H3D

T Series (T410)

Rugged integrable gamma imager

A weather-resistant, mountable detector module for identification and localization in demanding environments.



Detector type	Spectroscopy energy range	Weight
T Series: CZT (CdZnTe) [1]	**All tabulated T400S/T410 variants: 50–3000 keV** [2]	**T410/T400S (including +): 8.7 lb; T410P/T410SP (including +): 10.9 lb** [2]

Specifications

DETECTOR

Detector type	T Series: CZT (CdZnTe)	[1]
Detector volume	All tabulated T400S/T410 variants: >19 cm³	[2]

PERFORMANCE

Energy resolution at 662 keV	T410: ≤1.1% FWHM; ≤0.9% FWHM with coincident interactions separated; high-resolution option: ≤0.8% and ≤0.65%	[1]

MEASURING RANGE

Spectroscopy energy range	All tabulated T400S/T410 variants: 50–3000 keV	[2]
Imaging energy range	T410/T410P (including +): 50–3000 keV; T400S/T410SP (including +): no imaging	[2]

CONNECTIVITY & INTERFACE

Communication	T410: Ethernet	[1]
User interface	Webpage/API (tabulated variants)	[2]

POWER & BATTERY

Power supply	T410: 24 V DC, 75 W peak	[1]

MECHANICAL

Weight	T410/T400S (including +): 8.7 lb; T410P/T410SP (including +): 10.9 lb	[2]
Dimensions	T410: 15.7 × 15.3 × 21.8 cm	[1]

ENVIRONMENT & RATINGS

IP rating	All tabulated T400S/T410 variants: IP67	[2]
Operating temperature	All tabulated T400S/T410 variants: −40 to +50 °C	[1]

GENERAL

Shield/collimator	P variants: 3/16-inch tungsten; others: no collimator listed	[2]

Sources

[1] **T410 Ruggedized Integrable Detector Module – T410 Base Specifications (AS-6)**
H3D · datasheet · p. 2 'T410 Base Specifications', Crystal Volume; p. 2 'Operating Temperature'; t400.php table 'Temperature Rating (°F) | -40 to 122' for all variants; p. 2 'Power Supply' · checked 2026-10-16
https://h3dgamma.com/T400Specs.pdf

[2] **T Series – Ruggedized Integrable Detector Module**
H3D · product-page · t400.php model table, row 'CZT Volume (cm3)' (columns T410, T410+, T400S, T400S+, T410P, T410P+, T410SP, T410SP+); t400.php model table, row 'Spectrometer Range (keV)' (columns T410, T410+, T400S, T400S+, T410P, T410P+, T410SP, T410SP+; t400.php model table, row 'Imaging Range (keV)' (columns T410, T410+, T400S, T400S+, T410P, T410P+, T410SP, T410SP+) · checked 2026-10-16
https://h3dgamma.com/t400.php

Every value is taken from the manufacturer’s own document; the number after the value refers to the source list. Always check against the latest datasheet before ordering.

The data comes from the manufacturer’s published documents. Manufacturers may change specifications; the current configuration and performance are confirmed in the quotation.