H3D

GammAware 3D Radiation Imaging

3D radiation mapping

An add-on for H3D imaging systems that overlays radiation hotspots on a 3D model of the mapped area.



Mapping method
SLAM, simultaneous l ocalization and mapping [1]

Compatibility
H Series (e.g. H1 00/H400/H420) and M Se ries (e.g. M100/M400) [1]

Visualization
Radiation hotspots overlaid on the scanned area's 3D model [-1]

Specifications

DETECTOR

Detector	H3D detector modules: M100 or M400 (M version); H100, H400 or H420 (H version)	[2]

SOFTWARE & DATA

Shielding analysis	Can be enabled: shielding evaluation	[1]

CONNECTIVITY & INTERFACE

Communication	Ethernet or Wi-Fi	[2]
Display	8-inch HD tablet, 1280 × 800	[2]

POWER & BATTERY

Battery life	1.0 h per battery with continuous mapping; batteries hot-swappable	[2]
Power supply	24 V, <70 W (continuous mapping)	[2]

MECHANICAL

Dimensions	M version with detector: 50.5 × 19.1 × 21.3 cm; H version: sensor package 37 × 14.4 × 32.5 cm, compute package 20.3 × 10.1 × 17.7 cm	[2]
Weight	M version with detector: 6.0 kg; H version: sensor package 2.3 kg, compute package 2.7 kg	[2]

ENVIRONMENT & RATINGS

perating temperature	–20 to +50 °C (startup and operation)	[2]
IP rating	IP67 (excluding customer-replaceable components)	[2]

GENERAL

Mapping method	SLAM, simultaneous localization and mapping	[1]

Compatibility	H Series (e.g. H100/H400/H420) and M Series (e.g. M100/M400)	[1]
Visualization	Radiation hotspots overlaid on the scanned area’s 3D model	[1]
Navigation	Virtual navigation in generated images and radiation maps	[1]
Dose planning	Can be enabled: tools for time-motion ALARA dose estimation	[1]
Use	Work planning and characterization for waste shipment/storage	[1]

Sources

[1] **GammAware – 3D Radiation Imaging**
H3D · product-page · GammAware.php intro; GammAware.php 'Compatibility'; GammAware.php 'Capabilities' · checked 2026-10-16
https://h3dgamma.com/GammAware.php

[2] **GammAware 3D Radiation Imaging – Specifications**
H3D · datasheet · p. 2, GammAware Specifications – Radiation Detector Module (M and H); p. 2, GammAware Specifications – Battery Life; p. 2, GammAware Specifications – Power Input · checked 2026-10-16
https://h3dgamma.com/GammAwareSpecs.pdf

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.