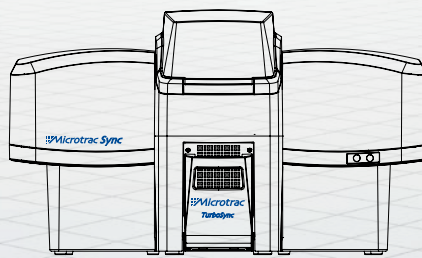
Sync Specifications

Measuring Range	0.01 to 4000 microns
Precision	Spherical Glass Beads D50 = 642 microns, Precision as CV = 0.7% Spherical Glass Beads D50 = 57 microns, Precision as CV = 1.0% Spherical Latex Beads D50 = 0.4 microns, Precision as CV = 0.6%
Laser Class	Red 780 nm, Blue 405 nm - Class 1 Laser Product per 21 CFR 1040.10 & IEC60825-1
Laser Power	Red Laser 0.35 to 2mW nominal; Blue Lasers 10mW nominal
Detection System	Two fixed photo-electric detectors with logarithmically spaced segments are placed at correct angles for optimal scattered light detection from 0.02 to 165 degrees using 151 detector segments.
Data Handling	Volume, Number and Area distributions as well as percentile and other summary data. Data is stored in ODBC format in encrypted Microsoft Access Databases to ensure compatibility with external statistical software applications. Data integrity may be ensured using FDA 21 CFR Part 11 compliant security features including password protection, electronic signatures and assignable permissions.
Typical Analysis Time	10 to 30 seconds
Electrical	AC input: 90 – 264 VAC, 50/60 Hz, single phase
Power Consumption	Approx. 30 VA maximum, depending on options installed
Environmental	Temperature: 5° to 40° Degrees C. (41° to 104°F) Humidity: 90% RH, non- condensing maximum Storage Temperature: -10 to 50 Degrees C (14 to 122 Degrees F)(Dry only) Pollution: Degree 2
Compliance	ISO 13320 Laser Diffraction ISO 13322 Imaging
Image Analysis	5.2-megapixel (2560 x 2048), 22 fps at max res.
Wet Operation	Viscosity: 5 cp maximum Volume: 200ml nominal Flow Rate: 0 to 65 ml/sec max with water Inlet Pressure: 50 psig (345 kPa) maximum
Dry Operation	50 psi (345 kPa) maximum pressure 3 CFM (0.0014 m3/h) at 50 psi (345 kPa) minimum flow rate Free of dry contaminants, moisture and oil.
Physical Specifications	Case Material: Stainless steel and impact resistant plastics Finishes: Exterior surfaces are finished with solvent-, stain-, and corrosion-resistant paint or plating Chemically compatible with a wide choice of organic and inorganic dispersants
Dimensions	18H x 31W x 12D in (457H x 787W x 305D mm)
Weight	53lbs (24kg)

FlowSync



TurboSync



www.microtrac.com

Microtrac
Total Solutions in Particle Characterization