

TEST REPORT

IEC 62262 Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)

Report No.....	N2404R-0349
Date of issue.....	April 09, 2024.
Total number of pages.....	6 pages
Name of Testing Laboratory preparing the Report	NTREE Co., Ltd.
Address.....	135-1, Donghwagongdan-ro, Munmak-eup, Wonju-si, Gangwon-do, Republic of Korea
Applicant's name	Hanwha Vision Co., Ltd
Address	6, Pangyo-ro 319beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea
Test item description.....	2M 32x Network PTZ Camera
Model / Ratings.....	TNU-6324E / AC 220 V
Standard.....	IEC 62262:2002 Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)
Receipt No.	A2024-03235
Date of receipt of test item	2024. 03. 25.
Date (s) of performance of tests	2024. 04. 03.
Test results.....	See test results(IK10)
Usage of Report	For quality control
Remark.....	-. The results shown in this test report refer only to the sample(s) tested unless otherwise stated. -. This test report cannot be used for publicity, propaganda, advertisement and litigation. -. To check the authenticity of this report, please contact the following contact information -. This report is related to KS Q ISO/IEC 17025 and KOLAS accreditation.

Affirmation	Tested by	Technical Manager
	Name : Choongon Bae 	Name : Soohyung Chae 

The above test certificate is the accredited test results by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.

Accredited by KOLAS, **NTREE Co., Ltd.** President Kim Hongsu



Summary of testing.....:	This report is the test result conducted by NTREE Co., Ltd. For 『 2M 32x Network PTZ Camera 』 provided by the client.
Test location.....:	☒ Permanent lab ☐ On site [Address: 135-1, Donghwagongdan-ro, Munmak-eup, Wonju-si, Gangwon-do, Republic of Korea]
Test environment.....:	Temperature: (21 ± 1) °C, Relative Humidity: (43 ± 1) % R.H., Atmospheric pressure: 99 kPa
Test standard.....:	IEC 62262:2002 Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)
Statement concerning the uncertainty	Statement concerning the uncertainty of the measurement systems used for the tests (may be required by the product standard or client) ☐ Internal procedure used for type testing through which traceability of the measuring uncertainty has been established: - Procedure number, issue date and title: ☒ Statement not required by the standard used for type testing (Note: When the standard requires a statement concerning the uncertainty of the measurement systems used for tests, this should be reported above)
Manufacturer information :	Wonwoo Engineering Co.,Ltd 81, Magokjungang6-ro, Gangseo-gu, Seoul, Republic of Korea
Factory information	Wonwoo Engineering Co.,Ltd 81, Magokjungang6-ro, Gangseo-gu, Seoul, Republic of Korea
Configure of the test report	- General remark - TEST RESULTS - Attachment 1: Photographs
General remark.....:	- Throughout this report a point is used as the decimal separator. - Results of tests marked with * indicate that they are out of the accredited scope by KOLAS.

TEST RESULTS

Test subject	Test requirement		Test result
IK10	Test equipment	☐ Pendulum hammer	No damage, breakage and crack
		☐ Spring hammer	
		☒ Vertical hammer	
	Impact energy	20 J	
	Free fall distance	0.4 m	
	Number of shocks	5 times on each exposed surface	
	Point of impact	Attached 1. Refer to after the test	

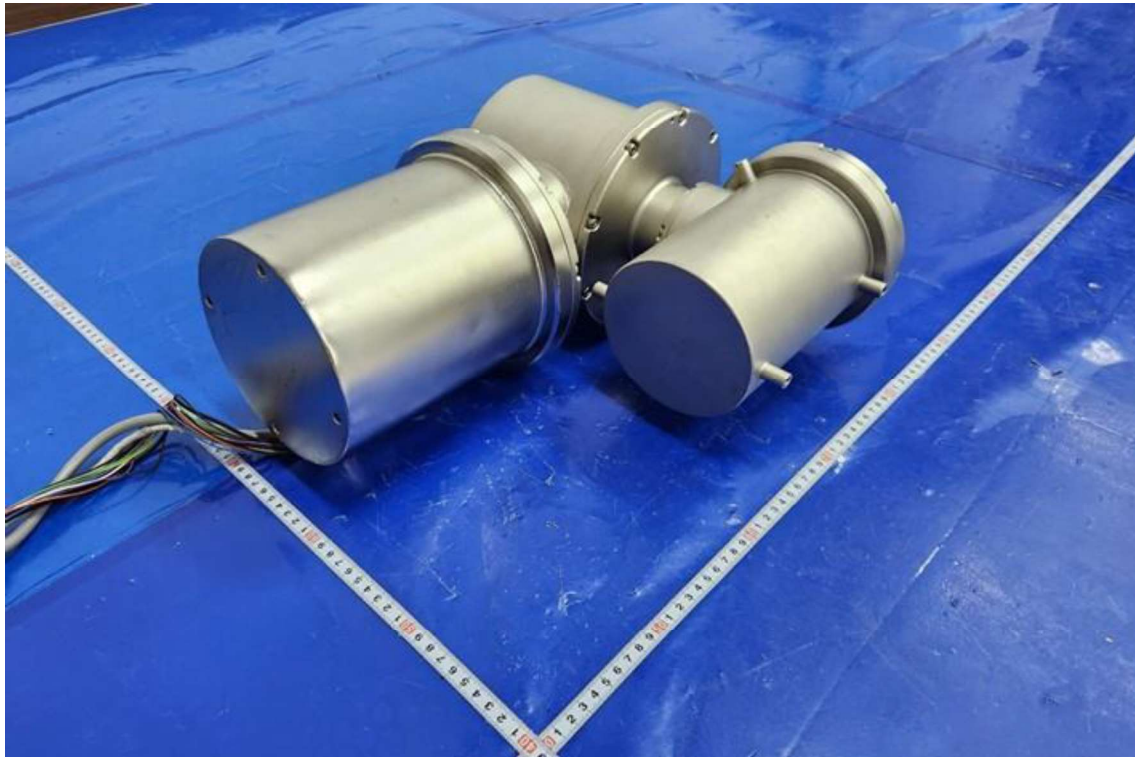
Remarks: At the request of the applicant, the lens part was excluded from the impact point.

Attachment 1. Photographs

[Front view]



[Rear view]



Attachment 1. Photographs

[After test]



[After test]



Attachment 1. Photographs

[After test]



- END of test report -