

MINIATURIZED AND LOW POWER CAMERA

The Timepix3 detector is position, energy and time sensitive. It digitally registers the position, energy, time of arrival and track shape of each ionizing particle (e.g. X-ray photon). The other measures can be often calculated from the track shape (particle type, direction of flight, LET, charge etc.).

ADVACAM — **MINIPIX**_{TPX3}



Main Features

Readout chip type	Timepix 3
Sensor material	Si or CdTe
Pixel size	55 x 55 μm
Sensor resolution	256 x 256 pixels
Readout Speed	2.35 Million hits/s
Dark current	none
Interface	USB 2.0 (High-Speed)
Dimensions	80 x 21 x 14 mm
Weight	30 g

APPLICATIONS

| Spectral X-ray imaging

X-ray fluorescence imaging, X-ray radiography (angle and energy)

| Energy dispersive XRD, SAXS or WAXS

Monochromatic X-ray source is NOT needed!

| Spectral gamma ray imaging

Scintigraphy or SPECT, radiography with isotopes

| Radiation monitor

Particle type sorting, spectroscopy, directional sensitivity

| Gamma camera

Special shielded box and collimators available

| Compton camera

Special software module available for image reconstruction.

