

A New Laser Measurement System
for
Precision Metrology

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Abstract

Laser measurement systems, based on optical heterodyne interferometry, have been a valuable tool for precision metrology for almost two decades. During this period measurement requirements have steadily increased without an accompanying improvement in system capabilities. This paper describes a new laser head, electronics, and interferometers that satisfy present needs and have the attributes to meet future requirements.

VI. ACKNOWLEDGEMENTS

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Preview from Notesale.co.uk
Page 14 of 26

Preview from Notesale.co.uk
Page 18 of 26

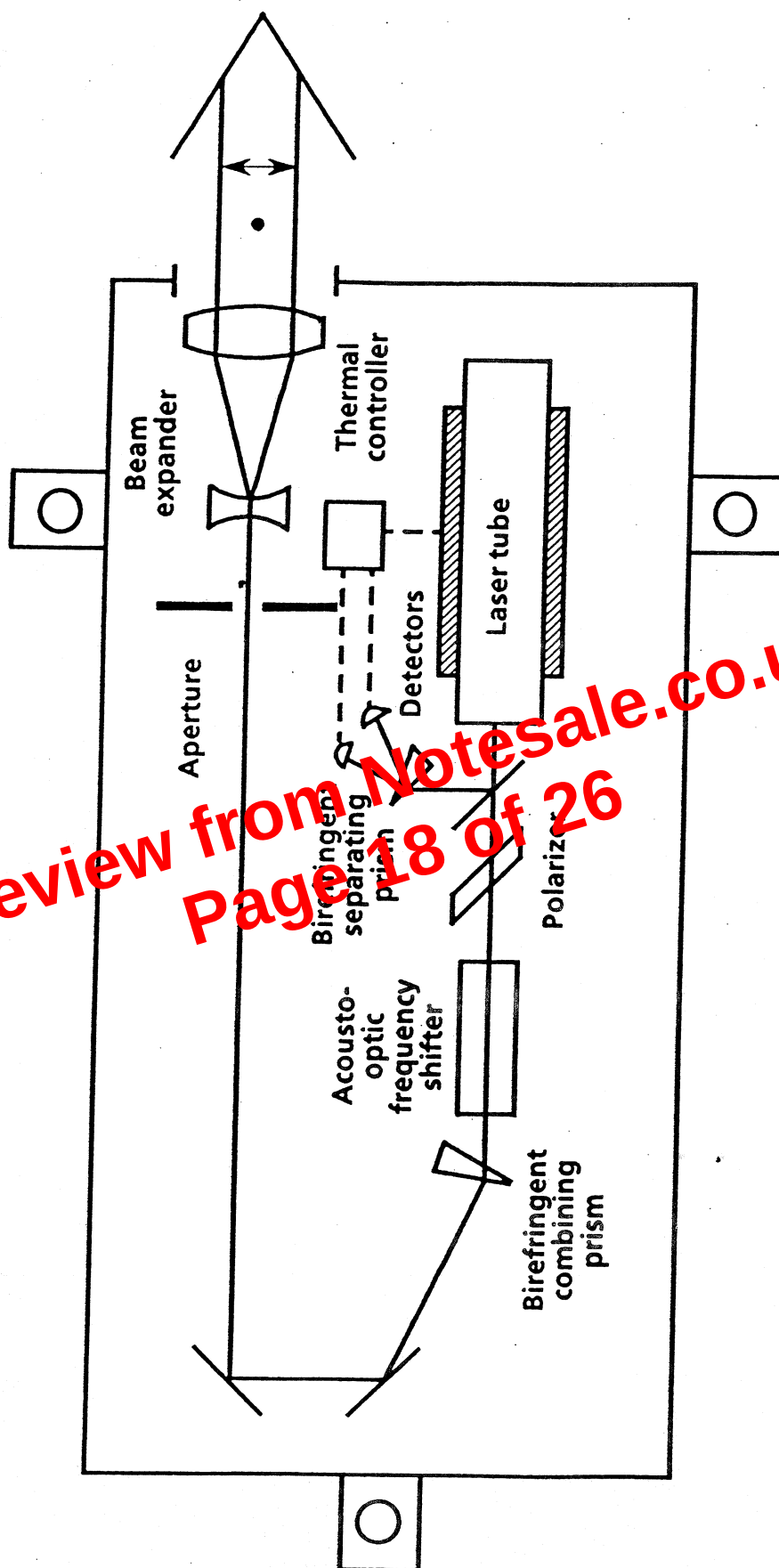


FIGURE 2

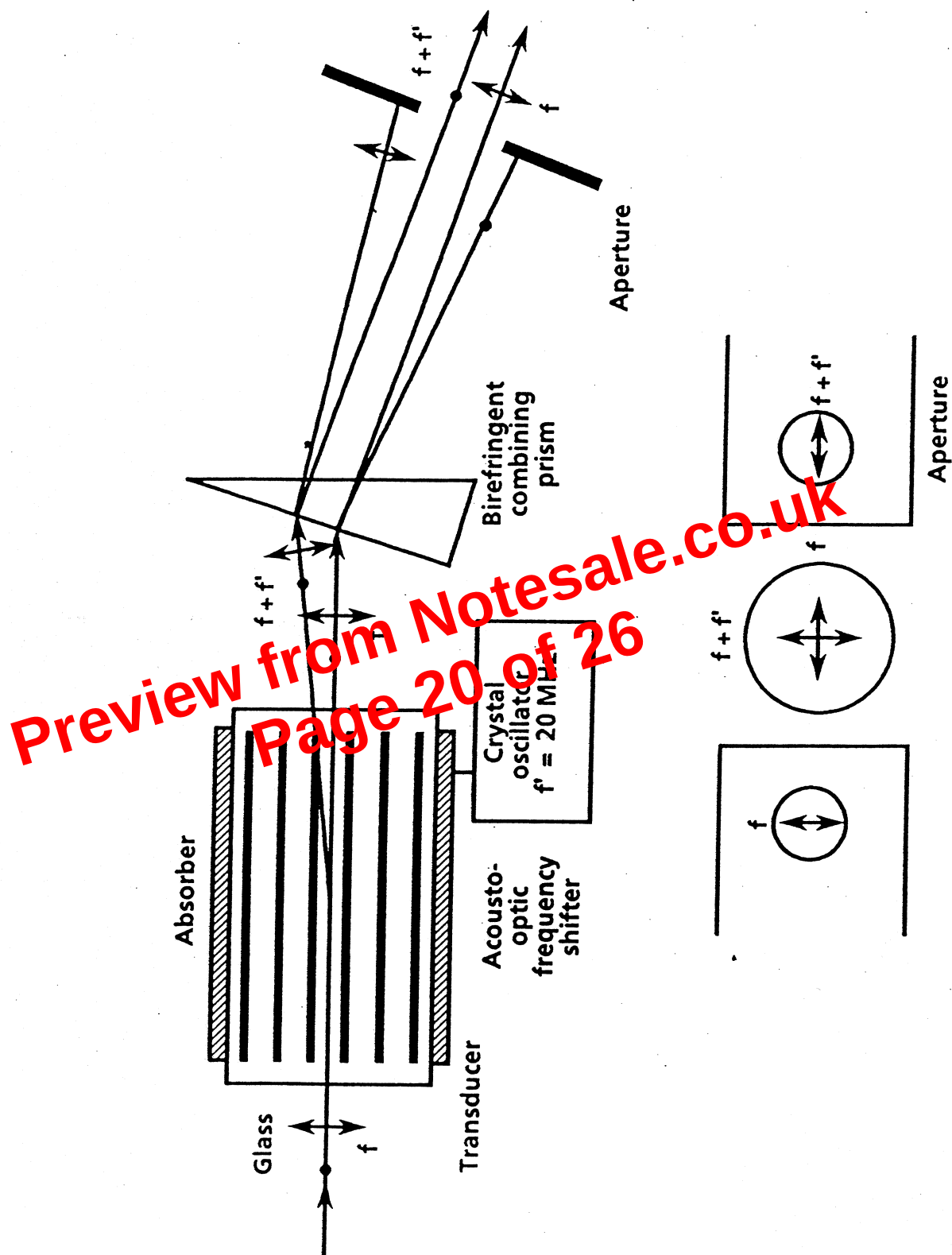


FIGURE 4