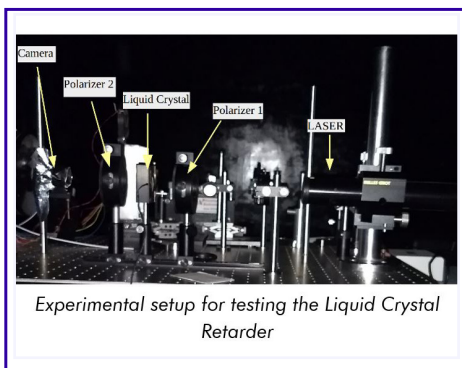


Liquid Crystal Tunable Filter

U R Rao Satellite Centre (URSC) of Indian Space Research Organization (ISRO) has developed a Liquid Crystal Tunable Filter using Liquid Crystal Variable Retarder (LCVR). This can be used as a narrow band tunable filter to transmit narrow band of light of a specified wavelength. Tunability feature will help in observing astrophysical sources in different wavelengths and hence provide information about certain physical processes on the source.



Salient Features

- ✦ Electrically tunable filter without any moving parts.
- ✦ Two stage is developed and can be scaled to more stages for smaller bandwidth.

Major Specifications

- ✦ Wavelength of operation 1.0 to 1.7micron.
- ✦ Wavelength passband from 1nm to 2nm over this wavelength with 2-stage
- ✦ Clear aperture of 25mm.
- ✦ Currently two stages combined – scalability for more stages is possible.

Technology Transfer

URSC/ISRO offers to transfer this technology of Liquid Crystal Tunable Filter developed by URSC to industries in India with adequate experience and facilities. Industries interested in obtaining knowhow may write giving details of their present activities, infrastructure and facilities.

Technology Transfer & Industry Coordination Division (TTID),
Programme Planning and Evaluation Group (PPEG),

📍 U R Rao Satellite Centre (URSC), ISRO, HAL Airport Road,
Vimanapura Post, Bangalore – 560 017.

✉ Email-id: tt-icd@ursc.gov.in

☎ Fax No: 080-25205261

🌐 <https://www.ursc.gov.in/industry/index.jsp>