

IMPROVED MID-IR LASER FOR GENERATION OF ULTRASOUND USING A CO₂ LASER AND HARMONIC GENERATION

Abstract

A mid infrared range laser source for ultrasound inspection that comprises a high energy laser coupled with one or more harmonic generation devices. The high energy laser may be a CO₂ laser and tuned to emit laser light at a single wavelength. The harmonic generation devices convert the laser beam into the mid infrared range for optimal ultrasound inspection.

Figure: 1