

# EBIC-RCI Signal Amplifier

Our easy-to-use EBIC and RCI analysis system consists of two MM3A-EM micromanipulators, at least one of which is equipped with a low-current measurement kit (LCMK-EM) and a signal amplifier. The system is compatible with most commercially available SEM's and FIB's and the amplifier is connected to the video input of the microscope.



Primary applications are open detection in integrated circuits, visualization of p-n junctions and localization of resistivity changes in via chains, but this tool can also be used for any application that requires the accurate measurement of low currents. It can be quickly and easily added to your existing MM3A-EM micromanipulator system.

## Applications

- Non-destructive failure analysis
- Open detection in integrated circuits
- Visualization of p-n junctions
- Localization of resistivity changes

## Technical specifications

- Current measurement limit 10 fA
- Gain  $10^5$  to  $10^{12}$  V/A
- Current leakage < 50 fA/V
- Video output 1 V / 50  $\Omega$
- External voltage input (triax)
- Large offset range
- AC and DC amplification modes
- Image inversion mode
- Individual and summed signals are possible

## Further information

- Contact us at [info@nanotechnik.com](mailto:info@nanotechnik.com)
- Find your local agent at [www.nanotechnik.com](http://www.nanotechnik.com)

