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# INSIDE JK LASERS

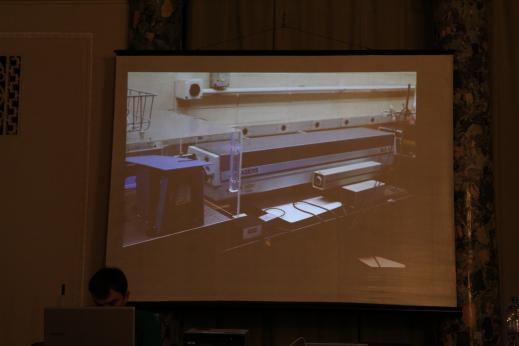
Photo: Courtesy of Lumonics Inc.

Ed Wesly

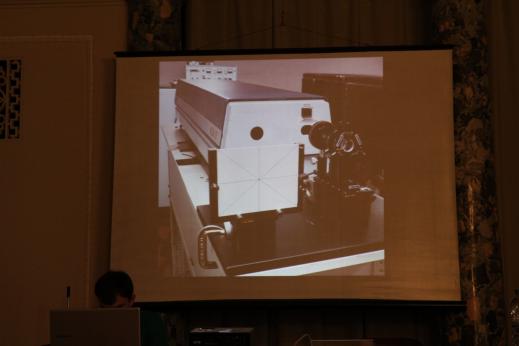
Even the competition would have to agree that JK Lasers are the very best ruby lasers ever made for holography. diodes are usually referred to as semiconductor lasers to avoid confusion. product lines were developed, integrating certain components into basic models.

Wesly, Ed. "Inside JK Lasers." holosphere, Volume 15, #2, Summer 1987, pp. 12-15



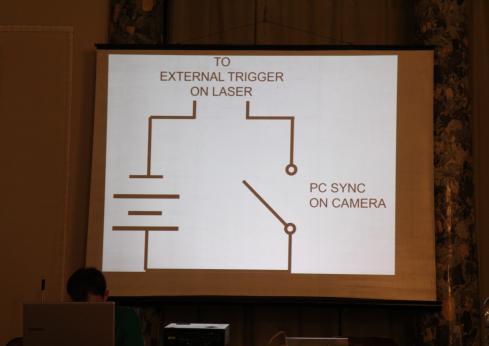


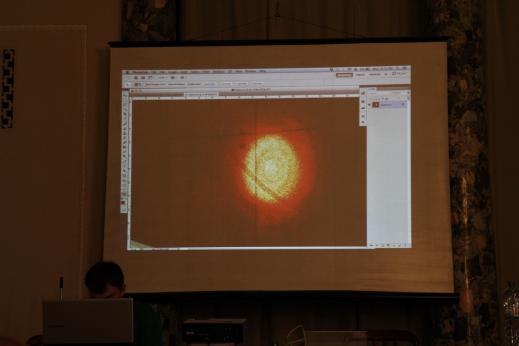
# THE ANAIT LABORATORY FOR PULSED LASER HOLOGRAPHY











### OPERATOR'S MANUAL

Ref: OP.1

### HOLOGRAPHIC LASER SYSTEM

Model : HLS2

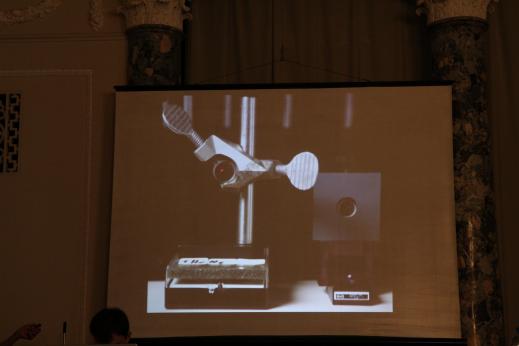
Serial No: 5 1051 0

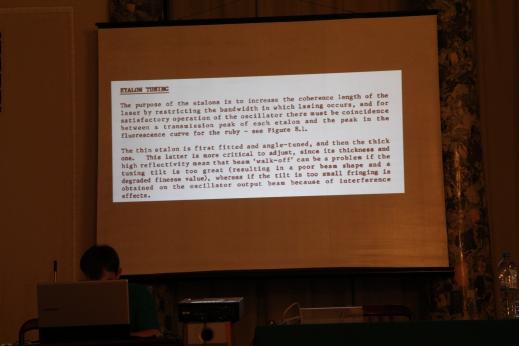
Customer: A Stephens

Operating Voltage/Frequency: 208V / 60Hz

### MANUFACTURED BY:

LUMONICS LTD Cosford Lane Swift Valley Rugby





- Set up the negative lens outside the laser cavity to provide a beam of divergent light and to avoid damage to the analysing etalon.
- Set up the analysing etalon beyond the lens in a plane where the diverging beam is 10 to 20 mm in diameter.
- 3) Set up a suitable screen a metre or so beyond the etalon.
- 4) Operate the laser at 40 mJ and with the Pockels cell switched off (since the wavelength varies too much from shot to shot when the oscillator is Q-switched). Note that, for the 1 Hz version of the HLS1, the etalon tuning varies with the repetition rate, and the complete tuning process should be carried out both at 1 Hz and at 10 ppm.
- 5) With the room darkened, examine the ring structure projected onto the screen when the laser is fired. A series of concentric circles will be seen, well spaced at the centre, but closer together further out and of gradually decreasing intensity. Adjust the x-y position of the lens to centre the beam on the ring structure.

