

REPORT

For

Galardy Technical Services Ltd.

23973 McClure Avenue Maple Ridge, British Columbia V2W 0B3, Canada

Date: Report No.: Revision No.: Project No.: Equipment: Model No.: May 28, 2014 11988-1S 0 11988 Video Surveillance Camera GTS-CA24IR-2.8, GTS-CA24IR-4 GTS-CA24IR-6, GTS-CA24IR-8

ONE STOP GLOBAL CERTIFICATION SOLUTIONS



3133-20800 Westminster Hwy, Richmond, BC V6V 2W3, Canada Phone: 604-247-0444 Fax: 604-247-0442 www.labtestcert.com

LabTest Certification Inc. May 28, 2014 11988 Client: Report No.: Revision No.: Galardy Technical Services Ltd. 11988-1S 0

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	TEST REPORT
Report reference No	11988-1S
Report Revision History:	0
Tested by (printed name and signature)::	Constantin Gavrilas
Approved by (printed name and signature)::	Sandeep Bhayana
Date of issue:	May 28, 2014
policies: 1.) Statement of Independence # 3014 (LabTest El	9, clause 11 (Engineering Service Subcontractors), or
Testing Laboratory Name:	LabTest Certification Inc.
Address:	3133 – 20800 Westminster Hwy, Richmond, B.C. V6V 2W3, Canada
Test Location Name	Same as Test Laboratory
Address:	Same as Test Laboratory
Applicant's Name	Galardy Technical Services Ltd.
Address:	23973 McClure Avenue, Maple Ridge, British Columbia V2W 0B3, Canada
Test specification	
Standards:	N/A
Test procedure:	Cold Resistance Test
Non-standard test method:	N/A
Test item description:	Video Surveillance Camera
Trademark:	N/A
Manufacturer	Galardy Technical Services Ltd.
Model and/or type reference:	GTS-CA24IR-2.8, GTS-CA24IR-4, GTS-CA24IR-6, GTS-CA24IR-8
Serial number:	N/A
Rating(s):	12Vdc, 350mA
Sampling Plan Used	Client Test Plan

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Prepared by: Date Issued: Project No:	LabTest Certification Inc. May 28, 2014 11988	Client: Report No.: Revision No.:	Galardy Technical Services Ltd. 11988-1S 0
Particulars: test item vs.	test requirements		
Equipment mobility		xed	
Operating condition Mass of equipment (Kg)		0°C to 25°C 19Kg	
Protection against ingress	of water N	/A	
Test case verdicts			
Test case does not apply	to the test object : (N	I)/A	
Test item does meet the re	equirement: (P	P)ass	
Test item does not meet t	he requirement: (F)ail	
Testing			
Date of receipt of test item	n: M	ay 7, 2014	
Date(s) of performance of	test M	ay 7, 2014	

General remarks

"This report is not valid as a CB Test Report unless appended by an approved CB Testing Laboratory and appended to a CB Test Certificate.

The test result presented in this report relate only to the object(s) tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

"(see Enclosure #)" refers to additional information appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a comma is used as the decimal separator.

 \boxtimes Throughout this report a period is used as the decimal separator.

General product information:

The video cameras tested will be used in a video surveillance system and are intended to be connected to a controller with the ability to record the signal and/or display it on a monitor.

Note: 4 different Video Surveillance Camera models were tested, all using the same enclosure and circuitry but with different lenses.

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SUMMARY OF TESTING

	TEST	DESCRIPTION OF TEST	VERDICT
1	Cold Resistance Test	 The test has been started from room temperature then the temperature has been gradually lowered down to -50°C while keeping the units operational The units have been connected as in normal operation and their functionality has been verified continuously and they have kept operating normally for the full length of the test 	Pass

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TEST EQUIPMENT USED

ltom	Time	Type Equipment No	Calibrat	tion date	Calibration	Calibration
ltem	гуре		Last	Due	Certificate No	Laboratory
1	Temperature Chamber	23	Not required as equipment no. 236 & 501 are calibrated		—	_
2	Multiplexer Module	236	July 29, 2013	July 29, 2014	353782	Wescan Calibration
3	Data Acquisition Unit	501	September 17, 2013	September 17, 2014	335779	Wescan Calibration

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PRODUCT DESCRIPTION

Product Name: Video Surveillance Camera

Model Number: GTS-CA24IR-2.8, GTS-CA24IR-4, GTS-CA24IR-6, GTS-CA24IR-8

The video cameras tested will be used in a video surveillance system and are intended to be connected to a controller with the ability to record the signal and/or display it on a monitor.

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PICTURES



Picture 1 – GTS-CA24IR-xx Front View

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Picture 2 – GTS-CA24IR-xx Right Side View

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Picture 3 – GTS-CA24IR-xx Left Side View

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Picture 4 – GTS-CA24IR-xx Top View

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APPENDIX A – TEST DATA SECTION

Project No.:	11988	Date:	May 07, 2014
Equipment ID#:	23, 236, 501	Room Temp/Humidity:	23.9°C/38.5%
•••	GTS-CA24IR-2.8,		
	GTS-CA24IR-4,		
	GTS-CA24IR-6,		
Model No(s):	GTS-CA24IR-8	Barometric Pressure:	102.3kPa
	1218696, 1218697,		
Sample No(s):	1218698, 1218699	Serial No(s):	N/A
1.) Statement of Indepen	ow, both the Issuer and the Reviewer dence # 3014 (LabTest Employees), o tiality, and Integrity #1019, clause 3.5	or	applicable LabTest policies:
Tested By:	Constantin Gavrilas		An
	Print		Signature
Reviewed by:	Sandeep Bhayana		01-j=
	Print		Signature
Cold Resistance Te	<u>est</u>		

METHOD

Test procedure:

- 1. The 4 models tested have been placed in the environmental chamber, where all of them have been connected to the controller and powered up for normal operation. The video feed and functionality of all the 4 units has been monitored simultaneously on the system's screen throughout the test.
- 2. A Type J thermocouple has been placed on each of the samples and the temperature of their enclosures has been continuously measured and recorded by means of a Data Acquisition Unit.
- 3. The test has been started from room temperature then the temperature has been gradually lowered down to -50°C while keeping the units operational. The functionality of the units has been constantly tested during this period.

Prepared by:	LabTest Certification Inc.	Client:	Galardy Technical Services Ltd.
Date Issued:	May 28, 2014	Report No.:	11988-1S
Project No:	11988	Revision No.:	0

Test data:

The table below shows for each of the samples the period of time spent below the corresponding ambient temperature in steps of 5°C in the range between -10°C and -50°C:

Ameliant	Time spent in the chamber at the corresponding temperature (hrs:min:sec)				Time elapsed under this	
Ambient temperature						temperature
(°C)	GTSCA24AIR6	GTSCA24AIR4	GTSCA24AIR28	GTSCA24AIR8	Ambient	(hrs:min:sec)
-10	01:30:59	01:30:20	01:30:00	01:31:20	01:21:00	4:49:00
-15	01:57:20	01:55:00	01:54:39	01:58:00	01:40:40	4:29:20
-20	02:27:39	02:25:00	02:24:39	02:27:59	02:12:20	3:57:40
-25	02:50:19	02:46:19	02:45:20	02:51:20	02:42:20	3:27:40
-30	03:13:20	03:11:40	03:10:59	03:13:40	03:07:20	3:02:40
-35	03:30:20	03:27:40	03:26:40	03:30:40	03:20:39	2:49:21
-40	03:55:00	03:50:39	03:49:40	03:55:00	03:41:59	2:28:01
-45	04:47:39	04:39:19	04:36:19	04:47:19	04:19:19	1:50:41
-50	06:08:40	06:02:19	05:58:39	06:08:40	05:30:40	0:39:20
-50	06:10:00	06:10:00	06:10:00	06:10:00	06:10:00	-

Table Cold Test Temperature

Observation:

Total duration of the test was 6h 10min.

All 4 units have remained functional and have been operating normally throughout the whole period of the cold resistance test.

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APPENDIX B – ISO 17025:2005 ACCREDITATION CERTIFICATE



For complete scope of certification use http://www.iasonline.org/PDF/TL/TL-367.pdf.

END OF REPORT

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