

RHEED AND ENERGY LOSS SPECTROSCOPY DURING MBE *TOPAZ*

C **TOPAZ** replaces the standard RHEED screen on MBE Systems.

- Energy resolution better than 2eV (HP-4 RHEED gun) active area 90mm diameter.
- Fully compatible with MBE, tested on cryopumped systems.
- Fine pitch gold net filters for high spatial and energy resolution.
- Sturdy design with only one electrical feedthrough.
- Insulators protected against coating for maximum uptime; works with existing RHEED guns, HP-4 gun recommended for high-resolution applications.
- Integration with SAFIRE RHEED software available for recording of complete patterns as function of energy loss or time-resolved measurements with 20 ms resolution.
- TOPAZ makes energy loss spectroscopy a standard option for any MBE system.



TOPAZ-RHEED-ELS- detector

Technical Data

Type	Topaz
Active area	90 mm diameter
Operating voltage	up to 20 kV
Energy resolution	< 2 eV
Spatial resolution	< 100 μm on screen

