

REPORT

For

Galardy Technical Services Ltd.

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

Date: May 28, 2014 Report No.: 11988-1S

Revision No.: 0

Project No.: 11988

Equipment: Video Surveillance Camera

Model No.: 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: Galardy Technical Services Ltd.
Report No.: 11988-1S
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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

Note: By signing this report, both the Testing Technician and the Reviewer hereby declare to abide by the applicable LabTest policies:

201 am

1.) Statement of Independence # 3014 (LabTest Employees),

2.) Independence, Impartiality, and Integrity #1039, clause 11 (Engineering Service Subcontractors), or

3.) Independence, Impartiality, and Integrity #1019, clause 3.5 (Testing Subcontractors).

Testing Laboratory Name LabTest Certification Inc.

Address: 3133 – 20800 Westminster Hwy, Richmond, B.C. V6V 2W3, Canada

Same as Test Laboratory

Test Location Name Same as Test Laboratory

Applicant's Name Galardy Technical Services Ltd.

Canada

Test specification

Standards: N/A

Address:

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

Date Issued: May 28, 2014 Report No.: 11988-1S Project No: Revision No.: 11988 0 Particulars: test item vs. test requirements Equipment mobility: Fixed Operating condition..... -50°C to 25°C Mass of equipment (Kg).....: 0.19Ka Protection against ingress of water: N/A Test case verdicts (N)/A Test case does not apply to the test object: Test item does meet the requirement: (P)ass Test item does not meet the requirement ...: (F)ail **Testing** Date of receipt of test item: May 7, 2014 Date(s) of performance of test: May 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. ☐ 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.

Client:

Galardy Technical Services Ltd.

LabTest Certification Inc.

Prepared by:

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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

Item	Туре	Equipment No	Calibrat	tion date	Calibration Certificate No	Calibration Laboratory
			Last	Due		
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	
	ndence # 3014 (LabTest Employees) rtiality, and Integrity #1019, clause 3		bish	
Tested By:	Constantin Gavrilas		And I	
•	Print		Signature	
			2.	
Reviewed by:	Sandeep Bhayana	a de la companya de	O41-anjong.	
	Print		Signature	

Cold Resistance Test

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.

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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:

Amabiant	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

International Accreditation Service

CERTIFICATE OF ACCREDITATION

This is to signify that

LABTEST CERTIFICATION, INC.

3133-20800 WESTMINSTER HIGHWAY RICHMOND, BRITISH COLUMBIA V6V 2W3 CANADA

> Testing Laboratory TL-367 (Revised March 21, 2013)

has met the requirements of the IAS Accreditation Criteria for Testing Laboratories (AC89), has demonstrated compliance with ISO/IEC Standard 17025:2005, General requirements for the competence of testing and calibration laboratories, and has been accredited, commencing May 5, 2011, for the test methods listed in the approved scope of accreditation.

Patrick V. McCullen

Vice President

President

ACCREDITED

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(see attached scope of accreditation for fields of testing and accredited test methods)

Print Date: 04/25/2013

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon su See the IAS Accreditation Listings on the web at www.icsonline.org for current accreditation information, or contact IAS directly at (562) 364-820.

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

END OF REPORT

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DCN: 1012, Rev 6