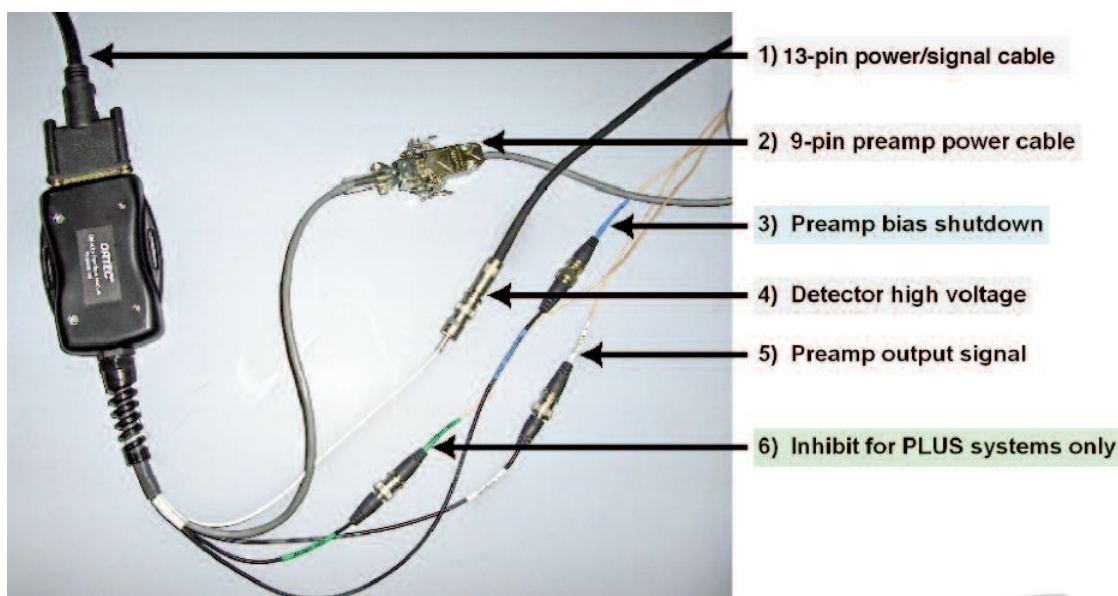


- Provides High Voltage for HPGe or NaI Detectors
- Single Cable Connectivity for DSP Systems
- <310 grams for Portable Systems
- High Impact ABS Plastic Housing

For older, non-ORTEC or non-SMART-1 detectors, the Detector Interface Module (DIM) is used to supply HV and preamplifier power as well as providing warm-up protection for the HPGe detector. The DIM is provided in a high impact ABS plastic housing with flying leads with mating connectors (HV, Bias Supply Shutdown, Energy Output, Preamplifier Power, and Inhibit Output) to connect to the existing detector cabling.

The following DIMs support non-SMART-1 detector systems:

- **DIM-POSGE** For any non-SMART-1 positive-bias, HPGe detector.
- **DIM-NEGGE** For any non-SMART-1 negative-bias, HPGe detector.
- **DIM-POSNAI** For any positive-bias NaI detector.



### DIM-296 Option for 14 Pin PMT NaI Detectors

The DIM-296 option is an alternative to the DIM-POSNAI for NaI detectors with a standard 14-Pin base. The DIM-296 is a 296 ScintiPack with a single cable connection, ten feet in length for direct connection to the instrument.

- For scintillation detectors employing 10-stage PMTs that fit standard 14-pin sockets
- Convenient, single-cable connection direct to instrument
- Internal, adjustable, high-voltage bias supply eliminates high-voltage cables
- Active bias network minimizes peak shifts at high counting rates
- Low power consumption (240 mW) for portable applications



# Detector Interface Module (DIM)

## Specifications

### Dimensions

DIM: 12 cm x 8.2 cm x 3.3 cm (4.7 in. x 3.2 in. x 1.3 in.).

DIM-296: 5.6 cm (2.2 in.) diameter x 17 cm (6.7 in.) length.

### Weight

DIM: Net <240 gm (0.5 lb.). Shipping 1.21 kg (2.6 lb.).

DIM-296: Net 0.5 kg (1.1 lb). Shipping 1.2 kg (2.6 lb).

### Performance

DIM-POSGE: Output +500 to +5 kV, 100 M  $\Omega$  impedance.

DIM-NEGGE: Output -500 to -5 kV, 100 M  $\Omega$  impedance.

DIM-POSNAI: +100 to +1800 V, 600  $\mu$ A below 1000 V, 300  $\mu$ A maximum above 1000 V.

### Connectors

#### DIM-POSGE and DIM-NEGGE

Preamplifier Power: 9-PIN D female 1 W maximum  
(+12 V, 12 V, +24 V, 24 V, 2 GND)

Analog In: BNC male

Bias Shutdown In: BNC male

Bias Out: SHV (HV) female

TRP Inhibit Out/Coincidence Gate In: BNC male  
(function is software selected)

#### DIM-POSNAI

Preamplifier Power: 9-PIN D female 1 W maximum  
(+12 V, 12 V, +24 V, 24 V, 2 GND)

Analog In: BNC male

Bias Out: SHV (HV) female

Coincidence Gate In: BNC male

## Ordering Information

Model	Description
DIM-POSGE	Detector interface module for non-SMART positive bias HPGe detector. Contact factory for use with -Plus option detector.
DIM-NEGGE	Detector interface module for non-SMART negative bias HPGe detector. Contact factory for use with -Plus option detector.
DIM-POSNAI	Detector interface module for positive bias NaI detector
DIM-296	296 ScinitPack High-Rate PMT Base for use with digiDart, digiDART-LF, DSPEC jr 2.0, DSPEC LF, or DSPEC Pro.

Specifications subject to change  
072617

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