

Fig. 3. Optical setup of the homodyne scanning holography system. EOPM, electro-optic phase modulator introducing a phase difference between the two beams; BS, beam splitter; PI, piezo XY stage; OBJ, objective; PM, photomultiplier tube detector; LPF, lowpass filter; PC, personal computer.

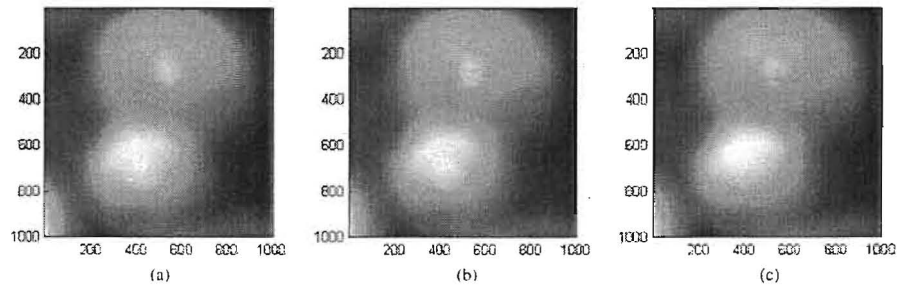


Fig. 4. Three recorded holograms with phase difference between the two interferometers arms of (a) 0, (b) $\pi/2$, and (c) π , all obtained from the homodyne scanning holography system.

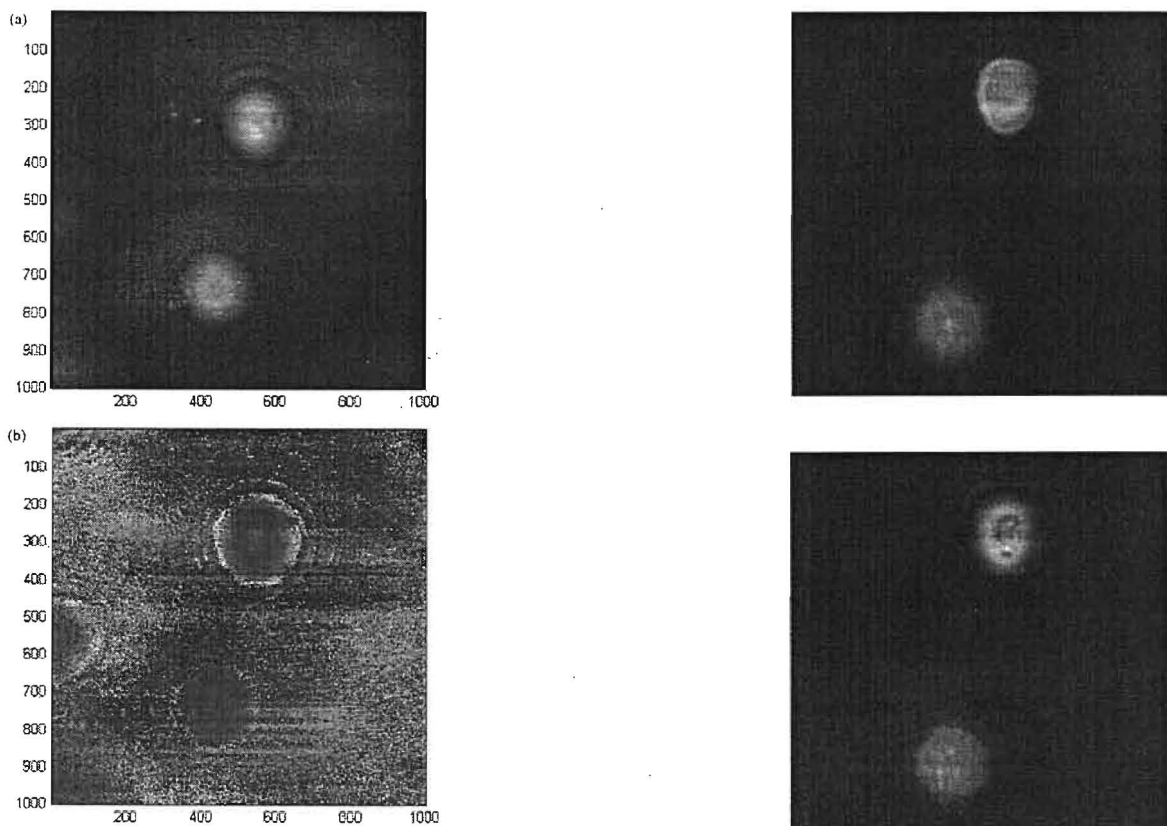


Fig. 5. (a) The magnitude and (b) the phase of the final homodyne scanning hologram.