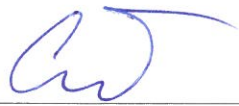
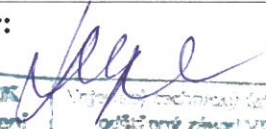
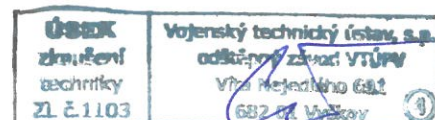


Vojenský technický ústav, s.p. With the certified quality system according to ČSN EN ISO 9001 Equipment Testing Centre EMC Testing Laboratory		Task/Order No.: 25-19-5-93-3074/3595 Test Report No: 194300-049/2025 Copy No.: 1 Pages: 6 Annexes: -
TEST REPORT ENVIRONMENTAL TESTING		
Name and Address of Applicant: (Customer)		SEC Technologies, s.r.o. 1. Mája 4269/031, 031 01 Liptovský Mikuláš, Slovenská republika
Identification of Equipment under test: Type: Serial Number: Manufacturer:		MTU-1A2 Pan Tilt Positioner MTU-1A2 MU0109 EVPÚ Defence a.s. Jaktáre 1781, 686 01 Uherské Hradiště, Česká republika
Technical documentation:		-
Test method: ¹⁾		MIL STD 810G method 509.6
Date of acceptance for testing: 18. 12. 2024	Tests leader: Ing. Petr Čamra test engineer 	
Date of test, place of test: 17. 02. to 21. 02. 2025 EMC testing laboratory, Vyškov	Test carried out by: Ing. Petr Čamra test engineer 	
Issue date: 21. 02. 2025	Authorized by technical manager: Ing. Petr Kupka technical manager 	
Test Results: Test results are on next pages of the test report. <i>Present extended measuring uncertainty is product of standard measuring uncertainty and extension factor of $k = 2$, what is 95 % probability of covering for normal distribution.</i>		
Address: Vojenský technický ústav, s.p. Odštěpný závod VTÚPV, Equipment Testing Centre Víta Nejedlého 691 682 01 Vyškov Czech Republic		Notes: This test report is a translation of the test report No.194300-049/2025. In case of differences, the Czech version applies. ¹⁾ Method used according to: MIL STD 810G Change 1:2014.
Telephone: +420 910 105 641 Email: petr.camra@vtusp.cz		

The test results contained in this report relate to the tested item as received. This report shall not be reproduced other than in its entirety and only with written approval of the Testing Laboratory. The Testing Laboratory is not responsible for the data and information provided by the customer, which may affect the validity of the results.

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1 LIST OF TEST INSTRUMENTS

Table 1 List of test instruments

Inventory No.:	Instrument Name:	Calibration to:
19140011	Salty spray test chamber Heraeus Vötsch typ VSN 1000	-
-	pH meter A.R.AP.GRYGERA	-
-	Combined pH electrode, type pH 2+L	-

2 TESTED EQUIPMENT

2.1 Name and type

Name: MTU-1A2 Pan Tilt Positioner
 Type: MTU-1A2
 Serial No.: MU0109
 Dimensions (L x W x H): 558 x 280 x 472 mm
 Weight: 28 kg

2.2 Configuration

MTU-1A2 Pan Tilt Positioner
 Laptop lenovo ThinkPad T14 Gen 4, S/N: PF-4P3TM3
 - With program Falcon4GVT64, version: 05.07
 USB desktop joystick APEM 100350
 FIU MOXA Converter, S/N: 0208-BD_001
 PeakTech 6226 Power Supply, S/N: 591936

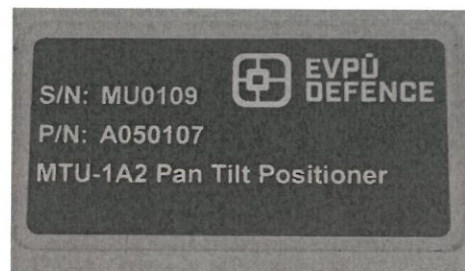
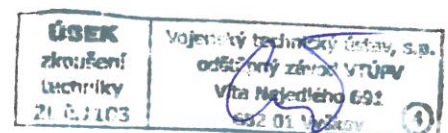


Figure 1 Production label of the tested equipment

2.3 Function verification method

The function of the tested device was always checked before and after the test (after acclimatization of the EUT to laboratory temperature). The test equipment performed several rotations about its axis in both directions and several tilts of the platform to the end positions during one inspection. Smoothness of turning and tilting was monitored. In the Falcon4GVT64 program, the status and color backlighting of the button labeled PLT was monitored. The button signaled the program's communication with the MTU-1A2 platform.



3 TEST RESULTS

3.1 Corrosion tests in artificial atmospheres – Salt spray tests

The tested device was placed in a salt fog chamber and subsequently the parameters were set according to point 3.2.1. The tested device was inserted into the chamber in the transport position and both connectors were fitted with a cover.

3.1.1 Test condition set by the applicant

Test was carried out according to MIL STD 810G change 1:2014, method 509.6.

Exposure time in saline fallout: 48 hours.

Test temperature: $+35 \pm 2$ °C.

The pressure within the test area: 1 bar

Type salts: Sodium chloride

Salt concentration: 51g/l $\pm$ 5g/l

Demineralized water conductivity: 20 μ S/cm.

Amount of salt fall: 28 ml per 24 hours.

3.1.2 Course of the tests and response of EUT

The test equipment was subjected to four 24-hour cycles (24 hours salt spray - 24 hours drying - 24 hours salt spray - 24 hours drying). The tested device was inspected and photographically documented after completion of the test. No rinsing with water was performed after the test. No signs of brown corrosion were detected on the body of the tested device and the tested function (section 2.3) was functional. State of the EUT after the test, see photos, par. 3.2.2.1.

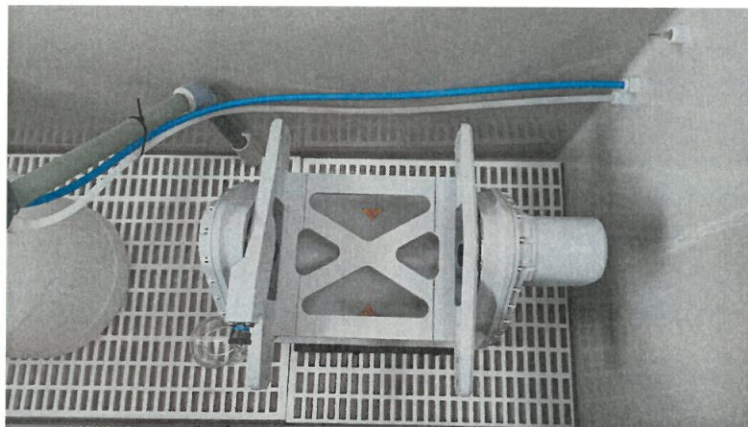
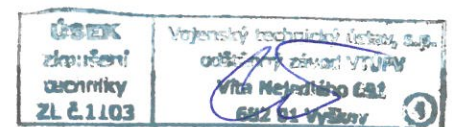


Figure 2 Placement of tested device in the Heraeus Vötsch salt fog chamber type VSN 1000



3.1.2.1 Photo documentation of the MTU-1A2 Pan Tilt Positioner



Figure 3 Detail of the connector on the platform (left – before the test, right – after the test)

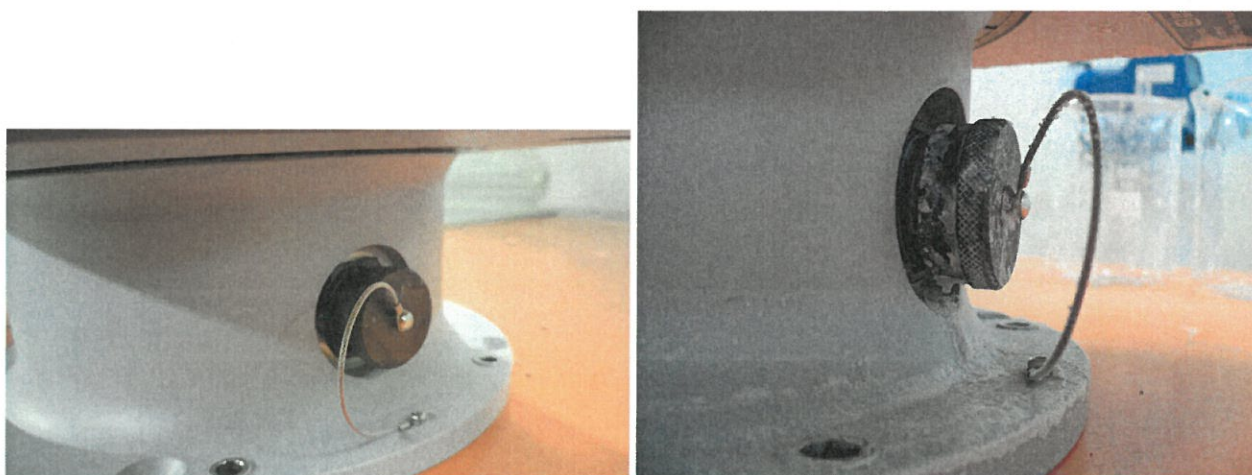
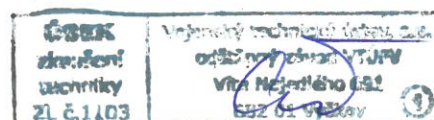


Figure 4 Detail of the connector on the turntable (left – before the test, right – after the test)



Figure 5 Detail of the platform attachment (left – before the test, right – after the test)



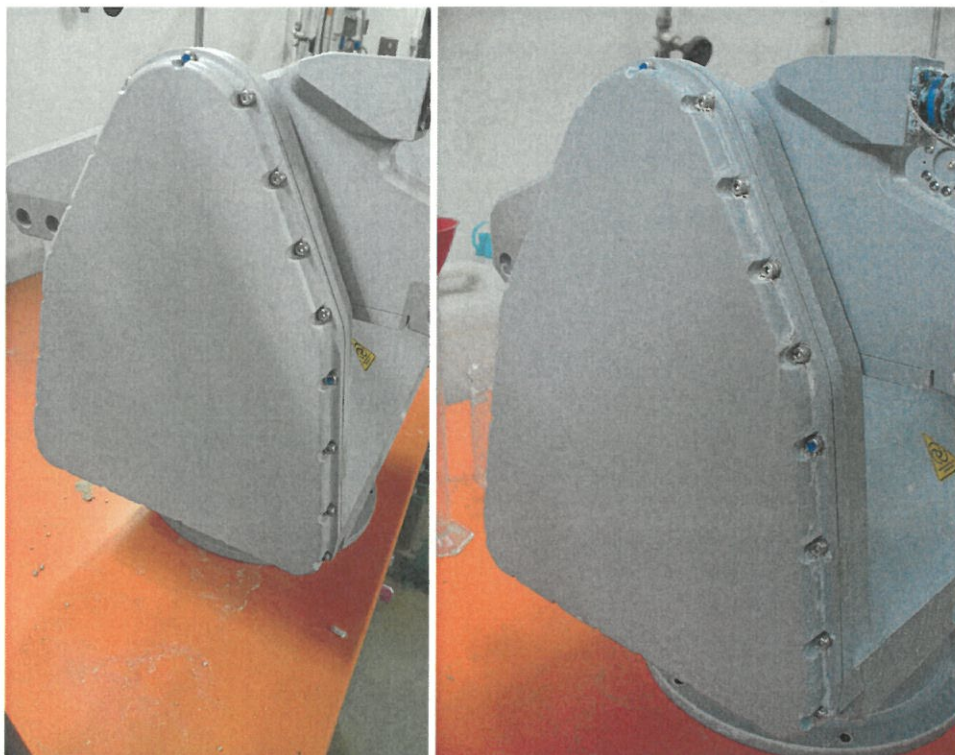


Figure 6 Detail of the side cover (left – before the test, right – after the test)

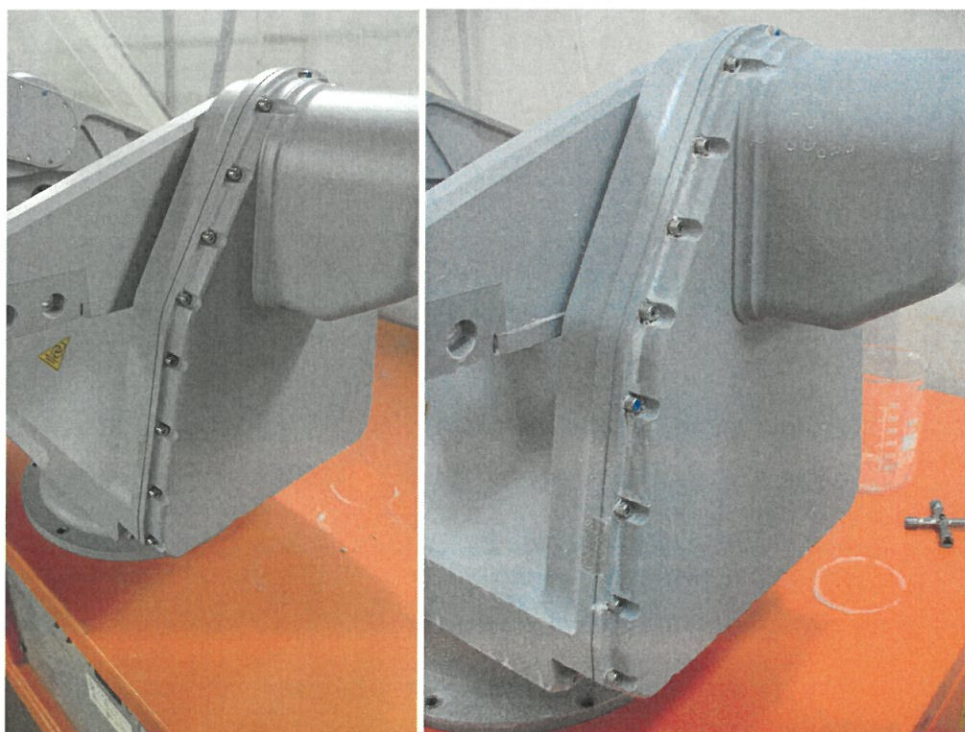


Figure 7 Detail of the engine cover (left – before the test, right – after the test)

THE END OF THE TEST REPORT

