Measurement of Focusing Shock Waves in a Lithotripter

Müller-Platte Needle Probe Adjustment

The Needle Probe was exactly developed for this purpose. The probe can be mounted in the focal area and positioned by a x-y-z adjustment.

Schematische Darstellung der Druckmessvorrichtung.
Principle set up for measuring shock waves in ellipsoids.
Measurement the Focusing Field of a Dornier Lithotripter

The next figure shows the pressures at different locations in the focusing field in a Dornier kidney stone lithotripter measured with the Needle Probe. The pressure focus is behind the geometrical focus due to non-linearity effects.
Measurement the Focusing Shock Wave in a Research Ellipsoid

See the details of the measured shock wave profile and its reflections in the focusing field of a shallow ellipsoidal reflector.
Pressure Details Behind the Focus of a Kidney Stone Lithotripter Measured with the Müller-Platte Needle Probe