





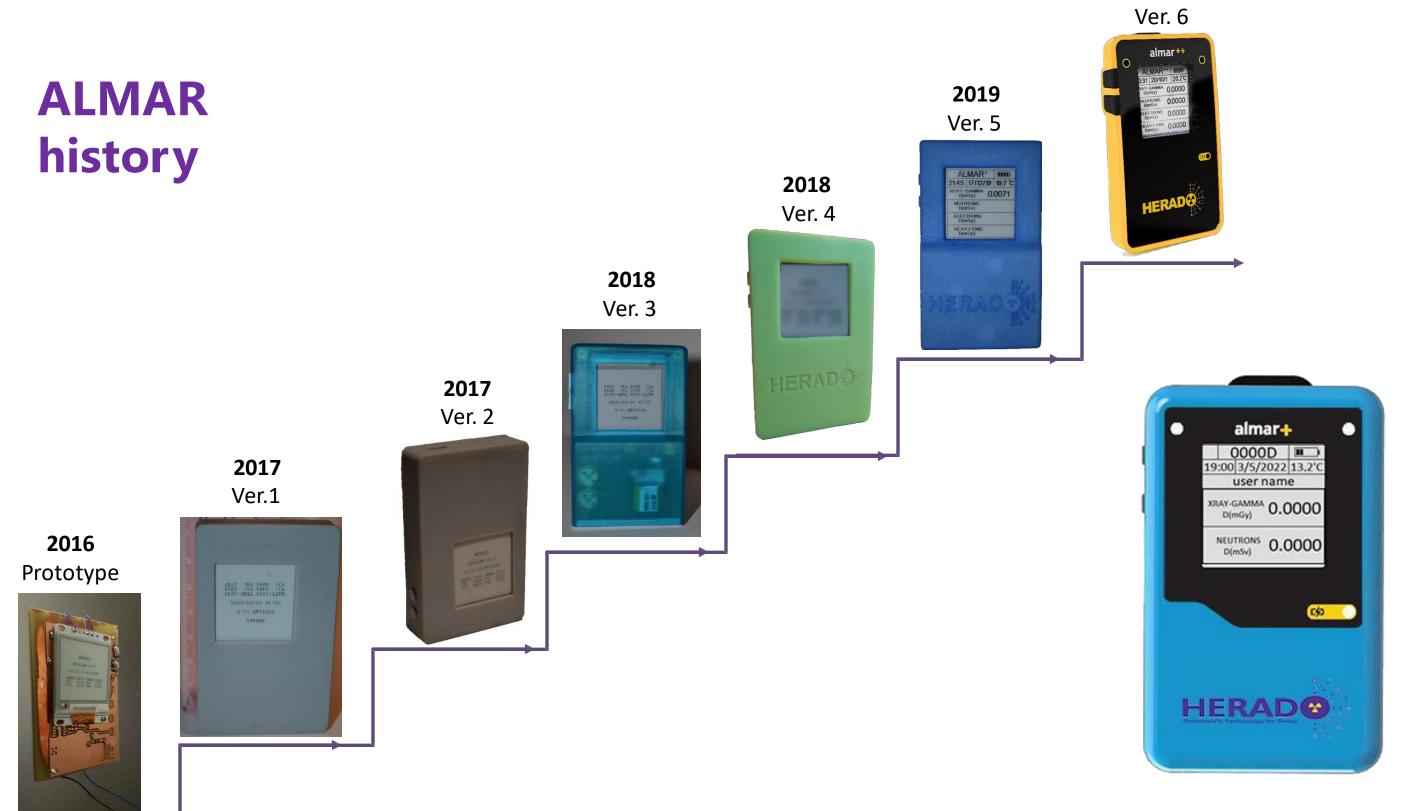




CEO of HERADO Group

Ultra-Sensitive dosimeter for Artemis: Enabling Lower Detection Limits in Space Radiation Measurement.

Marianthi Fragkopoulou



Ver. 7









Why to use ALMAR in space



High Stability



Lower detectable limit 0,6 µSv



Linearity up to 10 Sv



Measure the different types of radiation.



Fully calibrated (Los Alamos, HIMAC,)



Dose rate and angular dependence < 5%



No Electromagnetic interference



Very low power consumption/Long battery lifetime/rechargeable



Compact Size and weight



Selection of the alarm levels



software/telemetry system



User friendly











Solution | A Real-Time Radiation Data











ALMAR characteristics

Power consumption

Active mode typical current: 5mA

Stand-by mode typical current: below of 0.5 μA

Measurement of protons and neutrons

The battery may last for more than 4 months

Dimensions

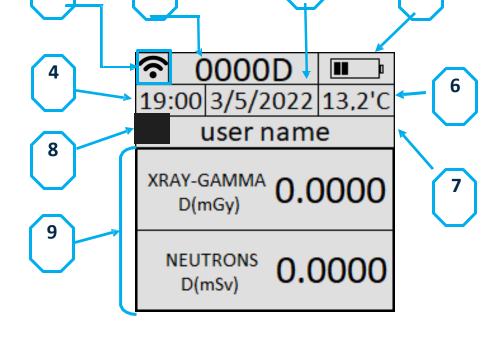
Compact size & weight Weight: 25 gr

Length: 79 mm

Width: 10 mm

Height: 48 mm

WiFi and USB connectivity



- 1. .Unique Device ID
- 2. .Date
- 3. .WiFi ON indicator
- 4. .Time
- 5. .Battery level indicator
- 6. . Emperature
- 7. .User name
- 3. .Mode H
- Measurement Area

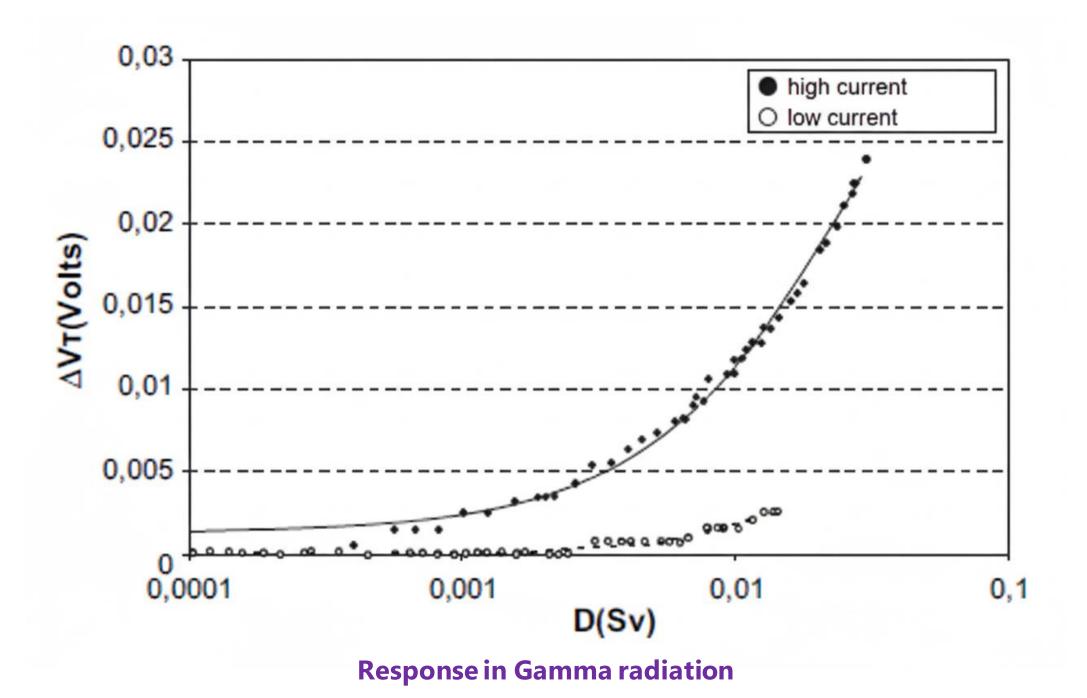








Linear Test of ALMAR











ALMAR test and measurements reports

ALMAR is **fully licensed CE** (EN 61526) and **accredited, meets ICRU 95 recommendations**.



Conforms with the following Harmonized standards:



Photo 8.1: Setup for radiated emissions test (30MHz-1GHz)

	1
Safety:	EN 61010-1:2010 + A1:2019 + AC:2019
EMC:	ELOT EN 61326-1 E3:2021 / ELOT EN 61326-1 E2:2013
	ELOT EN 60601-1-2 E4:2015 + A1:2021
	IEC 60533:2015
	IEC 60092-504:2016
	ELOT EN 60945 E3:2003
	ELOT EN IEC 61000-6-2 E3:2019 / ELOT EN 61000-6-2 E2:2005
	ELOT EN IEC 61000-6-3 E3:2021 / ELOT EN 61000-6-3 E2:2007 + A1:2011
	ETSI EN 301 489-1 v2.2.3 (2019-11) / ETSI EN 301 489-1 v1.9.2 (2011-09)
	ETSI EN 301 489-17 v3.2.4 (2020-09)
RED:	ETSI EN 300 328 V2.2.2 (2019-07)
RoHS:	EN IEC 63000:2018
Human Exposure:	EN 62311:2008
Radiation Protection:	EN 61526:2013









ALMAR test and measurements reports

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Conforms with the following Harmonized standards:



Test Parameters

80MHz-1GHz (80% 1kHz AM modulation)

800-960MHz (28V/m Pulse Modulation 50% 18Hz) -**Medical Equipment** 1GHz-6GHz (80% 1kHz AM modulation)

2.400GHz-2.570GHz (28V/m Failure: Test failure at **Pulse Modulation 50% 217Hz) - Medical Equipment** 2.560GHz.

Version 7

Improved Performance:

First deviation at 55V/m within 920-1000MHz.

Success: No measurement

deviation.

Success: No measurement deviation at 17-27V/m.

>20V/m within 2.480GHz -

New Version

Test was already passed

Test was already passed

Test was already

passed

Success: Passed the test after the

update.









ALMAR mechanical test

ALMAR Static test



ALMAR Drop test



ALMAR Impact test



Conforms with the EN 61010-1 E3: 2010 + A1:2019 + AC1:2019. Harmonized standards:

A compact, smooth steel sphere with a diameter of 50 mm±1 mm and a mass of 500 g ±25 g was used for the tests.

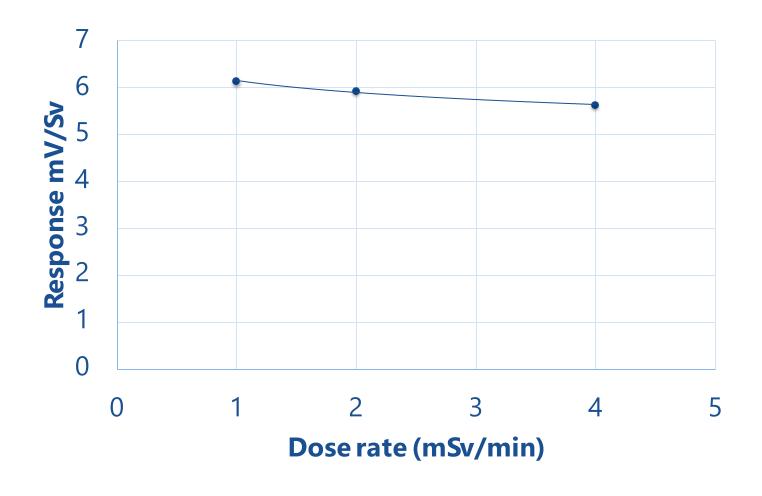




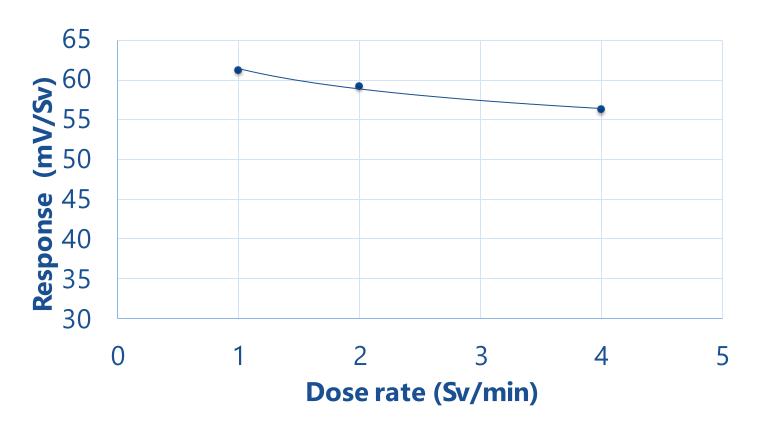




Dose Rate Test



Response dose rate dependence



Low Dose

High Dose mode









HERADO: Test Inside the Water















HERADO: Integrated Dosimetry for Unmanned Vehicles

Seamless Integration

Real-time Situational Awareness

Mission Versatility

Robust & Reliable

On a wide range of UGVs, UAVs vehicles

Immediate, accurate low level radiation dose measurements

Crucial for sensitive geopolitical zones

Essential WMD threat detection

Enhance Unmanned Vehicle Operations with Integrated Radiation Monitoring.

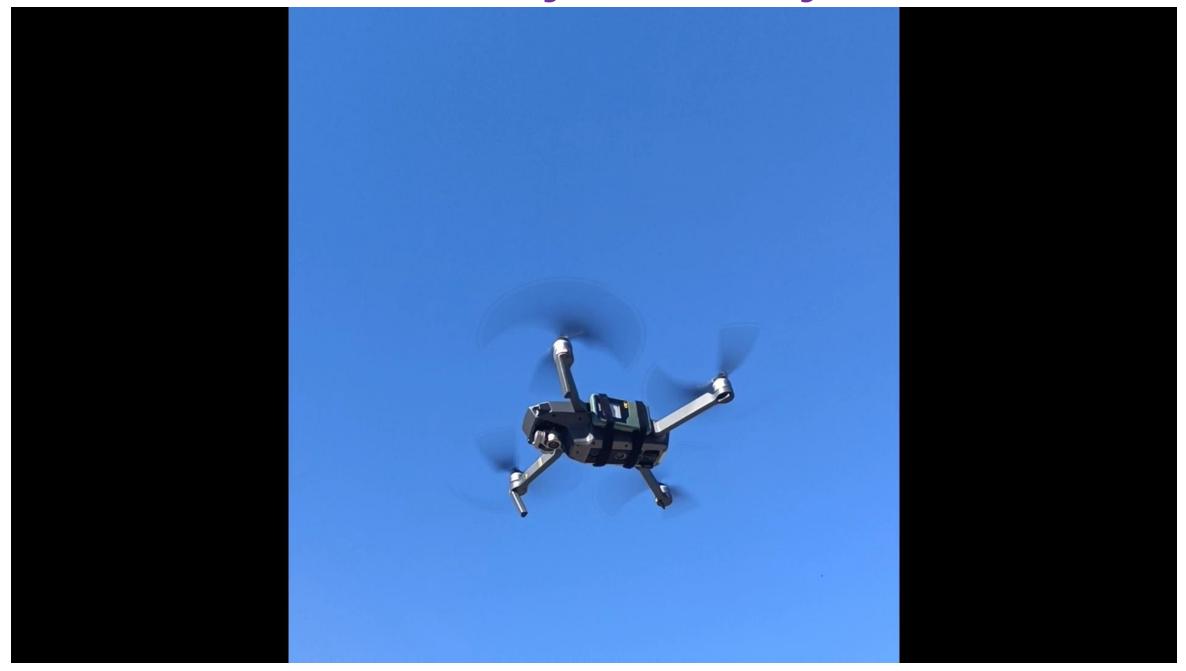








HERADO: Homeland Security Drone Fly











HERADO: Measurements

Normal Daily Background

Approximation of the control of the

May 14, 2025

May 15, 2025









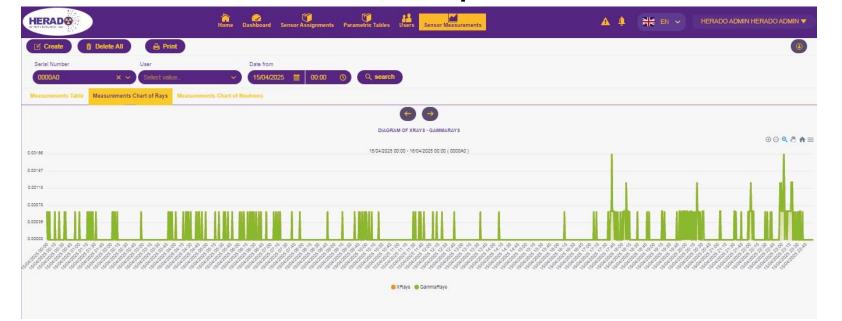
HERADO: Measurements

Almar Station 000060 **April 14, 2025**

Almar Station 0000A2 **April 14, 2025**



Almar Station 0000A0 April 15, 2025





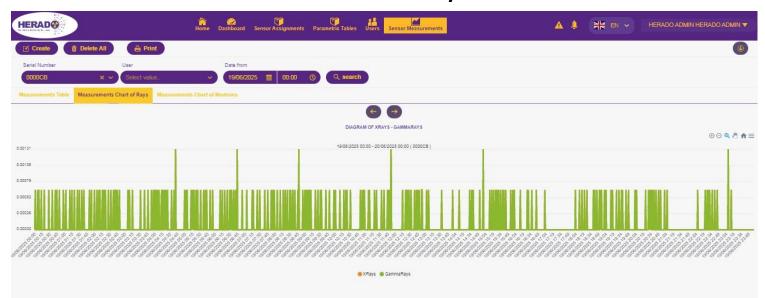




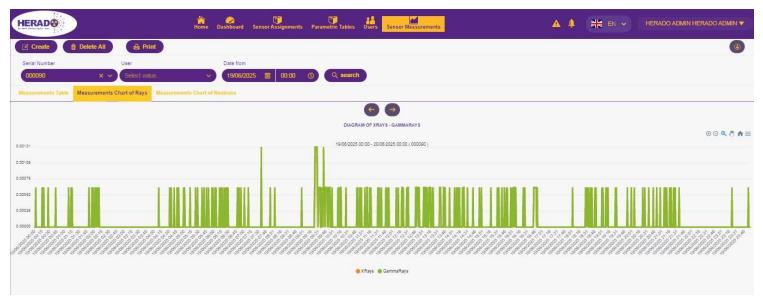


HERADO: Measurements

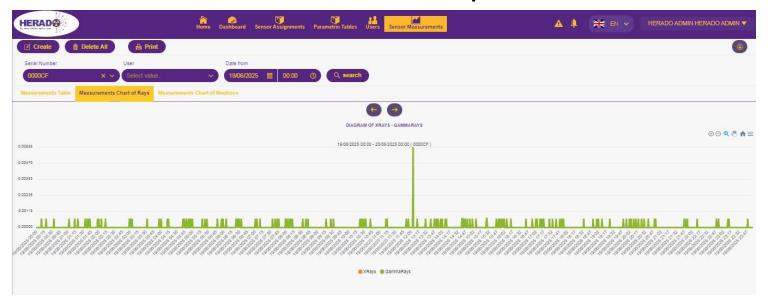
Almar Station 0000CB June 19, 2025



Almar Station 000090 June 19, 2025



Almar Station 0000CF June 19, 2025











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Continued focus on ESG

Lower power consumption, rechargeable batteries



Portfolio evolution

towards higher-growth end markets, mitigating business risks



Enhance returns to shareholders

Continuous investment in organic and inorganic growth



Accelerated growth in line with global megatrends

IoT clever device, Digital AI healthcare protocol

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We emphasize that statements of expectation, forecasts and projects relate to future events and are based on assumptions which may not remain valid for the whole of the relevant period. Consequently, they cannot be relied upon to the same extent as information derived from current statistical reports. For these reasons, we express no opinion as to how dosely the actual results achieved will correspond to any statements of expectation, forecasts or projections.

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