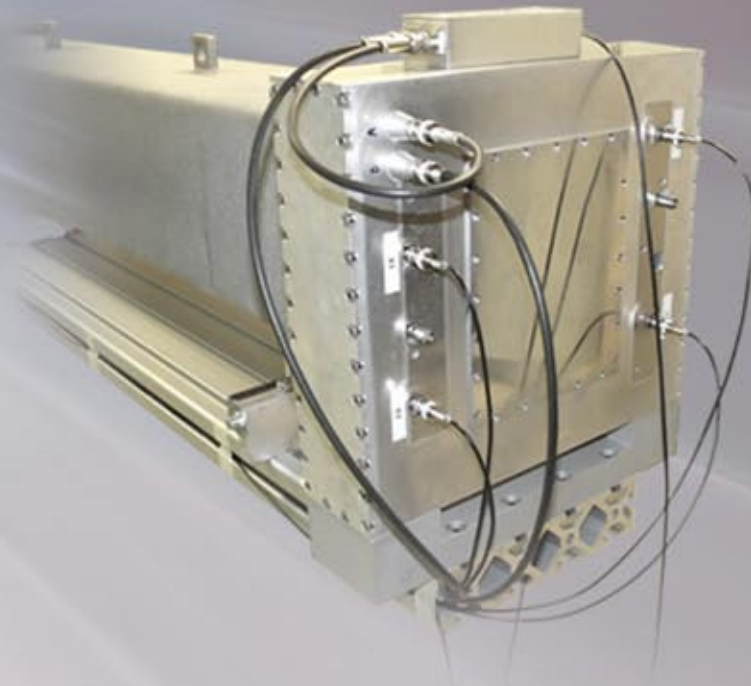


Positive Sensitive 2D Detectors



Characteristics	MK-200N-1	MK-300N-1
Active area	200 x 200 mm ²	300 x 300 mm ²
Detector window	Al 8mm	
Position encoding technique	delay line	
Anode and cathode wires	Gold-Tungsten	
Wire spacing	1 mm	
Spatial (position) resolution (FWHM)	1.8 x 1.8 mm ²	2 x 2 mm ²
Filling gas	3 bar ³ He + 2 bar CF ₄	
Detection depth	25 mm	
Detection efficiency (wavelength dep.)	50 - 85 %	
Counting rate (global)	5 x 10 ⁵ cps/mm ²	
Integral non-linearity	4 x 10 ⁻²	
Differential non-linearity	±10%	
Dynamic range	Single neutron detection	
Electronics		
Pre-amplifiers	built-in (5 pieces)	
TDC	2 types available: TOF/normal	
Number of pixels	from 32 x 32 to 1024 x 1024	
Dead-time	1.22 μs	
Counting rate (global)	5 x 10 ⁵ cps	
Time channel width (for TOF)	1 μs	
Remote Control	Ethernet	
Measurement Data Transfer	Ethernet	
XY projection, integration / open interfaces for easy integration to existing software		