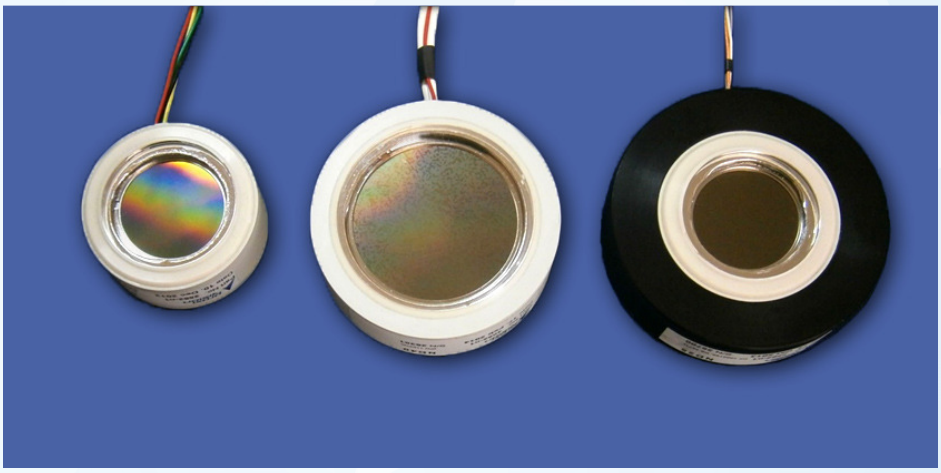
NOVA Scientific

INNOVATION IN NEUTRON DETECTION

ProxiVision

New Generation
Neutron Detector



APPLICATIONS

- Nuclear Technology
- Material Research
- Non Destructive Testing
- Medical Science
- Biology
- Archeology/Paleontology
- Homeland Security
- Defense

FEATURES

- Excellent Neutron Detection Efficiency
- Fast Timing for Single Neutron Detection
- Lightweight and Compact
- Robust against Environmental Stress
- Wide Dynamic Range

For more information visit
www.novascientific.com

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Currently Available Products

	ND 25	ND 40
Physical Data		
Detection Unit	Neutron-Sensitive MCP	Neutron-Sensitive MCP
Active Diameter	25 mm	40 mm
Phosphor Screen Output	P43 (green)	P43 (green)
Spatial Resolution	50 µm*	50 µm*
Cold and Thermal (5 meV-25 meV) Neutron Sensitivity	30-50 %	30-50 %
Gamma Ray Sensitivity†	~ 1 %	~ 1 %
Background	< 1 ct/s/cm^2	< 1 ct/s/cm^2

** dependent upon neutron beam dispersion*

†for substantially reduced Gamma Ray Sensitivity see below, Coming Soon section

Geometry		
Housing	Circular, without / with Ring Power Supply	
Weight	90 g / 150 g	220 g / 350 g
Outer Diameter	50 mm / 75 mm	70 mm / 95 mm
Thickness	22 mm	22 mm

Options

- *NDCam:* ND 25 / ND 40 with 45° Front Surface Mirror and CCD Camera
- *NDMod*: ND 25 / ND 40 Mounting Enclosure and Stand for Optical Bench or Stage
- Computer / Data Acquisition Board
- Special Housing with Pistol Grip incl. Battery Pack
- High-Voltage Ring Power Supply (Input 5 – 15V) or Rectangular PS (Input 3 – 24V)
- Different phosphor screens: P46 (fast green), P47 (fast blue)

Coming Soon

- Large Size Square Detector: Active Area 100 mm x 100 mm (and later, 150 mm x 150mm) for large array tiling
- High spatial and high timing resolution digital readout
- All-Electronic Gamma Rejection Option (proprietary) in combination with direct digital readout: Gamma Sensitivity <10^{-6} (gamma/neutron QDE) while preserving high thermal neutron sensitivity

Version 1.9 / May 2014. Data may change without notice.

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