

Technical Data - PSA DIA500

standard method:	
ISO9276-2,ISO9276-6,ISO9276-11,ISO13322-1,ISO13322-2,ISO14488	
Measurement principle	Dynamic Image Analysis
Measuring range (liqued flow)	0.8 μm to 2,500 μm
Measuring range (dry)	0.8 μm to 5,000 μm
Measuring range(Free-Fall)☒	0.8 μm to 8,000 μm
Dry dispersion	Venturi
Data collection rate☒	144 fps at 5 Mpix
Zoom☒	0.8 μm to 300 μm
Optical systems☒	Automatic switch between objectives. Automatic merge of size ranges. Both optical systems available in standard configuration
Data transfer☒	1 x 10 Gigabit Ethernet, 1x USB-A 3.0
Camera and resolution☒	5 MPix / 0.8 μm per pixel
Measurement parameters☒	
Particle size and shape	Feret diameters (min, max), projected area equivalent diameter of a particle, length, geodesic length (length of a fiber), axes length of the Legendre ellipse (min, max), aspect ratio, ellipse ratio, irregularity, elongation, circularity, form factor, compactness, extent, solidity, convexity
Dimensions (H x W x D)☒	400 mm x 790 mm x 290 mm
Weight without PC and dispersion units	Approx. 41 kg (90 lb)
Power supply	230 V to 110 V, 50/60 Hz
Compatible dispersion units☒	
Liquid Flow	Dispersion using a liquid carrier, mixing, and ultrasonication
Dry Jet☒	Dispersion via compressed air and Venturi nozzle
Free Fall☒	Dispersion via gravitational fall
Mounting system of dispersion units☒	Quick-Click technology – mounting in less than 5 seconds
Automation	Automatic imaging frame rate adjustment