





#### 417 11

#### Ultrasound generator 4 MHz

Ultrasound Generator with emitter head, creates a continuous ultrasound signal (4 – 5 MHz) or pulses.

#### Technical Data:

Frequency display: 4 digits, height 20 mm

CW Mode:

Frequency 4 – 5 MHz, adjustable

Amplitude 6 Vpp to 20 Vpp

Pulse mode:

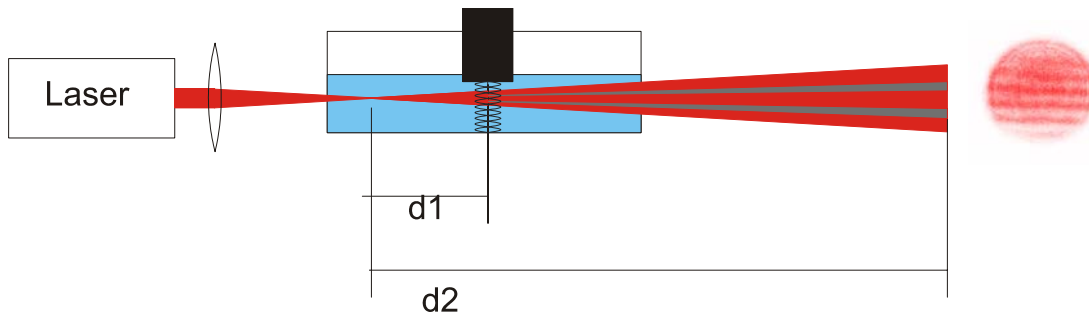
Puls width 1  $\mu$ s

Repetition rate 2 kHz

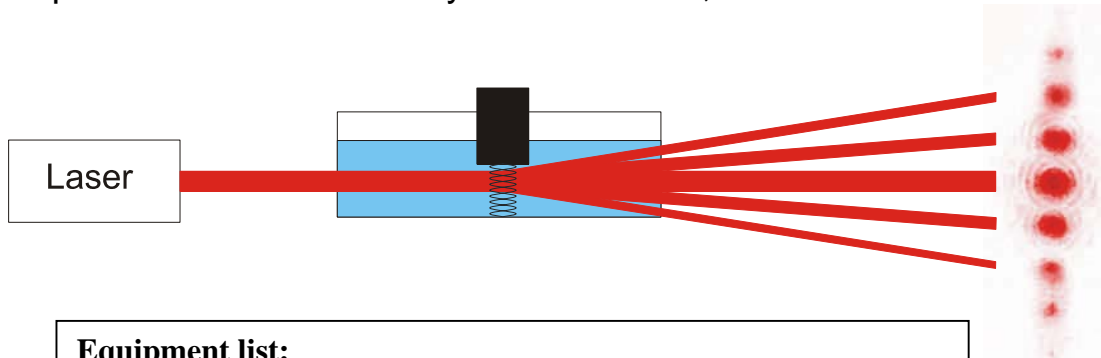
Pulse amplitude 10 V

Trigger signal TTL

#### Experiment P 1.7.8.1: Geometric projection of a standing wave pattern in water



#### Experiment P 1.7.8.2: Debye Sears-Effect, Diffraction at an ultrasound grating



#### Equipment list:

1	Ultrasound generator 4MHz	417 11
1	Diode laser 635 nm, 1 mW	471 791
1	Optical bench, 1m	460 32
5	Optics rider	460 374
1	Lens +50 mm	460 02
1	Glass tank	477 02
1	Prism table	460 25
1	Cantilever arm	460 380
1	Stand rod	300 41
1	Leybold multiclamp	301 01
1	Screen	441 531

Water, Salt, Glycerin, Ethanol as required