

## Microfluidic Multichannel Flow Cytometer

- Human/animal blood analysis in space
- Point-of-care monitoring of T4 lymphocytes of AIDS patients under treatment
- Neonatal hematology using low volume heel-prick blood



The portable Techshot microfluidic multichannel flow cytometer separates white from red blood cells and records their numbers according to selected subclasses.

It uses a cartridge-based system that labels and counts using 4-color detection (3 in series – 1 in parallel). Cells are co-labeled with Qdot and magnetic particles to facilitate valveless sorting and counting. Counting is based on 10 $\mu$ l sample volume.