

TEST REPORT



Report No.: N2103R-0385-01
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1. Client

- Name : Hanwha Techwin Co., Ltd.
- Address : 6, Pangyo-ro 319beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea
- Date of Receipt : 2021. 10. 01.
- Receipt No. : A2021-11781

2. Use of Report : For quality control

3. Test Sample (Information)

- Product name : 2M 32x Network PTZ Camera
- Model name : TNU-6322ER
- Rating : AC 24 V
- Serial No. : N/A(Proto type)

4. Test Period : 2021. 03. 08.

5. Test Method : KS C IEC 62262:2005 Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)

6. Test Environment

- Temperature : (25 ± 5) °C
- Humidity : (30 ~ 75) % R.H.

7. Test Results : For further details, please refer to following TEST RESULTS

- 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	Reviewed by
	Name : Kim Geunyeon 	Technical Manager Name : Park Youngjin 
The above test certificate is the accredited test results by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA. 2021. 10. 05. Accredited by KOLAS, NTREE Co., Ltd. President Kim Hongsu 		
30, Pajangcheon-ro 44beon-gil, Jangan-gu, Suwon-si, Gyeonggi-do, 16204, Rep. of KOREA (TEL: 082-31-893-1000, FAX: 082-31-893-0111)		



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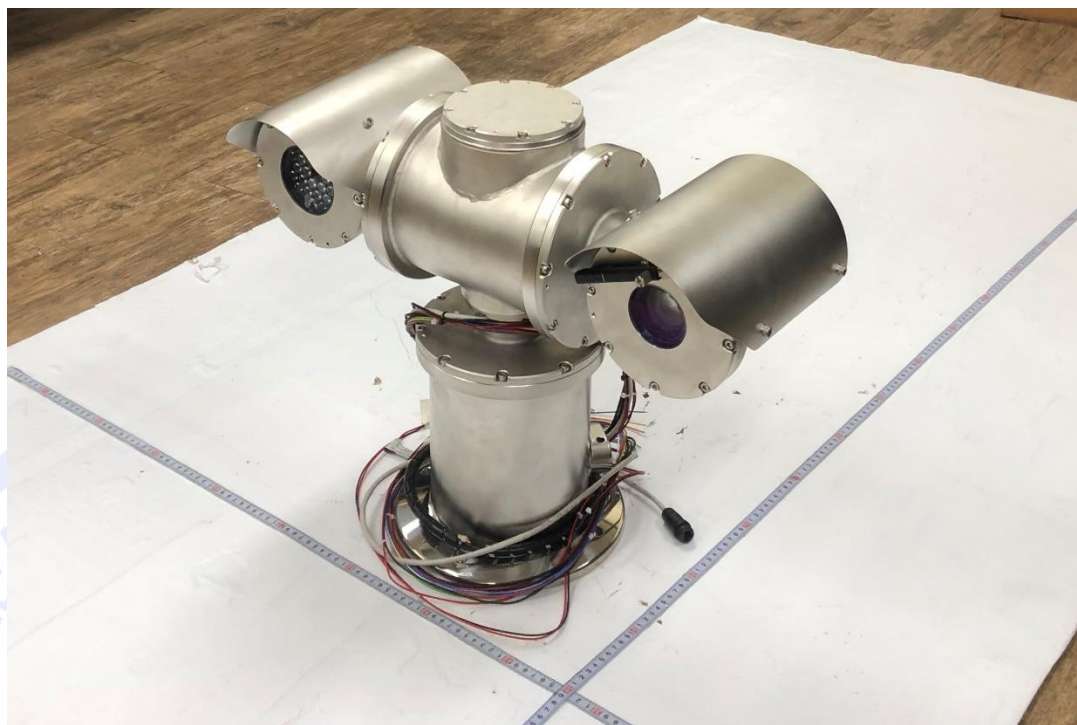
Summary of testing..... :	This report is the test result conducted by NTREE Co., Ltd. for 『 2M 32x Network PTZ Camera 』 provided by the client.										
Test standard..... :	KS C IEC 62262:2005 Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)										
Manufacturer information :	WONWOO Engineering Co., Ltd. 81, Magokjungang 6-ro, Gangseo-gu, Seoul, Republic of Korea										
Factory information..... :	WONWOO Engineering Co., Ltd. 81, Magokjungang 6-ro, Gangseo-gu, Seoul, Republic of Korea										
Configure of the test report..... :	- General remarks - Test Results - Attachment 1. Photographs										
General remark..... :	- Throughout this report a point used as the decimal separator. - Report history <table><thead><tr><th>Report number</th><th>Issue date</th><th>Remark</th></tr></thead><tbody><tr><td>N2103R-0385-</td><td>2021. 03. 11.</td><td>Basic</td></tr><tr><td>N2103R-0385-01</td><td>2021. 10. 05.</td><td>English translation</td></tr></tbody></table>		Report number	Issue date	Remark	N2103R-0385-	2021. 03. 11.	Basic	N2103R-0385-01	2021. 10. 05.	English translation
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N2103R-0385-	2021. 03. 11.	Basic									
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TEST RESULTS

Test subject	Test requirement		Test result
IK10	Test equipment	☐ Pendulum hammer ☐ Spring hammer ☒ Vertical hammer	No damage, breakage and crack
	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 glass part will be hit once.			

Attachment 1. Photographs

[Front view]



[Rear view]

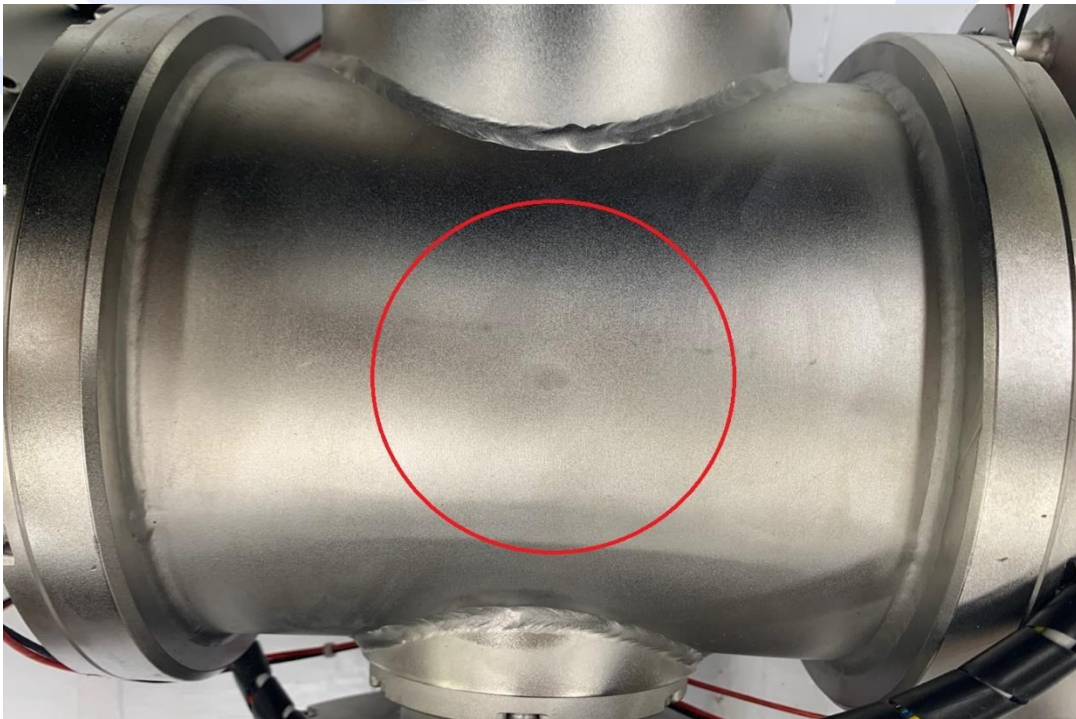


Attachment 1. Photographs

[After the test]



[After the test]



Attachment 1. Photographs

[After the test]



[After the test]



- End of test report -