

## Brookhaven Zetasizer - Specifications

**Type:** Most colloidal samples suspended in any transparent liquid.

**Size Range:** Material dependent, For electrophoresis 0.005 to 30 microns; For optional particle sizing, <0.0006 to 6 microns.

**Volume:** 1 mL to 1.5 mL, optional 10  $\mu$ L for particle sizing only.

**pH Range:** 1 to 13.

**Conductivity Range:** 0 to 20 S/m.

**Mobility Range:**  $10^{-11}$  to  $10^{-7}$   $m^2/V.s$

**Temperature Control:** 6° C to 100° C,  $\pm 0.1^\circ$  C, active control. No external circulator required.

**Measurement Duration:** 10 to 250 s, typically 30 s.

**Laser:** nominal 35 mW\*, 50 mW available option.

**Field strength:** 0 to 60 kV/m, either automatic or by manual selection.

**Electrodes:** Palladium with acrylic supports; for reactive samples special solvent resistant electrodes assemblies are available.

**Cells:** Disposable plastic; glass.

**Input power:** 100/115/220/240 VAC; 50/60 Hz; 300 Watts.

**Dimensions:** 267(H) x 635(W) x 445(D) mm. (excluding monitor)

**Weight:** 37 kg. (excluding monitor)

\* raw laser power