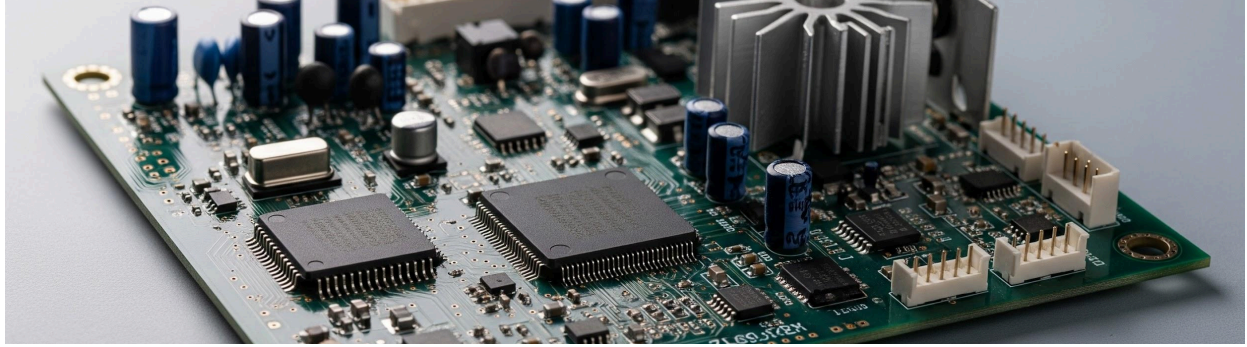




ISO19014 + IEC6006 OAK4-D P9 test

Climate vibration test

Date: 15.10.2025 - 17.10.2025

Location: SIQ-Ljubljana, Slovenia

Standards used

- **ISO 19014-3: 2018 Section 5.6.2**
 - fig. 1 and table 1. Vibration per axis (X,Y,Z) 10 to 2000 Hz using ASD model. 8h per axis.
 - This corresponds to Severity Level 3 (SL3 excavators, backhoes, construction loaders).
 - Vibration profile as per standard:

The functional status shall be class A (4.1).

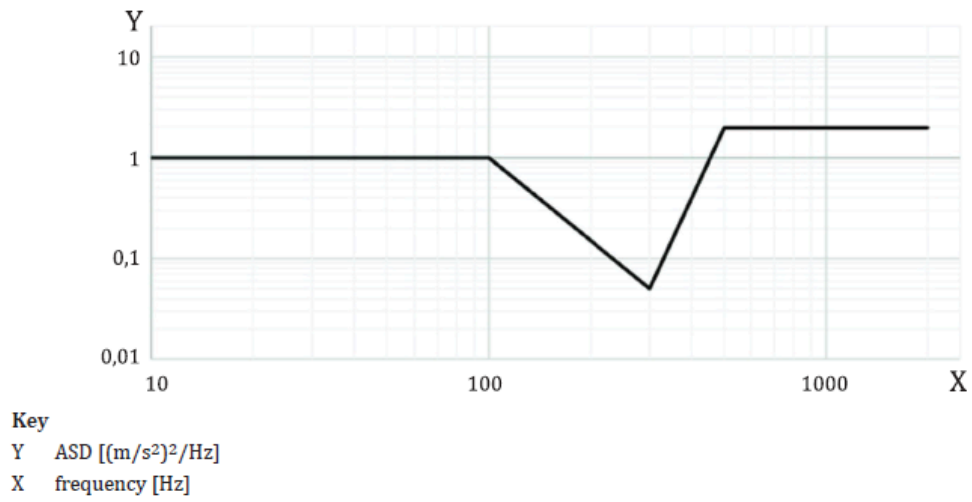
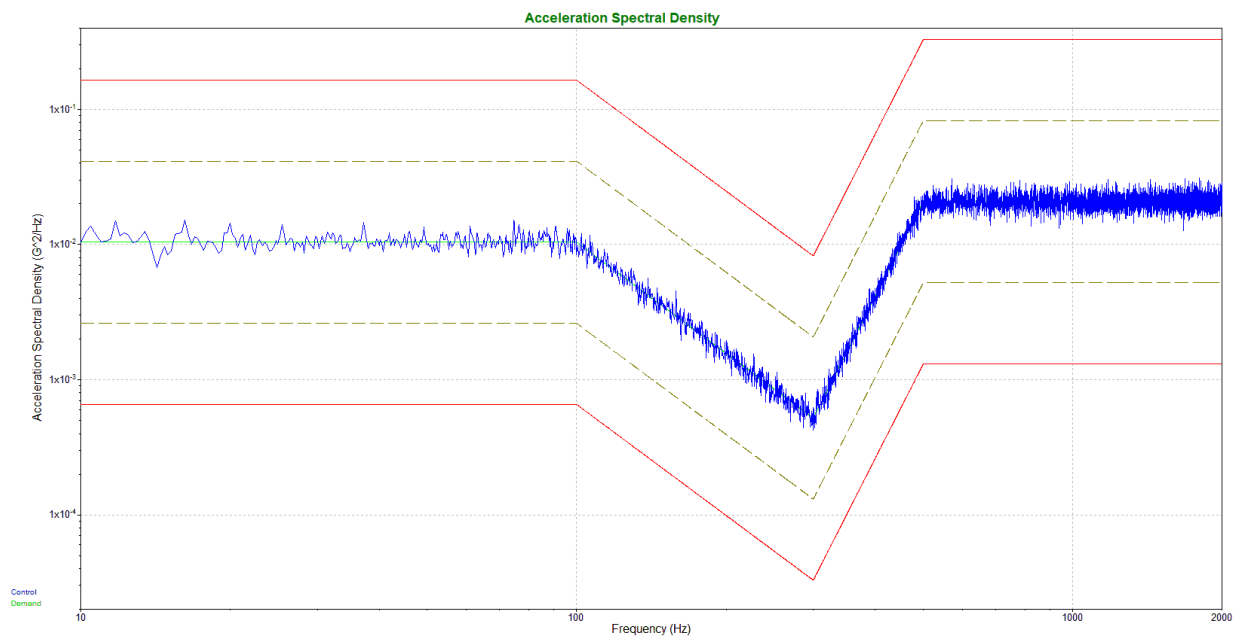


Figure 1 — Random vibration ASD

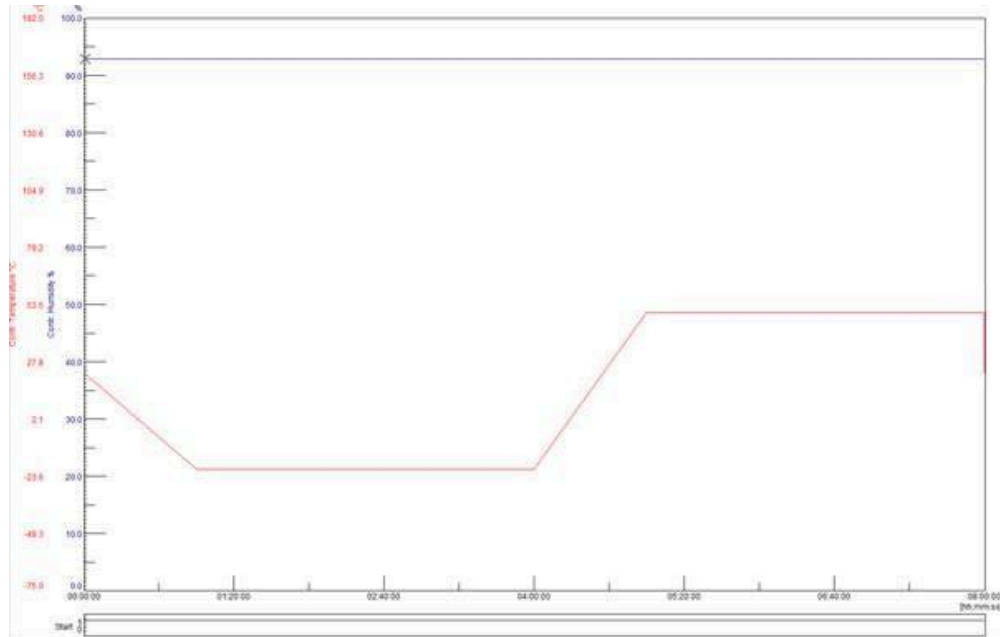
Frequency Hz	ASD (m/s²)²/Hz
10	1
100	1
300	0.05
5 00	2
2 000	2

Table 1 — Random vibration ASD

- Vibration profile as measured during testing:



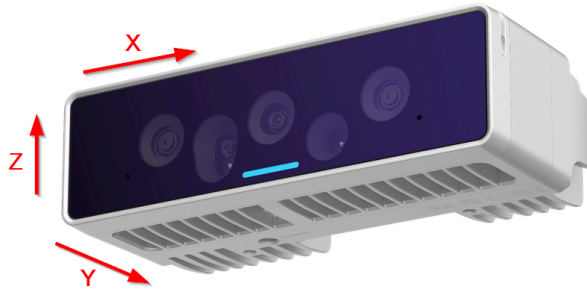
- **IEC 60068-2-14 Test NB**
 - 3h of dwell time and 1h of transition.
 - Temperature range: -20°C - 50°C
 - Relative humidity at 93%



Devices under test

Lux ID	Variant	Testing mark	Unit ID	MXID
CR1.5B HW 40	OAK4-D PRO W	/	4SAF-T2535-0023	1804346344
CR1.5B HW 42	OAK4-D PRO W	/	4DPW-T2536-0054	1630468933

Axis definition



Detected crashes

- No crashes on devices observed during test

Lux ID	Run 1	Axis	T _{runtime}	Run 2	Axis	T _{runtime}	Run 3	Axis	T _{runtime}
CR1.5B HW 40	Pass ▾	X	8h 0min	Pass ▾	Y	8h 0min	Pass ▾	Z	8h 0min
CR1.5B HW 42	Pass ▾	Z	8h 0min	Pass ▾	Y	8h 0min	Pass ▾	X	8h 0min

*Runtime refers to the duration a stress test was active.

*Crash refers to a stress test crash not an UART log error/crash output.

Depth evaluation

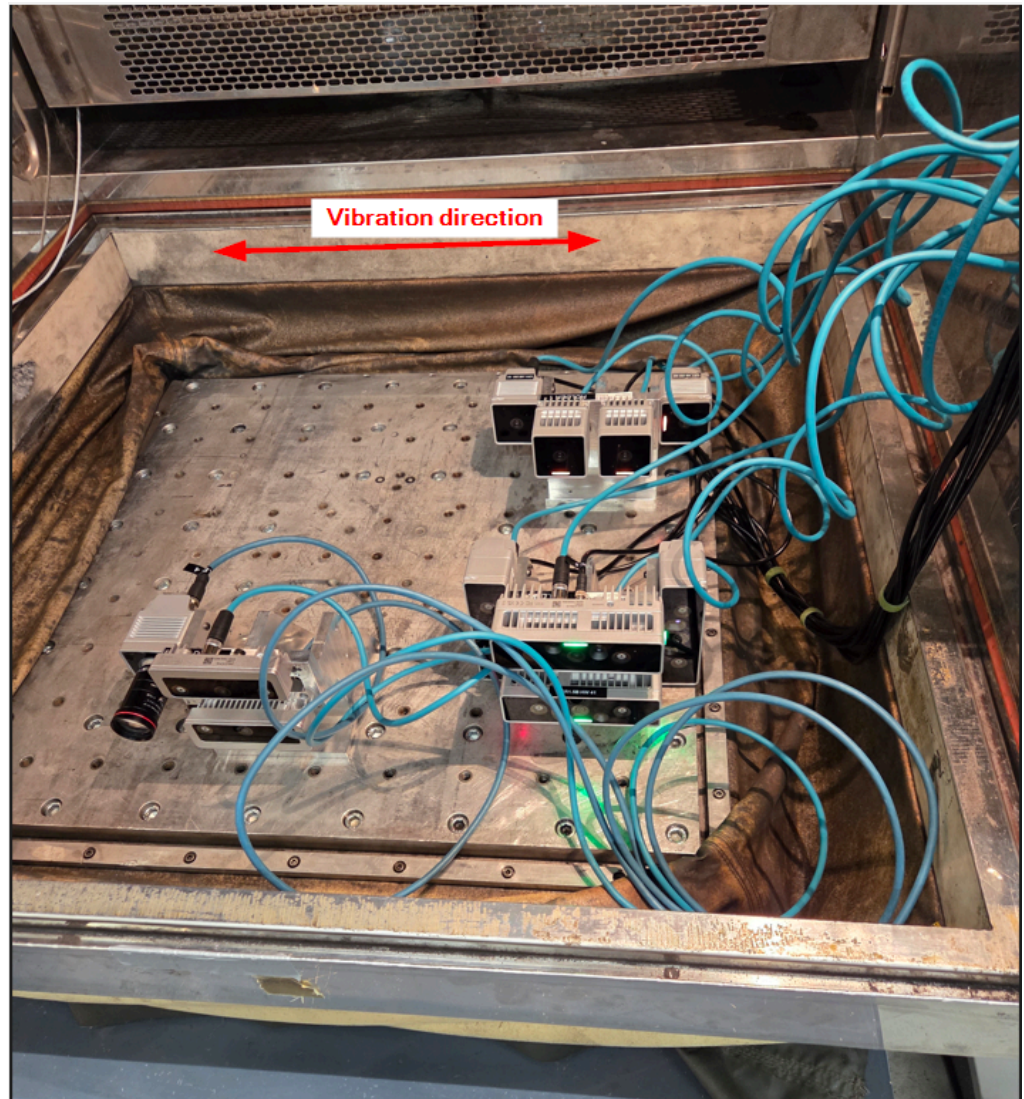
- Not evaluated in this round of testing

Testing setup

Software setup	
Description:	Software setup
OS:	All units: OS 1.18.3
Test script/command:	Python3 stress.py -eth 2500 -nn sustained_high_performance -cpu 7 -cams cama, c camb, m camc,m -ufs -imu accel,gyro,mag -uart -iperf_port 1000 -ip 192.168.1.xxx
Notes:	

DUT mounting Run 1

Picture:

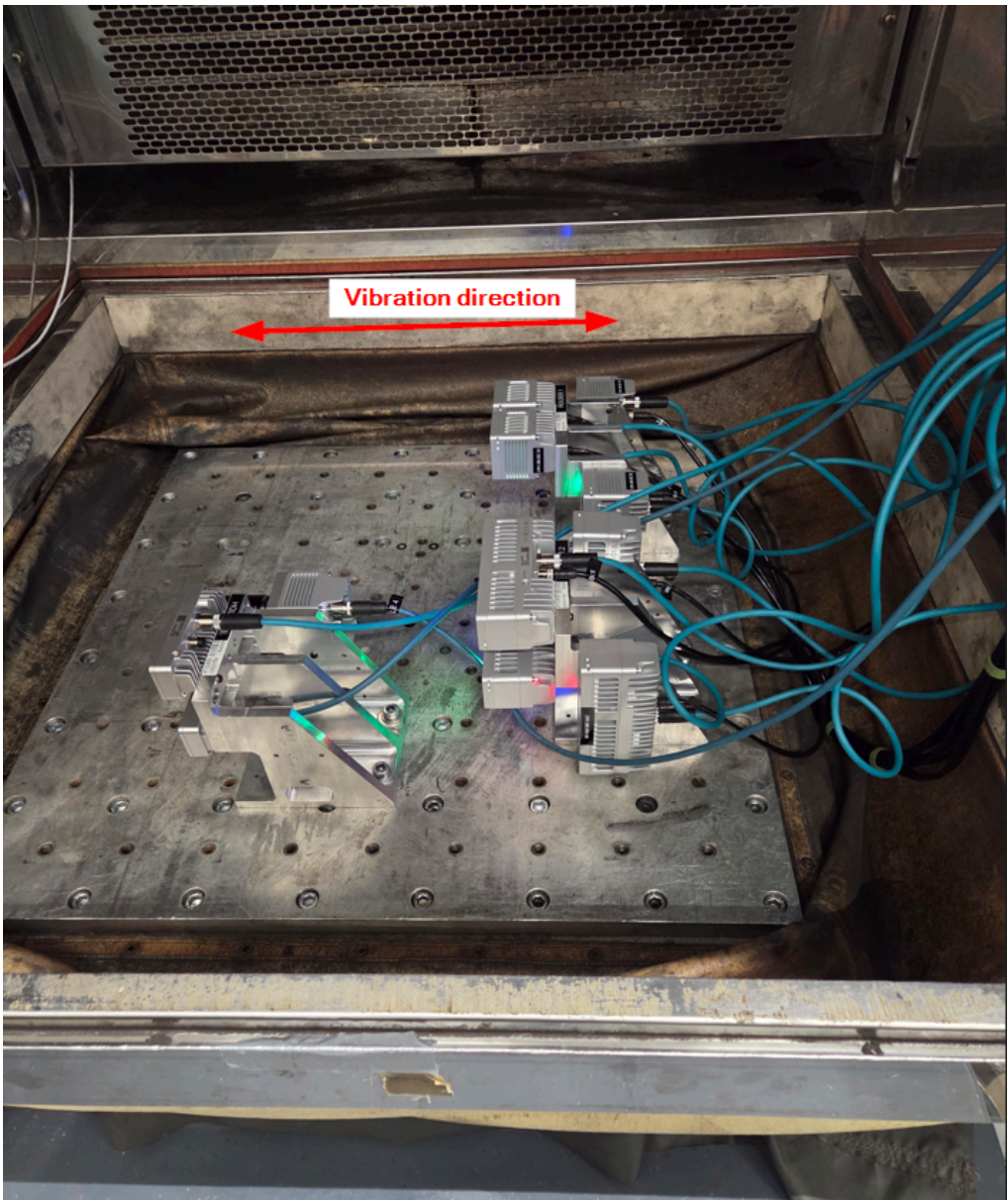


Description

Mounting of devices in the chamber.

DUT mounting Run 2

Picture:

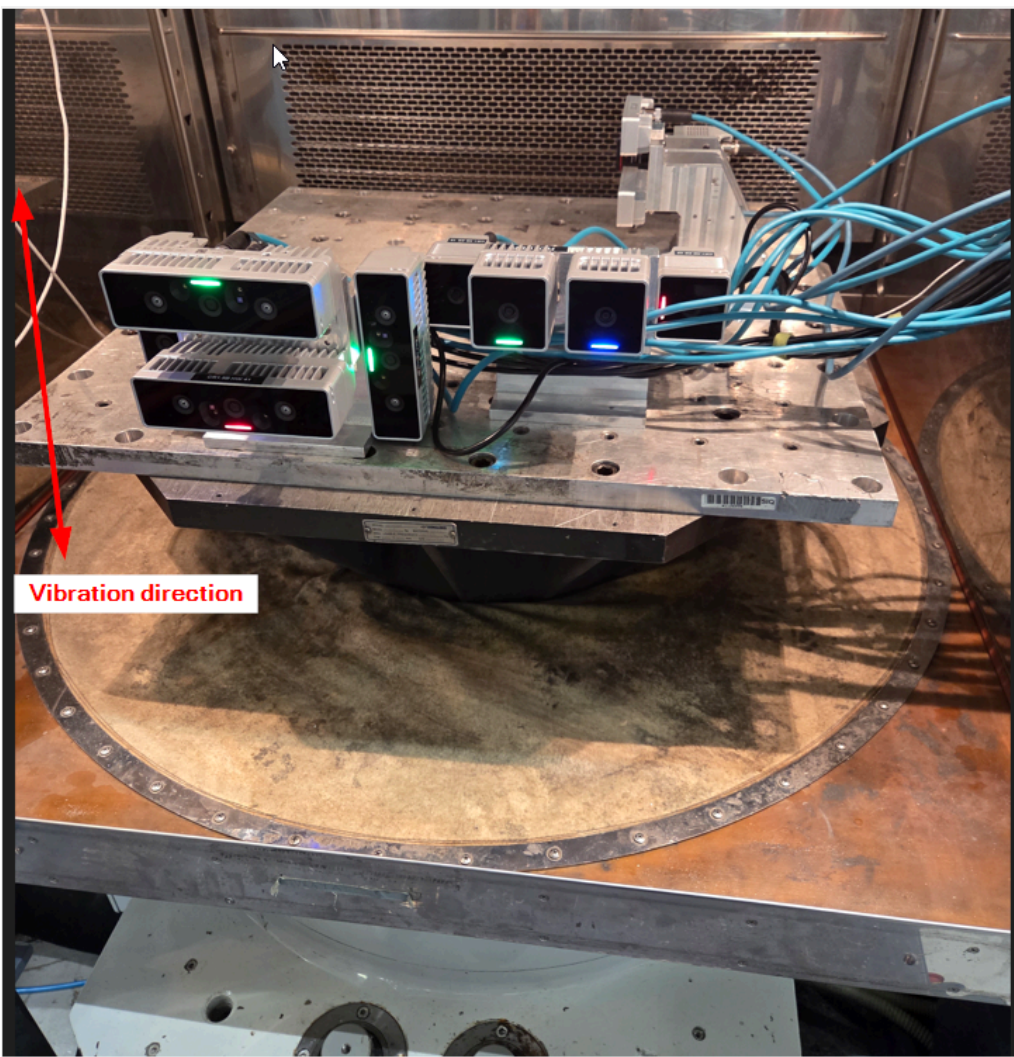


Description

Mounting of devices in the chamber.

DUT mounting Run 3

Picture:



Description

Mounting of devices in the chamber.