

SESTRA kit

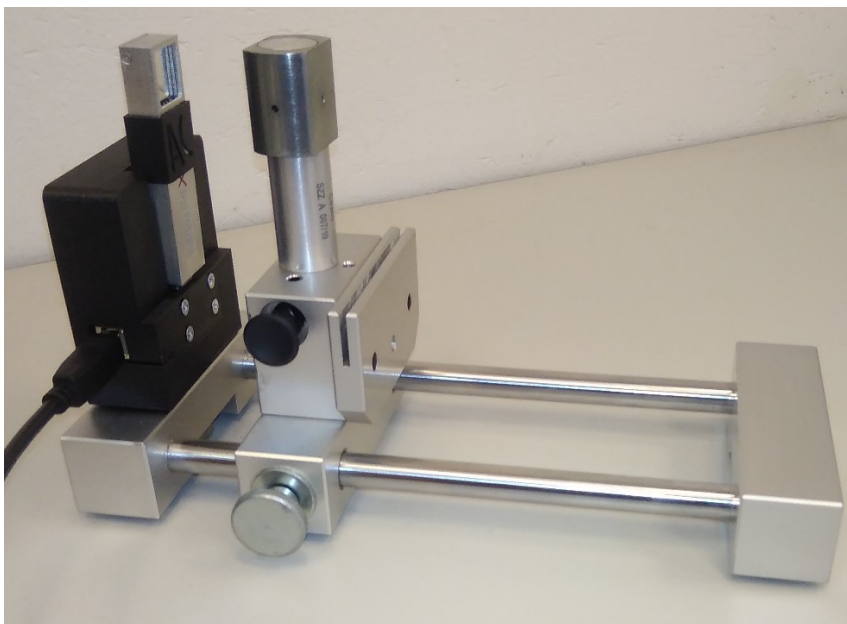
Based on

MiniPIX EDU



*IEAP CTU in Prague
Husova 240/5, 110 00, Prague
Czech Republic*

*Advacam s.r.o.
U Pergmanky 12, 170 00, Prague
Czech Republic*



The **MiniPIX EDU** is miniaturized and low power solution of a radiation camera with single particle counting (or particle tracking) detector Timepix.

Main Features

- Readout chip type.....Timepix
- Pixel size.....55 × 55 μm
- Sensor resolution.....256 × 256 pixels
- Dynamic range i one frame.....11,082
- Dark current.....none
- Interface.....USB 2.0 (Full-Speed)
- Maximum frame rate.....55 fps
- Dimensions.....88.9 × 21 × 10 mm
- Weight.....30 g



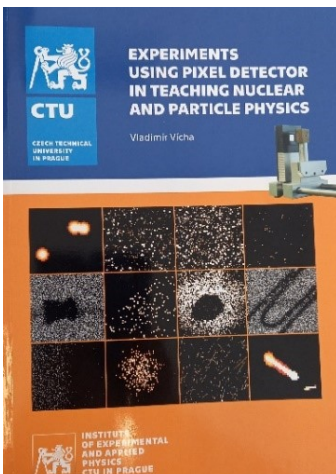
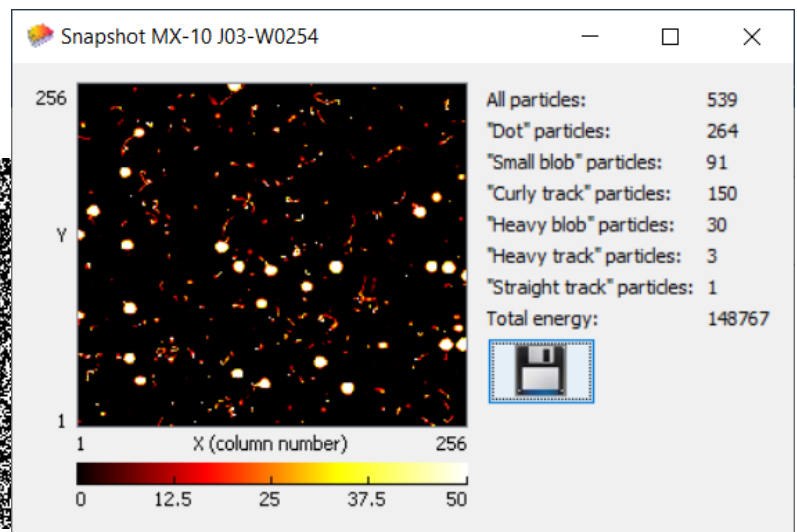
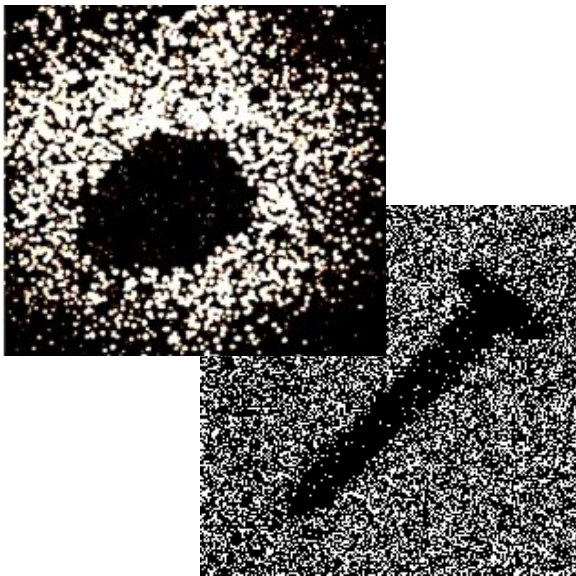
<https://advacam.com/camera/minipix-edu>

SESTRA

School Education Set with Timepix for Radiation Analysis

Kit Components

- Particle Camera MiniPIX EDU with Timepix detector
- Software (acquisition, online visualisation, etc.)
- SZZ Alfa (^{241}Am , α and γ source, 9.5 kBq)
- DZZ Gamma (*optional*, ^{241}Am , γ source, 300 kBq)
- Potassium Salt (β and γ source)
- Thoriated Tungsten Electrode (α , β and γ source)
- Uranium Glass (α , β and γ source)
- Mounting Rails
- Source Holder
- Camera Holder
- Aluminium, Stainless, Copper, Brass and Lead Plates
- Radiography Samples with Hidden Patterns
- Vacuum Cleaner Grate Adapter
- USB Cable



Guidelines to more than 50 experiments practicable with a pixel detector

Vladimir Vicha

Experiments Using Pixel Detector in Teaching Nuclear and Particle Physics

CTU in Prague, Prague, Czech Republic 2017, ISBN 978-80-01-06108-4

<http://www.utef.cvut.cz/outreach-and-education>

Contact email: michael.holik@cvut.cz

