

Reliability Laboratory

TEST REPORT

Report No.: HC90057A/2013 Page: of 6 1 Date: October 1, 2013

DYNACOLOR INC. NO. 116, JOU TZ STREET, NEIHU, TAIPEI, TAIWAN

The following merchandise was submitted and identified by the vendor as: Commont Dullat ID Common Draduat Description

Product Description.	Compact Bullet IP Camera
Style/ Item No .:	9B0B/ No.1
Quantity:	Total 1 piece
Testing Period:	Sep. 13, 2013 to Sep. 17, 2013

We have tested the submitted sample(s) as requested and the following results were obtained:

Test for Degrees of Protection Provided by Enclosures (IEC 60529 Edition 2.1: 2001) Test Required:

IP Code	IP66
Hirst charactaristic numbral	Degrees of protection against access to hazardous parts and against solid foreign objects
Second characteristic numeral Degrees of protection against ingress of water	

Test Results:

Conclusion Submittals sample(s) comply with the requirement and acceptance conditions of IEC 60529 Edition 2.1: 2001 Degrees of Protection Provided by Enclosures -- IP66 The detailed description of test result, please see attached sheet(s).

* HC90057/2013, dated on September 18, 2013, is hereby canceled and replaced by HC90057A/2013.

Signed for and on behalf of SGS TAIWAN Ltd.

Winson Tseng Asst. Manager

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Test for Degrees of Protection Provided by Enclosures:

Test Equipment:				
Name		Brand	Model	Serial No.
Dust-proof Object Test Pro	be	ED&D	TRP-02	B0050180
Digital Force Gauge		ALGOL	HF-50	HF-106764
Dust Tester		T-MACHINE	TMJ-9723C	T-23-050411
IPX6 Water Jet Hose Nozz	le Set	PTL	P03.28	5040045
Lab Environmental Conc	litions:			
Ambient temperature:	<u>(25 ± 3)</u>	<u>°C</u>		
Ambient humidity:	<u>(55 ± 20</u>	<u>) % RH</u>		
Test Method/ Specification	<u>on:</u>			
Test method:	<u>IEC 6052</u>	9 Edition 2.1: 2001IP	<u>66</u>	
1. Test for protection a	<u>against acce</u>	ss to hazardous parts:		
Test method:	The test v	vire with 1.0 mm in dia	meter and 100 mm lor	ng is pushed again
	or inserte	d through any openings	of the enclosure with	designated force.
	Examine	whether the test wire to	uches the hazardous l	ive parts inside the
	enclosure	or not.		-
Test force:	1 N±10 %			
2. Test for protection a				
Test method:	Dust test			
Specimen Condition:	Non-Oper	rating		
Type of dust:	Talcum p	owder		
The amount of dust:	<u>2 kg</u>			
The chamber size:	1 m^{3}			
The maximum depression	on: <u>-20 mbar</u>			
Test duration:	8 hours			

Examine the protection against ingress of dust of specimen(s) after this test.

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Test Method/ Specification--Continued:

3. Test for protection against water:

Test means:	Spraying the enclosure from all practicable directions with a stream of water
	from a standard test nozzle as specified in test standard.
Specimen Condition:	Non-Operating
Internal diameter	
of the nozzle:	<u>12.5 mm</u>
Delivery rate:	<u>100 @/minute ±5%</u>
Distance from nozzle	
to enclosure surface:	between 2.5 m and 3 m
Core of the substantial	
stream:	circle of approximately 120 mm diameter at 2.5 m distance from nozzle
Test duration:	Total 3 minutes

• Examine the protection against ingress of water of specimen(s) after this test.

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Specimen:	
Style/ Item No.:	<u>9B0B/ No.1</u>
Quantity:	Total 1 piece

Test Result:

A. Degrees of protection against access to hazardous parts and against solid foreign objects (IP6X)

Δ_{-1}	Test for	nrotection	against	access to	hazardous	narte /	(IP6X)	
A-1	1651 101	protection	agamsi	access to	nazaruous	parts (IFUAJ	1

Test Result			
Charle Harry	Style/ Item No. 9B0B/ No.1		
Check Item			
1 Does the test wire penetrate any openings of the enclosure?	No		
2 (followed check item 1) If the test wire penetrates any openings of the enclosure, does the test wire touch any hazardous live parts or any hazardous mechanical parts?	N/A		
(followed check item 2) Does adequate clearance be kept between the test wire and hazardous live parts or hazardous mechanical parts?	N/A		
Iote 1: N/A means "Not Applicable". Iote 2: The check items in this test report for inspecting the degree of protect requirements specified in IEC 60529 Edition 2.1: 2001 and in accorda			

by client.

A-2 Test for protection against solid foreign objects (IP6X)

Test Result		
Check Item Style/ Item No. 9B0B/ No.1		Style/ Item No.
		9B0B/ No.1
1	Does any dust deposit inside the enclosure at the end of the test?	No
	 e 1: N/A means "Not Applicable". e 2: The check items in this test report for inspecting the degree of protect requirements specified in IEC 60529 Edition 2.1: 2001 and in accorda by client. 	

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Test Result--Continued:

B. Degree of protection against ingress of water (IPX6)

Test Result		
		Style/ Item No.
	Check Item	9B0B/ No.1
1 Do	oes any water permeate into the specimen?	No
	ollowed check item 1) If any water has entered, does the ater accumulate near the cable end or live parts?	N/A
2.1 int	ollowed check item 2) Does the water be sufficient to terfere with the correct operation of the equipment or pair safety?	N/A
2.2 ins	ollowed check item 2.1) Does the water deposit on sulation parts where it could lead to tracking along the eepage distances?	N/A
$2.3 \frac{\text{(fc})}{\text{wi}}$	ollowed check item 2.2) Does the water reach live parts or indings not designed to operate when wet?	N/A
Note 1:	N/A means "Not Applicable".	

Note 2: The check items in this test report for inspecting the degree of protection provided by enclosures are reference to the requirements specified in IEC 60529 Edition 2.1: 2001 and in accordance with the acceptance conditions specified by client.

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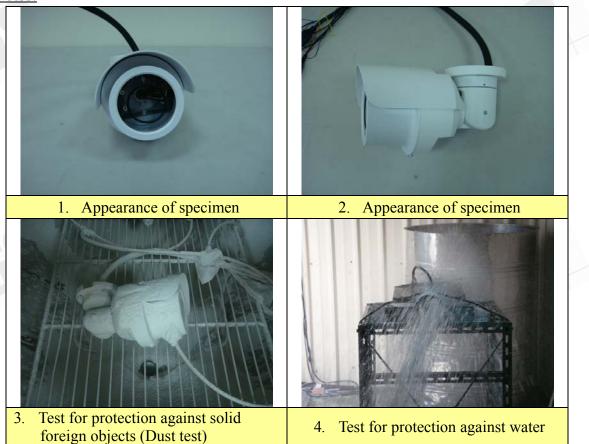
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Test Photos:



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