SCIONIX

Data Sheet

Thermal NEUTRON detector
V12.7B30/SIP-E3-CLYC-X

CLYC:Ce scintillation detector with SIPM readout and built-in preamplifier/temperature compensated bias generator

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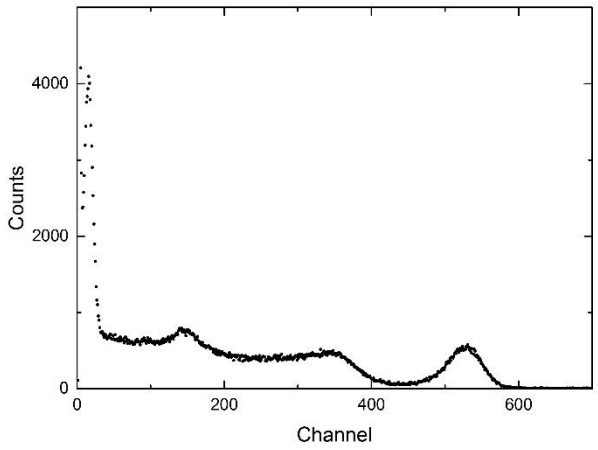
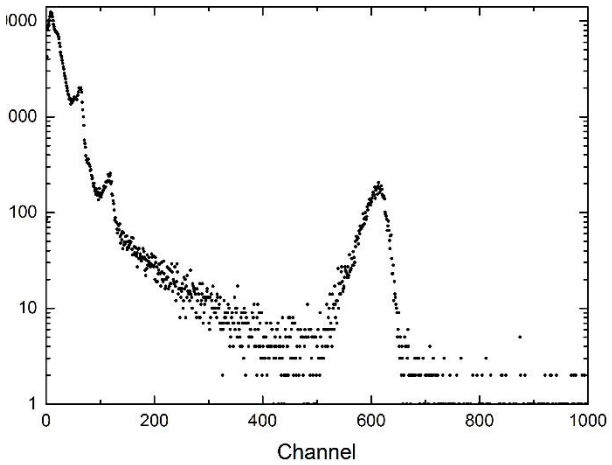
Scintillation material	**:**	$Cs_2LiYCl_6(Ce)$ (CLYC) crystal, dimensions 12.7 x 12.7 x 30mm.
Maximum detector diameter	**:**	27 mm
Crystal read out	**:**	SENSL: ArrayC-60035-4P
Electronics	**:**	Transimpedance amplifier and bias generator
Power supply Voltage	**:**	5.2 - 16 V (5 mA @ 5.2 V)
SiPM Bias Voltage	**:**	26 – 28.5 V
Electrical connections	**:**	LEMO ERA 0S 303 CLL LEMO FFA 0S 303 CLAC43 + LIYCI cable Brown = + 5.2V Green = Signal White = bias check Braid = ground
Pulse shapes (gammas)	:	Rise time 1.5 µs Fall time 5 µs
Output impedance	**:**	50 Ω
Energy resolutions	**:**	662 keV 7.5 % 122 keV 21%

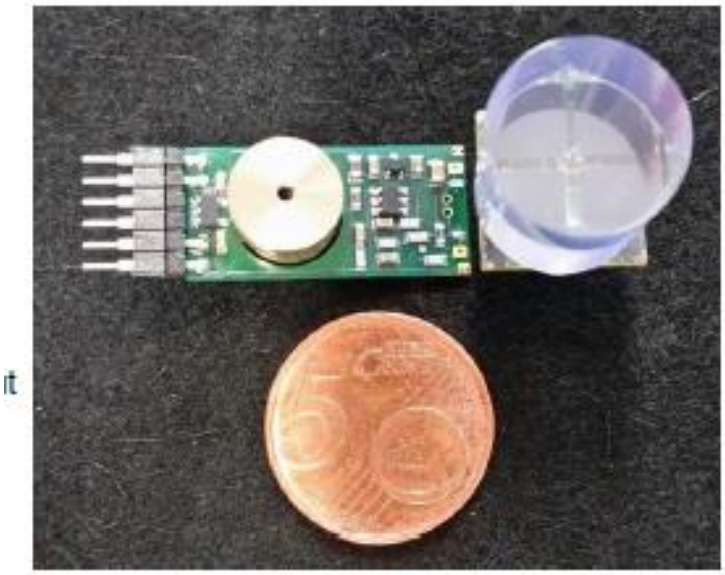


Cs-137



Moderated Cf-252 + Cs-137

Noise level	**:**	< 15 keV
Neutron peak location	**:**	3.2 MeV



Internal bias generator / preamplifier

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